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Form SL-1035

KEEP THIS ON TOP

File No. Aa-25.16.3B

Subject: SILVER CROWN PROSPECT, near Prescott, Yavapai County, Arizona

Silver Crown

MAY 15/96

TO JIM SELL
BY FAX NO 620-578-7196

FROM. INTERNATIONAL SILVER RIDGE RESOURCES INC.
BY. BARRY WILSON
FAX NO 604-358-2236
PHONE NO. 604-358-7723.

RE. SILVER CROWN PROPERTY.

EXPECT TO BE IN PHOENIX
MAY 28TH TO INSPECT PROPERTY.
PLEASE FAX OR PHONE YOUR COMMENTS
ON THE FOLLOWING REPORT.

Barry WILSON.

Called 5/14
& declined to go
with him.
Told him about
Jim Loghey as
possible helper

200-580 Hornby Street
Silverton, BC, CANADA V6L 3B6

He said they were
willing to drill 2 holes for
their own info. ~~both~~ of other
info, is last 10 holes at property.

GEOLOGIC REPORT AND EVALUATION

OF THE

SILVER CROWN MINING PROPERTY

WALNUT GROVE MINING DISTRICT

YAVAPAI COUNTY-ARIZONA

REPORT PREPARED FOR: Mr. Newell Newton

REPORT PREPARED BY: FRANK W. MACK, CONSULTING GEOLOGIST

AUGUST 1992

Franklin W. Mack
Consulting Geologist

August 17, 1992

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ESTIMATED GOLD AND SILVER POTENTIAL FOR THE SILVER CROWN MINE AND ADJOINING AREAS

From available information on the Silver Crown Mine, personal first hand knowledge of the mine and the ore shoots, the following is the estimated potential for this property with the following assumptions:

Silver Crown Mine

Projected ore shoot dimensions:

Vertical length- 1000'

Horizontal- 300'

Average width of shoot- 5'

Total tonnage in one shoot- 125,000 tons

There are two shoots therefore there is a potential of 250,000 tons of ore.

Average projected ore grades:

Gold- 0.09 opt

Silver- 20.00 opt

There will also be lead and copper credits.

Average value per ton- $100.00

Silver and gold potential metal value- $25,000,000

This estimate is conservative. There are major mines(former producers) not very distant from this mine that have been mined to 2000' to 3000' below the surface therefore this mine could eventually be worth $50,000,000 to $75,000,000.

ESTIMATED PROJECTED MINERAL POTENTIAL OF A GOLD/SILVER OPEN PIT MINE ON A SEGMENT OF THE ALTERED/POTENTIALLY MINERALIZED NE-SW SCHIST BELT

Open pit dimensions:

1000' by 1000' by 400' deep= 30,000,000 tons of ore

Gold estimated value- 0.05 opt

Gold potential metal value- $510,000,000

This estimate represents one pit however there may be others that will increase the economic potential considerably.

INTRODUCTION:

Location Of Silver Crown Mine Area

The Silver Queen Mine Area is reached by via the Wagoner Road from Arizona State highway 89 to a point where the gravel road ends and the paved road begins. turn right at this point on a dirt road and proceed several miles until a deep dip in the road is reached, turn left after this dip onto the next road by a windmill. This road leads to the Silver Crown Mine area. The total distance from the highway to the mine is about 7.5 miles.

Relief And Elevations

The Silver Crown area is composed mostly of moderately to steep sided ridges and canyons. The elevations range from about 4200' up to 4600' above sea level.

Drainage

The main drainage is the southeast flowing French Gulch and the NE flowing Placerita Gulch. Placerita is tributary to French Gulch and about four miles southeastward, French Gulch is tributary to the southward flowing Hassayampa River.

Vegetation

The most common vegetation around the Silver Crown is scrub oak and catclaw bushes. Occasional pinyon pine and walnut trees are found along the washes and ridge slopes. Access to many areas is almost virtually blocked by the thick brush making any type of traverses difficult or impossible.

Electrical Power

Electrical power for mining or milling purposes is within a mile of the property.

Water

A good supply of water for mining purposes is found in the French Gulch drainage area, from one to two miles distant from the Silver Crown Mine.

REGIONAL GEOLOGY OF THE SILVER CROWN MINE AREA

The Silver Queen Mine lies within a broad area of Precambrian metamorphic rocks which have been intruded by masses of granite, also Precambrian age. Rocks of other composition have also been intruded locally. The regional strike or grain of the metamorphic units and intrusive rocks is northeast and southwest. The metamorphic schist formations were initially formed from sedimentary formations. The sedimentary units, possibly graywackes, were deformed into very tight folds which caused the rocks to form schist formations. Faulting in the area is primarily controlled by the NE-SW regional trend but some cross faulting occurs. Some younger(Quaternary) basalt has intruded adjoining areas.

SILVER CROWN MINE AREA GEOLOGY

The predominent rock type at the Silver Crown property is a mostly sericitic thinly laminated schist formation. A porphyritic granite located to the southeast of the area has intruded the schist formation. Later intrusive activity consisted of the emplacement of mafic dykes locally.

The schist trends mostly in a north forty east direction although there are deflections locally in areas affected by structural deformation. For example, the area south of the saddle southwest of the Silver Crown has been deflected to the north twenty or more degrees(foliation). The schist dips steeply in a northwesterly direction. There appears to have abundant amounts of minor slippage along the planes of foliation with the development of thin planes of talc. Some of the schist has been weakly to moderately silicified.

Locally there has been introduced into the schist varying amounts of quartz veiningmostly as short(about 12" long) elliptical pods or just short lengths of vein material which are mostly found along planes of the foliation. Locally there are cross-cutting quartz veins. Occasionally there are some minor layers only a few inches wide of siderite that has been oxidized to limonite.. Siderite is frequently associated with the silver/gold/lead bearing quartz veins in the Silver Crown Mine therefore indications of this ore associated gangue on the surface should be carefully noted as a potential blind(noncutcropping) ore zone. The detailed geologic mapping should outline these occurrences on a map for future investigations.

As most faults parallel foliation, it is difficult, surficially, to identify some faulting. If, however in the case of the Silver Crown Mine main vein structure, the zone is wide, this will show in part topographically as depressed "notches" along ridges and other topographic forms. The weathered/altered broken zones erode more easily than the surrounding rock thus forming depressions. Although there were no cross faulting observed along the main structures, it is felt that they indeed probably exist and may explain the localization of mineralization. The air photos when available will be studied to locate cross structures.

GOLD PLACER OCCURRENCES

Placer gold was actively prospected for and mined in two main areas of the claims as well as at several other areas. The two drainages containing alluvial gold are French and Placerita Gulches. A short gulch tributary to Placerita Gulch is Little Placerita Gulch whose drainage was entirely within the claim block. The French and Placerita Gulches drainage basins are a short distance west to northwest of the claims.

The mining history of this placer district began during the nineteenth century and possibly even earlier. Placer mining was carried out intermittently throughout this era until the twentieth century Depression Era commenced in the 1920's and 1930's.

The alluvial gold mined from these gulches was reported to be richest on the claim block and southeast(downstream). The drainages of these gulches west to northwestward(upstream) of the claims were not as well mineralized as the two previously mentioned areas.

The significance of the differing accumulations of placer gold strongly indicates that the main area contributing placer gold into the drainages were one or more segments of the NE-SW trending wide faulted mineralized zone on the Silver Crown property.

It is recommended that a stream sediment survey be conducted along all of the main and secondary drainages within this potentially significant gold zone to localize where the source of the gold is and to conduct followup geochemical and geologic investigations to further delineate potential target areas for drill testing.

The object of the proposed investigation work is not to look for alluvial or placer gold deposits but to search for source lode gold deposits that may be mined by open and/or underground methods depending on the distribution of metal values into wallrock or if they are confined into vein deposits.

GEOLOGY IN VICINITY OF DDH-10 AND DRILL HOLE EXPLORATION ADIT

The most predominent rock type at this site is a strongly foliated sericite schist. It is mostly a steel gray color with a high sheen. Structurally, it is fissle or thinly laminated and at other locations blocky with several directions and attitudes along joint surfaces.

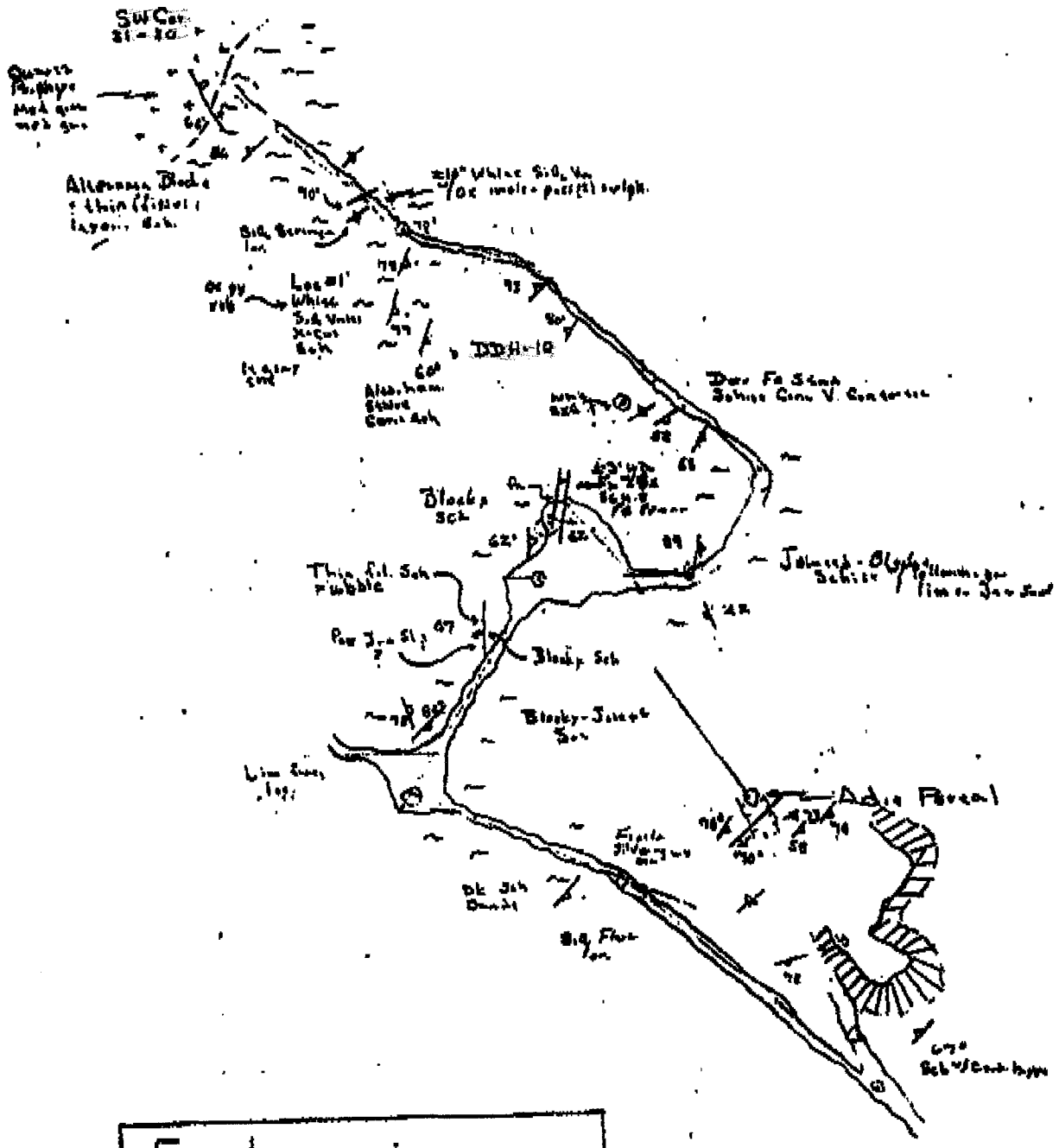
The schist is intruded at the north end of the area by a quartz eye porphyry. The effects of this intrusive on the schist is a local bleaching (removal of iron minerals to other sites of deposition) and some quartz veining. A 10" wide vertical quartz vein near DDH-10 strikes N 65°E. This vein at depth may have helped contribute to the formation of the high grade gold intercept(17") in drill hole 10 at a depth of 230'.

The schist is very strongly isoclinally folded locally. At other places, folding is steep and reversal of dipping is found in the mapping showing a very decided fold mode. No marker beds were noted which would be very useful.

Aside from the narrow quartz previously mentioned, no other significant veining was observed. The quartz porphyry/schist contact had some narrow (1"-2" wide) quartz veinlets or stringers cutting across the foliation planes of the schist. A limonitic material was observed but it does not have the appearance of limonite after sulphides. Quartz veinlets were also noted near drill hole 10. This quartz appears to be of late origin(post-mineral) and probably originated during an intrusive phase when free quartz was remobilized to cross fractures in the schist. White quartz veining was occasionally found as float.

The map on the following page illustrates the preceeding geologic description.

Six vein zones were sampled. Assay results were disappointing. Gold values ranged from trace to .004 opt. Silver manged from 0.14 to .33 opt. See the geologic level map for sample locations and a assay certificate with the values.



Explanation

- Sericite Schist
- Intrusive Quartz Porphyry
- Vein
- Fault w/Attitude
- Foliation of Schist w/Attitude
- Joint & Attitude
- Contact
- DDH Diamond Drill Hole Site
- Road

Silver Crown Mi
Prospect

Drill Hole 10 - Explor. Ad
Scale: 1" = 100'
Map & Geology By: F.W. Mo
August 1992
Location - Yavapai County: A

IRON KING LABORATORY

Page 1

9-August-92

LAB JOB #: MSC1176

Client Name: N. Newton
Billing Address: 206 N. Summit Ave.
Prescott, AZ 86301

No. Samples: 6
Date Received: 8-5-92
INVOICE ATTACHED
Silver Crown Project

ANALYTICAL REPORT

Client I.D. MSC1176	Lab I.D.	FA/Au oz/ton	FA/Ag oz/ton
11957	1176-1	.002	.33
58	2	.002	.21
59	3	.003	.25
60	4	Tr	.19
61	5	.002	.30
62	6	.004	.14

Drill Hole 10
Adit Sample

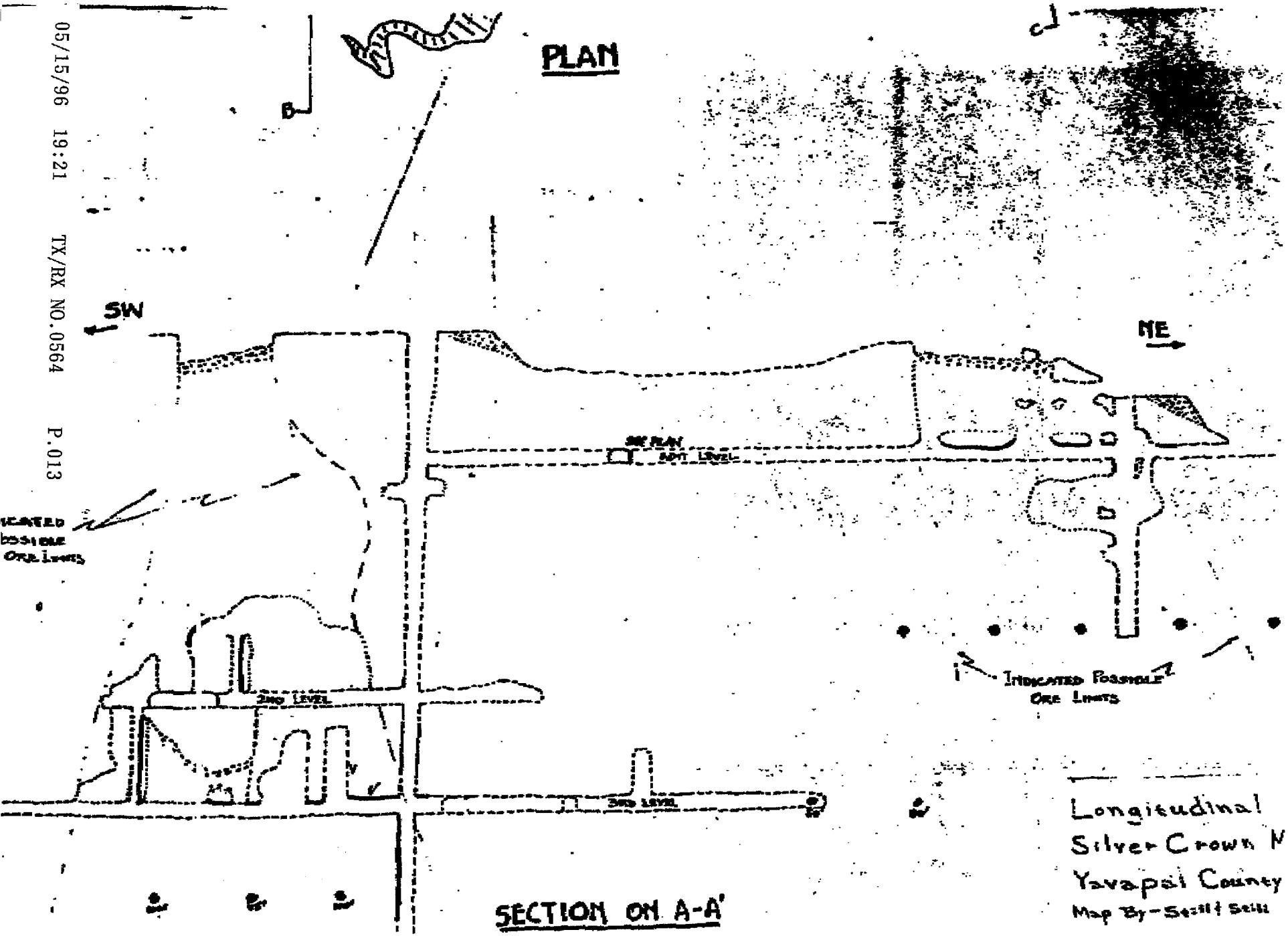
REGISTERED ASSAYER
2978
WALTER O. STATLER
ARIZONA, U.S.A.

P.O. BOX 66 • HUMBOLDT, AZ 86329 • (602) 632-7410

REJECTS KEPT 30 DAYS, PULPS KEPT 90 DAYS, UNLESS PRIOR ARRANGEMENTS MADE.

BASE METAL VALUES IN THE VICINITY OF THE DRILL HOLE - 10 AREA

The following metal values were from samples taken along the road in the vicinity of Drill Hole - 10 and the exploration adit below. These values may assist in the geochemical prospecting phase of this property. The person who collected the samples is unknown.


PLAN
SW
NE
3RD PLAN
3RD LEVEL
2ND LEVEL
2ND LEVEL
INDICATED POSSIBLE ORE LIMITS
SECTION ON A-A'
Longitudinal
Silver Crown M
Yavapai County
Map By-Sewill Sewill

DISCUSSION OF ASSAY RESULTS FROM SIX DIAMOND DRILL HOLES

Of the twenty seven diamond drill holes put into this property by Arizona-Michigan Mining Company, only several assays are available from a few holes. Limited assay results are available from:

Hole 9
Hole 10
Hole 11
Hole 12
Hole 14
Hole 15
Hole 19

The following assay labs performed gold and silver analytical work on drill core/coarse rejects/pulps:

Arizona Assay Office

American Analytical & Research Labs

Reed Engineering

It is not known if these samples were from split core, coarse rejects or reassay of pulps.

Assay results range moderately to widely from some intervals while some intervals are similar or very similar between the various labs. This difference, especially in gold values is possibly due to a nugget effect. The distribution of values in core is by no means uniformerly distributed as for example in the case of a porphyry copper core where a uniform split will result in a nearly equal value split. Values in vein zones from this district are more than likely found in randomly distributed vugs or blebs.

The following is a discussion of the values for individual holes as determined by the respective laboratories (see assay certificates):

HOLE-9 SUMMARY

Interval covered:

Arizona Assay Office: 132' to 222'(10 samples)

American Analytical & Research Labs: 122' to 205'(10 samples)

Reed Engineering: 140' to 195'(7 samples)

Results:

Arizona Assay Office- Trace of gold for all intervals. Silver varied from 1.3 to 3.7 opt.

American Analytical- Gold varied from 0.006 to 0.022 opt. Silver ranged from 1.22 to 3.94 opt.

Reed Engineering- Gold values-none. Silver values 0.003 to 6.34 opt.

HOLE-10 SUMMARY

Interval covered:

Arizona Assay Office- 155' to 400'(10 samples)

Note; The other labs did not assay anything from DDH-10.

Results:

Arizona Assay Office- Gold values from trace to 0.88 opt. Silver values 0.40 to 10.40 opt.

HOLE-11 SUMMARY

Interval Covered:

Arizona Assay Office- 230' to 395'(10 samples)

American Analytical-222' to 412'(20 samples)

Reed Engineering- 240' to 407'(10 samples)

Results:

Arizona Assay Office- Gold values trace to 1.16 opt. Silver values 2.80 to 25.7 opt.

American analytical- Gold values from 0.006 to 0.036 opt. Silver values 2.22 to 7.12 opt.

Reed Engineering- Gold values: None to .002 opt. Silver values 0.41 to 5.6 opt.

HOLE-12 SUMMARY

Interval covered:

Arizona Assay Office- 300' to 395'(10 samples)

American Analytical- 300' to 400'(10 samples)

Reed Engineering- 348' to 395'(5 samples)

Results:

Arizona Assay Office- Gold values trace to 0.54 opt. Silver values 1.2 to 6.8 opt.

American Analytical- Gold values 0.004 to 0.024 opt. Silver values 2.42 to 7.12 opt.

Reed Engineering- Gold values none to 7.9 opt. Silver values none to 1.37 opt.

HOLE-14 SUMMARY

Interval covered:

Arizona Assay Office- 705' to 795'(10 samples)

American Analytical- 100' to 800'(61 samples)

Reed Engineering- 140' to 775'(23 samples)

(Hole-14 continued)

Arizona Assay Office- Gold values trace to 1.12 opt. Silver values 4.4 to 19.3 opt.

American Analytical- Gold values 0.004 to 6.82 opt. Silver values 0.06 to 27.8 opt.

Reed Engineering- Gold values- None to 44.00 opt. Silver values are none to 3.24 opt.

HOLE-15 SUMMARY

Interval covered:

Arizona Assay Office- 90' to 342'(10 samples)

American Analytical- 90" to 157"(9 samples)

Reed Engineering- 90" to 118"(4 samples)

Results:

Arizona Assay Office- Gold values- Trace to 0.02 opt. Silver values 0.40 to 3.80 opt.

American Analytical- Gold values trace to 0.016 opt. Silver values 0.08 to 3.24 opt.

Reed Engineering- Gold values-none. Silver values- None to 3.76 opt.

HOLE-19 SUMMARY

A ten foot interval from this hole from 290" to 300' had gold values of 0.17 opt and silver of 0.30 opt.

Other elements were also detected(see spectrographic analysis of drill hole #19).

Until about a week previous to writing this report, Mr. Newton did not have the preceeding assay information in his possession. It was recently sent to him by a former officer of the Arizona-Michigan Mining Company. Mr. Newton was not on the property during the drilling of the twenty seven drill holes. This data is included for information purposes due to the fact that no other drilling information, such as geologic drill logs or other assays are available for the balance of the twenty seven holes.

The assay results are, in the Authors opinion, evidence that there is potentially significant gold mineralization in the area worthy of further investigative work.

These
samples submitted
by AZ-Mets Min Co.

follow up found
them to be contaminated

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS • CHEMISTS • METALLURGISTS

TUCSON, ARIZONA 85713

Page 3 of 5

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 16, 1969

SAMPLE MARKED	GOLD OZ/TON	SILVER OZ/TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
14 200-205	1.350	10.90	X					
262-267	.280	8.02						
292-299	.580	10.62						
300-305	.006	0.08						
310-315	.078	3.32						
320-325	1.010	3.94						
330-335	.360	5.78						
342-347	.100	3.98						
347-352	.120	3.74						
357-362	.008	0.04						
367-372	.120	6.46						
375-380	.110	1.90						
385-390	1.720	3.12						
392-397	.510	5.80						
402-407	.180	9.48						
412-417	.310	11.38						
422-427	.280	2.56						
432-437	2.280	13.88						
442-447	Trace	0.08						
452-457	.240	6.16						
460-465	.980	13.06						
467-472	.430	4.96						
477-482	.780	9.62						
487-489	.460	8.14						
512-514	.920	11.44						

REGISTERED ASSAYER 6352 PETE S. FLORES Arizona U.S.A.

