



CONTACT INFORMATION

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EXHIBIT NO. ISILVER CROSS MINECHECK SAMPLE LOCATIONS AND WIDTHS

| <u>SAMPLE NO.</u> | <u>LOCATION</u> | <u>WIDTH</u> |
|-----------------------|---|--------------|
| 960 | X-cut, horizontal channel across face, fl + 4' | 5' |
| 961 | East drift, Horizontal channel across face, fl + 4' | 6' |
| 962 | East Drift, S.wall, horizontal channel 20-25' | 5' |
| 963 | West drift, Horizontal channel across face, fl + 4' | 4.5' |
| 964 | West drift, S. Wall, Hor. channel 90-95' | 5' |
| 965 | West Drift, S. Wall, Hor. channel 50-55' | 5' |
| 966 | East Drift, N. wall, 0 + 35' Vertical chip | 7.4' |
| 967 | East Drift, N. wall, 0 + 30' Vertical chip | 8.4' |
| 968 | East Drift, N. wall, 0 + 25', vertical chip | 7.0' |
| 969 | East Drift, N. wall, 0 + 20', Vertical chip | 5.7' |
| 970 | East Drift, N. wall, 0 + 15', Vertical chip | 5.2' |
| 971 | East Drift, N. Wall, 0 + 10', Vertical chip | 5.0' |
| 972 | West Drift, South Wall, 0 + 100', Vertical chip | 7.0' |
| 973 | West Drift, South Wall, 0 + 80', Vertical Chip | 7.6' |
| 974 | West Drift, South Wall, 0 + 70', Vertical chip | 6.7' |
| 975 | West Drift, South Wall, 0 + 60', Vertical Chip | 7.7' |
| 1743 | West Drift, South Wall, 0 + 40', Vertical Chip | 6.6' |
| 1744 | West Drift, South Wall, 0 + 30', Vertical Chip | 6.7' |
| 1745 | X-Cut, East Wall, 5'10', Horizontal Chip | 5' |
| 1746 | X-Cut, East Wall, 10-15', Horizontal Chip | 5' |

CHECK SAMPLE LOCATIONS AND WIDTHS (CONT'D)

| <u>SAMPLE NO.</u> | <u>LOCATION</u> | <u>WIDTH</u> |
|-----------------------|--|--------------|
| 1747 | X-Cut, East Wall, 15-20', Horizontal Chip | 5' |
| 1748 | X-Cut, East Wall, 20-25', Horizontal Chip | 5' |
| 1749 | X-Cut, West Wall, 25-30', Horizontal Chip | 5' |
| 1750 | X-Cut, West Wall, 30-35', Horizontal Chip | 5' |
| 572 | X-Cut, West Wall, 35'-40', Horizontal Chip | 5' |
| 571 | 2nd Surface Cut, See Topo Map | 10' |
| 570 | 3rd Surface Cut, See Topo Map | 10' |
| 569 | Dozer Cut, See Topo Map | 18' |
| 568 | 1st Surface Cut, See Topo Map | 15' |

EXHIBIT NO. II

Page 2

| Sample No. | GOLD | | SILVER | | COPPER | | Combined Au, Ag Value | Combined Au, Ag, Cu Value |
|---------------|---------|--------|---------|-------|--------|-------|--------------------------|------------------------------|
| | Oz./Ton | Value | Oz./Ton | Value | % | Value | | |
| 1745 | 0.89 | 133.50 | 0.70 | 2.80 | 0.63 | 10.08 | 136.30 | 146.38 |
| 1746 | 0.78 | 117.00 | 0.95 | 3.80 | 0.52 | 8.32 | 120.80 | 129.12 |
| 1747 | 0.64 | 96.00 | 1.75 | 7.00 | 0.31 | 4.96 | 103.00 | 107.96 |
| 1748 | 0.29 | 43.50 | 6.20 | 24.80 | 0.24 | 3.84 | 49.70 | 53.54 |
| 1749 | 0.06 | 9.00 | 0.60 | 2.40 | 0.14 | 2.24 | 11.40 | 13.64 |
| 1750 | 0.27 | 40.50 | 0.45 | 1.80 | 0.46 | 7.36 | 42.30 | 49.66 |
| 572 | 0.43 | 64.50 | 0.65 | 2.60 | 0.04 | 0.64 | 67.10 | 67.74 |
| 571 | 0.30 | 45.00 | 0.40 | 1.60 | 0.06 | 0.96 | 46.60 | 47.56 |
| 570 | 0 | - | 0.30 | 1.20 | 0.03 | 0.48 | 1.20 | 1.68 |
| 569 | Tr. | - | 0.50 | 2.00 | 0.02 | 0.32 | 2.00 | 4.00 |
| 568 | 0.26 | 39.00 | 1.25 | 5.00 | 0.15 | 2.40 | 44.00 | 46.40 |

SILVER CROSS MINE

SAMPLE ASSAY ANALYSIS

A.1 WEST DRIFT. Based on sampling of muck from drift rounds (Refer to Assay Map)

| <u>Sample No.</u> | <u>Width</u> | <u>Au oz.</u> | <u>Ag. oz.</u> | <u>W X Au</u> | <u>W X ag</u> |
|-------------------|--------------|---------------|----------------|---------------|---------------|
| 155 | 5' | .02 | .48 | | |
| 154 | 4' | .04 | .36 | | |
| 153 | 5' | .04 | .46 | | |
| 152 | 5' | .20 | .50 | 1.00 | 2.50 |
| 151 | 4' | .40 | .20 | 1.60 | 0.80 |
| 150 | 4' | .405 | .30 | 1.62 | 1.20 |
| 149 | 4' | .46 | .24 | 1.84 | 0.96 |
| 148 | 4' | .305 | .30 | 1.22 | 1.20 |
| 147 | 4' | .42 | .48 | 1.68 | 1.92 |
| 146 | 4' | .25 | .35 | 1.00 | 4.00 |
| 145 | 4' | .145 | .36 | 1.15 | 2.88 |
| 144 | 4' | | | | |
| 143 | 5' | .10 | .80 | 0.50 | 4.00 |
| 142 | 4' | .16 | .40 | 0.64 | 1.60 |
| 141 | 4' | .40 | .30 | 1.60 | 1220 |
| 140 | 4' | .345 | .98 | 1.38 | 3.92 |
| 139 | 4' | .42 | 1.14 | 1.68 | 4.56 |
| 135 | 5' | .40 | 1.40 | 2.00 | 7.00 |
| 134 | 5' | .32 | 0.90 | 1.60 | 4.50 |
| 133 | 5' | .30 | 0.80 | 1.50 | 4.00 |
| 132 | 5' | .14 | 0.80 | 0.70 | 4.00 |
| 131 | 5' | .06 | 1.50 | 0.30 | 7.50 |
| 127 | 5' | .12 | 0.30 | 0.60 | 1.50 |

Total Drift

Distance

88'

23.62

59.24

$$\frac{W \times Au}{W} = 0.268409 \text{ Au Av. } \times \$150 = \$40.26/\text{Ton}$$

$$\frac{W \times Ag}{W} = 0.673 \text{ Ag Av. } \times \$4 = \$2.69/\text{Ton}$$

Total Value Au, Ag

\$42.95/Ton

EXHIBIT NO. IV

A₂ - WEST DRIFT - Check Samples taken 7-74. Analysis based on values and area of influence between wall samples (Refer to Assay Map)

| Sample No. | A. 1/2 Dist. | Sample Width | Au Oz. | Ag Oz. | B. 1/2 D X W | C. 1/2 D X W | D. 1/2 D X W |
|--------------------------------|-----------------|--------------|--------|--------|-----------------|-----------------|-----------------|
| 972 | 5' | 7' | .12 | 0.30 | 35 | 4.2 | 10.5 |
| 964 | 5' | 5' | .37 | 0.30 | 25 | 9.25 | 7.5 |
| 973 | 5' | 7.6' | .04 | 0.15 | 38 | 1.52 | 5.7 |
| 974 | 5' | 6.7' | 1.17 | 0.50 | 33.5 | 39.195 | 16.75 |
| 975 | 5' | 7.7' | 0.39 | 0.30 | 38.5 | 15.015 | 11.55 |
| 965 | 3.75' | 5.0' | 0.18 | 0.55 | 18.75 | 3.375 | 10.31 |
| 1743 | <u>9'</u> | 6.6' | 0.02 | 0.40 | <u>59.4</u> | <u>1.888</u> | <u>23.76</u> |
| Total Distance Along Drift 70' | | | | | 248.15 | 73.74 | 86.07 |

$$\frac{B}{A} = 6.57 \text{ Av. Sample Width}$$

$$\frac{C}{B} = .2971 \text{ Au Av. X \$150} = \$44.57$$

$$\frac{D}{B} = .3468 \text{ Ag Av. X \$4} = \underline{1.387}$$

45.95 Av. Value Au - Ag/Ton
Cu not evaluated

B₁ - CROSSCUT - Assay Analysis based on muck samples (refer to Assay Map)

| Sample No. | A. Width | Au Oz. | Ag Oz. | B. | C. |
|-----------------|-------------|--------|--------|-------------|------------|
| | | | | W X Au | W X Ag |
| 123 | 5' | .01 | .40 | | |
| 122 | 5' | .005 | .10 | | |
| 121 | 4' | .008 | .29 | | |
| 120 | 5' | | | | |
| 119 | 6' | .08 | .60 | | |
| 118 | 4' | .14 | .85 | 0.56 | 3.4 |
| 115 | 5' | .62 | 2.20 | 3.1 | 11.0 |
| 113 | 5' | 2.88 | 1.82 | 14.4 | 9.1 |
| 110 | 4' | 0.42 | 1.18 | 1.68 | 4.72 |
| 109 | 5' | 0.49 | 1.30 | 2.45 | 6.50 |
| 108 | 5' | 1.04 | 1.50 | 5.20 | 7.5 |
| 107 | <u>5'</u> | 0.30 | 0.90 | <u>1.50</u> | <u>4.5</u> |
| Total Length | 33' | | | 28.89 | 46.72 |

$$\frac{B}{A} = 0.875 \text{ Au Av. X } \$150 = \$131.32/\text{Ton}$$

$$\frac{C}{A} = 1.42 \text{ Ag Av. X } \$4 = \underline{5.66/\text{Ton}}$$

Total Value/Ton \$136.98

B₂ - CROSSCUT - SAMPLE ANALYSIS BASED ON CONTINUOUS 5' CHECK SAMPLES ALONG THE WALLS OF THE CROSSCUT (REFER TO ASSAY MAP).

| SAMPLE NO. | A. WIDTH | Au. Oz. | Ag. Oz. | W x Au | W x Ag |
|------------|-------------|---------|---------|--------|--------|
| 1745 | 5' | 0.89 | 0.70 | 4.45 | 3.5 |
| 1746 | 5' | 0.78 | 0.95 | 3.9 | 4.75 |
| 1747 | 5' | 0.64 | 1.75 | 3.2 | 8.75 |
| 1748 | 5' | 0.29 | 6.20 | 1.45 | 31. |
| 1749 | 5' | 0.06 | 0.60 | 0.3 | 3.0 |
| 1750 | 5' | 0.27 | 0.45 | 1.35 | 2.25 |
| 572 | 5' | 0.43 | 0.65 | 2.15 | 3.25 |
| | 35' | | | 16.8 | 56.50 |

$$\frac{B}{A} = 0.48 \text{ Av. Au} \times \$150. = \$ 72.00$$

$$\frac{C}{A} = 1.91 \text{ Av. Ag} \times \$4 = \$ 6.45$$

$$\$ 78.45/\text{ton}$$

EXHIBIT NO. VII

C. - EAST DRIFT - SAMPLES TAKEN 7-74. ANALYSIS BASED ON VALUES AND
SAMPLE AREA OF INFLUENCE (REFER TO ASSAY MAP).

| SAMPLE NO. | <u>1/2 D</u> | <u>WIDTH</u> | <u>Au</u> | <u>Ag</u> | A. | B. | C. |
|---------------|--------------|--------------|-----------|-----------|------------------|---------------------------|---------------------------|
| | | | | | <u>1/2 D x W</u> | <u>1/2 D x W x Au</u> | <u>1/2 D x W x Ag</u> |
| 961 | 6.5 | 6' | .17 | 1.00 | 39 | 6.63 | 39 |
| 966 | 5 | 7.4' | .16 | 0.50 | 37 | 5.92 | 18.5 |
| 967 | 5 | 8.4' | .15 | 1.55 | 42 | 6.3 | 65.1 |
| 968 | 5 | 7.0' | .37 | 2.00 | 35 | 12.95 | 70 |
| 969 | 5 | 5.7' | .34 | 1.35 | 28.5 | 9.69 | 38.48 |
| 970 | 5 | 5.2' | .72 | 0.55 | 26 | 18.72 | 14.3 |
| 971 | <u>5</u> | 5.0 | .24 | 0.15 | <u>25</u> | <u>6.00</u> | <u>3.75</u> |
| | 36.5 | | | | 232.5 | 66.21 | 249.13 |

$$\frac{1/2 D \times W}{1/2 D} = 6.369 \text{ Av. Sample Width}$$

$$\frac{B}{A} = .285 \text{ oz. Au Av.} \times \$150 = \$42.75/ \text{ Ton}$$

$$\frac{C}{A} = 1.072 \text{ oz. Ag Av.} \times \$4 = \underline{\$ 4.29/ \text{ Ton}}$$