CHARGES $

Pete S. Flores 68

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS · CHEMISTS · METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON
1a 14 520-522	.970	5.62					
1a 14 526-528	.420	8.54					
1a 14 537-539	1.430	10.18					
547-549	1.160	6.32					
562-564	.770	7.30					
574-576	.220	5.36					
597-612	.760	9.52					
612-622	2.040	19.64					
622-630	.870	16.00					
630-642	1.610	8.32					
642-655	.590	16.12					
655-664	6.820	13.04					
664-675	2.050	27.80					
675-682	.280	5.40					
682-697	.006	0.06					
697-700	1.750	21.54					
705-710	.500	10.64					
715-720	.012	4.06					
730-735	.016	9.68					
738-743	.220	5.46					
747-752	.390	22.42					
755-760	.014	6.26					
766-771	1.180	13.56					
775-780	.018	4.08					
785-790	.010	5.20					

REGISTERED ASSAYER CERTIFICATE NO. 6352 PETE S. FLORES Date Signed 5-15-96 Arizona U.S.A.

CHARGES $

Pete S. Flores 69

ASSAYER-CHEMIST

AMERICAN SMELTING AND REFINING COMPANY

EL PASO SMELTING WORKS

BOUGHT OF: Arizona-Michigan Mining Co.
ADDRESS: PO Box 829 Prescott, Arizona
SHIPPING POINT: Kirkland, Arizona
NAME OF MINE:

EL PASO, TEXAS: 3/15/60
SMELTER LOT: 666
SHIPPERS LOT:
CLASSIFICATION: Pb. Cu. Zn
PURCHASE TERMS: 42 42

RATES, EXCEPT ON CONTRACTS, SUBJECT TO CHANGE WITHOUT NOTICE

Arrival Date	Car Number	Car Initials	Gross Weight	Containers No.	Containers Weight	Wet Weight	% H2O	Dry Weight
3/2	65584	AT				97640	8.3	89634

QUOTATIONS
Coinage Silver
Foreign 9/13 [illegible]
Lead 12.000
Copper 32.350
B/L Date 3/16

Oz. per Ton Gold	Oz. per Ton Silver	Wet Lead %	Copper %	Insol %	SiO2 %	Iron %	Mn %	Lime %	Zinc %	S %	Al2O3 %	As %	Sb %	Bi %	%
.17	67.3	41.6	2.40	0.76	20.8	5.3		.6	2.2	2.1	1.2	.62	100	0	
.205	64.7	42.3	2.81												
.19	62.7	42.2	2.56												
.19	62.7	42.2	2.56												

Values Per Ton	Payment Pay Content	Price	Amount	Freight (Fixed)	Deductions	Charge	Credit
	.19	32.3125	6.14	6.14	Mark. Incl. Labor Adj.	12.00	
Excess .5% Min.	59.565	.34875	53.53	53.53	Excess Vague Over $ 1.01 per Unit Pb + -3.0 %		1.07
Excess 3.0 %	73.26	.0970	71.06	34.43	Lead—Copper Price Escalation		
Excess 2.000 %	31.2	.4150	7.53	1.31	Bullion Freight Tax		
					Insol—Silica		
					Iron—Lime		
					Zinc		
Gross Value			138.26	95.91	As. Sb. Bi.		
Deductions (Net Charge)			10.93	10.93	Wet Charge	10.93	
Net Value			x x x	84.98	-78.01 Wet Ton	Debits	Credits
Value			127.33	@ 44.5170	Dry Tons		5706.55
Freight 48.82	Wet Tons @ 12.19		P.T.		Tax	595.12	
Switching			Reset		6.28	6.28	
Cartage							
Representation $ 18.00	Umpire $ 18.—		Sampling $			30.00	
Withheld Pending Receipt of Silver Affidavit	6.1543						
Royalty							
	Balance Due Shipper					5075.15	
	Correct		Approved			5706.55	5706.55

DETACH HERE

REED ENGINEERING
[illegible] SOUTH INGLEWOOD AVENUE
INGLEWOOD, CALIFORNIA 90301

Assay Certificate

Date: APR 24 1969

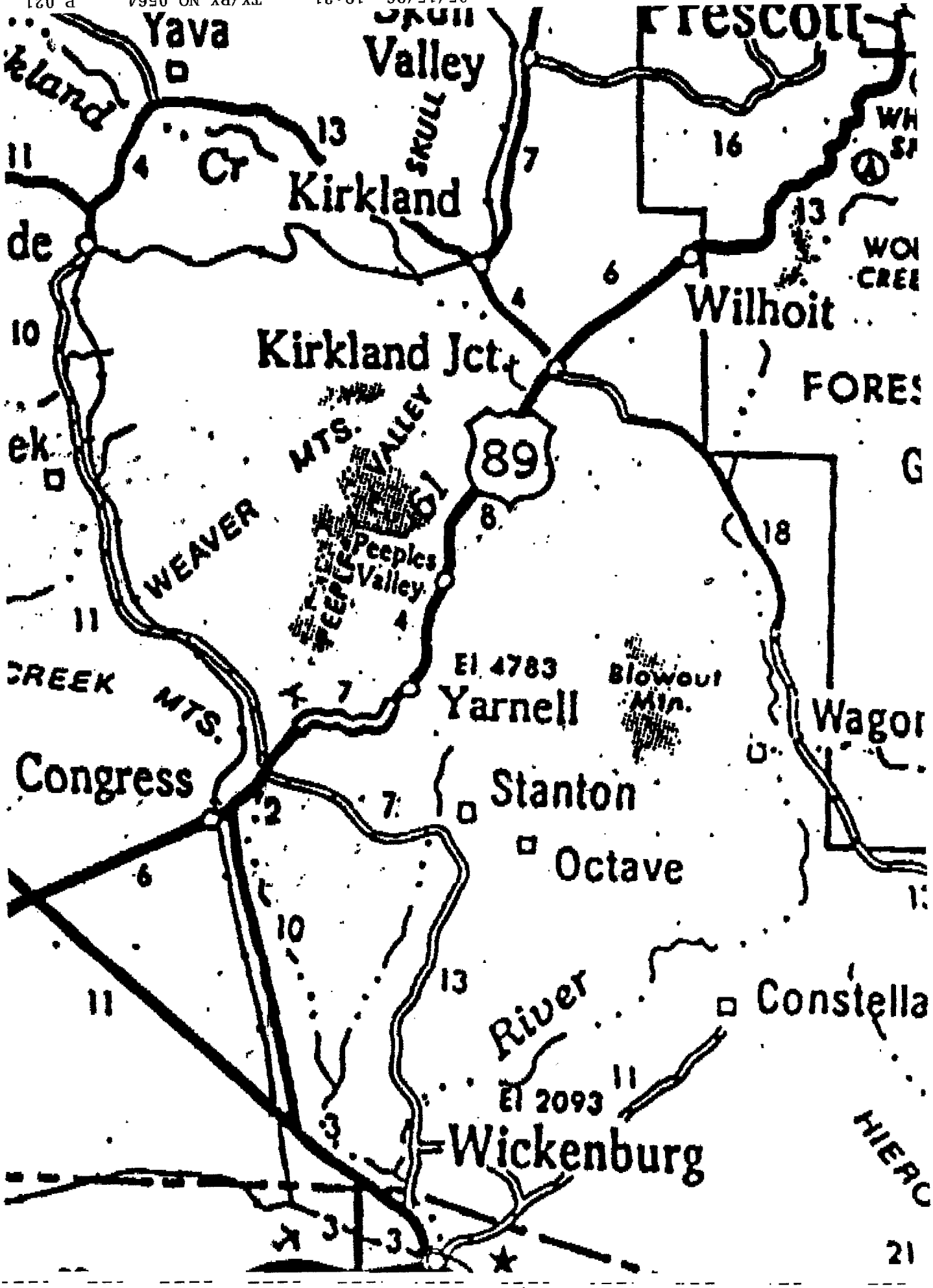
The samples received from K.E. Eakin assayed as follows:

Sample Identification	Gold		Silver	
	oz. per ton	value per ton	oz. per ton	value per ton
14-167	4.3270	$151.44	none	---
14-177	none	---	none	---
14-192	.1403	$5.61	none	---
14-310	.5409	$18.93	.8920	$1.79
14-357	none	---	.1392	$0.27
14-367	.7420	$25.97	.1390	$0.27
14-375	9.0150	$315.52	none	---
14-385	.5406	$18.91	.0109	trace
14-392	.5404	$18.90	.7014	$1.40
14-402	14.5400	$508.90	none	---
14-432	44.0000	$1,540.00	none	---
14-442	.2545	$8.91	none	---

Silver $ 2 per oz. Gold $35.00 per oz.

Assayer R. Reed

Sample Identification	Gold		Silver	
	oz. per ton	value per ton	oz. per ton	value per ton
14-452	20.0300	$701.05	none	---
14-537	31.9100	$1,116.85	none	---
14-547	14.3471	$569.00	none	---
14-562	.7428	$25.99	.0507	$0.10
14-705	3.6450	$127.57	none	---
14-715	.0920	$3.00	.8926	$1.80
14-730	none	---	3.2480	$6.49
14-738	none	---	1.1131	$2.21
14-771	none	---	none	---
15-60	none	---	3.7590	$7.50
15-102	none	---	.7000	$1.40
15-111	none	---	none	---
15-118	none	---	.8909	$1.75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Prescott
Kirkland
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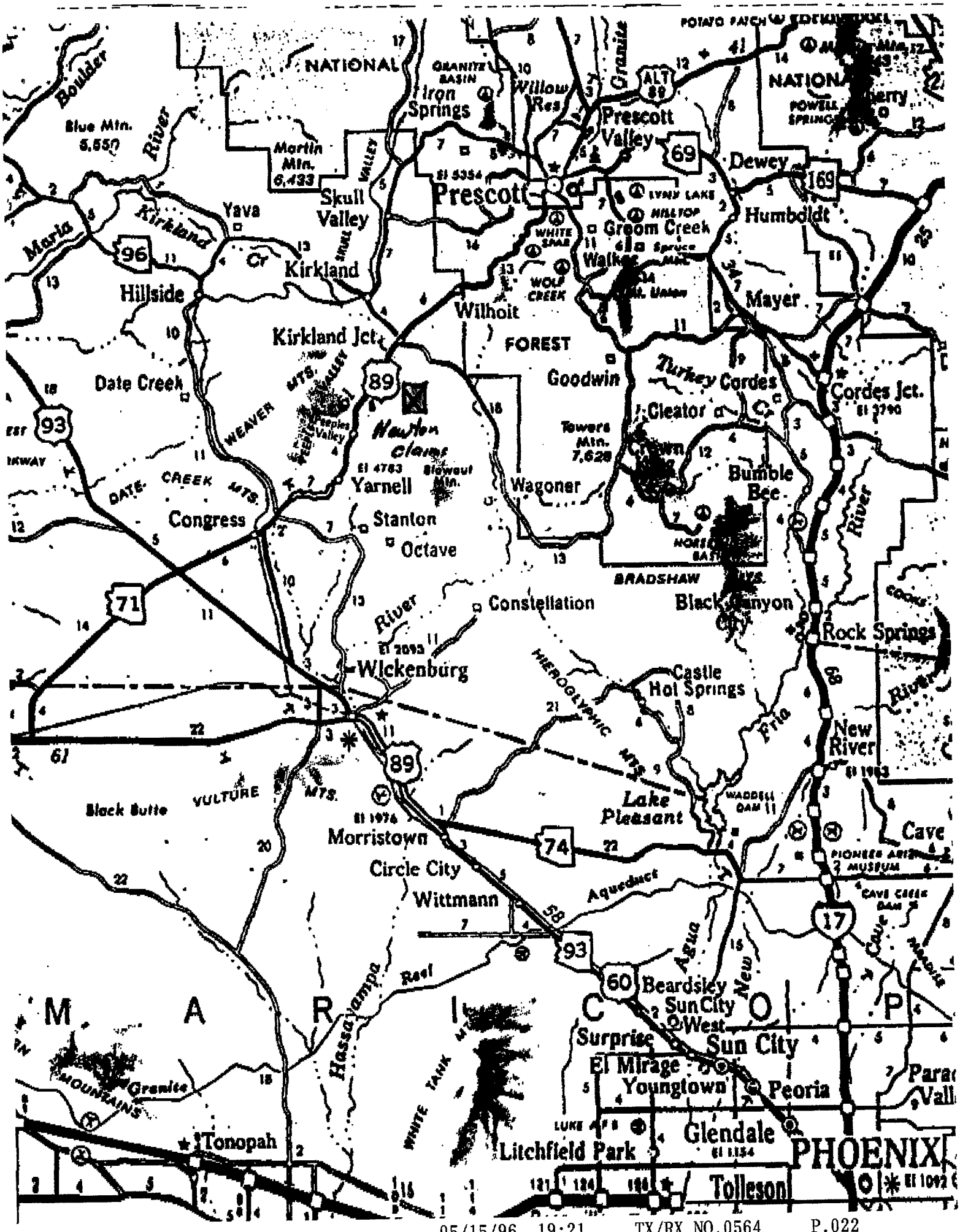
SKULL
Kirkland Jct.
Wilhoit
FORES
WEAVER MTS.
VALLEY
89
Peeples Valley
PEEPLES
CREEK MTS.
El 4783
Yarnell
Blowout Mtn.
Wagon
Congress
Stanton
Octave
Constella
River
El 2093
Wickenburg
HIERO
21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Blue Mtn.
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River
Martin
Mtn.
6,433
Iron
Springs
Willow
Res
Granite
Prescott
Valley
Prescott
Dewey
Humboldt
Skull
Valley
Yava
Kirkland
Maria
Kirkland
Hillside
Groom Creek
Wilhoit
Mayer
Kirkland Jct.
FOREST
Date Creek
Goodwin
Turkey
Cordes
Cordes Jct.
Cleator
Newton
claims
Towers
Mtn.
7,628
Yarnell
Wagoner
Bumble
Bee
Congress
Stanton
Octave
BRADSHAW
Constellation
Black Canyon
City
Rock Springs
Wickenburg
Castle
Hot Springs
New
River
Lake
Pleasant
Black Butte
VULTURE
MTS.
Morristown
Circle City
Wittmann
Aqueduct
Cave
Hassayampa
Beardsley
Sun City
West
Surprise
Sun City
El Mirage
Youngtown
Peoria
Granite
MOUNTAINS
Tonopah
Litchfield Park
Glendale
PHOENIX
Tolleson
M A R I C O P A

AMERICAN SMELTING AND REFINING COMPANY
SOUTHWESTERN EXPLORATION DEPARTMENT
P.O. BOX 5795, TUCSON, ARIZONA 85703

1150 NORTH 7TH AVENUE
TELEPHONE 602-792-3010

March 18, 1969

Mr. L. Rayner
c/o K.E. Eakin
Arizona - Michigan Mining Co.,
Box 46, Star Route
Kirkland, Arizona 86332

Dear Mr. Rayner:

If it would not be inconvenient to you or your organization, we would like to examine the core from your recent drilling operations and to secure additional samples.

Present plans are such that we would start these studies about Thursday, March 20, 1969.

Mr. Sell sends his regards and may join us later.

Sincerely,

R.D. Karvinen

RDK:lzb

cc: JHCourtright
JDSell

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

March 21, 1969

INFORMATION

Twenty-seven split core samples were flown in to Tucson last night by Steve Davis. Pete Flores picked them up and at 7:45 this morning they were being processed.

J.D. Sell

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

March 26, 1969

To: Mr. J. H. Courtright

From: Mr. J. D. Sell

Silver Crown Prospect
Arizona Michigan Mining Company
Yavapai County, Arizona

Summary and Conclusions

Check assaying on diamond drill core which had been selected and split by ASARCO personnel failed to substantiate assays on previous pulps submitted by Arizona Michigan Company.

The low results from the new splits and the low results from surface sampling (also by ASARCO people) indicates that values of interest are lacking in the area and all work has been terminated.

General

The Silver Crown Prospect was brought to us by B. W. Copeland of Prescott, Arizona. During the preliminary examination assay sheets on "core pulps" were given to us which indicated silver values ranging from 2 oz. to 25 oz. (Ave. 7.83 oz.) and gold values ranging from 0.20 oz. to 1.00 oz. (Ave. 0.38 oz.) per ton.

Permission was granted by Arizona Michigan to sample the surface, and later permission was granted to split and sample the available core.

Splits were first taken from the original core pulps and assaying confined substantial values but only one-third to one-fourth of the original values. The surface sampling failed to show any values in excess of 0.005 oz. Au and 0.22 oz. Ag. The assays of the ASARCO split core are also very low with a high of 0.015 oz. Au and 0.36 oz. Ag. The averages for the drill holes are listed below.

Drill Hole	Au, oz/ton	Ag, oz/ton
SC-6	0.005	0.05
SC-7	0.005	0.05
SC-8	0.003	0.06
SC-9	0.002	0.01
SC-11	0.006	0.09
SC-12	0.003	0.09
SC-14	0.005	0.01
SC-15	0.009	0.19

The low results shown above on the ASARCO splitcore suggests that the original assays and pulps supplied to us were contaminated and the high gold-silver values are in error.

The original ASARCO assaying was by American Analytical and Research Laboratories and as a check selected pulps of these were rerun by Hawley and Hawley with similar low results.

Maps, assays, drilling hole wire, etc. supplied by Arizona Michigan and the work done by ASARCO have been compiled and are filed only with the file copy. The black and white photos taken of the area by Cooper Aerial Surveys are also filed in the photo files.

James D. Sell

JDS:kc

Core Split by ASARCO Personnel

Attachment D-1

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 22, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
SC-11 21-30	.013	0.10						
85-96	.008	0.07						
153-163	.008	0.08						
199-208	Trace	0.26						
245-253	.005	0.11						
291-300	Trace	0.11						
319-338	.003	0.10						
356-363	.003	0.16						
375-384	.008	0.01						
384-394	.008	0.02						
422-432	.010	0.02						
SC-14 531-542	.003	0.02						
627-638	.008	0.01						
702-711	.005	0.01						
752-761	.005	0.01						
SC-15 29-39	.008	0.01						
79-87	.003	0.17						
135-140	.010	0.20						
186-195	.008	0.17						
248-263	.010	0.19						
309-321	.008	0.16						
417-429	.010	0.22						
429-437	.010	0.17						
467-477	.010	0.10						
527-537	.008	0.36						

CHARGES $

REGISTERED ASSAYER CERTIFICATE No. 6852 PETE S. FLORES Date Signed Arizona U.S.A.

ASSAYER - CHEMIST

Attachment D-2

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 22, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
SC-15 547-563.5	.015	0.28						

REGISTERED ASSAYER CERTIFICATE NO. 6332 PETE S. FLORES Date Signed 3/31/69 Arizona U. S.

CHARGES $ 97.50

Pete S. Flores

ASSAYER-CHEMIST

Attachment D-3

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 23, 1969

SAMPLE MARKED		GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
SC 6	22- 27	.005	0.05						
	52-57	.003	0.05						
	97-102	.003	0.03						
	147-152	.008	0.03						
	267-271	.003	0.07						
	312-315	.005	0.01						
	347-352	.003	0.09						
	352-357	.008	0.04						
	377-382	.008	0.07						
SC 7	22-27	.010	0.11						
	47-52	.008	0.02						
	102-107	.010	0.05						
	152-157	.003	0.05						
	202-212	.005	0.05						
	257-262	.003	0.08						
	302-307	.005	0.05						
	352-357	.008	0.06						
	402-407	.003	0.05						
	442-447	.003	0.07						
	496-502	.005	0.07						
	552-560	.003	0.03						
	602-607	.005	0.08						
	652-657	.005	0.01						
	707-712	.008	0.01						
SC 8	87-91	.003	0.06						

REGISTERED ASSAYER 6252 PETE S. FLORES

3226 East 46th Street

Attachment D-4

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 23, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
SC 8 157-162	.008	0.02						
192-197	.003	0.04						
197-202	.005	0.04						
252-257	.008	0.04						
294-297	.003	0.08						
367-372	.003	0.06						
394-397	.008	0.02						
403-407	.005	0.03						
462-467	.005	0.02						
497-502	.003	0.14						
547-552	.002	0.17						
597-602	.003	0.09						
647-652	.002	0.07						
697-702	.005	0.07						
752-757	.002	0.05						
802-807	.005	0.05						
852-857	Trace	0.05						
902-906	.003	0.05						
946-954	Trace	0.03						
996-1004	Trace	0.07						
1044-1054	Trace	0.04						
1094-1104	Trace	0.03						
1144-1154	Trace	0.03						
1204-1214	.002	0.07						
SC 9 27-32	.003	0.02						

CHARGES $ _____

3/23/69

Peter S. Flores

ASSAYER - CHEMIST

3226 East 46th Street

Attachment D-5

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 23, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
SC 9 82-87	.003	0.02						
142-152	Trace	0.01						
182-187	Trace	0.01						
222-227	Trace	0.01						
292-297	Trace	0.01						
349-352	.003	0.01						
SC 11 440-459	.003	0.10						
489-500	Trace	0.12						
SC 12 42-46	.003	0.12						
77-80	.002	0.06						
107-112	Trace	0.09						
152-157	Trace	0.09						
197-202	.003	0.15						
262-267	.003	0.07						
302-307	.003	0.06						
392-400	.005	0.07						

CHARGES $ 247.50 66 Au Ag.

REGISTERED ASSAYER CHEMIST LICENSE NO. 6852 STATE OF ARIZONA FLORES

3/23/69

ASSAYER - CHEMIST

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

March 26, 1969

To: Mr. J. H. Courtright

From: Mr. J. D. Sell

Silver Crown Prospect
Arizona Michigan Mining Company
Yavapai County, Arizona

Summary and Conclusions

Check assaying on diamond drill core which had been selected and split by ASARCO personnel failed to substantiate assays on previous pulps submitted by Arizona Michigan Company.

The low results from the new splits and the low results from surface sampling (also by ASARCO people) indicates that values of interest are lacking in the area and all work has been terminated.

General

The Silver Crown Prospect was brought to us by B. W. Copeland of Prescott, Arizona. During the preliminary examination assay sheets on "core pulps" were given to us which indicated silver values ranging from 2 oz. to 25 oz. (Ave. 7.83 oz.) and gold values ranging from 0.20 oz. to 1.00 oz. (Ave. 0.38 oz.) per ton.

Permission was granted by Arizona Michigan to sample the surface, and later permission was granted to split and sample the available core.

Splits were first taken from the original core pulps and assaying confined substantial values but only one-third to one-fourth of the original values. The surface sampling failed to show any values in excess of 0.005 oz. Au and 0.22 oz. Ag. The assays of the ASARCO split core are also very low with a high of 0.015 oz. Au and 0.36 oz. Ag. The averages for the drill holes are listed below.

Drill Hole	Au, oz/ton	Ag, oz/ton
SC-6	0.005	0.05
SC-7	0.005	0.05
SC-8	0.003	0.06
SC-9	0.002	0.01
SC-11	0.006	0.09
SC-12	0.003	0.09
SC-14	0.005	0.01
SC-15	0.009	0.19

The low results shown above on the ASARCO splitcore suggests that the original assays and pulps supplied to us were contaminated and the high gold-silver values are in error.

The original ASARCO assaying was by American Analytical and Research Laboratories and as a check selected pulps of these were rerun by Hawley and Hawley with similar low results.

Maps, assays, drilling hole wire, etc. supplied by Arizona Michigan and the work done by ASARCO have been compiled and are filed only with the file copy. The black and white photos taken of the area by Cooper Aerial Surveys are also filed in the photo files.

James D. Sell

JDS:kc

AMERICAN SMELTING AND REFINING COMPANY
SOUTHWESTERN EXPLORATION DEPARTMENT
P.O. BOX 5795, TUCSON, ARIZONA 85703

1150 NORTH 7TH AVENUE
TELEPHONE 602-792-3010

April 7, 1969

Mr. Langley Rayner
c/o K.E. Eakin
Arizona - Michigan Mining Co.,
Box 46, Star Route
Kirkland, Arizona 86332

Dear Mr. Rayner:

Attached* are copies of the assay results of the sampling we did at the Silver Crown Mine.

Samples SC-J-1 thru 24 are surface cuts in all the trenches and road cuts at the south sector of the property. Number J-11 is near the drill collar of hole # 11 with the line of sampling running essentially west to east on 50 foot cuts.

The results marked "hole 9 122-132" etc., are from splits of pulps of the material Mr. Eakins sent to Arizona Assays.

The results marked "SC 7 22-27" etc., are from the careful splits we made of the core on our last visit. SC indicates Silver Crown, 7 is the drill hole number and 22-27 is the interval sampled.

We have the pulps and rejects of all the above work and seek your advise as to their disposition.

Sincerely yours,

R.D. Karvinen,
Geologist

RDK:lzb

cc: WESaegart
JDSell

* See Silver Crown Pocket

RDK ~~WES~~ JDS SRD

4/16/69

APR 14 1969

311 So. Montezuma St.,
Prescott, Arizona
April 13, 1969

Mr. J. H. Courtright,
A. S. & R.
Tucson, Ariz.

Dear Mr. Courtright:-

Your men showed immediate interest on the Silver Crown mining property and spent considerable time on it over a period of some 3 weeks. By now some time has elapsed since their last visit and they have given me no report. As my clients and at my request and suggestion, they were originally invited to consider the property. Under this circumstance they should give me full report on their findings and their conclusion regarding the property. Will you please instruct them to do this without delay, with copy of assays on samples taken - both drill cores and surface samples?

I would also appreciate intermediate report on progress being made in examination of my Copperland property on the desert.

Very truly yours,

B.W. Copeland

B.W. Copeland

Called Copeland and reported Progress
agreed to send him all data on both properties

JHC
4-16-69

Jim
I sent SC
data to Copeland
4-16-69
R

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona
April 14, 1969

FILE MEMORANDUM

TO: Mr. J.H. Courtright

FROM: Mr. J.D. Sell

Silver Crown Examination
Arizona Michigan Mining Company
Yavapai County, Arizona

Summary and Conclusions

Assay results from diamond drill core which was split and sampled by ASARCO personnel failed to verify interesting to high values of gold and silver, reportedly from the same drill holes, submitted by the Arizona Michigan Mining Company. Assaying of limited surface sampling also returned low values. This information terminated further work on the area in light of no additional known target areas.

The conclusions were expressed in a memorandum dated March 26, 1969, and this FILE MEMORANDUM is for the expressed purpose of gathering the total available information into one package. The information in the file copy includes assays by Arizona Michigan and Asarco, surface locations and sampling, diamond drill hole notes, as well as miscellaneous notes.

James D. Sell

James D. Sell

JDS:ir
cc: WESaegart
RDKarvinen

"The Case of the Tampered Samples"!

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona
April 14, 1969

FILE MEMORANDUM COPY

Silver Crown Examination
Arizona Michigan Mining Company
Yavapai County, Arizona

Arizona Michigan Mining Company, Inc. Personnel:

President: Dr. A.V. Smith, 116 West Sycamore Street, Mason, Michigan 48854

Sec-Trea: Mr. W.O. Hall, Mason State Bank, P.O. Box 270, Mason, Michigan 48854

Exec. 1st V.P. and General Manager: Mr. Langley W. Rayner Box 829, Prescott, Arizona 86301 (Private phone 445-2369

Property Geologist: Mr. Ken E. Eakin, Star Route 46, Kirkland, Arizona 86332. (Note: All mail for Arizona Michigan can be sent in care of this address).

Analytical Results:

Six sheets of assay results on gold, silver, and copper by Arizona Assay Office (Phoenix) were submitted to ASARCO by the Arizona Michigan Mining Company. The certificates are dated 25 February 1969, and 5 March 1969. The assays represent pulps which were prepared by Arizona Michigan Mining Company in their company laboratory on intervals of Drill Holes Number 9,10,11, 12, 14, and 15. The assay certificates are listed in Attachment A, and the arithmetic average for the holes are listed in Table I.

Half of the above pulps plus some new ones were saved by Arizona Michigan Mining Company and these were split by ASARCO personnel. The pulps were submitted to American Analytical and Research Laboratory (Tucson) and assays for gold and silver were returned on a five-page Certificate dated March 18, 1968, and submitted as Attachment B. As with the assays from Arizona Assay listed above, the arithmetic average of the samples run by both Arizona Assay and American Analytical are shown in Table I.

The arithmetic averages shown in Table I show that for holes number 9,11, and 12, the Arizona Assay results are three to five times as high as the American Analytical results whereas holes number 14, and 15 show comparable results.

From the above pulps, ten samples were submitted to Hawley and Hawley (Tucson) for check assaying. The assay results were submitted as Certificate No. TUC 34544, dated 3/26/69 and are shown as Attachment C. Of the ten pulps

submitted only four were run by all three laboratories while the remaining six were run only by both Tucson labs. The comparative assays are listed in Table II. These show that Hawley and Hawley check the American Analytical results quite favorably. Although the Tucson labs are lower than Arizona Assay in many assays it is nevertheless evident that interesting values are represented by the assay results of these pulps.

To further check the potential values indicated above, permission was granted by Arizona Michigan Mining Company for ASARCO to log, split, and sample the core from the various holes. ASARCO personnel completed this phase without any aid from Arizona Michigan personnel. The results are submitted as Attachment D consisting of Certificates (2 pages) dated March 22, 1969, and (3 pages) dated March 23, 1969 from American Analytical. The arithmetic average of the new split assays are shown on Table III. As with all the tables, the arithmetic averages are not completely accurate as the footage interval represented are not always the same increment. The low results suggested that the original pulps submitted by Arizona Michigan were not representative of the core. Table IV is the comparison between essentially equal sampled areas with pulps prepared by Arizona Michigan and ASARCO.

Bulk sampling on outcrop surface areas was also conducted with four lines being run. Only part of one line was assayed by American Analytical and the results are submitted as Attachment E consisting of one Certificate sheet dated March 13, 1969. The results are all very low. Also one sample, SC-J-75, was collected from the surface ore pile from vein material secured from the #4 level of their mine on the north end of the property. The sample is submitted on the one page Certificate dated March 19, 1969 and shown as Attachment F. The results, 0.025 oz. Au/ton and 8.22 oz Ag/Ton, indicates that values do exist in the high-sulfide quartz pods within the Yavapai schist zone.

Five of the surface sample pulps were submitted to Hawley and Hawley for check assay and these were returned in Certificate TUC 342541 dated 3/20/69. The results of these are lower than the assays from American Analytical. The Hawley and Hawley assays are shown on Attachment G and the research spectrograph on the composite sample is submitted as Attachment H. The spectrograph indicates no unusual amounts of the various elements.

Surface Sampling and Diamond Drill Locations

Attachment J are mylar prints of three photos which cover the main location of the surface sampling and also the location of the fourteen diamond drill holes.

The surface samples are bulk cuts from the best available areas such as road and bulldozer cuts. Table V is a listing of the sample numbers and the footage represented. The assays from the ASARCO diamond drill core splits were given in Attachment D with the partial surface sample assays reported in Attachment E.

Diamond Drill Hole Information:

The location of the 14 drill holes (note: Drill hole #13 was not named but the numbers skipped from #12 to #14) were given on Attachment J. In Table VI, and VI-A, the available information is given on drill hole collar elevation, angle inclination of the hole, depth of oxidation, and drift of the hole.

Main Underground Workings:

The underground workings were not inspected except for the entrance adit, Here the bleached schist carried minor quartz stringers which are said to open up into various sized pods carrying gold, silver, lead and copper values. Mine values are reported at $35.00/ton in lead and silver with $2.80 in gold. Our grab sample SC-J-75 of the crushed ore pile from the #4 level returned 0.025 oz/ton gold and 8.22 oz/ton silver, with no assay asked for on the lead content, for an approximate value of $17.50/ton.

Sketch map Figure 1 is a general section through the Silver Crown workings where at present some five men are employed putting the workings into operational condition.

Miscellaneous:

Several reports were submitted to ASARCO by the Arizona Michigan Mining Company. One is the "Report on Core Well No. 8", submitted as Attachment K which includes various notes on the property and ore occurrence. Attachment L is a summary of the Annual Meeting held on May 15, 1968, by the Arizona Michigan Mining Company, Inc. The claim map submitted by the company is included as Attachment M.

Photographs and Pulp Storage:

The photo coverage by Cooper Aerial Survey Company of Tucson has been indexed and filed in the ASARCO library.

The pulps from the various samples have been boxed and stored in the basement along with similar pulps from other projects. Selected core segments were removed from the various drill holes, during examination and sampling, and these are also stored with the pulp samples. The surface bulk samples which were not assayed (SC-J-25 thru -74) have been discarded along with the pulp rejects from SC-J-1 thru -24 and SC-J-75.

Listing of Attachments, Tables, and Figure:

ATTACHMENTS

A. Resume of Arizona Assay Certificates on Pulps submitted by Arizona Michigan Mining Company.
B. American Analytical and Research Laboratories Assay Certificates on Pulps submitted by Arizona Michigan Mining Company.
C. Hawley and Hawley check Assay Certificate on Pulps submitted by Arizona Michigan Mining Company.
D. American Analytical Assay Certificates on Pulps split and prepared by ASARCO Personnel.
E. American Analytical Assay Certificate on Surface Samples cut by ASARCO Personnel.
F. American Analytical Assay Certificate on "Ore Bin" Sample from main Underground Workings- No. 4 level.
G. Hawley and Hawley Assay Certificate on Surface Sample check assays.
H. Hawley and Hawley Spectrograph Assay Certificate on composite Surface Sample.
J. Mylar Sheets (3) on sampled and drilled zone.
K. Report on Core Well No. 8, Silver Crown Mine, by K.E. Eakin.
L. Summary of Annual Meeting Report held by Arizona Michigan Mining Company on May 15, 1968.
M. Claim map submitted by Arizona Michigan.

TABLES

I. Comparative assay results of duplicate samples submitted by Arizona Assay and American Analytical on pulps prepared by Arizona Michigan Mining Company.
II. Comparative Assays on diamond drill hole core pulps prepared by Arizona Michigan Mining Company.
III. Assay results from core split and sampled by ASARCO personnel.
IV. Comparison of assay results from pulps submitted by Arizona Michigan and NEW pulps from some areas prepared by ASARCO.
V. Surface Sample Lines and Numbers (SC-J-Series).
VI and VI-A. Diamond Drill Hole Information.

FIGURE

1. Sketch through Main Silver Crown Workings.

Table I - Comparative assay results, arithmetic average, of duplicate samples submitted to Arizona Assay and American Analytical on pulps prepared by Arizona Michigan Mining Company (results in oz per ton).

Hole No.	No of Samples	Arizona Assay		American Analytical	
		Au	Ag	Au	Ag
9	9	Tr.	11.55	0.010	2.66
10	None	-	-	-	-
11	5	Tr.	14.40	0.010	4.23
12	10	0.01	12.65	0.011	4.31
14	18	0.35	8.98	0.483	8.27
15	2	0.012	2.80	0.009	1.45

Table II- Comparative Assays on diamond drill hole core pulps prepared by Arizona Michigan Mining Company (results in oz. per ton).

Hole and Footage	Arizona Assay		American Analytical		Hawley & Hawley	
	Au	Ag	Au	Ag	Au	Ag
#9: 185-195	Tr.	12.90	0.020	3.02	0.005	3.19
#11: 330-335	-	-	0.010	4.36	0.009	5.55
#12: 348-353	Tr.	15.00	0.024	2.42	0.005	2.62
#14: 100-105	-	-	0.092	1.08	0.062	0.72
#14: 107-112	-	-	0.030	3.06	0.036	3.20
#14: 200-205	-	-	1.350	10.90	0.358	10.16
#14: 385-390	-	-	1.720	3.12	0.099	2.78
#14: 422-427	-	-	0.280	2.56	0.126	1.47
#14: 547-549	0.46	7.30	1.160	6.32	0.305	5.32
#14: 655-664	-	-	6.820	13.04	1.730	10.57
#14: 766-771	0.58	14.90	1.180	13.56	0.407	13.98
#15: 133-137	-	-	0.016	2.84	0.008	3.43

Table III- Assay results from core split and sampled by ASARCO personnel. (results in oz. per ton)

Hole No.	No. of Samples	American Analytical Au	Ag
SC-6	9	0.005	0.05
SC-7	15	0.005	0.05
SC-8	25	0.003	0.06
SC-9	7	0.002	0.01
SC-10	None	-	-
SC-11	13	0.006	0.09
SC-12	8	0,003	0.09
SC-14	4	0.005	0.01
SC-15	11	0.009	0.19

Table IV- Comparison of assay results from pulps submitted by Arizona Michigan and NEW pulps from some areas prepared by ASARCO. (oz per ton).

Arizona Michigan Hole:Footage	Au	Ag	ASARCO Hole:Footage	Au	Ag
9:140	Tr.	12.50	9:142-152	Tr.	0.01
9:150	Tr.	13.20			
9:185	Tr.	12.90	9:182-187	Tr.	0.01
11:245	1.16	25.70	11:245-253	0.005	0.11
11:254	0.43	15.50			
11:292	0.52	9.00	11:291-300	Tr.	0.11
11:322	Tr.	12.80	11:319-338	0.003	0.10
11:357	0.01	11.20	11:356-363	0.003	0.16
11:387	Tr.	5.80	11:384-394	0.008	0.02
11:395	Tr.	13.80			
12:300	Tr.	13.90	12:302-307	0.003	0.06
12:395	0.01	14.40	12:392-400	0.005	0.07
14:537	0.34	8.40	14:531-542	0.003	0.02
14:705	1.12	13.10	14:702-711	0.005	0.01
14:755	0.10	7.90	14:752-761	0.005	0.01
15:252	Tr.	12.60	15:248-263	0.010	0.19
15:312	Nil	10.40	15:309-321	0.008	0.16
15:318	Tr.	13.20			

Table V- Surface Sample Lines and Numbers- (SC-J-Series)

Line	Sample Number	Cut in Footage	"alteration" Description	Remarks
I	1	50	wk	Starting on NW and Trending SE.
	2	42	wk-md.	
	3	50	wk	
	4	50	wk-md.	
	5	50	wk-md.	
	6	50	wk	
	7	50	md.	
	8	36	md.	
	11	25	wk-md.	Sample ends at DDH #11.
	-	80	Cover	
	3A	-	wk-md.	Offset sample, part of #12 zone extension.
	12	80	wk-md.	
	13	10	wk	
	14	50	wk	
	15	50	wk	
	4A	-	wk	Offset sample, part of #16 zone extension.
	16	30	wk	
	17	50	wk	
	18	25	wk	
	19	25	md-st.	
	20	25	st.	
	21	25	md-st.	
	22	15	st.	
	-	15	Cover	
	23a	10	md-st.	Sample ends at DDH #9
	23b	5	md-st.	
	-	90	Cover	
	24	35	md	
	25	15	wk	Offset from #24 but starts some place along schistosity.
	26	38	st.	
	27	26	wk	
	-	25	Cover	
	28	30	md.	
	-	20	Cover	
	29	35	md.	
	30	50	st.	Sample ends at proj of DDH #10
	-	50	Cover	
	31	37	wk-md.	
	32	25	wk-md	Sample at DDH #10 location.
II	33	50	wk-md	From NW to SE
	34	50	wk-md.	
	35	50	wk-md.	
	36	50	wk-md.	

Table V Continued

Line	Sample Number	Cut in Footage	"Alteration" Description	Remarks
III	37	50	wk-md.	From NW to SE.
	38	50	wk-md.	
	39	45	wk.	
	-	45	Cover	
	40	21	wk-md.	
	-	6	Cover	End of cover is DDH #14.
	-	20	Cover	
	41	50	md.	
	42	60	md.	
	43	27	md.	
IV	44	50	wk	From NW to SE.
	45	50	wk-md.	
	46	50	wk-md.	
	47	50	wk.	
	48	50	wk-md.	
	49	50	wk-md.	
	50	50	wk.	
	51	50	wk.	
	52	50	wk-md.	
	53	50	wk-md.	
	54	50	wk-md.	
	55	50	wk-md.	
	56	50	md.	
	57	50	md.	
	58	50	wk-md.	
	59	-	st.	$2\frac{1}{2}$' cut in tunnel opposite #58.
	-	80	Cover	
	60	50	wk-md.	
	61	50	md.	
	62	50	wk-md.	
	-	120	Cover	
	63	-	wk-md.	Damp grab near end of #62
	64	50	wk-md	
	65	50	wk-md.	
	66	50	wk-md.	
	67	50	wk.	
	68	30	wk.	
	-	80	Cover	
	69	50	wk-md.	
	70	50	wk-md.	
	71	50	wk-md.	
	72	50	wk-md.	
	73	50	wk-md.	
	74	30	wk-md.	
V	75	-	-	Grab from crushed ore pile from No. 4 lead.

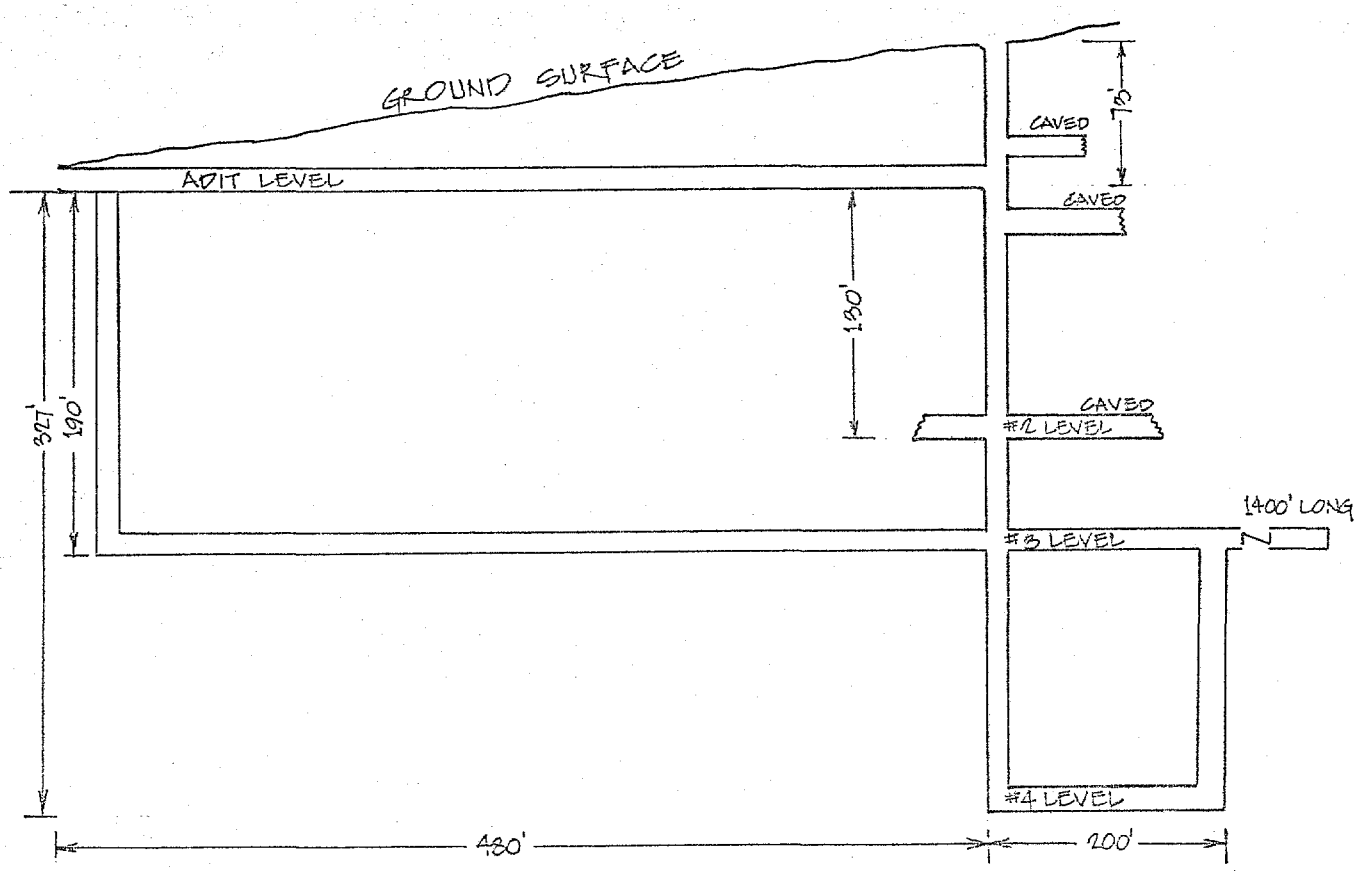
Table VI- Diamond Drill Hole Information*

Drill Hole Number	Surface Elevation**	Total Depth	Inclination & Direction	Bottom Hole Drift	Depth of strong Oxidation
1	4394				
2	4464				
3	4423				
4	4421				
5	4600				
6	4596	382			
7	4647	712			
8	4604	1254	88°@		
9	4337C.	400	86°@N38°W	48 feet	200 feet.
10	4488	400	86°@N46°W	87 feet	
11	4417	500	86°@		386 feet.
12	4324	402	90°@		284? feet.
14	4232C.	800	86°@		331 feet.
15	4157C.	567	75°@		467 feet.

* individual inclinations down holes #8,9,10,11,12,14, and 15 are given separately in Table VI-A.

** Corrected barometric elevations designated as "C", others are uncorrected.

FIGURE 1 SKETCH THROUGH MAIN SILVER CROWN WORKINGS



LOOKING SOUTHEAST
STRUCTURE DIPS TO NW@30°
1" = 100'

Resume of Arizona Assay Office Certificates on Pulps
submitted by Arizona Michigan Mining Company
(Copper values only on original certificates).

Dated 25 Feb. 1969

Hole-footage	oz Ag	oz Au
10-155	2.90	0.03
10-200	5.50	0.05
10-280	8.30	0.22
10-250	10.40	0.58
10-300	0.40	Tr.
10-325	7.20	0.32
10-340	5.10	0.38
10-360	12.00	0.72
10-375	9.90	0.66
10-400	9.60	0.94
11-200	9.80	0.46
11-212	16.90	0.34
11-235	21.20	0.88
11-254	15.50	0.43
11-245	25.70	1.16
11-262	6.70	0.44
11-272	25.70	0.97
11-282	12.60	1.02
11-292	9.00	0.52
12-200	0.40	Tr.
12-210	6.10	0.28
12-220	3.60	0.24
12-230	8.30	0.26
12-242	7.60	0.42
12-247	2.40	0.03

Hole-footage	oz Ag	oz Au
11-225	15.80	0.88
12-257	1.20	Tr.
12-267	6.90	0.38
12-275	4.80	0.01
12-290	5.00	0.34
14-487	11.80	0.54
14-497	13.00	1.06
14-512	5.70	0.46
14-520	6.70	0.40
14-526	10.70	0.38
14-537	8.40	0.34
14-547	7.30	0.46
14-562	7.10	0.84
14-584	12.50	0.42
14-574	6.70	0.28
15-100	2.10	0.28
15-107	3.30	0.26
15-117	6.40	0.22
15-130	2.80	0.14
15-140	4.40	0.01
15-150	2.90	0.02
15-160	0.80	Tr.
15-167	1.10	0.02
15-177	0.30	Tr.
15-192	0.90	0.01

Dated 5 March 1969

Hole-Footage	oz Ag	oz Au
9-132	13.50	Tr.
9-140	12.50	Tr.
9-150	13.20	Tr.
9-159	1.30	Tr.
9-167	12.80	Tr.
9-177	12.80	Tr.
9-185	12.90	Tr.
9-195	11.50	Tr.
9-199	13.50	Tr.
9-222	3.70	Tr.
11-230	14.10	Tr.
11-240	17.20	Tr.
11-267	13.50	Tr.
11-277	14.20	Tr.
11-305	13.00	Tr.
11-322	12.80	Tr.
11-347	12.70	Tr.
11-357	17.20	0.01
11-387	5.80	Tr.
11-395	13.80	Tr.
12-300	13.90	Tr.
12-310	15.70	Tr.
12-320	6.00	Tr.
12-330	14.10	0.01
12-337	15.10	Tr.

Hole-Footage	oz Ag	oz Au
12-348	15.00	Tr.
12-357	14.70	Tr.
12-376	3.20	Tr.
12-385	14.40	0.08
12-395	14.40	0.01
14-705	13.10	1.12
14-715	3.60	Tr.
14-730	7.80	Tr.
14-738	14.80	Tr.
14-747	19.30	0.26
14-755	7.90	0.10
14-768	14.90	0.58
14-775	4.50	Tr.
14-785	7.70	Tr.
14-795	4.40	0.01
15-90	3.20	0.02
15-126	2.40	Tr.
15-210	13.80	Tr.
15-230	12.70	Tr.
15-252	12.60	Tr.
15-302	12.60	Tr.
15-312	10.40	Nil.
15-318	13.20	Tr.
15-332	12.70	Tr.
15-342	13.40	Tr.

AMERICAN SMELTING AND REFINING COMPANY
EXPLORATION DEPARTMENT
SOUTHWESTERN UNITED STATES DIVISION
P. O. BOX 5795, TUCSON, ARIZONA 85703

1150 NORTH 7TH AVENUE
TELEPHONE 602-792-3010

April 16, 1969

Mr. B. W. Copeland
311 South Montezuma Street
Prescott, Arizona

Silver Crown, Yavapai County

Dear Mr. Copeland:

This is to acknowledge your request of April 13 regarding our work at the Silver Crown Mine and at the Copperland Prospect.