Total Au/Ag Value \$47.04/ Ton

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.
817 WEST MADISON ST. PHOENIX, ARIZONA 85007

PHONE 254-6181

For Mr. Harvey Smith
6016 North Kachina Lane
Scottsdale, Arizona

Date July 10, 1974

Sample of Ore

Received: 7-8-74

Submitted by: Mr. Gerald Weathers

ASSAY CERTIFICATE

Gold figured at \$ 200.00 per ounce

Silver figured at \$ 5.00 per ounce

| LAB. NO. | IDENTIFICATION | GOLD | | SILVER | | PERCENTAGES | |
|----------|----------------|-------------|----------|-------------|---------|-------------|--|
| | | OZ. PER TON | VALUE | OZ. PER TON | VALUE | COPPER | |
| 7246 | 960 | nil | | 0.05 | \$ 0.25 | 0.01% | |
| | 961 | 0.17 | \$ 34.00 | 1.00 | \$ 5.00 | 0.04 | |
| | 962 | 0.19 | 38.00 | 4.70 | 23.50 | 0.44 | |
| | 963 | 0.03 | 6.00 | 1.00 | 5.00 | 0.60 | |
| | 964 | 0.37 | 74.00 | 0.30 | 1.50 | 0.66 | |
| | 965 | 0.18 | 36.00 | 0.55 | 2.75 | 0.10 | |
| | 966 | 0.16 | 32.00 | 0.50 | 2.50 | 0.18 | |
| | 967 | 0.15 | 30.00 | 1.55 | 7.75 | 0.36 | |
| | 968 | 0.37 | 74.00 | 2.00 | 10.00 | 0.32 | |
| | 969 | 0.34 | 68.00 | 1.35 | 6.75 | 0.31 | |
| | 970 | 0.72 | 144.00 | 0.55 | 2.75 | 0.14 | |
| | 971 | 0.24 | 48.00 | 0.15 | 0.75 | 0.06 | |
| | 972 | 0.12 | 24.00 | 0.30 | 1.50 | 0.17 | |
| | 973 | 0.04 | 8.00 | 0.15 | 0.75 | 0.04 | |
| | 974 | 1.17 | 234.00 | 0.50 | 2.50 | 0.12 | |
| | 975 | 0.39 | 78.00 | 0.30 | 1.50 | 0.07 | |
| | 1743 | 0.02 | 4.00 | 0.40 | 2.00 | 0.03 | |
| | 1744 | 0.01 | 2.00 | 0.15 | 0.75 | 0.01 | |
| | 1745 | 0.89 | 178.00 | 0.70 | 3.50 | 0.63 | |
| | 1746 | 0.78 | 156.00 | 0.95 | 4.75 | 0.52 | |
| | 1747 | 0.64 | 128.00 | 1.75 | 8.75 | 0.31 | |

cc: Gerald Weathers, PE
3928 East Meadowbrook Avenue
Phoenix, Arizona 85018

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

Claude E. McLean, Jr.

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.

817 WEST MADISON ST.

PHOENIX, ARIZONA 85007

PHONE 254-6181

For **Mr. Harvey Smith**
6016 North Kachina Lane
Scottsdale, Arizona

Date **July 17, 1974**

Sample of **Ore**

Received: **7-15-74**

Submitted by: **Mr. Gerald Weathers**

ASSAY CERTIFICATE

Gold figured at \$ **200.00** per ounce

Silver figured at \$ **5.00** per ounce

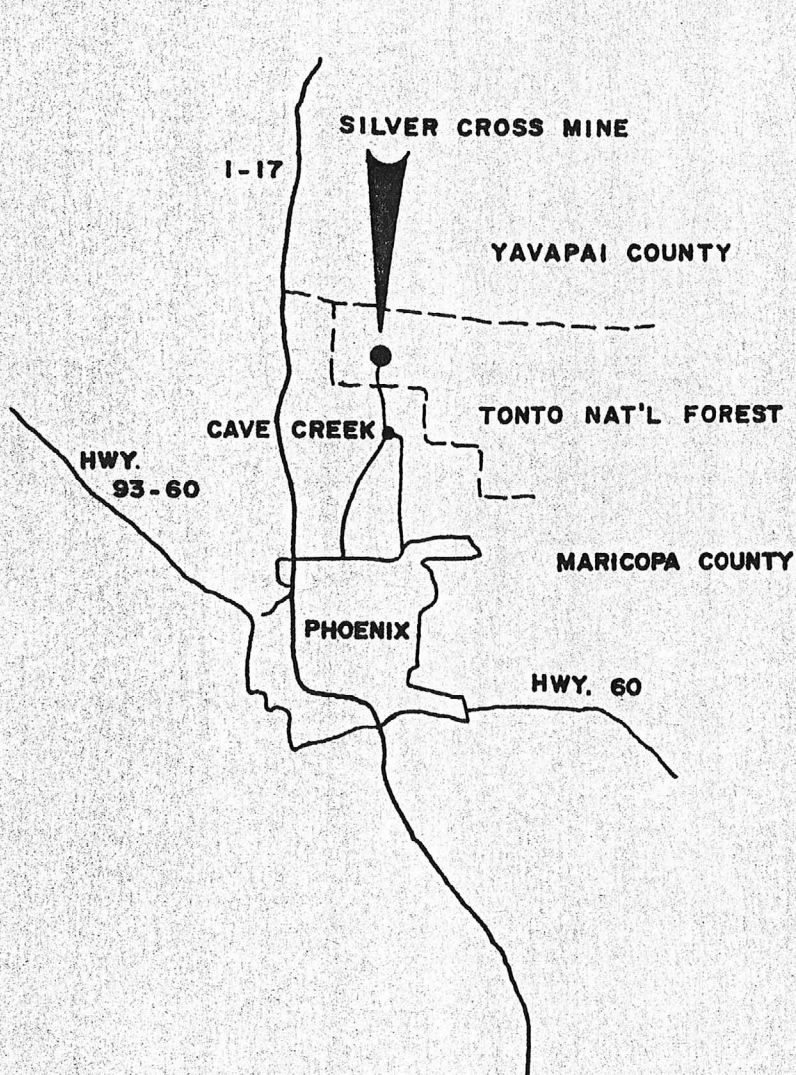
| LAB. NO. | IDENTIFICATION | GOLD | | SILVER | | PERCENTAGES | |
|----------|----------------|-------------|---------|-------------|---------|-------------|--|
| | | OZ. PER TON | VALUE | OZ. PER TON | VALUE | COPPER | |
| 7316 | 568 | 0.26 | \$52.00 | 1.25 | \$ 6.25 | 0.15% | |
| | 569 | trace | | 0.50 | 2.50 | 0.02 | |
| | 570 | nil | 0 | 0.30 | 1.50 | 0.03 | |
| | 571 | 0.30 | 60.00 | 0.40 | 2.00 | 0.06 | |
| | 572 | 0.43 | 86.00 | 0.65 | 3.25 | 0.04 | |
| | 1748 | 0.29 | 58.00 | 6.20 | 31.00 | 0.24 | |
| | 1749 | 0.06 | 12.00 | 0.60 | 3.00 | 0.14 | |
| | 1750 | 0.27 | 57.00 | 0.45 | 2.25 | 0.46 | |
| | | | | | | | |
| | | | | | | | |

ccs: **Mr. Gerald Weathers, P.E.**
3928 East Meadowbrook
Phoenix, Arizona

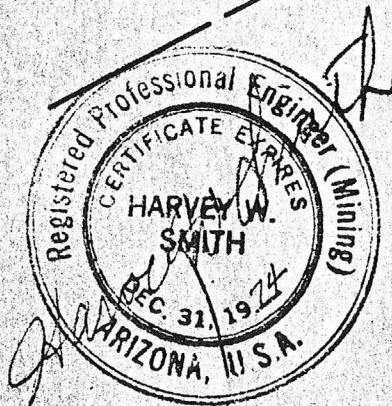
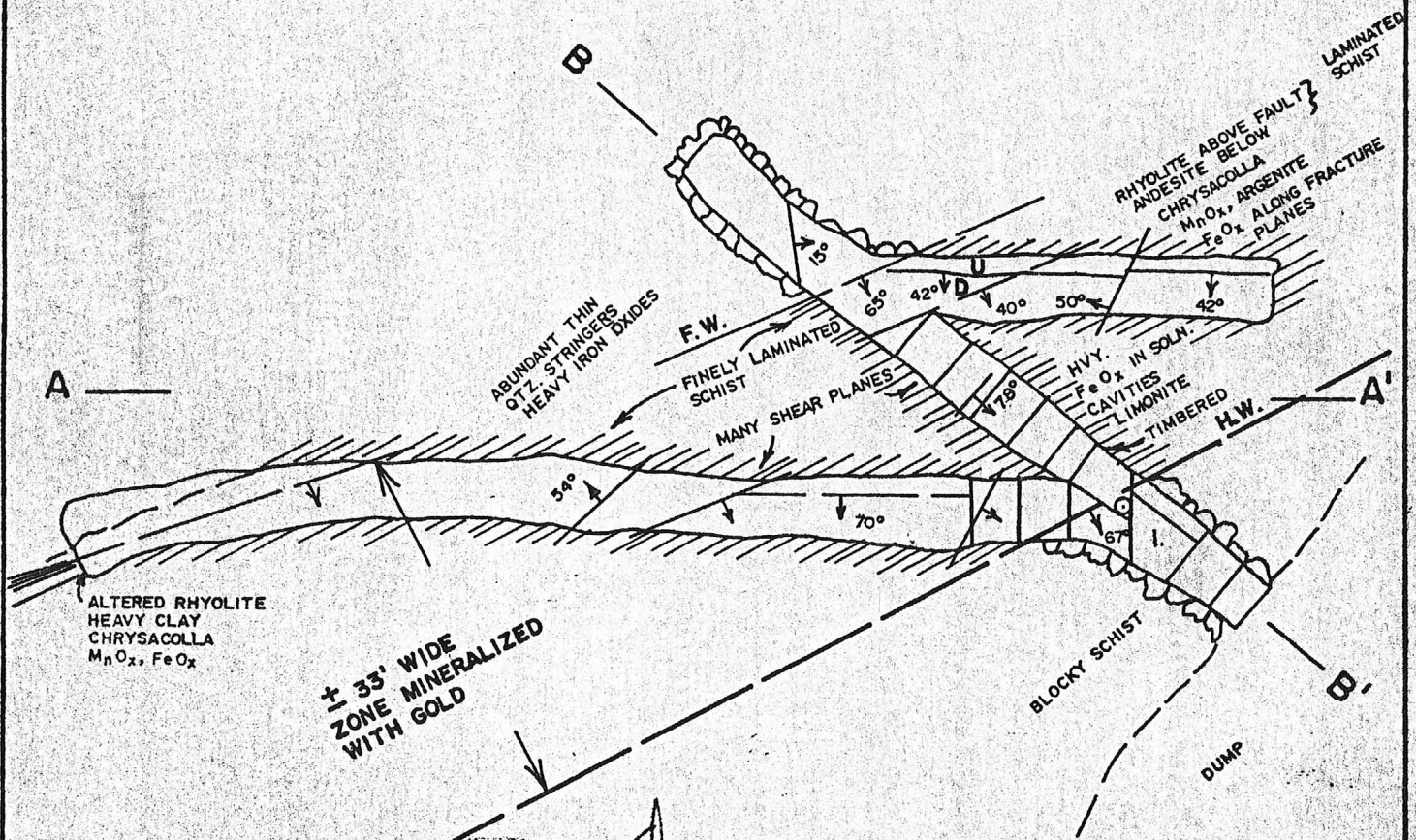
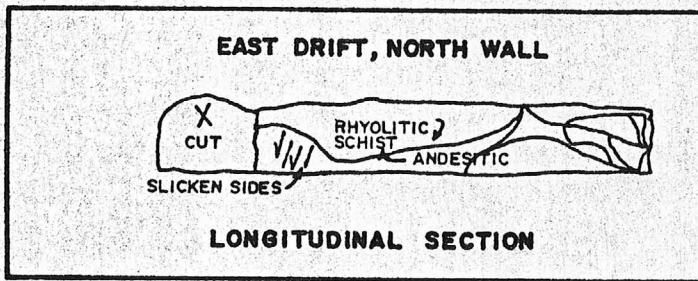
Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.
 Claude E. McLean, Jr.



MAP NO. 2
PORTION OF ARIZONA STATE HIGHWAY
MAP SHOWING LOCATION OF
SILVER CROSS MINE
SCALE 1" = 20 MILES 8/3/74
MAP NO. 2



**SILVER CROSS MINE
GEOLOGIC PLAN MAP
Underground Workings**

Scale 1" = 20' 8/3/74

Geology By: Gerald Weathers

MAP NO. 4

ELEV.