Please find attached our report on the Silver Crown along with copies of the assay results of the sampling we did thereon. Note that SC, indicates Silver Crown, the next number indicating drill hole number and the last denoting sample interval. Surface samples have a "J" symbol. Other listings are self-explanatory.

Our report on the Copperland is incomplete as of this date. As soon as our studies are concluded, you will receive all the data you requested.

Sincerely,

R. D. Karvinen

RDK:kc
Enclosure
cc: JHCourtright
WESaegart
JDSell

J H C file

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

Registered Assayers

1700 WEST GRANT ROAD - TELEPHONE 622-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

K.V.D.S. APR 4 1969

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Zinc %	Mo %	
ELEMENTS:	Composite: SC-J 7, 8, 9				ELEMENTS:		Composite: SC-J
Silver *	< 0.0005%				Nickel *	<	0.01
Aluminum	4.3				Phosphorus	<	0.1
Arsenic *	< 0.01				Lead	<	0.01
Boron	0.004				Rubidium *	<	0.1
Barium	0.40				Antimony *	<	0.01
Beryllium *	< 0.0001				Silicon		37.00
Bismuth *	< 0.001				Tin *	<	0.001
Calcium	0.45				Strontium	<	0.01
Cadmium *	< 0.01				Tantalum *	<	0.1
Cerium *	< 0.01				Tellurium *	<	0.01
Cobalt *	< 0.0001				Thorium *	<	0.1
Chromium	0.06				Titanium		0.056
Cesium *	< 0.1				Thallium *	<	0.1
Copper	0.008				Uranium *	<	0.1
Iron	2.3				Vanadium		0.03
Gallium *	< 0.01				Tungsten *	<	0.1
Germanium *	< 0.001				Zinc *	<	0.01
Indium *	< 0.001				Zirconium		0.065
Potassium	Trace				Gold *	<	0.005
Lithium *	< 0.01				Rare Earths		Nil
Magnesium	0.85						
Manganese	0.65				* Not detected		
Sodium	0.65						
Niobium *	< 0.03						
Molybdenum *	< 0.001						

Gen Expl (Silver Crown)

J. H. Courtright

3 samples composited @ $.20 — $0.60
1 research spectrograph @ $20.00 — 20.00

CC: American Smelting & Refining Company
ADD: P. O. Box 5795
CITY: Tucson, Arizona 85703
ADD: Attn: J. H. Courtright
CITY:

REMARKS:

Research spectrograph

Analysis Cert. By

Spectrograph	20.00
Compositing	.60
Preparation $	
Analysis $	

ACC	Date Spl. Received	Date Compl.		$
AMERICAN SMELTING & REFINING COMPANY	3/19/69	4/2/69	TUC 342541-A	20.60

J. H. C

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

Registered Assayers

1700 WEST GRANT ROAD - TELEPHONE 622-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

J. H. C

MAR 27 1969

K. V.

MAR 27 1969

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Zinc %	Mo. %		
SC Series								
9 185-195	< 0.005	3.19						
11 330-335	0.009	5.55						
12 348-353	< 0.005	2.62						
14 100-105	0.062	0.72						
14 107-112	0.036	3.20						
14 200-205	0.358	10.16						
14 385-390	0.099	2.78						
14 422-427	0.126	1.47						
14 547-549	0.305	5.32						
14 655-664	1.730	10.57						
14 766-771	0.407	13.98						
15 133-137	0.008	3.43						
			12 single Au - Ag @ $4.00					$48.00

J. H. Courtright

APPROVED FOR PAYMENT

By: J. H. Courtright
(Signature)

CC: American Smelting & Refining Company
ADD: Attn: Mr. J. H. Courtright
CITY: P. O. Box 5795
ADD: Tucson, Arizona 95703
CITY:

REMARKS:

Singles

Analysis Cert. By H. E. Richard

Preparation $
Analysis $ 48.00

ACC: AMERICAN SMELTING & REFINING CO	Date Spl Received 3/19/69	Date Compl. 3/36/69	TUC 342544	$ 48.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ARIZONA
(YAVAPAI COUNTY)
CONGRESS QUADRANGLE

E.M. Douglas, Geographer in charge.
Topography by R.H. Sargent and H.H. Hodgeson.
Triangulation by H.L. Baldwin, Jr.
Surveyed in 1902-1903.

TRUE NORTH
MAGNETIC NORTH
13½°
APPROXIMATE MEAN DECLINATION 1903

SCALE 1:125 000

1 ½ 0 1 2 3 4 5 6 7 8 9 MILES

5000 0 5000 10000 15000 20000 25000 30000 35000 FEET

1 0 1 2 3 4 5 6 7 8 9 KILOMETERS

CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1962
MR 1221

Polyconic projection. To place on 1927 North American datum move projection lines 460 feet south and 350 feet west

DIAGRAM OF TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

CONGRESS, ARIZ.
N3400—W11230/30
1903

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

KIRKLAND QUADRANGLE
ARIZONA-YAVAPAI CO.
15 MINUTE SERIES (TOPOGRAPHIC)

THIS AREA IS SHOWN ON THE MAP OF CONGRESS QUADRANGLE, SURVEYED IN 1902-1903, SCALE 1:125,000

Mapped by the U.S. Forest Service
Edited and published by the Geological Survey

Control by U.S. Forest Service, USGS and USC&GS

Topography from aerial photographs by KEK plotter
Aerial photographs taken 1946. Field check, 1947

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone

No distinction is made between dwellings, barns, commercial, and industrial buildings

Dashed land lines indicate approximate location

1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

15°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1947

SCALE 1:62500

1 ½ 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1959
MR 0125

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Unimproved dirt
U. S. Route

KIRKLAND, ARIZ.
N3415—W11230/15
1947

ARIZ.-RICH.
MINING CO. INC.

Well NO.8

Feet	Angle of Drill
I5	88
I00	86
200	84
300	82
400	78
500	74
600	70
700	68
800	63
900	6I
I000	58
II00	54
I200	52
I254	50

Well NO.9

	Assay AG.	AU.	CU.
0			
50			
I00			
I50	13.20	TR.	0.015
200	13.50	TR.	0.015
250			
300			
350			
400			

Well NO.I0

	Assay AG	AU	CU
0			
I00			
I50	2.90	.05	0.050
200	5.50	.05	0.I60
250	I0.40	.58	0.075
300	I0.40	TR.	0.0I5
350	I2.00	.72	0.I40
400	9.60	.94	0.095

Well NO.II

	Assay AG.	AU.	CU.
0			
50			
I02			
I65			
227	I6.90	.34	2.00
260	6.70	.44	0.30
3I5	I2.80	TR.	0.020
364	I7.20	.0I	0.0I5
385	I5.80	TR.	0.0I0
4I0			
475			
500			

Well NO.I2

Feet	Angle of Drill	Assay AG.	AU.	CU.
0	90			
I00	90			
200	90			
332	90	I4.I0	.0I	0.080
347	89	[illegible]	TR.	0.I00
360	88	I5.I0	.05	0.095
372	87			
394	86			
402	85			

Well NO.I3

	Assay AG.	AU.	CU.
0	86		
55	85		
I05	84		
I52	8I		
200	80		
252	78		
30I	76		
355	75		
403	73		

Well NO.I5

	Assay AG.	AU.	CU.
0	75		
52	74		
I02	72		
I52	70	2.I0	.28	0.I3
200	69	2.90	.02	0.04
252	67	0.90	.0I	0.05
300	64			
353	6I			
404	58			
490	55			
525	54			
552	52			
567	5I			

REPORT ON CORE
WELL, No.8
SILVER CROWN MINE,

AT THE TIME I STARTED MY REPORTS ON WELL NO. 8. THE DRILLING HAD BEEN STARTED AND WAS DRILLED TO A DEPTH OF 327,Feet. AT THIS POINT I BEGAIN TAKING CORE SAMPLES: ON THESE I BEGAIN A CERES OF TEST'S TO DETERMEN THE TYPE OF ORE AND IT'S COMMPONANTS, AT THE SAME TIME GOING OVER THE INTIRE AREA OF THE SILVER CROWN MINING PROPERTY, TAKING SAMPLES AT RANDUM: ON THESE I ALLSO RAN A CERES OF TEST'S: DURING THIS TIME I ALLSO EXPLORED UNDER GROUND IN-SIDE THE MINE : EACH TUNNEL DOWN BOTHE SHAFTS, TAKING SAMPLES AT RANDUM FOR THE PURPOES OF TESTING:

BY GEOLOGICAL STUDY THE GEOCHEMICAL ANALYSIS AND THE QUALITATIVE CHEMICAL TESTS PERFOMMED IN THE LABORATORY BY ME, I WAS ABLE TO DE-TERMIAN THE TYPE OF STRUCTURE AND THE MINERAL CONTENT OF THIS IMMEDIATE ORE BODY:

THE ORE OCCURS IN A BELT OF PRE-CAMBRIAN SERICITE-SCHIST THAT HAS BEEN INTRUDED BY A MONZONITE PORPHYRY ;
Being broken up in the Mesozic age and pushed up by the Magma during the disturbance of the earth in the latter Tertiary Geologic period Thus placing in this area nugerous mineral viens of copper lead silver and gold and there componants to make up this complex mineral zone that we are now working with, By working with and the many tests performed by me in the laboratory of ore samples taken at randum of the intire area of the Silver Crown Mining propert, i have found a very wide range of values on the surface. Exploring below the surface i find the mineral increasing in value as well as increasing in quanity, the mineral viens tend to widen and increase in value with depth,

there for i beleve a massive ore body does exist below the Silver Crown property, I have had the privilidge to explore and test many ore deposits throughout the state of Arizona, Allso i have studied the mineral history of Arizona dateing back in to the early eighteen hundreds particularly the Bradshaw and the weaver mountain areas. through this extinsive study i do know that

Silver in Arizona is found in 5 principal types of deposits;

No.I. A Sericite- Schist; A Metamorphic crystalline rock having a very fine silky texture being a closely foliated structure and admitting of division along approximately parallel planes.

No.2. A Monzonite-porphyry; A granular igneous rock of porphyritic texture, composed of plagioclase and orthoclase in about equal quantities together with Augite and a little Biotite.

No.3. Those containing Galena with Barite gangues;

No.4. Those with Galena in carbonate-quartz gangues;

No.5. Those with Silver and Gold in quartz gangues;

The principal Silver minerals include Argentite(Ag_2S). Cerargyrite($AgCl$), Bromyrite($AgBr$), Embolite($Ag,BrCl$), and native Silver(all supergene) and Prousite($2Ag_2S.As_2S_3$). Stephanite($5Ag_2S.Sb_2S_3$). Pyrargyrite($3Ag_2S.Sb_2S_3$). and Hessite containing Tellurium.

In the weaver and the Bradshaw mountains Silver has been mined near the crest in a flat crescent shaped belt from Groom Creek to Castle Creek at the southern tip of the range.

It includes parts of the Groom Creek, Big Bug Creek, Crown King, Tiger, Hassayampa river, Turkey Creek, Peck, Silver mountain, Walker, Humbug, Tip Top and Tuscumbia districts.

Silver-Gold veins are common in the west portion of the Bradshaws and eastwsouth portion of the Weaver mountains.

These usually are typical fissure veins with well defined walls.

Barite is a common gangue, sphalerite, chalcopyrite, some pyrite and tetrahedrite (argentiferous) in the primary zone.

Many types of veins parallel dikes that cut the pre-cambrian rocks. Much of the ore has come from lenses or pockets, these being pushed up by the Magma and then deposited, During the latter part of the Tertiary Geologic period, Being in the Mesozic age.

The present water table ranges from 90 feet to about 550 feet below the surface and the quantity of water is small.

Making the mining in this area worthwhile.

It is estimated that in the oxidized zones of many Silver veins the ore ranged from about $50.00 to $500.00 per. ton. This usually contrasted with primary ore that perhaps $10.00 to $20.00 per ton. Since most of the veins have been exploited only to the water table, the chance of a new high-grade discovery is highly possible, The possibility of hidden deposits still remains.

The values that have been found thus so-far in this area are principally due to strong enrichment, controlled by fluctuation of the water table in late Tertiary Geologic period.

Below the enrichment, the protore where tested is very high-grade.

This vein system converges on the southwest end of the Silver Crown property, against a major fault; Thus extending in a northeasterly direction for approximately seven, thousand feet, the width of this structure being approximately two thousand five hundred feet,

No systematic drilling has been done in this area until very recently and now that it has been done, It may cause much speculation as to what ore bodies do exist below the water table.

The only way to find concrete evidence of a large ore mass being below the water table is to explore in a syntific manner;

The only core; well that was drilled in a proper manner on the Silver Crown property, is well No.8, Had wells No.I. through No.7. been drilled in the manner No.8 well was drilled, there would be no speculation as to the size, or extent of the ore body that does exist at the depth well No. 8, has exposed,

I beleive all future exploration of the Silver Crown should be done with electronics; useing a method and apparatus for conducting geophysical explorations with the capability of reaching at least 2,000 feet depth.

I base this upon the results of the labortory tests and the mineral samples in the three boxis that i have here with me today.

Signed; [illegible]

ARIZONA MICHIGAN MINING CO., INC.

May 31, 1968

The following is a brief summary of the Annual Meeting held on May 15, 1968. The Directors meeting that followed and the most recent report made by our geologist, Kenneth E. Eakin.

Directors express their appreciation to those stockholders who attended the meeting in person. We also thank all stockholders who mailed in their proxies in time to be represented at the stockholders meeting. All Directors were re-elected, now fourteen in number. The vacancy, created by the untimely passing of Ross R. Root, was never filled. We acknowledge his contributions in our behalf and regret he is not here to share in our great victory. Directors re-elected former officers for the ensuing year.

The following report is recorded as given to the stockholders by our new geologist, Kenneth E. Eakin. A brief introduction follows: Ken is a native son of Arizona, was born and grew up in the area quite near our own property. He graduated from Arizona School of Mines as a mining major. Mr. Eakin has traveled extensively throughout the world and has an enviable reputation as a recognized geologist. Employment has been by Kennecott Copper, Phelps-Dodge, and other major companies. Ken is now working full time with us and has purchased a home within walking distance of our property.

He writes as follows:

Dear Mr. Smith:

During the month of March 1968 I conferred with L. W. Rayner on the possibilities of the ore bodies and minerals of the property known as the Silver Crown Mining Company, Yavapai County, State of Arizona. Mr. Rayner asked me to go over the property in a geological manner, and informed me at the time they were core drilling. I went over these core drill reports with Mr. Rayner, and immediately I noticed from the reports there was no systematic manner of drilling being done. Therefore, Mr. Rayner asked me to please advise as to how this system should be done, and by a geological theory I explained how the drilling should be.

I therefore asked permission of Mr. Rayner to take over this well drilling operation for the purpose of drilling to a deeper depth than had been drilled in the other seven wells.

I immediately started taking samples of the other cores that came from Wells 1 through 7. I set up my laboratory for the purpose of chemical analysis on the cores, and the samples I took at random of the entire property.

With Rig on Well No. 8 - At the depth of 660 feet - Silver ran 8.09%, Gold trace; Lead 2.07%; Antimony 1.03%. At a depth of 848 feet Silver ran 11.05%; Gold 0.03%; Lead 2.07%; Antimony 2.05%

At the depth of 1119 feet Silver ran 14%; Gold 0.03%, Sulphur 0.07%; Iron 0.02%;Antimony 4.05%.

At 1293 feet I encountered Argentite. The Argentite assayed at about 20%, and the Gold ran 14.13 ounces per ton.

I then packaged a slurry (drilling residue) sample, and mailed this sample to the Arizona Assayers of Phoenix, Arizona. The report I received from this assay office read as follows: Silver 69.52 ounces per ton; Gold 14.13 ounces per ton; Copper a minor trace. Also I mailed samples from inside the mine from Level No. 2 for which Silver ran 63.70 ounces per ton, and Gold 0.12 ounces per ton. From Drift No. 4 inside the mine the Silver ran 38.40 ounces per ton, and Gold .04 ounces per ton. Total values ran a little over $700.00 per ton on the over-all assay.

I then proceeded to take a measurement of the out-cropping structure of the entire area of the Silver Crown Mining property. I found the ore body out-cropping measuring some 7,000 feet in length and the width being around 2,500 feet. The out-croppings are very prominent. Evaluations vary somewhat from a low grade on the surface, descending with depth, and the values mounting higher by depth as far as this property has been exploited.

(Comment by Secretary: Our own studies in geochemical analysis and infrared photography over the past two years definitely indicated where core drilling should be done and positively proved the worth of our own studies.)

REPORT ON CORE
Well No. 8
SILVER CROWN MINE

At the time I started my reports on Well No. 8 the drilling had been started and was drilled to a depth of 387 feet. At this point I began taking core samples; on these I began a series of tests to determine the type of ore and its components, at the same time going over the entire area of the Silver Crown Mining property, taking samples at random. On these I also ran a series of tests; during this time I also explored underground inside the mine; each level down both shafts, taking samples at random for the purpose of testing.

By geological study the geochemical analysis and the qualitative chemical tests performed in the laboratory by me, I was able to determine the type of structure and the mineral content of this immediate ore body.

The ore occurs in a belt of pre-cambrian sericite-schist that has been intruded by a monzonite porphyry, being broken up in the mesozic age and pushed up by the lava during the disturbance of the earth in the latter Tertiary Geologic period; thus placing in this area numerous mineral veins of copper, lead, silver and gold, and their components to make up this complex mineral zone that we are now working with. By working with and the many tests performed by me in the laboratory of ore samples taken at random of the entire area of the Silver Crown Mining Property I have found a very wide range of values on the surface. Exploring below the surface I find the mineral increasing in value as well as in tonnage in quantity; the mineral veins tend to widen and increase in value with depth.

Therefore, I believe a massive ore body does exist below the Silver Crown property. I have had the privilege to explore and test many ore deposits throughout the State of Arizona. Also I have studied the mineral history of Arizona dating back into the early eighteen hundred, particularly the Goodsher and the Weaver Mountain areas. Through this extensive study I do know that Silver in Arizona is found in 5 principal types of deposits:

No. 1 - A sericite-Schist: A Metamorphic crystalline rock having a very fine, silky texture being a closely foliated structure and exhibiting of division along approximately parallel planes.

No. 2 - A Monzonite Porphyry: A granular igneous rock of porphyritic texture, composed of plagioclase and orthoclase in about equal quantities together with biotite and a little chlorite.

No. 3 - Those containing Silver with Barite gangue.

No. 4 - Those with Silver in carbonate-quartz gangues.

No. 5 - Those with Silver and Gold in quartz gangues.

The principal Silver minerals include Argentite, Cerargyrite, Proustite, Pyrargyrite, and native Silver and Freieslebenite. Stephanite Pyrargyrite, and Kerargyrite containing Hollandite.

Many types of veins have parallel dikes that cut the pre-cambrian rocks. Much of the ore has come from lenses or pockets, these being packed up by the dikes and then deposited during the latter part of the Tertiary Geologic period, leaving broken up in the intervals ago.

The present water table ranges from 50 feet to about 250 feet below the surface and the quantity of water is small, making the mining in this area worthwhile. The values that have been found thus so-far in this area are principally due to strong enrichment, controlled by fluctuation of the water table in the late Tertiary Geologic period.

Below the enrichment the protore where tested is very high-grade. This vein system runs up on the southeast end of the Silver Crown property, against a major fault; this striking in a northeasterly direction for approximately seven thousand feet; the vein structure being approximately two thousand five hundred feet. The only way to find commercial evidence of a large ore mass being below the water table is to explore in a scientific manner.

I believe all future exploration of the Silver Crown should be done with electronics, using a skilled and experienced for conducting geophysical explorations with the capability of operating at least 2,000 feet depth.

I base this upon the results of the laboratory tests and the mineral samples in the three holes I have been with so today."

Signed: E. E. Eckle
E. E. Eckle

End of quote.

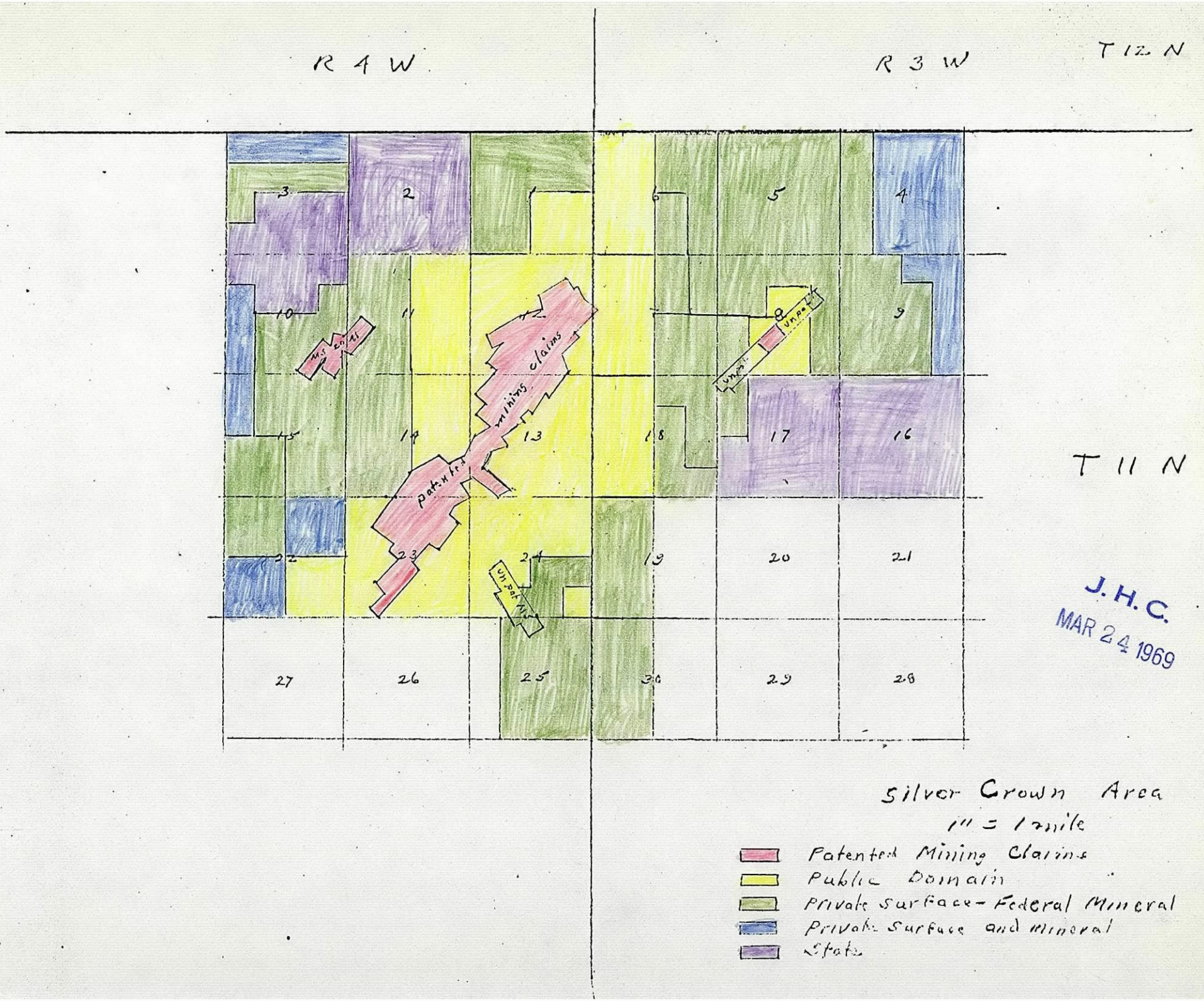
It should be noted here that Mr. Eckle's reports in the pertinent parts of the reports and should be read carefully as the values indicated in his report on drill holes number eight can be easily overlooked.

Following our check up several years ago on Mr. O'Leary's qualifications, one former geologist, through representatives of the Bureau of Mines, he was hired to direct us on our geological work. To his credit Mr. O'Leary gave us considerable assistance in the beginning of his employment, which was one day each week. Later it seemed evident that he was not giving us the maximum benefit of his knowledge. Test holes, one through seven, were under the direction of Mr. O'Leary who as our geologist carried with it considerable authority. Similar three holes were confined to the maximum depth to show the total ore body on completion. Drilling the seventh hole was interrupted when President in the office, Mr. Kovich, said he had had enough and would place the drill hole of his own according and at the drill angle himself. The results of this test you have been read - suffice to say, Mr. O'Leary has been discharged.

The Board of Directors have decided to complete final tests to outline the total ore body. Following this, active operations will be allowed to resume the property and have access to all our minutes and tests. Offers will be considered if they are realistic and to the one approved of value. The Directors feel that a lease to consider is our history can capably handle the project in question, should we feel confidence will prompt have and use that of company officers are in order. At the moment it will take several weeks to complete our tests.

Long as it goes about, we've reached the time in the road and it looks very very good.

Respectfully yours,
H. O. Hill, Secretary



J. H. C.
MAR 24 1969

SILVER CROWN

Hole	Footage	Gold Au Ariz. Assay	Gold Au Am An	Silver Ag Ariz. Assay	Silver Ag Am An
9	122 - 132	—	0.006	—	1.22
9	132 - 140	TR	0.022	13.50	1.74
9	140 - 150	TR	0.016	12.50	2.44
9	150 - 159	TR.	0.010	13.20	3.22
9	159 - 167	TR.	0.012	1.30	1.70
9	167 - 177	TR.	0.010	12.80	3.24
9	177 - 185	TR	0.006	12.80	2.76
9	185 - 195	TR	0.020	12.90	3.02
9	195 - 199	TR	0.004	11.50	1.90
9	199 - 205	TR	0.006	13.50	3.94
9	222 - ?	TR.	—	3.70	—
11	222 - 227	—	0.008	—	2.90
11	230 - 235	TR	0.012	14.10	4.24
11	240 - 245	TR	0.016	17.20	6.46
11	247 - 252	—	0.020	—	2.86
11	257 - 262	—	0.036	—	5.84
11	267 - 272	TR	0.010	13.50	4.02
11	277 - 283	TR.	0.012	14.20	3.46
11	287 - 293	—	0.014	—	5.62
11	295 - 300	—	0.008	—	2.22
11	305 - 310	TR	0.010	13.00	2.96
11	315 - 320	—	0.012	—	6.40
11	322 - ?	TR	—	12.80	—
11	330 - 335		0.010		4.36
11	342 - 347	—	0.008	—	4.06
11	347 - ?	TR	—	12.70	—
11	352 - 357	—	0.010	—	5.02
11	357 - ?	0.010	—	17.80	—
11	360 - 365	—	0.008	—	5.44
11	370 - 375	—	0.016	—	3.96
11	380 - 385	—	0.010	—	4.62

SILVER CROWN

Hole	Footage	Gold Au Ariz. Assay	Gold Au Am An	Silver Ag Ariz. Assay	Silver Ag Am An
11	387 - ?	TR.	—	5.80	—
11	390 - 395	—	0.008	—	3.80
11	395 - ?	TR.	—	13.80	—
11	400 - 405	—	0.006	—	3.54
11	407 - 412	—	0.018	—	6.98
12	300 - 305	TR.	0.006	3.90	3.56
12	310 - 315	TR.	0.010	15.70	4.66
12	320 - 325	TR.	0.008	6.00	6.72
12	330 - 335	0.010	0.014	14.10	3.22
12	337 - 342	TR	0.012	15.10	7.12
12	348 - 353	TR.	0.024	15.00	2.42
12	357 - 362	TR	0.006	14.70	2.82
12	376 - 381	TR	0.004	3.20	3.84
12	385 - 391	0.080	0.006	14.40	4.72
12	395 - 400	0.010	0.018	14.40	4.06
14	705 - 710.	0.12	0.500	13.10	10.64
14	715 - 720	TR.	0.012	3.60	4.06
14	730 - 735	TR.	0.016	7.80	9.68
14	738 - 743	TR.	0.220	14.00	5.46
14	747 - 752	0.280	0.390	19.30	22.42 ✓
14	755 - 760	0.100	0.014	7.90	6.26 ✓
14	766 - 771	0.580	1.180	14.90	13.56 ✓
14	775 - 780	TR.	0.018	4.50	4.08 ✓
14	795 - 800	0.010	0.010	4.40	4.56 ✓
15	90 - 95	0.020	0.008	3.20	2.54 ✓
15	126 - 131	TR	0.010	2.40	1.36

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona
March 18, 1969

J. H. C.
MAR 1 9 1969

FILE MEMORANDUM

ARIZONA-MICHIGAN MINING COMPANY, INC.
Southeast of Kirkland Junction, Arizona
Silver Crown Mine

President: Dr. A.V. Smith
116 W. Sycamore St.
Mason, Michigan 48854

Sec.-Trea: Mr. W.O. Hall
Mason State Bank
P.O. Box 270
Mason, Michigan 48854

Exec. 1st V.P.: Mr. L.W. Rayner
Box 829
Prescott, Arizona 86301

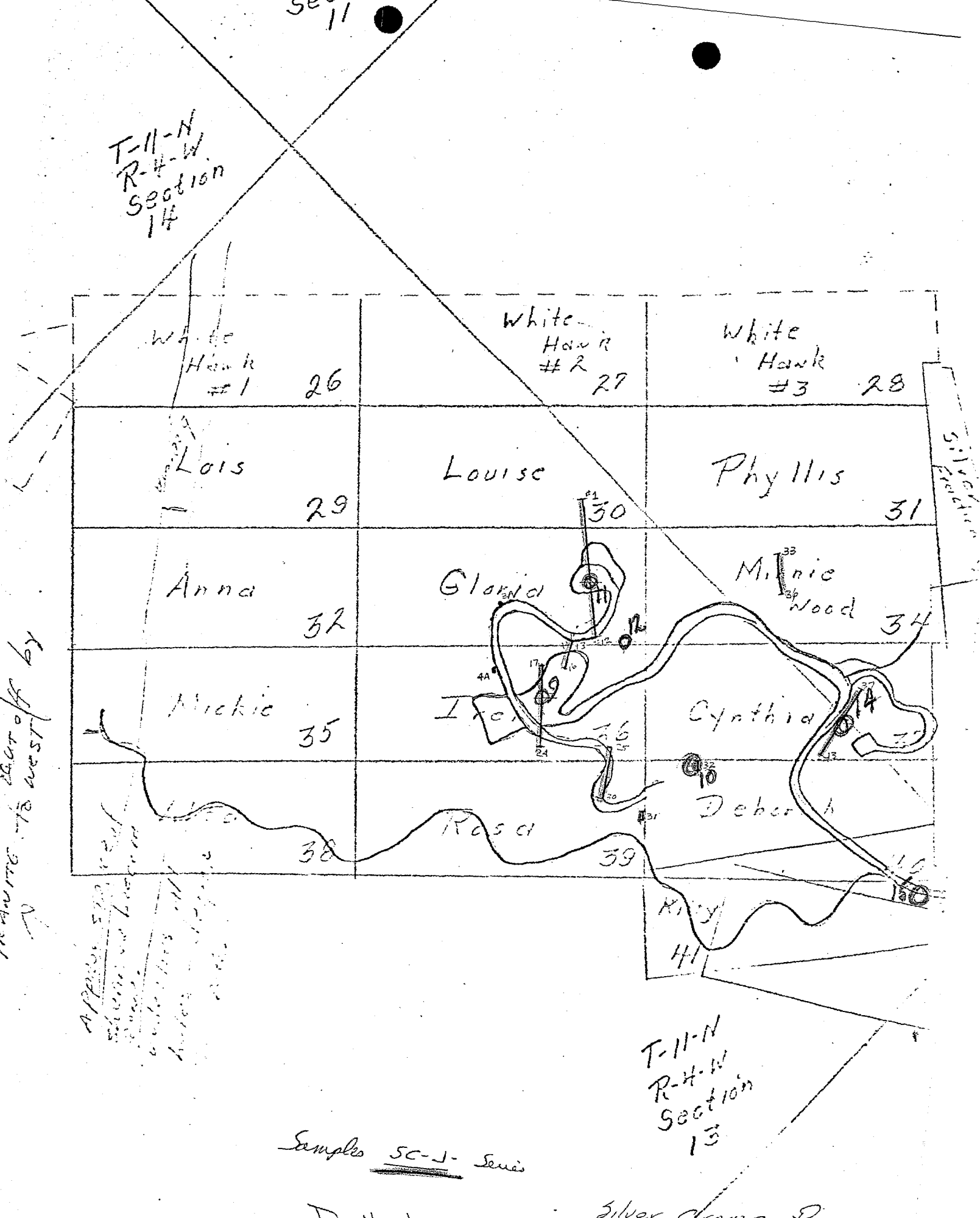
Mail may also be sent to:

Mr. L.W. Rayner
Arizona Michigan Mining Company
c/o K.E. Eakin
Star Route, Box 46
Kirkland, Arizona 86332

Mr. Rayner is General Manager at the mine.
Mr. K.E. Eakin is geologist at the mine.

J.D. Sell

JDS:ir
cc: JHCourtright
SIBowditch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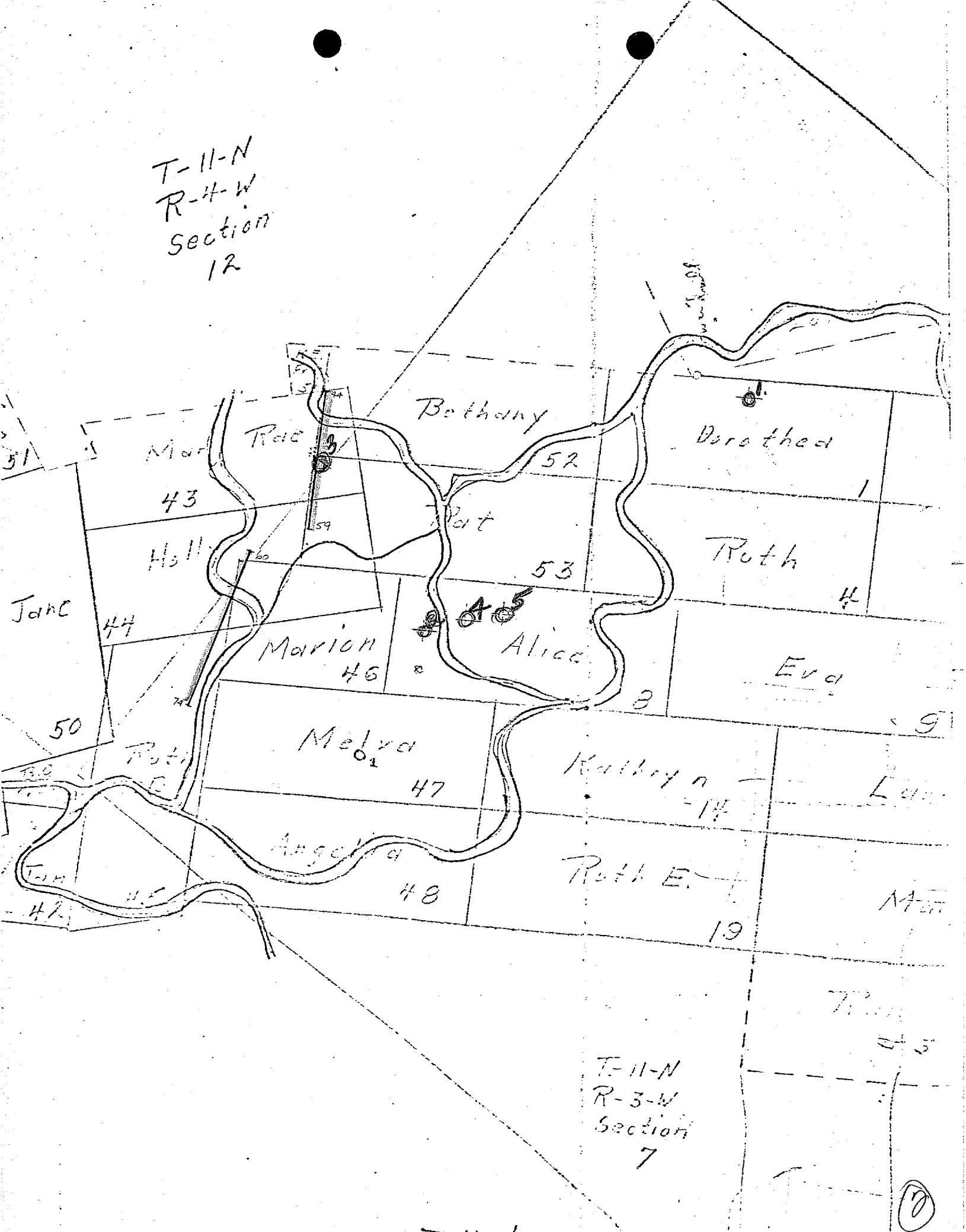
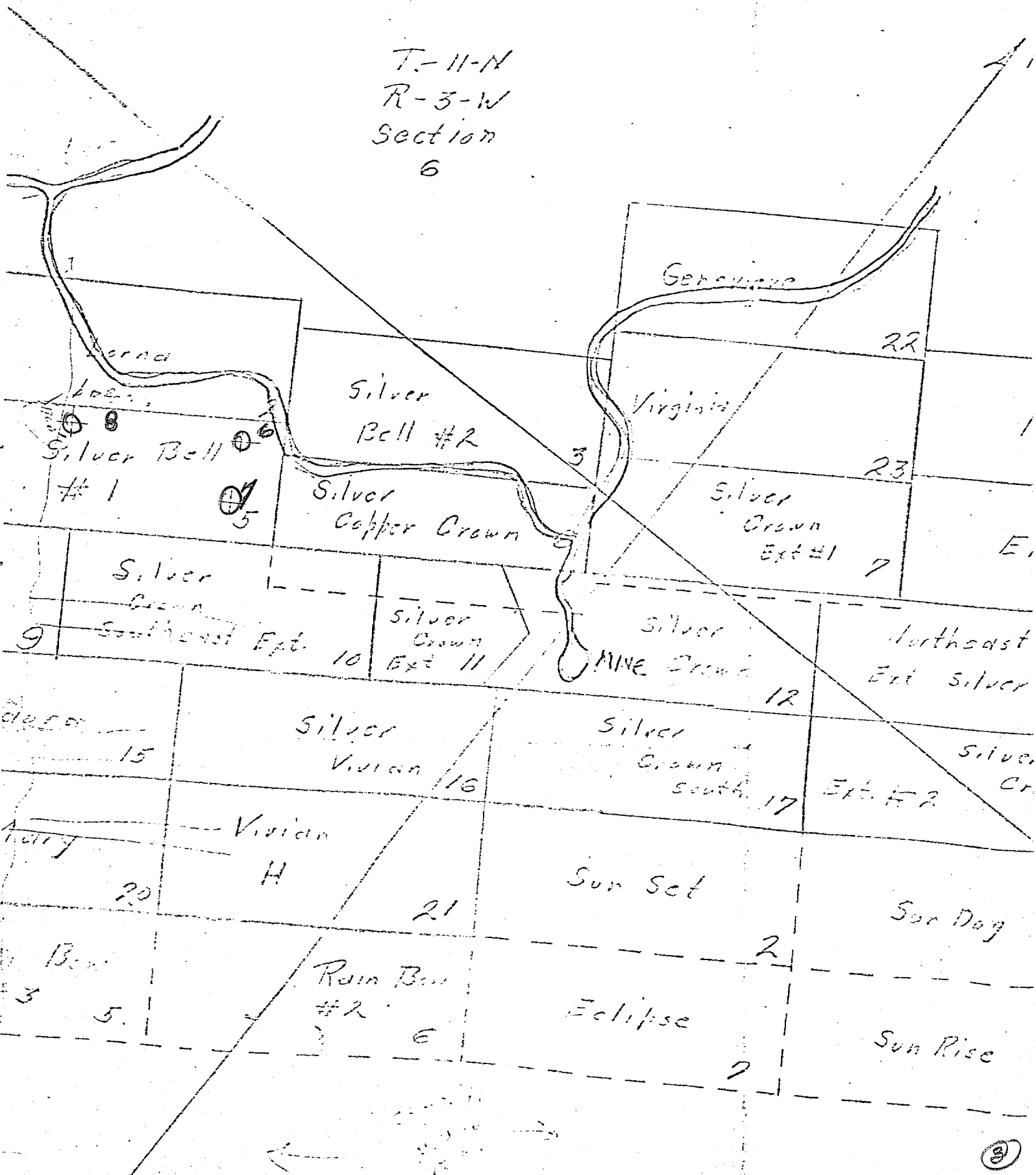
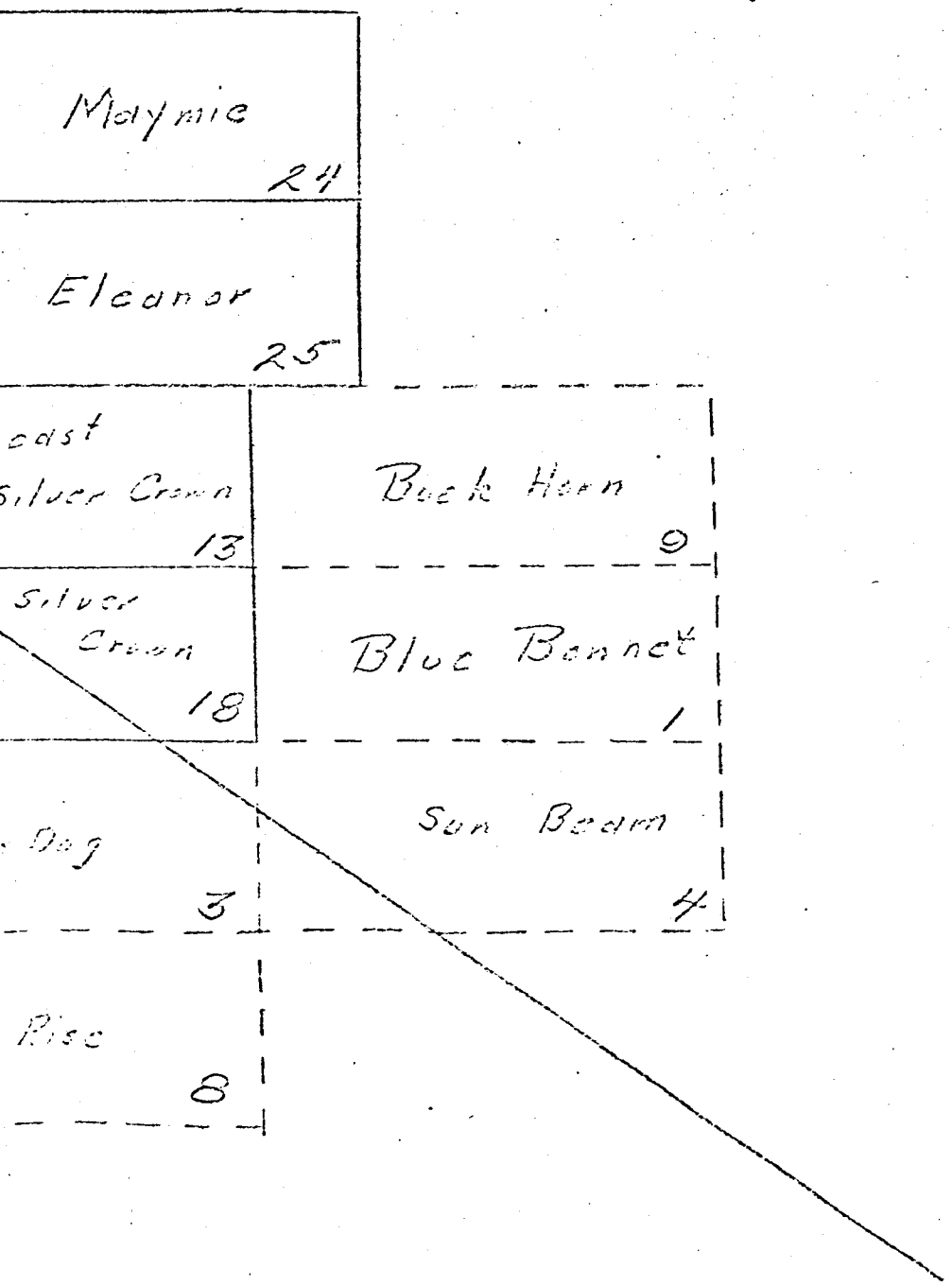
T-11-N
R-4-W
Section
14
White Hawk #1
26
White Hawk #2
27
White Hawk #3
28
Lois
29
Louise
30
Phyllis
31
Anna
32
Glorida
Minnie Wood
34
Nickie
35
Irene
Cynthia
Debora
38
Rosa
39
Mary
41
T-11-N
R-4-W
Section
13
Samples SC-J- Series
Drill hole =
Silver Crown Prop
Yavapai Co, Ariz


T-11-N
R-4-W
Section
12
Bethany
52
Dorothea
1
Mar
Rac
43
Holl
Port
53
Ruth
4
Jane
44
Marion
46
Alice
8
Eva
9
50
Melva
47
Kathryn
14
Angelia
48
Ruth E.
19
T-11-N
R-3-W
Section
7


T.-11-N
R-3-W
Section
6
Genuine
Silver Bell #1
Silver Bell #2
Silver Copper Crown
Virginia
Silver Crown Ext #1
Silver Crown Southeast Ext.
Silver Crown Ext 11
Silver Mine Crown
Northeast Ext Silver
Silver Vivian
Silver Crown South
Ext. #2
Vivian H
Sun Set
Sun Day
Ruin Bar #2
Eclipse
Sun Rise

N

T-11-N
R-3-W
Section
5



3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 18, 1969

SAMPLE MARKED	GOLD AU OZ./TON	SILVER AG OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 9 122-132	.006	1.22						
132-140	.022	1.74						
140-150	.016	2.44						
150-159	.010	3.22						
159-167	.012	1.70						
167-177	.010	3.24						
177-185	.006	2.76						
185-195	.020	3.02						
195-199	.004	1.90						
199-205	.006	3.94						
Hole 11 222-227	.008	2.90						
230-235	.012	4.24						
240-245	.016	6.46						
247-252	.020	2.86						
257-262	.036	5.84						
267-272	.010	4.02						
277-283	.012	3.46						
287-293	.014	5.62						
295-300	.008	2.22						
305-310	.010	2.96						
315-320	.012	6.40						
330-335	.010	4.36						
342-347	.008	4.06						
352-357	.010	5.02						
360-365	.008	5.44						

REGISTERED ASSAYER
CERTIFICATE NO. 6852
PETE S. FLORES
Date Signed 3/18/69
Arizona U. S. A.

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 11 370-375	.016	3.96						
380-385	.010	4.62						
390-395	.008	3.80						
400-405	.006	3.54						
407-412	.018	6.98						
Hole 12 300-305	.006	3.56						
310-315	.010	4.66						
320-325	.008	6.72						
330-335	.014	3.22						
337-342	.012	7.12						
348-353	.024	2.42						
357-362	.006	2.82						
376-381	.004	3.84						
385-391	.006	4.72						
395-400	.018	4.06						
Hole 14 100-105	.092	1.08						
107-112	.030	3.06						
117-122	.076	5.62						
130-135	.090	1.82						
140-145	.050	2.94						
150-155	.008	1.52						
160-165	.060	0.78						
167-172	.036	0.78						
177-182	Trace	0.06						
192-197	.004	0.82						

REGISTERED ASSAYER CERTIFICATE NO. 6352 PETE S. FLORES Date Signed 3/18/69 Arizona, U. S. A.

CHARGES $

Pete S. Flores

ASSAYER-CHEMIST

3226 East 46th Street Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 14 200-205	1.350	10.90						
262-267	.280	3.02						
292-299	.500	10.62						
300-305	.006	0.08						
310-315	.078	3.32						
320-325	1.010	3.94						
330-335	.360	5.78						
342-347	.100	3.98						
347-352	.120	3.74						
357-362	.008	0.04						
367-372	.120	6.46						
375-380	.110	1.90						
385-390	1.720	3.12						
392-397	.510	5.80						
402-407	.180	9.48						
412-417	.310	11.38						
422-427	.280	2.56						
432-437	2.280	13.88						
442-447	Trace	0.08						
452-457	.240	6.16						
460-465	.980	13.06						
467-472	.430	4.96						
477-482	.780	9.62						
487-489	.460	8.14						
512-514	.920	11.44						

REGISTERED ASSAYER CERTIFICATE NO. 6352 PETE S. FLORES Date Signed 3/18/69 Arizona U. S. A.

CHARGES $

Pete S. Flores
ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 13, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 14 520-522	.970	5.62						
526-528	.420	8.54						
537-539	1.430	10.18						
547-549	1.160	6.32						
562-564	.770	7.30						
574-576	.220	5.36						
597-612	.760	9.52						
612-622	2.040	19.64						
622-630	.870	16.08						
630-642	1.610	8.32						
642-655	.590	16.12						
655-664	6.820	13.04						
664-675	2.050	27.80						
675-682	.280	5.40						
682-697	.006	0.06						
697-700	1.750	21.54						
705-710	.500	10.64						
715-720	.012	4.06						
730-735	.016	9.68						
738-743	.220	5.46						
747-752	.390	22.42						
755-760	.014	6.26						
766-771	1.180	13.56						
775-780	.018	4.08						
785-790	.010	5.20						

REGISTERED ASSAYER CERTIFICATE NO. 6352 PETE S. FLORES Date Signed 3-20-69 Arizona U.S.A.