2695 +

2675 +

2655 +

2635 +

2615 +

2595 +

2695 +

2675 +

2655 +

2635 +

2615 +

2595 +

AURIFEROUS ORE SHOOT

BLOCK A

14,255 TONS

\$ 627,790

GOLD & SILVER

MEASURED RESERVES

SURFACE CUTS

SAMPLE NOS. 568, 571

776 TONS
\$ 83,839

BLOCK B

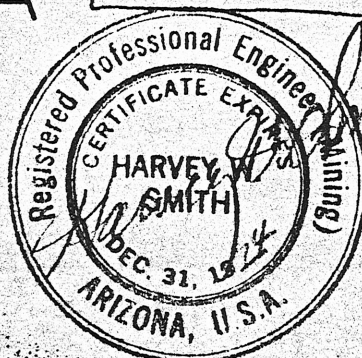
BLOCK C
1960 TONS
\$ 93,648

X
CUT

FAULT

ELEV. 2605

WEST DRIFT



PROBABLE RESERVES

BLOCK D

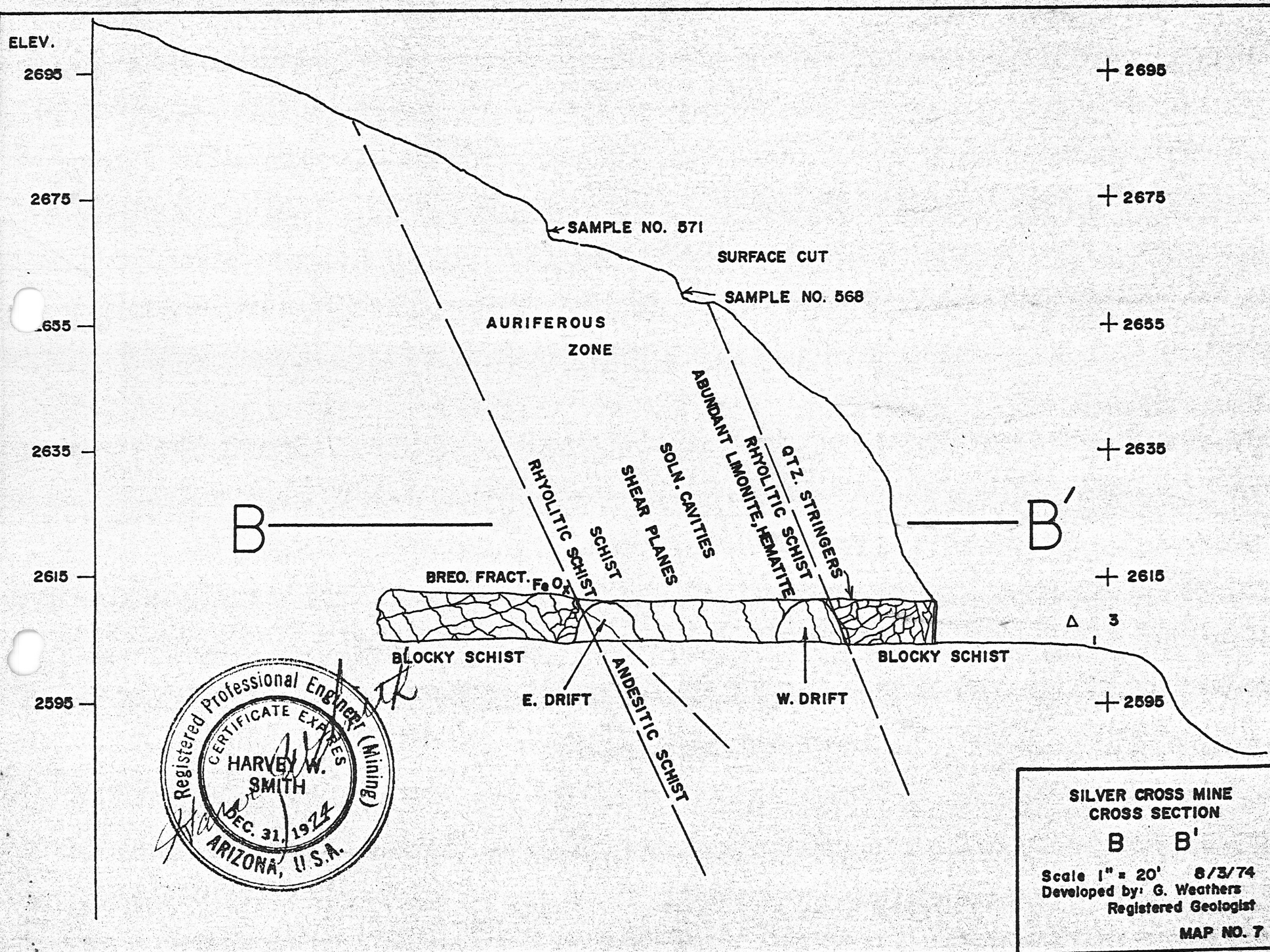
32,000 TONS

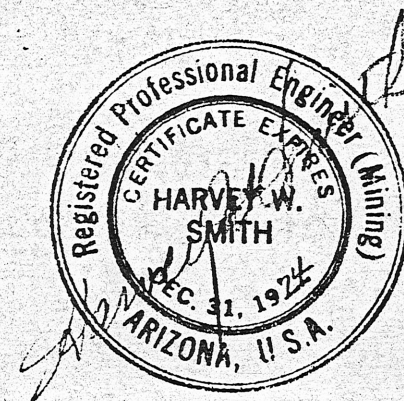
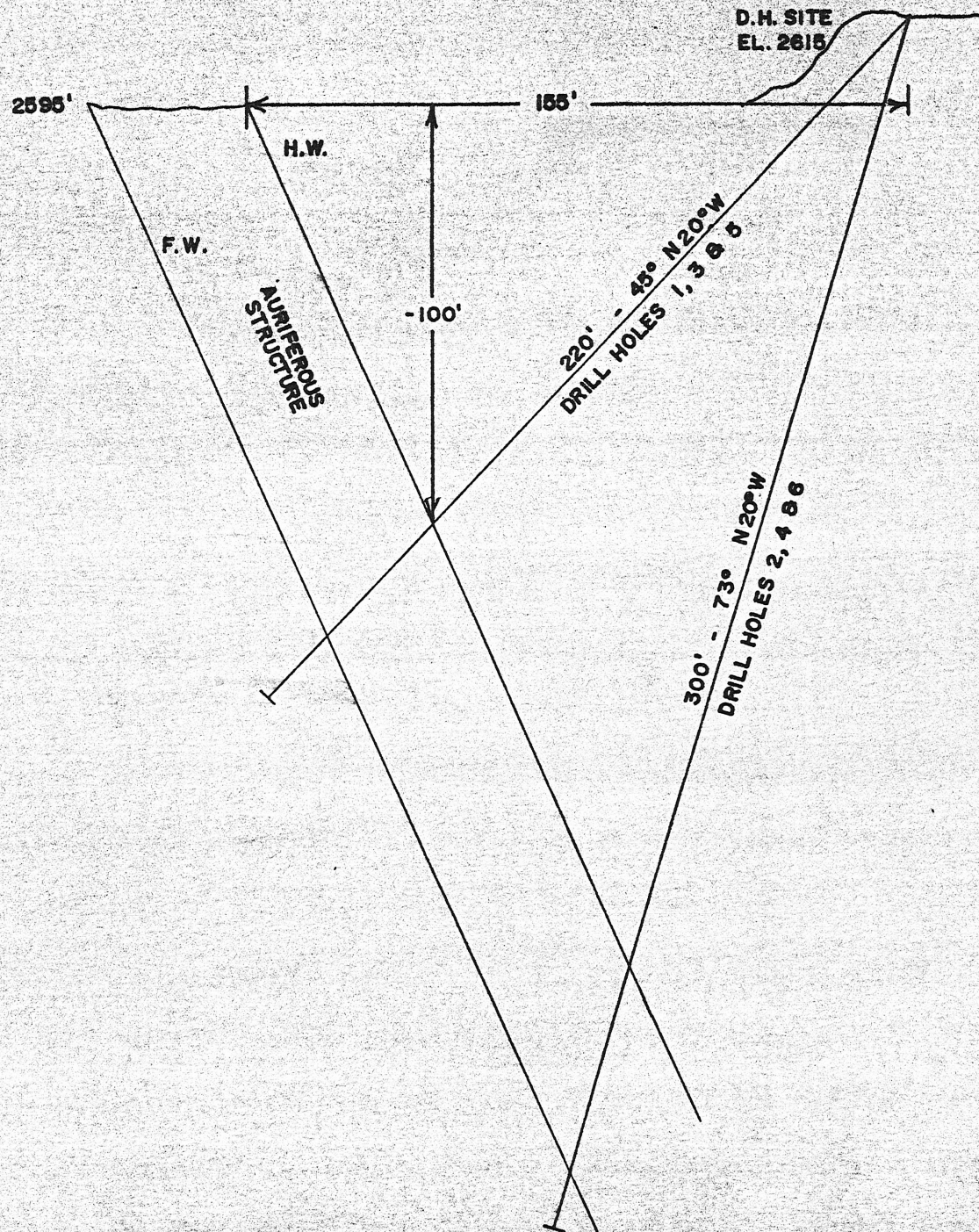
\$ 1,411,600

GOLD & SILVER

**SILVER CROSS MINE
LONGITUDINAL SECTION
A - A'**

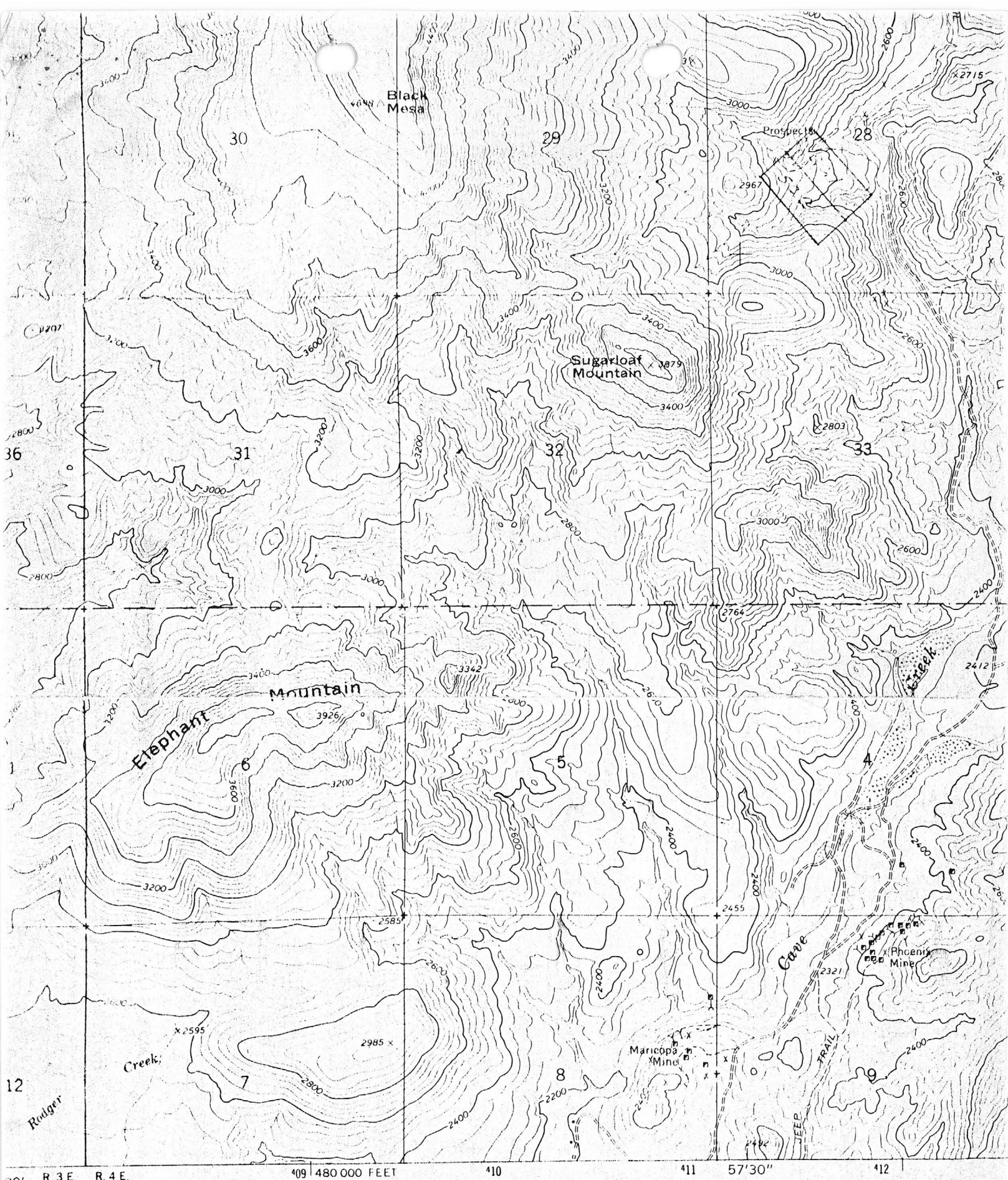
Scale 1" = 20' 8/3/74
Developed by: G. Weathers
Registered Geologist
MAP NO. 6



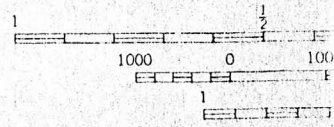
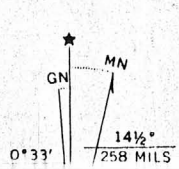


SILVER CROSS MINE
N20°W SECTION
SHOWING PROPOSED
DIAMOND DRILL HOLES

Scale 1"=40' 8/3/74
Developed by: G. Weathers
Registered Geologist
H.W. Smith, E.M.
MAP NO. 8



mapped, edited, and published by the Geological Survey
 control by USGS and USC&GS
 topography by photogrammetric methods from aerial
 photographs taken 1962. Field checked 1964
 polyconic projection. 1927 North American datum





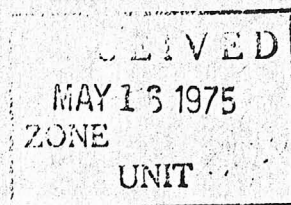
THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

TEL. (602) 884-2733

Gilbert J. Matthews
Zone Mineral Examiner
U.S. Forest Service
522 North Central Ave., Room 213
Phoenix, Arizona 85004

May 14, 1975



Dear Sir:

This will report on results of cyanide leaching tests on a sample of low-grade gold-silver ore, marked the Kokaska Composite, delivered to this laboratory April 10, 1975. Analysis of a representative fraction showed 0.34 ounces of gold per ton of ore and 1.80 ounces of silver in the sample as received.

The ore was a very weathered rusty schist. Panning tests revealed the presence of fine free gold.

Test no. 1 was a simulated vat leach by intermittent downward flood percolation of a 20-inch deep bed of ore crushed to maximum particle size of one-half inch. In practice, care would have to be taken to distribute the fines through the bed evenly to reduce plugging or channeling. The percolation rate was approximately 15 inches per minute and slowed only slightly after six days.

The total lime required to maintain the pregnant OFF-solution at a basic pH of 9.5 or higher was 8.5 lbs per ton of ore. Consumption of sodium cyanide amounted to 4.0 lbs per ton of ore in 6 days. Cyanide strength was held at about 1 pound per ton of OFF solution. The two liters of leach solution were recycled over four kilograms of crushed ore four times per day for 6 days. At the end of this time approximately 88 percent of the gold had been extracted and 80 percent of the silver.

In Test no. 2, 750 grams of the ore was pulverized to minus 100 mesh (85 percent minus 200 mesh) and was agitated at 40 percent solids for 48 hours in a standard rolling bottle leaching test. Lime consumption was 6 lbs per ton and cyanide was 4 lbs. The extraction of gold was 90 percent and silver, 80 percent.

The total charges for leaching tests and assays amount to forty-eight dollars (\$48.00). Please remit payment to the Arizona Bureau of Mines. An invoice is enclosed for your convenience. Thank you.

If there are questions or if we can be of further service please let me know.

Very truly yours,

David D. Rabb
David D. Rabb
Metallurgist

DDR:jg



United States Department of the Interior

IN REPLY REFER TO
A-8067 MPA
(943)

BUREAU OF LAND MANAGEMENT
Arizona State Office
3022 Federal Building
Phoenix, Arizona 85025

June 16, 1975

Ms. Francene Kokaska
6801 North 18th Place
Phoenix, Arizona 85016

Dear Ms. Kokaska:

Final certificate issued this date under your application A-8067 for mineral patent to the Silver Cross #1 lode mining claim, embracing 20.661 acres in sec. 28, T. 7 N., R. 4 E., GSR Mer., Maricopa County, Arizona, in the Cave Creek Mining District, as shown by Mineral Survey No. 4516 A.

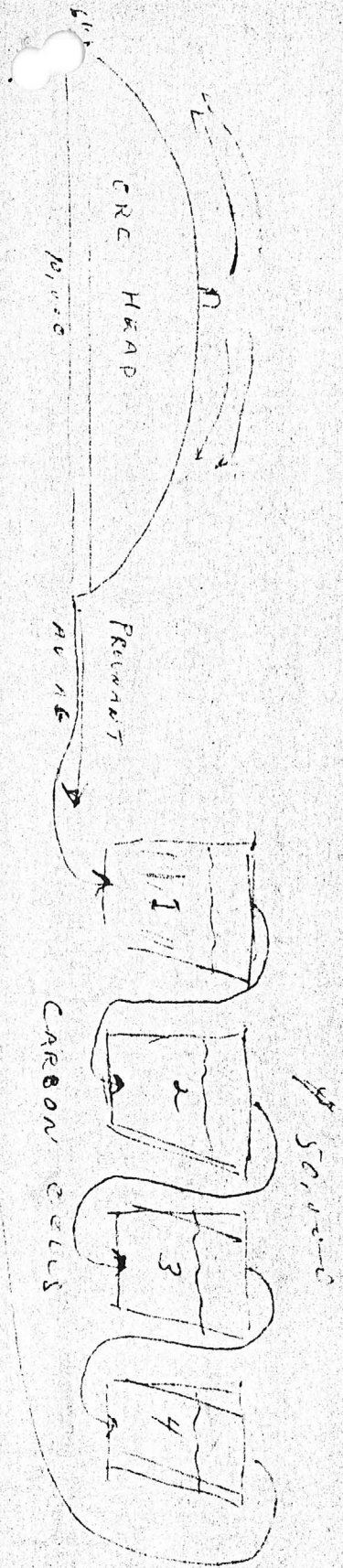
Approval for patenting will be withheld pending receipt of a favorable field report and recommendation.