CHARGES $

Pete S. Flores

ASSAYER - CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 14 795-800	.010	4.56						
Hole 15 90- 95	.008	2.54						
97-102	.008	3.22						
102-107	.010	2.70						
112-117	Trace	0.08						
118-123	.006	3.24						
126-131	.010	1.36						
133-137	.016	2.84						
137-142	.010	2.50						
152-157	.012	2.70						

REGISTERED ASSAYER
CERTIFICATE NO. 6852
PETE S. FLORES
Date Signed 3-18-69
Arizona U. S. A.

CHARGES $ 357.50

Pete S Flores

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 9 122-132	.006	1.22						
132-140	.022	1.74						
140-150	.016	2.44						
150-159	.010	3.22						
159-167	.012	1.70						
167-177	.010	3.24						
177-185	.006	2.76						
185-195	.020	3.02	X X					
195-199	.004	1.90						
199-205	.006	3.94						
Hole 11 222-227	.008	2.90						
230-235	.012	4.24						
240-245	.016	6.46						
247-252	.020	2.86						
257-262	.036	5.84						
267-272	.010	4.02						
277-283	.012	3.46						
287-293	.014	5.62						
295-300	.008	2.22						
305-310	.010	2.96						
315-320	.012	6.40						
330-335	.010	4.36	X X					
342-347	.008	4.06						
352-357	.010	5.02						
360-365	.008	5.44						

REGISTERED ASSAYER
CERTIFICATE NO. 6852
PETE S. FLORES
Date Signed
Arizona U. S. A.

CHARGES $

Pete S. Flores
ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 11 370-375	.016	3.96						
380-385	.010	4.62						
390-395	.008	3.80						
400-405	.006	3.54						
407-412	.018	6.98						
Hole 12 300-305	.006	3.56						
310-315	.010	4.66						
320-325	.008	6.72						
330-335	.014	3.22						
337-342	.012	7.12						
348-353	.024	2.42	XX					
357-362	.006	2.82						
376-381	.004	3.84						
385-391	.006	4.72						
395-400	.018	4.06						
Hole 14 100-105	.092	1.08	XX					
107-112	.030	3.06	XX					
117-122	.076	5.62						
130-135	.090	1.82						
140-145	.050	2.94						
150-155	.008	1.52						
160-165	.060	0.78						
167-172	.036	0.78						
177-182	Trace	0.06						
192-197	.004	0.82						

REGISTERED ASSAYER
CERTIFICATE NO. 6352
PETE S. FLORES
Date Signed 3/18/69
Arizona U. S. A.

CHARGES $

Pete S. Flores
ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 14 200-205	1.350	10.90	XX					
262-267	.280	8.02						
292-299	.580	10.62						
300-305	.006	0.08						
310-315	.078	3.32						
320-325	1.010	3.94						
330-335	.360	5.78						
342-347	.100	3.98						
347-352	.120	3.74						
357-362	.008	0.04						
367-372	.120	6.46						
375-380	.110	1.90						
385-390	1.720	3.12	XX					
392-397	.510	5.80						
402-407	.180	9.48						
412-417	.310	11.38						
422-427	.280	2.56	XX					
432-437	2.280	13.88						
442-447	Trace	0.08						
452-457	.240	6.16						
460-465	.980	13.06						
467-472	.430	4.96						
477-482	.780	9.62						
487-489	.460	8.14						
512-514	.920	11.44						

REGISTERED ASSAYER CERTIFICATE NO. 6852 PETE S. FLORES Date Signed 4/16/69 Arizona U. S. A.

CHARGES $

Pete S. Flores
ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 14 520-522	.970	5.62						
526-528	.420	8.54						
537-539	1.430	10.18						
547-549	1.160	6.32	X X					
562-564	.770	7.30						
574-576	.220	5.36						
597-612	.760	9.52						
612-622	2.040	19.64						
622-630	.870	16.08						
630-642	1.610	8.32						
642-655	.590	16.12						
655-664	6.820	13.04	X X					
664-675	2.050	27.80						
675-682	.280	5.40						
682-697	.006	0.06						
697-700	1.750	21.54						
705-710	.500	10.64						
715-720	.012	4.06						
730-735	.016	9.68						
738-743	.220	5.46						
747-752	.390	22.42						
755-760	.014	6.26						
766-771	1.180	13.56	X X					
775-780	.018	4.08						
785-790	.010	5.20						

REGISTERED ASSAYER CERTIFICATE NO. 6852 PETE S. FLORES Date Signed 3-18-69 Arizona U. S. A.

CHARGES $

Pete S. Flores
ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 14 795-800	.010	4.56						
Hole 15 90- 95	.008	2.54						
97-102	.008	3.22						
102-107	.010	2.70						
112-117	Trace	0.08						
118-123	.006	3.24						
126-131	.010	1.36						
133-137	.016	2.84	XX					
137-142	.010	2.50						
152-157	.012	2.70						

REGISTERED ASSAYER CERTIFICATE NO. 6852 PETE S. FLORES Date Signed 3-18-69 Arizona U. S. A.

CHARGES $ 357.50

Pete S. Flores

ASSAYER - CHEMIST

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

March 17, 1969

FOLE MEMORANDUM

TO: Mr. J.H. Courtright

FROM: Mr. J.D. Sell

B.W. Copeland Properties
Yavapai and Maricopa Counties,
Arizona

The three properties were originally written about in a file memorandum dated January 24, 1969.

Accompanied by L.J. Jansen, I met Mr. Copeland and discussed the three properties and made rapid visits to the Silver Crown and the Copperland properties.

1). Slate Creek. No further work has been done on the property but a visit is slated after his lower tunnel cuts the vein area.

2). Silver Crown. This property, held by the Arizona-Michigan Mining Company, Inc., was investigated through inspection of the roads, drill sites, selected core intervals, and further discussions with Langley Rayner, Manager of the property and a vice-president of the Arizona-Michigan Company, Ken Eakin, geologist. Rayner lives at the property during the week, but can generally be found in Prescott during the weekends. His unlisted phone is Prescott 445-2369. No phone is at the property. Mail can be sent to Box 829, Prescott, Arizona 86301 or to the property o/o Ken Eakin, Star Route Box 46, Kirkland, Arizona 86332. The surface exposures show a wide (3000 ft.) zone of variably altered and colored Yavapai Schist with a strike length of in excess of 6000 feet and probably much longer although the color zone appears to be breaking into stringer type areas to the northeast. The color zone parallels the schistosity which generally trends N 35-40°E. The southwestern half is estimated to contain about 20% of its area as relatively uncolored streaks whereas to the northeast the ratio may be 50-50 to colored and uncolored areas.

Coloration is the main feature although in some zones abundant pyritic-chalcopyritic limonites were noted along the schistosity as well as copper oxide stain and films plus some sericite. The drill core inspected indicates that the massive color essentially terminates between 50 and 90 feet with minor limonitic material present along schistosity to a somewhat greater depth. Sulfides are present at depth with pyrite and chalcopyrite being the major constituents. After the surface inspection, we were informed that a few assays were available. We were able to secure a copy of the assays and they indicated interesting gold-silver values (perhaps averaging +4.0 Ag and +0.2 oz Au). We were unable to secure any core reject samples at the time but they said one composite would be made up and sent along with a copy of the results of the additional 50 assays they expected soon.

Surface sampling the zone and collection of additional reject samples will be undertaken in the coming week.

3). Copperland. Copeland's area in the White Tank Mountains shows an area characteristic of porphyry copper type alteration-mineralization in porphyries and fine-grained rocks. Abundant jarositic material is present in the area of parvasive kaolin and quartz-sericitic alteration.

The exposed area is out from the main mountain and consists of isolated hills surrounded by alluvium and being some quarter mile wide and a mile and one-half in length. A claim map was secured showing the boundaries and ten drill holes through the area (some for assessment, other somewhat deeper tests by Cominco). No results of the drilling are available and at the drill sites visited no core chips were found.

Geochemical results from mesquite plant ashings are available and I P was also conducted over the area. Only the verbal note that the I P showed a northwest-trending anomaly was forthcoming.

Further discussion with Mr. Copeland is warranted.

J.D. Sell

JDS:dr

3226 East 46th Street

Phone 624-0049

WES

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE March 13, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
SC - J - 1	.003	0.09						
SC - J - 2	.002	0.12						
SC - J - 3	.002	0.08						
SC - J - 4	.002	0.09						
SC - J - 5	.002	0.05						
SC - J - 6	Trace	0.07						
SC - J - 7	.005	0.03						
SC - J - 8	.003	0.11						
SC - J - 9	.003	0.11						
SC - J - 11	.004	0.09						
SC - J - 12	Trace	0.13						
SC - J - 13	Trace	0.14						
SC - J - 14	.005	0.09						
SC - J - 15	.005	0.09						
SC - J - 16	.003	0.10						
SC - J - 17	Trace	0.18						
SC - J - 18	.002	0.16						
SC - J - 19	.003	0.12			Silver Crown			
SC - J - 20	.004	0.19			outcrop samples			
SC - J - 21	Trace	0.17						
SC - J - 22	.003	0.13						
SC - J - 23	.002	0.12						
SC - J - 24	.002	0.22						
SC - J - 3A	.003	0.17						
SC - J - 4A	Trace	0.19						

REGISTERED ASSAYER CERTIFICATE NO. 6852 PETE S. FLORES Date Signed Arizona U.S.A.

CHARGES $ 93.75

ASSAYER-CHEMIST

Silver Crown — 3-10-69

Hole-Footage	Ag* oz. Ag.	Au* oz. Au	% Cu
10-155	2.90	.03	0.050
10-200	5.50	.05	0.186
10-280	8.30	.22	0.060
10-250	10.40	.58	0.075
10-300	0.40	TRACE	0.015
10-325	7.20	.32	0.135
10-340	5.10	.38	0.090
10-360	12.00	.72	0.140
10-375	9,90	.66	0.050
10-400	9.60	.94	0.095
11-200	9.80	.46	0.40
11-212	16.90	.34	2.00
11-235	21.20	.88	0.40
11-254	15.50	.43	2.21
11-245	25.70	1.16	0.82
11-262	6.70	.44	0.30
11-272	25.70	.97	0.51
11-282	12.60	1.02	0.80
11-292	9.00	.52	0.10
12-200	0.40	TRACE	0.030
12-210	6.10	.28	0.035
12-220	3.60	.24	0.015
12-230	8.30	.26	0.030
12-24?	7.60	.42	0.080
12-2??	2.40	.03	0.030
11-225	15.80	.88	0.65
12-257	1.20	TRACE	0.10
12-267	6.90	.38	0.11
12-275	4.80	.01	0.03
12-290	5.00	.34	0.14
14-487	11.80	.54	0.11
14-497	13.00	1.06	0.075
14-512	5.70	.46	0.06
14-520	6.70	.40	0.055
14-526	10.70	.38	0.09
14-537	8.40	.34	0.015
14-547	7.30	.46	0.07
14-562	7.10	.84	0.05
14-584	12.50	.42	0.09
14-574	6.70	.28	0.03
15-100	2.10	.28	0.13
15-107	3.30	.26	0.055
15-117	6.40	.22	0.08
15-130	2.80	.14	0.025
15-140	4.40	.01	0.045
15-150	2.90	.02	0.04
15-160	0.80	TRACE	0.03
15-167	1.10	.02	0.025
15-177	0.30	TRACE	0.02
15-192	0.90	.01	0.05

Note: These are 5.0' cuts; 10-155 represents drill hole no. 10, start of assay cut is 155 feet and extends to 160 feet.

* Amer. Analytical

No. ..... Date .....

No. 1808 AR

VALUES
Latest Quotation

oz. Gold.....
oz. Silver.....
lb. Copper.....
lb. Lead.....
lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET

Phone: 253-4001

AMIZONA MICHIGAN MINING CO
MR.K.MAKIN
BOX 46
KIRKLAND ARIZONA 86332

MARKS	SILVER PER TON Ozs.	Tenths	VALUE PER TON		GOLD PER TON Ozs.	100ths	VALUE PER TON		TOTAL VALUE PER TON of Gold & Silver		PERCENT COPPER
9 - 133	1	3.50			TRACE						0.015
9 - 140	1	2.50			TRACE						0.015
9 - 150	1	3.20			TRACE						0.010
9 - 159		1.50			TRACE						0.010
9 - 167	1	2.80			trace						0.010
9 - 177	1	2.80			TRACE						0.010
9 - 185	1	2.90			TRACE						0.015
9 - 195	1	1.50			TRACE						0.010
9 - 199	1	3.50			TRACE						0.010
9 - 233		3.70			TRACE						0.010
**********											
11 - 230	1	4.10			TRACE						0.010
11 - 240	1	7.20			TRACE						0.010
11 - 267	1	3.50			TRACE						0.010
11 - 277	1	4.20			TRACE						0.010
11 - 305	1	3.00			TRACE						0.010

Assayer

PAGE # 2

Shop No. 853

File No. 1809 AR

Date 5 March 1969

Arizona Assay Office

815 NORTH FIRST STREET

Phone: 253-4001

Phoenix, Arizona 85001

P. O. BOX 1148

VALUES

Latest Quotation

1 oz. Gold

1 oz. Silver

1 lb. Copper

1 lb. Lead

1 lb. Zinc

Short Ton ..... 2000 Lbs.

Short Ton Unit ..... 20 Lbs.

Long Ton ..... 2240 Lbs.

Long Ton Unit ..... 22.4 Lbs.

ARIZONA MICHIGAN MINING CO

THIS CERTIFIES

Samples submitted for assay contain as follows:

MARKS	SILVER PER TON Ozs.	Tenths	VALUE PER TON	GOLD PER TON Ozs.	100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE COPPER			REMARKS
11 - 322	1 3.80			TRACE				0.030			
11 - 347	1 2.70			TRACE				0.015			
11 - 357	1 7.20			.01				0.015			
11 - 387	5.80			TRACE				0.010			
11 - 395	1 3.80			TRACE				0.010			
12 - 300	1 3.90			TRACE				0.020			
12 - 310	1 5.70			TRACE				0.040			
12 - 320	6.00			TRACE				0.050			
12 - 330	1 4.10			.01				0.080			
12 - 337	1 5.10			TRACE				0.100			

Charges $ 162.50 PAID

Assayer

JACK STONE Reg. No. 5479

REGISTERED ASSAYER CERTIFICATE EXPIRES STATE OF ARIZONA

ANDY CHUKA, PRINT

File No. 1800 A R

VALUES
Latest Quotation

1 oz. Gold.....
1 oz. Silver.....
1 lb. Copper.....
1 lb. Lead.....
1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

ARIZONA MICHIGAN MINING CO
KIRKLAND ARIZONA

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	[illegible]	REMARKS
12 - 348	1.5000			TRACE				1040	
12 - 357	14.70			TRACE				1042	
12 - 380 378	3.20			TRACE				[illegible]	
12-385	1 4040			[illegible]				[illegible]	
12-395	1 4040			[illegible]				[illegible]	
**********									
14 - 705	13.10			[illegible]				[illegible]	
14 - 715	3.80			[illegible]				[illegible]	
14 - 730	[illegible]			[illegible]				[illegible]	
14 - 736	[illegible]			[illegible]				[illegible]	
14 - 747	[illegible]			[illegible]				[illegible]	
14 - 755	[illegible]			[illegible]				[illegible]	
14 - 760	14.00			[illegible]				[illegible]	
14 - 775	[illegible]			[illegible]				[illegible]	
14 - 785	[illegible]			[illegible]				[illegible]	
14 - 795	4040			[illegible]				[illegible]	

PAGE # 3

Charges $ INVOICE #1800 A R

Assayer.....

JACK STONE Reg. No.

ANDY CHUKA, PRINT

PAGE # 4

Shop No. 853
File No. 1809 A R

Date 5 March 1969

VALUES
Latest Quotation

1 oz. Gold
1 oz. Silver
1 lb. Copper
1 lb. Lead
1 lb. Zinc

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

ARIZONA MICHIGAN MINING CO
KIRKLAND ARIZONA

Short Ton ..... 2000 Lbs
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs
Long Ton Unit ..... 22.4 Lbs

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE COPPER	REMARKS
15 @ 80	3	20			.02			0.010	
15 @ 126	2	40		TRACE				0.005	
15 @ 210	13	80		TRACE				0.010	
15 @ 330	12	70		TRACE				0.010	
15 @ 252	12	60		TRACE				0.010	
15 @ 302	12	80		TRACE				0.010	
15 @ 312	10	40		NIL				TRACE	
15 @ 318	13	20		TRACE				0.005	
15 @ 332	12	70		TRACE				0.010	
15 @ 342	13	40		TRACE				0.005	

Charges $ 162.50 PAID

ANDY CHUKA, PRINT

Assayer

JACK STONE REG. NO. 5478

Shop No. .....
File No. 1809 AR
Date.....

VALUES
Spot Quotation

1 oz. Gold.....
1 oz. Silver.....
1 lb. Copper.....
1 lb. Lead.....
1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

ARIZONA MICHIGAN MINING CO
MR. K. E. EAKIN
BOX 46
KIRKLAND ARIZONA 86332

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE COPPER
9 - 132 START	13	50		TRACE				0.015
9 - 140	12	50		TRACE				0.015
9 - 150	13	20		TRACE				0.015
9 - 159	1	30		TRACE				0.010
9 - 167	12	80		trace				0.010
9 - 177	12	80		TRACE				0.010
9 - 185	12	90		TRACE				0.015
9 - 195	11	50		TRACE				0.010
9 - 199	13	50		TRACE				0.015
9 - 223	3	70		TRACE				0.010
**********								
11 - 230	14	10		TRACE				0.010
11 - 240	17	20		TRACE				0.010
11 - 267	13	50		TRACE				0.010
11 - 277	14	20		TRACE				0.010
11 - 305	13	00		TRACE				0.010

REGISTERED ASSAYER
STATE OF ARIZONA
DEC. 31, 19
ARIZONA

Charges $ PAGE # 1 INVOICE # 1809 AR

Assayer.....
JACK STONE

PAGE # 2

Shop No. 852

File No. 1809 Ar

VALUES
Latest Quotation

1 oz. Gold
1 oz. Silver
1 lb. Copper
1 lb. Lead
1 lb. Zinc

THIS CERTIFIES
Samples submitted for assay contain as follows

Date 5 March 1969

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

Short Ton 2000 Lbs.
Short Ton Unit 20 Lbs.
Long Ton 2240 Lbs.
22.4 Lbs.

ARIZONA MICHIGAN MINING CO

MARKS	SILVER PER TON Ozs.	Tenths	VALUE PER TON	GOLD PER TON Ozs.	100ths	VALUE PER TON	TOTAL VALUE PER of Gold	Copper		REMARKS
11 - 322	1	2.80		TRACE					0.02	
11 - 347	1	2.70		TRACE				0.015	0.015	
11 - 357	1	7.20			.01			0.015	0.015	
11 - 387		5.80		TRACE					0.010	
11 - 385	1	3.80		TRACE					0.010	
12 - 300	1	3.90		TRACE				0.260	0.260	
12 - 310	1	5.70		TRACE					0.040	
12 - 320		6.00		TRACE				0.050	0.050	
12 - 330	1	4.10			.01			0.050	0.060	
12 - 337	1	5.10		TRACE				0.100	0.100	

Charges $ 162.50 PAID

Assayer

JACK STONE REG. No. 5479

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

ANDY CHUKA, PRINT

File No. 1809 A R

VALUES
Latest Quotation

1 oz. Gold.....
1 oz. Silver.....
1 lb. Copper.....
1 lb. Lead.....
1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

ARIZONA MICHIGAN MINING CO
KIRKLAND ARIZONA

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	Tenths	VALUE PER TON	GOLD PER TON Ozs.	100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGES COPPER	REMARKS
12 - 348	15	.00		TRACE				1.40	
12 - 357	14	.70		TRACE				1.41	
12 - ~~[illegible]~~ 378	3	.20		TRACE				0.82	
12-385	1 4	.40			.08			1.50	
12-395	1 4	.40			.01			0.01	
**********									
14 - 705	13	.10			1.13			0.60	
14 - 715	3	.60		TRACE				0.10	
14 - 730	7	.80		TRACE				0.015	
14 - 738	14	.00		TRACE				0.015	
14 - 747	19	.30			.28			0.045	
14 - 755	7	.90			.10			0.015	
14 - 768	14	.90			.58			0.30	
14 - 775	4	.50		TRACE				0.010	
14 - 785	7	.70		TRACE				0.010	
14 - 795	4	.40			.01			0.010	

PAGE # 3

Charges $ INVOICE #1809 A R

Assayer.....

JACK STONE REG. NO. 5479

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

ANDY CHUKA. PRINT

PAGE # 4

Shop No. 852
File No. 1809 A R

Date 5 March 1969

VALUES
Latest Quotation

oz Gold
oz Silver
lb Copper
lb Lead
lb Zinc

THIS CERTIFIES
Samples submitted for assay contain as follows

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix Arizona 85001

ARIZONA MICHIGAN MINING CO
KIRKLAND ARIZONA

MARKS	SILVER PER TON Ozs.	Tenths	VALUE PER TON	GOLD PER TON Ozs.	100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	COPPER
15 - 20	3	.80			.03			0.010
15 - 136	2	.40		TRACE				0.005
15 - 210	13	.80		TRACE				0.010
15 - 230	12	.70		TRACE				[illegible]
15 - 252	12	.60		TRACE				0.010
15 - 303	12	.60		TRACE				0.010
15 - 312	10	.40		NIL				TRACE
15 - 318	13	.20		TRACE				0.005
15 - 332	12	.70		TRACE				0.010
15 - 342	13	.40		TRACE				0.005

Charges $ 162.50 PAID

Assayer

JACK STONE REG. NO. 5479

ANDY CHUKA, PRINT

838
1209 EK

Date 25 FEB 1988

VALUES
Gold 42.60
Silver 1.80
Copper
Lead
Zinc

THIS CERTIFIES
that submitted for assay
was as follows

Arizona Assay Office

815 NORTH FIRST STREET

Phone: 253-4001

Phoenix, Arizona 85004
P.O. BOX 940

ARIZONA MICHIGAN MINING CO
MR. K. BRZAKIE
BOX 48 STAR ROUTE
KIRKLAND
ARIZONA 86332

Short Ton ..... 2000 Lbs
Short Ton Unit ..... 20 Cwt
Long Ton ..... 2240 Lbs
Long Ton Unit ..... 22.4 Cwt

MARKS	SILVER PER TON Oz.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Oz.	GOLD PER TON Tenths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE COPPER 100's Pct.	REMARKS
10-155	2	80			.03			0.050	
10-200	5	50			.05			0.180	
10-220 (230)	8	30			.22			0.080	
10-250	10	40			.58			0.075	
10-300	0	40		TRACE				0.015	
10-325	7	20			.33			0.155	
10-340	5	10			.33			0.090	
10-380	13	50			.73			0.140	
10-375	9	60			.03			0.050	
10-400	2	80			.04			0.005	
11-[illegible]	5	40			.46 .43			0.40	
11-[illegible]	16	90			.34			2.00	
11-[illegible]	21	20			.38			0.40	
11-[illegible]	15	50			.48			2.31	
11-[illegible]	25	70		1	.06			0.33	

GRS $ PAGE # 1

Assayer

JACK STONE REG. NO. 5479

CHURGE CREDIT

MARKS	SILVER PER TON Oz.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Oz.	GOLD PER TON Tenths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE COPPER	REMARKS
11-[illegible]	6	70			.44			0.59	
11-[illegible]	[illegible]	70			.27			0.61	
11-[illegible]	12	50 10			1			0.80	
11-[illegible]	9	60			.52 .54			0.10	
12-[illegible]	0	40		TRACE				0.030	
12-[illegible]	8	10			.23			0.055	
12-[illegible]	5	30			.24			0.015	
12-[illegible]	8	30			.30			0.150	
12-[illegible]	7	20			.43			0.080	
12-[illegible]	2	40			.03			0.050	

Charges $ 183.50 PAID

Assayer

JACK STONE

2

Date: Dec. 29 1969

LEDGER

PAID

Phone Quotation

Order

Phone

Arizona Assay Office

815 NORTH FIRST STREET

Phone: 253-4001

Phoenix, Arizona 85004

P. O. Box 7148

ARIZONA MICHIGAN MINING CO

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

This certifies submitted for assay as follows:

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE COPPER	REMARKS
11 - 225	15	.80			.88			0.65	
12-257	1	.20		TRACE				0.10	
12-267	6	.90			.38			0.11	
12-275	4	.80			.01			0.03	
12-280	5	.00			.34			0.14	
14-487	11	.80			.54			0.11	
14-497	13	.00		1	.06			0.075	
14-513	5	.70			.48			0.06	
14-520	6	.70			.40			0.055	
14-526	10	.70			.38			0.09	
14-537	8	.40			.34			0.015	
14-547	7	.30			.46			0.07	
14-582	7	.10			.24			0.05	
14-584	12	.50			.42			0.09	
14-574	6	.70			.28			0.03	

PAGE # 3

Assayer

JACK STONE R.G. NO. 3479

USA PRINT

Samples submitted for assay as follows:

Long Ton Unit

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE COPPER	REMARKS
15-100	2	.10			.28			0.13	
15-107	3	.30			.20			0.[illegible]	
15-117	2	.40			.32			0.03	
15-130	2	.80			.34			0.03	
15-140	2	.40			.01			0.045	
15-150	2	.90			.03			0.04	
15-160	0	.30		TRACE				[illegible]	
15-167	1	.10			.03			0.025	
15-177	0	.30		TRACE				0.02	
15-182	0	.50			.01			0.05	

$ 182.50 PAID

Assayer

Attachment A-5

No. 880
No. 1808 AR

Date 25 FEB 1988

VALUES
Latest Quotations
Gold 42.90
Silver 1.80
Copper
Lead
Zinc

THIS CERTIFIES
Sample submitted for assay
Kind as follows

Arizona Assay Office

815 NORTH FIRST STREET

Phone: 253-4001

Phoenix, Arizona 85001
P.O. BOX 46

ARIZONA MICHIGAN MINING CO
WATERMARKS
BOX 46 STAR ROUTE
KINGLAND
ARIZONA 86336

Short Ton 2000 lbs
Short Ton Unit 20
Long Ton 2240
Long Ton Unit 22.4

Hole-Footage

MARKS	Gold Per Ton Oz.	Gold Per Ton Troy oz.	Value Per Ton	Silver Per Ton Oz.	Silver Per Ton Troy oz.	Value Per Ton	Total Value Per Ton of Gold & Silver	Copper %	Percent	Percent	Percent	Remarks
	Ag			Au				Cu				
10-155	2.80			.03				0.090				
10-200	5.50			.03				0.180				
10-300 (380)	8.50			.029				0.080				
10-250	10.40			.58				0.075				
10-300	0.40			TRACE				0.015				
10-325	7.20			.033				0.135				
10-340	5.10			.009				0.005				
10-360	12.00			.573				0.140				
10-375	5.60			.055				0.050				
10-400	2.30			.094				0.035				
11-200	2.20			.146 .148				0.40				
11-218	15.80			.034				2.00				
11-235	21.20			.019				0.40				
11-254	15.50			.041				2.31				
11-345	25.72			1.26				0.82				

PAGE # 1

Assayer
JACK S. GUE Reg. No. 5472

MARKS	Gold Per Ton Oz.	Gold Per Ton Troy oz.	Value Per Ton	Silver Per Ton Oz.	Silver Per Ton Troy oz.	Value Per Ton	Total Value Per Ton of Gold & Silver	COPPER				
11-233	8.70			.46				0.50				
11-272	55.70			.27				0.51				
11-283	12.00			1.03				0.80				
11-292	9.00			.52 .53				0.10				
12-200	0.40			TRACE				0.030				
12-310	5.20			.02				0.035				
12-320	5.50			.026				0.015				
12-330	8.30			.030				0.030				
12-342	7.00			.043				0.020				
12-247	2.40			.03				0.040				

Charges $ 182.50 PAID

Assayer

Attachment A-4

Arizona Assay Office

815 NORTH FIRST STREET

Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 3148

ARIZONA MICHIGAN MINING CO

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

Hole-Footage

MARKS	Ag Silver Per Ton Ozs.	Ag Silver Per Ton Tenths	Value Per Ton	Au Gold Per Ton Ozs.	Au Gold Per Ton 100ths	Value Per Ton	Total Value Per Ton of Gold & Silver	Cu Percentage Copper	Remarks
11 - 335	15.	80			.88			0.65	
12-257	1.	30		TRACE				0.10	
12-367	6.	90			.38			0.11	
12-375	4.	80			.01			0.03	
12-390	5.	00			.34			0.14	
14-487	11.	80			.54			0.11	
14-497	13.	00		1.	06			0.075	
14-513	5.	70			.46			0.06	
14-520	8.	70			.40			0.055	
14-526	10.	70			.38			0.09	
14-537	8.	40			.34			0.015	
14-547	7.	30			.46			0.07	
14-553	7.	10			.84			0.05	
14-564	12.	50			.42			0.09	
14-574	8.	70			.28			0.03	

Less $ PAGE # 3 .....

Assayer.....

JACK STONE REG. NO. 3479

USA PRINT

Samples submitted for assay contain as follows:

Long Ton Unit 22.4

MARKS	Ag Silver Per Ton Ozs.	Ag Silver Per Ton Tenths	Value Per Ton	Au Gold Per Ton Ozs.	Au Gold Per Ton 100ths	Value Per Ton	Total Value Per Ton of Gold & Silver	Cu Percentage Copper	Remarks
15-100	3.	10			.28			0.13	
15-107	3.	30			.26			0.032	
15-117	8.	40			.32			0.08	
15-130	2.	80			.14			0.023	
15-140	4.	60			.01			0.049	
15-150	2.	90			.02			0.04	
15-160	0.	80		TRACE				[illegible]	
15-167	1.	10			.03			0.035	
15-177	0.	40		TRACE				0.02	
15-182	0.	60			.01			0.05	

Less ..... 162.50 PAID .....

Assayer.....

USA PRINT

Reg. No. 3479

Shop No. ..... Date .....

File No. .....1809...AM

VALUES
Latest Quotation

1 oz. Gold.....
1 oz. Silver.....
1 lb. Copper.....
1 lb. Lead.....
1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

ARIZONA MICHIGAN MINING CO
MR. K. MESEAKIN
BOX 46
KIRKLAND ARIZONA 86332

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE COPPER			
9 - 132	13	.50		TRACE				0.015			
9 - 140	12	.50		TRACE				0.015			
9 - 150	13	.30		TRACE				0.015			
9 - 159	1	.30		TRACE				0.010			
9 - 167	12	.80		TRACE				0.010			
9 - 177	12	.80		TRACE				0.010			
9 - 185	12	.80		TRACE				0.015			
9 - 195	11	.50		TRACE				0.010			
9 - 199	13	.50		TRACE				0.015			
9 - 222	3	.70		TRACE				0.010			
11 - 230	14	.10		TRACE				0.010			
11 - 240	17	.20		TRACE				0.010			
11 - 267	13	.50		TRACE				0.010			
11 - 277	14	.20		TRACE				0.010			
11 - 305	13	.00		TRACE				0.010			

REGISTERED ASSAYER
STATE OF ARIZONA
DEC. 31, 19

Charges $. PAGE # 1 INVOICE # 1809 AM

Assayer.....

Attachment A-5

PAGE # 2

Shop No. 853

File No. 1809 AM

VALUES
Latest Quotation

1 oz. Gold.....

1 oz. Silver.....

1 lb. Copper.....

1 lb. Lead.....

1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows

Date 5 March 1969

Arizona Assay Office

815 NORTH FIRST STREET

Phone: 253-4001

Phoenix, Arizona 85001

P. O. BOX 1148

Short Ton ..... 2000 Lbs.

Short Ton Unit ..... 20 Lbs.

Long Ton ..... 2240 Lbs.

Long Ton Unit ..... 22.4 Lbs.

ARIZONA MICHIGAN MINING CO

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON	TOTAL VALUE PER Ton of Gold		Copper		REMARKS
11 - 322	12	8		TRACE					[illegible]	.02	
11 - 347	12	7		TRACE					0.015	0.015	
11 - 357	17	3			.01				0.015	0.015	
11 - 387		5.8		TRACE					[illegible]	0.010	
11 - 395	13	8		TRACE					[illegible]	0.010	
✓ 12 - 300	13	0		TRACE					0.200	0.200	
✓ 12 - 310	15	7		TRACE					[illegible]	0.040	
✓ 12 - 320		6.0		TRACE					0.050	0.050	
✓ 12 - 330	14	1			.01				0.060	0.060	
✓ 12 - 337	15	1		TRACE					0.100	0.100	

Charges $ 162.50 PAID

Assayer.....

JACK STONE REG. No. 5479

ANDY CHUKA, PRINT

REGISTERED ASSAYER ARIZONA, U.S.A. DEC. 31, 19[illegible]

Attachment A-6

File No. 1300-A-H

VALUES
Latest Quotation

1 oz. Gold.....
1 oz. Silver.....
1 lb. Copper.....
1 lb. Lead.....
1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

ARIZONA MICHIGAN MINING CO
KIRKLAND ARIZONA

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON		GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON		TOTAL VALUE PER TON of Gold & Silver		PERCENT (10TH-ED)				REMARKS
13 - 348	15.	00			TRACE						1.40				
13 - 357	14.	70			TRACE						1.41				
13 - 000 376	3.	20			TRACE						0.03				
13-395	14.	40			[illegible]						1.50				
13-395	14.	40			[illegible]						0.01				
**********															
14 - 705	15.	10			1.	10					0.10				
14 - 715	3.	60			TRACE						0.10				
14 - 730	7.	80			TRACE						0.015				
14 - 750	14.	[illegible]			[illegible]						[illegible]				
14 - 747	1[illegible].	[illegible]			[illegible]						0.020				
14 - 755	7.	00			[illegible]	10					0.020				
14 - 760	14.	00			[illegible]	08					0.30				
14 - 775	4.	50			TRACE						0.010				
14 - 785	7.	70			TRACE						0.010				
14 - 795	4.	40			1.	01					0.010				

PAGE # 3

Charges $ INVOICE #1300-A-H

Assayer.....
JACK STONE Reg. No. [illegible]

ANDY CHUKA, PRINT

Attachment A-7

Attachment A-7

PAGE # 4

Shop No. 853
File No. 1809 A K

Date 5 March 1969

VALUES
Latest Quotation

1 oz. Gold
1 oz. Silver
1 lb. Copper
1 lb. Lead
1 lb. Zinc

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

ARIZONA MICHIGAN MINING CO
KIRKLAND ARIZONA

Short Ton ..... 2000 Lbs
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	Tenths	VALUE PER TON	GOLD PER TON Ozs.	100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE COPPER	REMARKS
15 - 90	3	60			.03			0.010	
15 - 126	2	40		TRACE				0.005	
15 - 210	13	80		TRACE				0.010	
15 - 230	12	70		TRACE				0.010	
15 - 252	12	00		TRACE				0.010	
15 - 303	12	60		TRACE				0.010	
15 - 312	10	40		NIL				TRACE	
15 - 318	13	20		TRACE				0.005	
15 - 332	13	70		TRACE				0.010	
15 - 342	13.40			TRACE				0.005	

Charges $ 162.50 PAID

ANDY CHUKA, PRINT

Assayer

JACK STONE REG. No. 3479

Attachment A-8

3220 East 46th Street Sample Pulps from AM min. Co. Attachment B-1 Phone 624-00

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 9 122-132	.006	1.22						
132-140	.022	1.74						
140-150	.016	2.44				203-212		
150-159	.010	3.22				212-222		
159-167	.012	1.70				222-232		
167-177	.010	3.24				232-242		
177-185	.006	2.76				242-252		
185-195	.020	3.02	X			352-362 452-462 472-482		
195-199	.004	1.90						
199-205	.006	3.94						
Hole 11 222-227	.008	2.90						
230-235	.012	4.24						
240-245	.016	6.46						
247-252	.020	2.86						
257-262	.036	5.84						
267-272	.010	4.02						
277-283	.012	3.46						
287-293	.014	5.62						
295-300	.008	2.22						
305-310	.010	2.96						
315-320	.012	6.40						
330-335	.010	4.36	X					
342-347	.008	4.06						
352-357	.010	5.02						
360-365	.008	5.44						

REGISTERED ASSAYER CERTIFICATE NO. 6352 PETE S. FLORES Date Signed Arizona U. S. A.

CHARGES $

Pete S. Flores
ASSAYER - CHEMIST

3226 East 46th Street Attachment 8-2 Phone 624-0

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 8571

SAMPLE SUBMITTED BY American Smelting & Refining Company DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 11 370-375	.016	3.96						
380-385	.010	4.62						
390-395	.008	3.80						
400-405	.006	3.54						
407-412	.018	6.98						
Hole 12 300-305	.006	3.56						
310-315	.010	4.66						
320-325	.008	6.72						
330-335	.014	3.22						
337-342	.012	7.12						
348-353	.024	2.42	X					
357-362	.006	2.82						
376-381	.004	3.84						
385-391	.006	4.72						
395-400	.018	4.06						
Hole 14 100-105	.092	1.08	X					
107-112	.030	3.06	X					
117-122	.076	5.62						
130-135	.090	1.82						
140-145	.050	2.94						
150-155	.008	1.52						
160-165	.060	0.78						
167-172	.036	0.78						
177-182	Trace	0.06						
192-197	.004	0.82						

REGISTERED ASSAYER CERTIFICATE NO. 6352 PETE S. FLORES Oak Street Arizona U. S. A.

Pete S. Flores

CHARGES $

3225 East 46th Street Attachment B-3 Phone 624-00

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 14 200-205	1.350	10.90	X					
262-267	.280	8.02						
292-299	.580	10.62						
300-305	.006	0.08						
310-315	.078	3.32						
320-325	1.010	3.94						
330-335	.360	5.78						
342-347	.100	3.98						
347-352	.120	3.74						
357-362	.008	0.04						
367-372	.120	6.46						
375-380	.110	1.90						
385-390	1.720	3.12	X					
392-397	.510	5.80						
402-407	.180	9.48						
412-417	.310	11.38						
422-427	.280	2.56	X					
432-437	2.280	13.88						
442-447	Trace	0.08						
452-457	.240	6.16						
460-465	.980	13.06						
467-472	.430	4.96						
477-482	.780	9.62						
487-489	.460	8.14						
512-514	.920	11.44						

REGISTERED ASSAYER CERTIFICATE NO. 6352 PETE S. FLORES Date Signed 1-16-69 Arizona U. S. A.

CHARGES $

Pete S. Flores
ASSAYER-CHEMIST

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 14 520-522	.970	5.62						
526-528	.420	8.54						
537-539	1.430	10.18						
547-549	1.160	6.32	X					
562-564	.770	7.30						
574-576	.220	5.36						
597-612	.760	9.52						
612-622	2.040	19.64						
622-630	.870	16.08						
630-642	1.610	8.32						
642-655	.590	16.12						
655-664	6.820	13.04	X					
664-675	2.050	27.80						
675-682	.280	5.40						
682-697	.006	0.06						
697-700	1.750	21.54						
705-710	.500	10.64						
715-720	.012	4.06						
730-735	.016	9.68						
738-743	.220	5.46						
747-752	.390	22.42						
755-760	.014	6.26						
766-771	1.180	13.56	Y					
775-780	.018	4.08						
785-790	.010	5.20						

REGISTERED ASSAYER
CERTIFICATE NO. 6352
PETE S. FLORES
Date Signed
Arizona U. S. A.

CHARGES $

Pete S. Flores
ASSAYER-CHEMIST

3226 East 46th Street Phone 624-00-

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company DATE Mar. 18, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
Hole 14 795-800	.010	4.56						
Hole 15 90- 95	.008	2.54						
97-102	.008	3.22						
102-107	.010	2.70						
112-117	Trace	0.08						
118-123	.006	3.24						
126-131	.010	1.36						
133-137	.016	2.84	X					
137-142	.010	2.50						
152-157	.012	2.70						

REGISTERED ASSAYER CERTIFICATE NO. 6952 PETE S. FLORES Date Signed 3-18-69 Arizona U.S.A.

CHARGES $ 357.50

Pete S. Flores
ASSAYER - CHEMIST

Check assays on Pulps from [illegible] via dom. analysis.

Attachment C

J.D.S

J.H.C

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

MAR 27 1969

1700 WEST GRANT ROAD - TELEPHONE 622-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

Registered Assayers

K.V.D.S.

MAR 27 1969

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Zinc %	Mo. %			

CC:
ADD:
CITY:
ADD:
CITY:

REMARKS:

Analysis Cert. By

Preparation $
Analysis $

ACC:

Date Spl. Received

Date Compl.

26

$

Attachment E JDS

3226 East 46th Street Surface Samples Phone 624-004

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company DATE March 13, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
SC - J - 1	.003	0.09						
SC - J - 2	.002	0.12						
SC - J - 3	.002	0.08						
SC - J - 4	.002	0.09						
SC - J - 5	.002	0.05						
SC - J - 6	Trace	0.07						
SC - J - 7	.005	0.03						
SC - J - 8	.003	0.11						
SC - J - 9	.003	0.11						
SC - J - 11	.004	0.09						
SC - J - 12	Trace	0.13						
SC - J - 13	Trace	0.14						
SC - J - 14	.005	0.09						
SC --J - 15	.005	0.09						
SC - J - 16	.003	0.10						
SC - J - 17	Trace	0.18						
SC - J - 18	.002	0.16						
SC - J - 19	.003	0.12			Silver Crown			
SC - J - 20	.004	0.19			outcrop samples			
SC - J - 21	Trace	0.17						
SC - J - 22	.003	0.13						
SC - J - 23	.002	0.12						
SC - J - 24	.002	0.22						
SC - J -3A	.003	0.17						
SC - J - 4A	Trace	0.19						

REGISTERED ASSAYER CERTIFICATE NO. 6852 PETE S. FLORES Date Issued Arizona U.S.A.

CHARGES $ 93.75

Attachment I

"Ore Bin" Sample
No. 4 Level – Underground.

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY American Smelting & Refining Company

DATE Mar. 19, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	
SC – J – 75	.025	8.22	0.67			.002		

REGISTERED ASSAYER
CERTIFICATE NO. 6852
PETE S. FLORES
Date Signed
Arizona U. S. A.

Surface Samples Check Assays.

Attachment G

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

Registered Assayers

1700 WEST GRANT ROAD - TELEPHONE 622-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

K.V.D.S.
MAR 21 1969

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Zinc %	Mo. %	Research Spectrograph	
SC-J 7	< 0.005	Nil						
SC-J 8	< 0.005	Nil						
SC-J 9	Nil	Nil						
SC-J 18	< 0.005	Nil						
SC-J 24	Nil	0.03						
Composite: SC-J 7, 8, 9							To follow	
	5 Au & Ag, singles @ $4.00							$ 20.00

CC: Mr. J. H. Courtright
ADD: AMERICAN SMELTING & REFINING COMPANY
CITY: P. O. Box 5795
ADD: Tucson, Arizona 85703
CITY:

REMARKS:

Analysis Cert. By

REGISTERED ASSAYER

Preparation $

Analysis $ 20.00

ACC:	Date Spl.	Date		$
AMERICAN SMELTING & REFINING CO	3/19/69	3/20/69	TUC 34254	20.00

H

Surface Sample Composite

Attachment H

next Dept.

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

Registered Assayers

1700 WEST GRANT ROAD - TELEPHONE 622-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

Spectrograph

J.H.C.

APR 4 1969

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

K.V.D.S.

APR 4 1969

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Zinc %	Mo %	
ELEMENTS:	Composite: SC-J 7, 8, 9				ELEMENTS:		Composite: SC-
Silver *	< 0.0005%				Nickel *		< 0.01
Aluminum	4.3				Phosphorus		< 0.1
Arsenic *	< 0.01				Lead		< 0.01
Boron	0.004				Rubidium *		< 0.1
Barium	0.40				Antimony *		< 0.01
Beryllium *	< 0.0001				Silicon		37.00
Bismuth *	< 0.001				Tin *		< 0.001
Calcium	0.45				Strontium		< 0.01
Cadmium *	< 0.01				Tantalum *		< 0.1
Cerium *	< 0.01				Tellurium *		< 0.01
Cobalt *	< 0.0001				Thorium *		< 0.1
Chromium	0.06				Titanium		0.056
Cesium *	< 0.1				Thallium *		< 0.1
Copper	0.008				Uranium *		< 0.1
Iron	2.3				Vanadium		0.03
Gallium *	< 0.01				Tungsten *		< 0.1
Germanium *	< 0.001				Zinc *		< 0.01
Indium *	< 0.001				Zirconium		0.065
Potassium	Trace				Gold *		< 0.005
Lithium *	< 0.01				Rare Earths		Nil
Magnesium	0.85						
Manganese	0.65						
Sodium	0.65						
Niobium *	< 0.03						
Molybdenum *	< 0.001						

Gen Expl.
(Silver Crown)

APPROVED FOR PAYMENT
By: J. H. Courtright
(Signature)

* Not detected

3 samples composited @ $.20
1 research spectrograph @ $20.00

REGISTERED $0.60
20.00

CC: American Smelting & Refining Company
ADD: P. O. Box 5795
CITY: Tucson, Arizona 85703
ADD: Attn: J. H. Courtright
CITY:

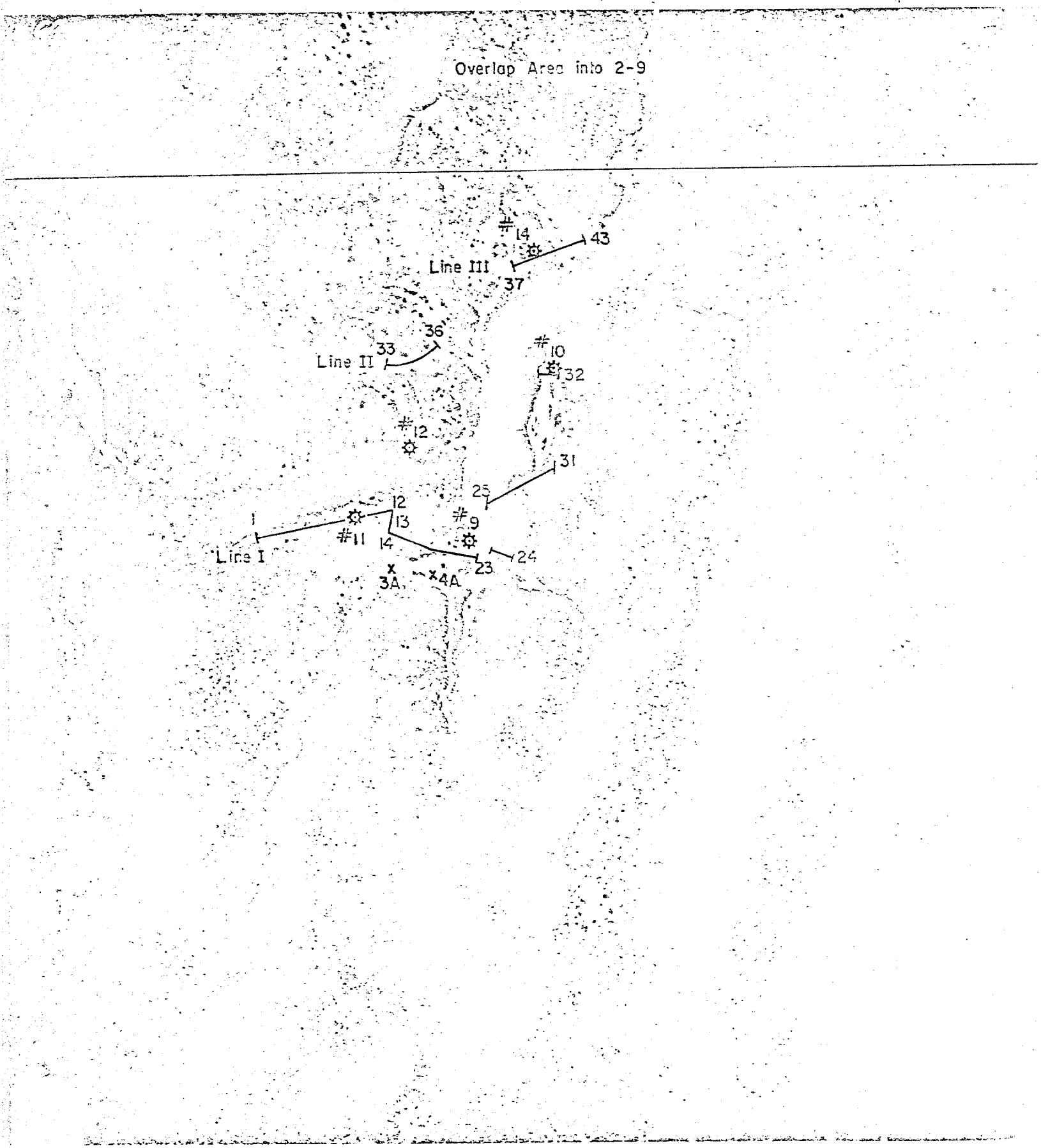
REMARKS:

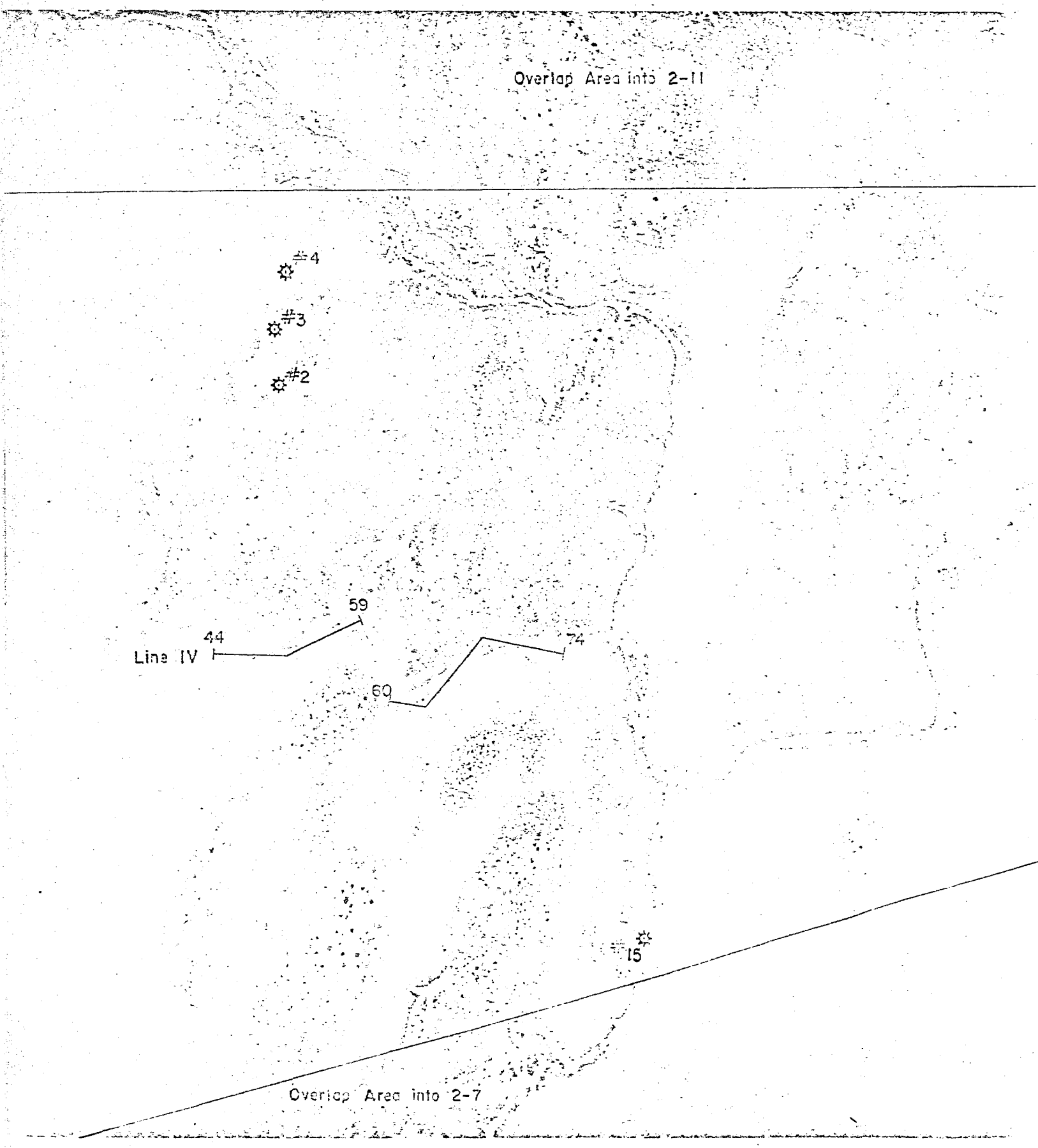
Research spectrograph

Analysis Cert. By

Spectrograph 20.00
Compositing .60
Preparations
Analysis $

ACC	Date Spl. Received	Date Compl.		$
AMERICAN SMELTING & REFINING COMPANY	3/19/69	4/2/69	TUC 342541-A	20.60


Overlap Area into 2-9
#14
43
Line III
37
36
33
Line II
#10
32
#12
31
25
12
13
#9
1
#11
14
Line I
24
23
3A
4A


Overlap Area into 2-11
#4
#3
#2
59
44
Line IV
74
60
#15
Overlap Area into 2-7

Overlap Area Info 2-3

Attachment K-1

REPORT ON CORE
WELL, No.8
SILVER CROWN MINE,

AT THE TIME I STARTED MY REPORTS ON WELL NO. 8. THE DRILLING HAD BEEN STARTED AND WAS DRILLED TO A DEPTH OF 327,Feet. AT THIS POINT I BEGAIN TAKING CORE SAMPLES: ON THEESE I BEGAIN A CERES OF TEST'S TO DETERMEN THE TYPE OF ORE AND IT'S COMMPONANTS, AT THE SAME TIME GOING OVER THE INTIRE AREA OF THE SILVER CROWN MINING PROPERTY, TAKING SAMPLES AT RANDUM: ON THEESE I ALLSO RAN A CERES OF TEST'S: DURING THIS TIME I ALLSO EXPLORED UNDER GROUND IN-SIDE THE MINE : EACH TUNNEL DOWN BOTHE SHAFTS, TAKING SAMPLES AT RANDUM FOR THE PURPOES OF TESTING:

BY GEOLOGICAL STUDY THE GEOCHEMICAL ANALYSIS AND THE QUALITATIVE CHEMICAL TESTS PERFORMED IN THE LABORATORY BY ME, I WAS ABLE TO DE-TERMIAN THE TYPE OF STRUCTURE AND THE MINERAL CONTENT OF THIS IMMEDIATE ORE BODY:

THE ORE OCCURS IN A BELT OF PRE-CAMBRIAN SERICITE-SCHIST THAT HAS BEEN INTRUDED BY A MONZONITE PORPHYRY ;
Being broken up in the Mesozic age and pushed up by the Magma during the disturbance of the earth in the latter Tertiary Geologic period Thus placing in this area nugerous mineral viens of copper lead silver and gold and there componants to make up this complex mineral zone that we are now working with, By working with and the many tests performed by me in the laboratory of ore samples taken at random of the intire area of the Silver Crown Mining propert, i have found a very wide range of values on the surface. Exploring below the surface i find the mineral increasing in value as well as increasing in quantity,the mineral viens tend to widen and increase in value with depth,

there for i believe a massive ore body does exist below the Silver Crown property, I have had the privilidge to explore and test many ore deposits throughout the state of Arizona, Allso i have studied the mineral history of Arizona dateing back in to the early eighteen hundreds particularly the Bradshaw and the weaver mountain areas. through this extensive study i do know that

Silver in Arizona is found in 5 principal types of deposits;

No.I. A Sericite- Schist; A Metamorphic crystalline rock having a very fine silky texture being a closely foliated structure and admitting of division along approximately parallel planes.

No.2. A Monzonite-porphyry; A granular igneous rock of porphyritic texture, composed of plagioclase and orthoclase in about equal quantities together with Augite and a little Biotite.

No.3. Those containing Galena with Barite gangues;

No.4. Those with Galena in carbonate-quartz gangues;

No.5. Those with Silver and Gold in quartz gangues;

The principal Silver minerals include Argentite(Ag_2S). Cerargyrite($AgCl$), Bromyrite($AgBr$), Embolite($Ag,BrCl$), and native Silver(all supergene) and Prousite($2Ag_2S.As_2S_3$). Stephanite($5Ag_2S.Sb_2S_3$). Pyragyrite($3Ag_2S.Sb_2S_3$). and Hessite containing Tellurium.

In the weaver and the Bradshaw mountains Silver has been mined near the crest in a flat crescent shaped belt from Groom Creek to Castle Creek at the southern tip of the range.

It includes parts of the Groom Creek, Big Bug Creek, Crown King, Tiger, Hassayampa river, Turkey Creek, Peck, Silver mountain, Walker, Humbug, Tip Top and Tuscumbia districts.

Silver-Gold veins are common in the west portion of the Bradshaws and east-south portion of the Weaver mountains.

These usually are typical fissure veins with well defined walls.

Barite is a common gangue, sphalerite, chalcopyrite, some pyrite and tetrahedrite (argentiferous) in the primary zone.

Many types of veins parallel dikes that cut the pre-cambrian rocks. Much of the ore has come from lenses or pockets, these being pushed up by the Magma and then deposited, During the latter part of the Tertiary Geologic period, Being in the Mesozic age.

The present water table ranges from 90 feet to about 550 feet below the surface and the quantity of water is small.

Making the mining in this area worthwhile.

It is estimated that in the oxidized zones of many Silver veins the ore ranged from about $50.00 to $500.00 per. ton. This usually contrasted with primary ore that perhaps $10.00 to $20.00 per ton. Since most of the veins have been exploited only down to the water table, the chance of a new high-grade discovery is highly possible, The possibility of hidden deposits still remains.

The values that have been found thus so-far in this area are principally due to strong enrichment, controlled by fluctuation of the water table in late Tertiary Geologic period.

Below the enrichment, the protore where tested is very high-grade.

This vein system converges on the southwest end of the Silver Crown property, against a major fault; Thus extending in a northeasterly direction for approximately seven, thousand feet, the width of this structure being approximately two thousand five hundred feet,

No systematic drilling has been done in this area until very recently and now that it has been done, It may cause much speculation as to what ore bodies do exist below the water table.

The only way to find concrete evidence of a large ore mass being below the water table is to explore in a syntific manner;

The only core; well that was drilled in a proper manner on the Silver Crown property, is well No.8, Had wells No.I. through No.7. been drilled in the manner No.8 well was drilled, there would be no speculation as to the size, or extent of the ore body that does exist at the depth well No. 8, has exposed,

I beleive all future exploration of the Silver Crown should be done with electronics; useing a method and apparatus for conducting geophysical explorations with the capability of reaching at least 2,000 feet depth.

I base this upon the results of the labortory tests and the mineral samples in the three boxis that i have here with me today.

Signed; [illegible]

Attachment L-1

ARIZONA HIGHLAND MINING CO., INC.

May 21, 1968

The following is a brief summary of the Annual Meeting held on May 15, 1968. The Directors meeting that followed and the most recent report made by our geologist, Kenneth E. Eakin.

Directors express their appreciation to those stockholders who attended the meeting in person. We also thank all stockholders who mailed us their proxies in time to be represented at the stockholders meeting. All Directors were re-elected, now fourteen in number. The vacancy, created by the untimely passing of Rome R. Root, was never filled. We acknowledge his contributions in our behalf and regret he is not here to share in our great victory. Directors re-elected former officers for the ensuing year.

The following report is recorded as given to the stockholders by our new geologist, Kenneth E. Eakin. A brief introduction follows: Ken is a native son of Arizona, was born and grew up in the area quite near our own property. He graduated from Arizona School of Mines as a mining engineer. Mr. Eakin has traveled extensively throughout the world and has an enviable reputation as a recognized geologist. Employment has been by Kennicott Copper, Bethlehem, and other major companies. Ken is now working full time with us and has established a home within walking distance of our property.

He states as follows:

Dear Mr. Smith:

During the month of March 1968 I conferred with L. V. Rayner on the possibilities of the ore bodies and minerals of the property known as the Silver Queen Mining Company, Yavapai County, State of Arizona. Mr. Rayner asked me to go over the property in a geological manner, and informed me at the time they were core drilling. I went over those core drill reports with Mr. Rayner, and immediately I noticed from the reports there was no systematic manner of drilling being done. Therefore, Mr. Rayner asked me to please advise as to how this system should be done, and by a geological theory I explained how the drilling should be.

I therefore asked permission of Mr. Rayner to take over this well drilling operation for the purpose of drilling to a deeper depth than had been drilled in the other seven wells.

I immediately started taking samples of the other cores that came from Wells 1 through 7. I taken by laboratory for the purpose of chemical analysis on the cores, and the samples I took to represent of the entire property.

Well Hole on Well No. 8 - At the depth of 1,50 feet - Silver ran 8.09%, Gold trace; Lead 2.07%; Antimony 1.03%. At a depth of 8,8 feet Silver ran 11.05%; Gold 0.03%; Lead 2.07%; Antimony 2.03%

At the depth of 1119 feet Silver ran 11.5%; Gold 0.03%, Sulphur 0.07%; Iron 0.02%; Antimony 1.05%.

At 1257 feet I encountered Argentite. The Argentite assayed at about 20%, and the Gold ran 14.18 ounces per ton.

I then packaged a slurry (drilling residue) sample, and mailed this sample to the Arizona Assayers of Phoenix, Arizona. The report I received from this assay office read as follows: Silver 89.52 ounces per ton; Gold 14.13 ounces per ton; Copper a minor trace. Also I mailed samples from inside the mine Seen Level No. 2 for which Silver ran 63.70 ounces per ton, and Gold 0.12 ounces per ton. From Drift No. 4 inside the mine the Silver ran 33.40 ounces per ton. and Gold .04 ounces per ton. Total values ran a little over $700.00 per ton on the over-all assay.

I then proceeded to take a measurement of the out-cropping structure of the entire area of the Silver Crown Mining property. I found the ore body out-cropping measuring some 7,000 feet in length and the width being around 2,500 feet. The out-croppings are very prominent. Evaluations vary somewhat from a low grade on the surface, descending with depth, and the values mounting higher by depth as far as this property has been exploited.

(Comment by Secretary: Our own studies in geochemical analysis and infrared photography over the past two years definitely indicated where core drilling should be done and positively proved the worth of our own studies.)

REPORT ON CORE
Well No. 8
SILVER CROWN MINE

At the time I started my reports on Well No. 8 the drilling had been started and was drilled to a depth of 387 feet. At this point I began taking core samples; on these I began a series of tests to determine the type of ore and its components, at the same time going over the entire area of the Silver Crown Mining property, taking samples at random. On these I also ran a series of tests; during this time I also explored underground inside the mine; each interval down both shafts, taking samples at random for the purpose of testing.

By geological study the geochemical analysis and the qualitative chemical tests performed in the laboratory by me, I was able to determine the type of structure and the mineral content of this immediate ore body.

The ore occurs in a belt of pre-cambrian sericite-schist that has been intruded by a monzonite porphyry, being broken up in the mesozoic age and pushed up by the Laramie during the disturbance of the earth in the latter Tertiary Geologic period; thus placing in this area numerous mineral veins of copper, lead, silver and gold, and their components to make up this complex mineral zone that we are now working with. By working with and the many tests performed by me in the laboratory of ore samples taken at random of the entire area of the Silver Crown Mining Property I have found a very wide range of values on the surface. Descending below the surface I find the mineral increasing in value as well as in mounting in quantity; the mineral veins tend to widen and increase in value with depth.

Therefore, I believe a massive ore body does exist below the Silver Crown property. I have had the privilege to explore and test many ore deposits throughout the State of Arizona. Also I have studied the mineral history of Arizona dating back into the early eighteen hundred, particularly the Bradshaw and the Weaver Mountain areas. Through this extensive study I do know that Silver in Arizona is found in 5 principal types of deposits:

No. 1 - A sericite-chlorite: A metamorphic crystalline rock having a very fine, silky texture, being a closely foliated structure and exhibiting of division along approximately parallel planes.
No. 2 - A monzonite-porphyry: A granular igneous rock of porphyritic texture, composed of plagioclase and orthoclase in about equal quantities together with biotite and alkali chlorite.
No. 3 - Veins containing Galena with barite gangue.
No. 4 - Veins with Galena in carbonate-quartz gangue.
No. 5 - Veins with Silver and Gold in quartz gangue.

The principal Silver minerals include argentite, Cerargyrite, Proustite, Kobellite, and native Silver and Freieslebenite. Stephanite, Pyrargyrite, and Hessite containing Selluridum.

Arizona Michigan Mining Company

Many types of veins have travelled either that out the pre-existing veins. Much of the ore has come from lenses or pockets, these being packed up by the lava and then expelled during the latter part of the Tertiary Geologic period, being broken up in the Recent age.

The present water table ranges from 50 feet to about 350 feet below the surface and the quantity of water is small, making the mining in this area certainly. The values that have been found thus so far in this area are principally due to strong enrichment, probably brought by fluctuation of the water table in the late Tertiary Geologic period.

Below the enrichment the pyrite there tested is very high-grade. This vein system ranges on the southeast end of the Silver Crown property, against a major fault that ends in a northwesterly direction for approximately seven thousand feet; the vein of this structure being approximately two thousand five hundred feet. The only way to find concrete evidence of a large ore mass being below the water table is to explore in a substantial manner.

I believe all future exploration of the Silver Crown should be done with electronic, using a reliable and competent ore sampling; geological exploration with the cooperation of experts at about 2,000 feet depth.

I have this week the results of the laboratory tests and the mineral samples in the Silver Queen I have been with me today."

Signed: R. P. Lutz
R. P. Lutz

End of quote.

It should be noted here that Mr. Lutz's report is the pertinent parts of his report and should be read carefully as the values indicated in his report on drill hole number eight are to easily overlooked.

Following our check we secured yours and Mr. O'Leary's conclusions, we should speculate, through your knowledge of the Tertiary of Mines, he has aided to depth as to our geological work. As the result Mr. O'Leary has no considerable confidence in the beginning of his exploration, which was one day work. Later it proved a little lenses to be not giving us the ore in the amount of the bandolier. This helps, are the ore, we have made the discussion of Mr. O'Leary the ore geologist charged with its responsibility. Shortly there after I started to the maximum depth to show the total ore body on exploration. Further the results have the Executive Time dividends to the State, Mr. Rogers, will be had had enough and would place the drill hole of his ore shoulder and set the drill angle himself. The question of this hole has been just tried - [illegible] to say, Mr. O'Leary has been discharged.

The Board of Directors have decided to complete final tests to outline the total ore body. Following that, major properties will be allowed to consider the property and have access to all [illegible] and tests. Offers will be considered if they are acceptable to our organization of which. The Executive Task for a buyer to consider to our Company and the [illegible] of company, should be that which [illegible] with [illegible] to outline our tests. In the meantime it will take several

Long as to your study, which reached the time in the mind and to tests very very good.

Respectfully yours,
W. C. Zeh, Secretary

ARIZ.-ATCH.
MINING CO. INC.

Well NO.8

Feet	Angle of Drill
I5	88
I00	86
200	84
300	82
400	78
500	74
600	70
700	68
800	63
900	6I
I000	58
II00	54
I200	52
I254	50

Well NO.9	Assay AG.	AU.	CU.
0	86		
50	85		
I00	84		
I50	83	13.20	TR.	0.015
200	82	13.50	TR.	0.015
250	80		
300	77		
350	75		
400	7I		

Well NO.IO	Assay AG	AU	CU
0	86		
I00	83		
I50	8I	2.90	.05	0.050
200	80	5.50	.05	0.I60
250	78	I0.40	.58	0.075
300	76	10.40	TR.	0.0I5
350	73	I2.00	.72	0.I40
400	69	9.60	.94	0.095

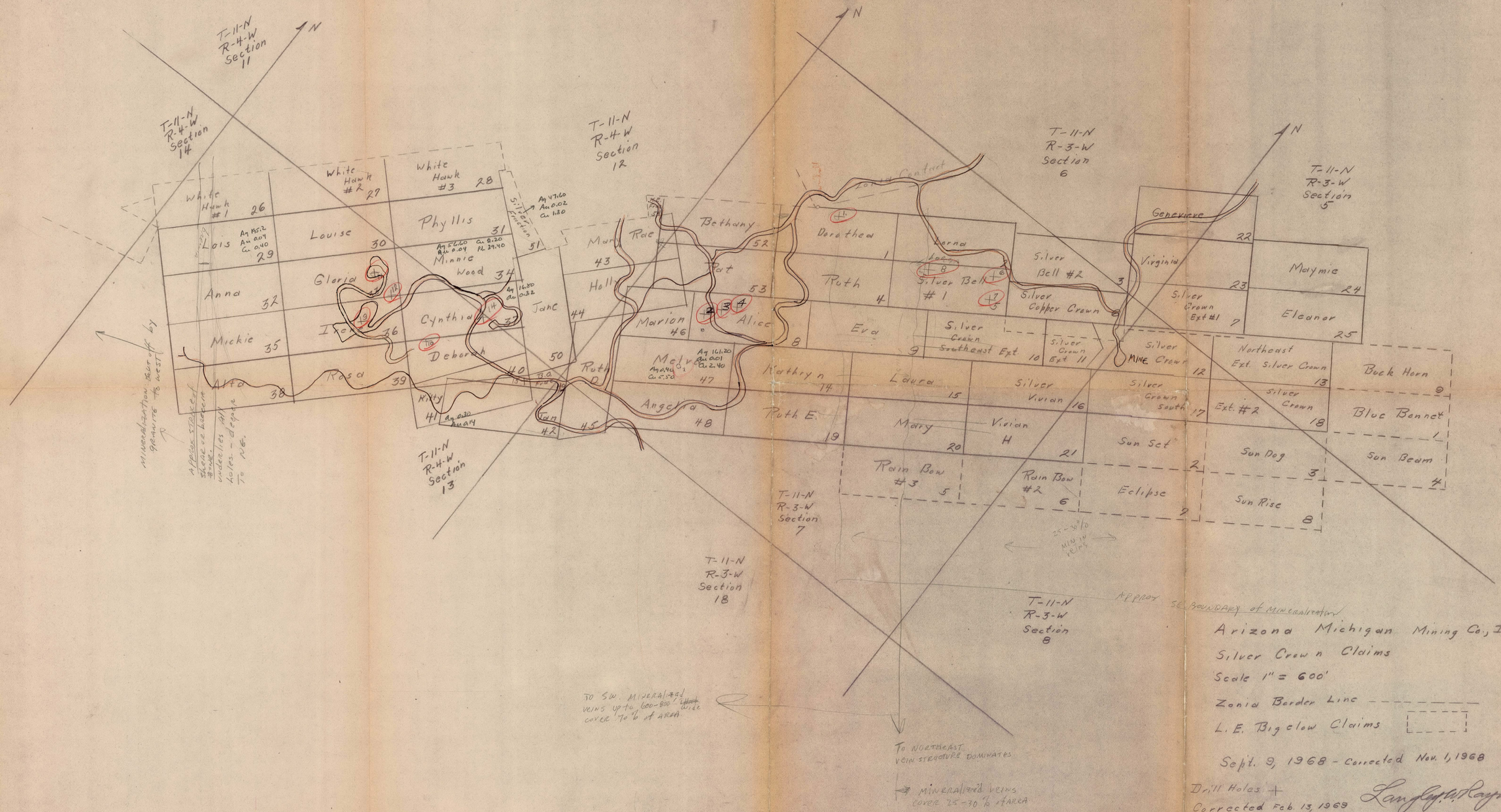
Well NO.II	Assay AG.	AU.	CU.
0	86		
50	85		
I02	85		
I65	84		
227	83	I6.90	.34	2.00
260	83	6.70	.14	0.30
3I5	82	I2.80	TR.	0.020
364	82	I7.20	.0I	0.0I5
385	8I	I5.80	TR.	0.0I0
4I0	8I		
475	80		
500	78		

Well NO.I2 Feet	Angle of Drill	Assay AG.	AU.	CU.
0	90		
I00	90		
200	90		
332	90	I4.I0	.0I	0.080
347	89	[illegible]	TR.	0.I00
360	88	I5.I0	.05	0.095
372	87		
394	86		
402	85		

Well NO.I3	Assay AG.	AU.	CU.
0	86		
55	85		
I05	84		
I52	8I		
200	80		
252	78		
30I	76		
355	75		
403	73		

Well NO.I5	Assay AG.	AU.	CU.
0	75		
52	74		
I02	72	2.I0	.28	0.I3
I52	70	2.90	.02	0.04
200	69	0.90	.0I	0.05
252	67		
300	64		
35I	6I		
404	58		
490	55		
525	54		
552	52		
567	5I		

Kenneth E. Eakin
S P Box 46
Kingman, Arizona
Send him Teeny Meanous's
Address.



Arizona Michigan Mining Co, Inc.
Silver Crown Claims
Scale 1" = 600'
Zonia Border Line
L.E. Bigelow Claims

Sept. 9, 1968 - Corrected Nov. 1, 1968

Drill Holes +
Corrected Feb. 13, 1969
J.W.R.

Langley A. Raymer