Sincerely yours,

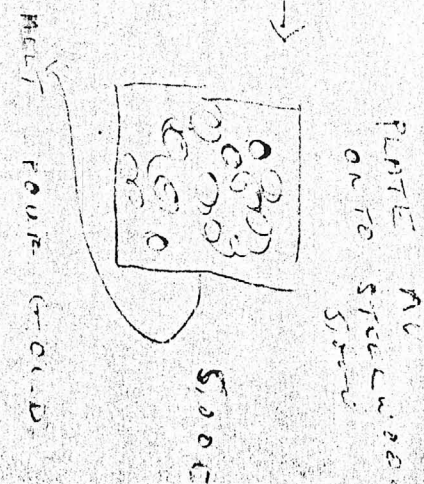
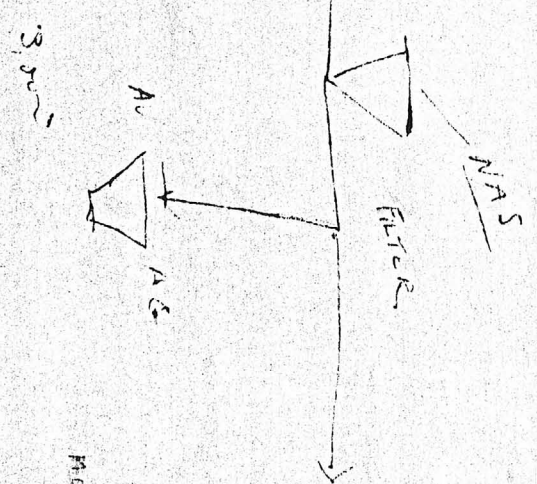
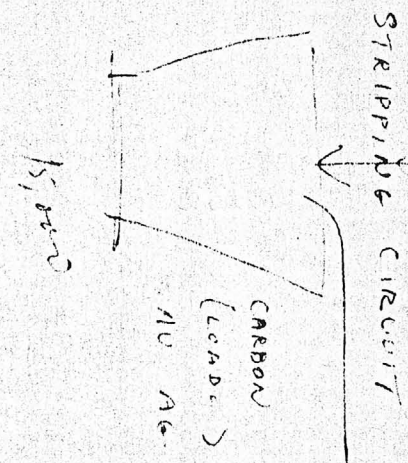
Glendon E. Collins
Chief, Div. of Technical Services

cc:
Maricopa County Recorder
Maricopa County Assessor

26-1-978
Received June 23-75



TO MINIMUM



DEL TIERRA ENGINEERING & MINING CORP.

U. S. Mineral Surveys

Mining

Exploration

HARVEY W. SMITH, E.M. President

Registered Mining Engineer U. S. Mineral Surveyor

6016 N. Kachina Lane Scottsdale, Arizona 85253

Tel. 602 948-5517

July 2, 1975



Exploration of the Kachina
Reserve - Arizona

Harvey W. Smith, E.M.

Mr. Gilbert Mathews
Mineral Examiner
U. S. Forest Service
522 North Central Avenue
Phoenix, Arizona 85003

Dear Gil:

Pursuant to our conversation yesterday, I have acquired some cost figures and equipment size estimates for your use in your supplemental report on the Kokaska property.

Concerning a jaw crusher, I believe a 10 x 16 inch will give us ample capacity for the size operation we are presently contemplating. Also, a one cubic yard capacity front end loader will suffice for our needs. Other major pieces of equipment which we might use are a dump truck and compressor.

The following is a list of this equipment, its new price and possible salvage value after two years:

| | <u>New Price</u> | <u>Salvage Value</u> |
|---|------------------|----------------------|
| 10 x 16" jaw crusher (with electric motor) (Equipment Sales) | \$15,000 | \$10,000 |
| 1 cubic yard front end loader (Equipment Sales) | 20,000 | 15,000 |
| Truck, 2-ton, dump (Powell's International) | 12,000 | 6,000 |
| Compressor (125) (Jaquays Min. Equip.) | 6,000 | 3,000 |
| | <u>\$53,000</u> | <u>\$34,000</u> |

Now, if we accept your \$75,000 figure for construction of the main plant, and I believe we can do it for considerably less, the additional equipment cost will only be \$19,000 (the difference between the new cost and the salvage value) plus the \$10,000 which you put in for contingencies, it will bring the mill total to \$104,000. Amortized over the tonnage figure that you have projected makes a cost of \$8.95 per ton.

Mr. Gilbert Mathev

Page 2

July 2, 1975

One other factor which must also be considered is that the truck loader and compressor costs probably should be partially allocated to mining costs as they undoubtedly will be used in the mine at various times. This would reduce the mill cost per ton, of course.

In your tonnage estimate, as I understand, Stuart Behling projected the ore down dip for only 20 feet. This is an extremely conservative estimate. Quoting from MINING GEOLOGY by Hugh E. McKinstry, published by Prentice-Hall, Incorporated, 1948, page 372:

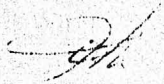
Certain rules have been used in mine valuation as a basis for calculations that involve probable extension of an individual ore shoot in depth. It is common practice, in estimating the amount of ore that may be counted on with reasonable safety, to assume that the ore will extend downward for a distance at least equal to half the horizontal length of the shoot as exposed on the bottom level. This assumption has some support from actual experience and is a safe guide in the sense that, if applied to a large number of ore bodies in different districts, it will not lead to an over estimate.

In view of Mr. McKinstry's quotation, the projection of the potential ore down dip an additional 35 feet would add considerably to the tonnage estimate by Mr. Behling. This additional tonnage would materially reduce the amortized cost of the mill complex.

A downward revision in your price of gold will be compensated by the increased ore reserve.

I hope this is the information you need for your supplemental report. However, if you have any questions, please feel free to contact me at any time.

Sincerely,



Harvey W. Smith, E.M.

HWS:ebj

~~cc:~~ Francene Kokaska

DEL TIERRA ENGINEERING & MINING

U. S. Mineral Surveys

Mining

Exploration

HARVEY W. SMITH, E.M. President

Registered Mining Engineer U. S. Mineral Surveyor

6016 N. Kachina Lane Scottsdale, Arizona 85253

Tel. 602 948-5517

October 8, 1975



Mr. Jack Pardee
Southwest Region Mining Engineer
U. S. Forest Service
Department of Agriculture
517 Gold Avenue, S. W.
Albuquerque, New Mexico 87102

Dear Jack:

Concerning the cost estimates of the Silver Cross property of Ms. Francene Kokaska, I believe you can substantially reduce them by using the following figures:

I talked with Mr. Tom Plouf, of the Denver Equipment Company. He is the same man with whom Gil Mathews conferred, and he stated, if we used concrete leach vats, the plant cost could be reduced by at least 15%.

In addition to the above, a reconditioned 2-yard, front-end loader will cost about \$9,500. A small crushing unit, 10" x 16", good used, can be obtained for approximately \$3,000. A 2 1/2-ton dump truck, good used, can be obtained for \$3,500.

As you can see, these costs are substantially under Stuart Behling's original estimates. Also, this equipment will also have some resale value if it is no longer required.

In addition, I am sure we could find a used compressor at a comparable reduction in cost.

If you will now use these figures and use a projection depth on the ore zone of at least one-half the strike length, it should show a favorable economic picture in spite of the minimum standard road.

If you have any questions, please call.

Sincerely yours,

Harvey W. Smith, E.M.

HWS:ebj

cc: Ms. Francene Kokaska

ELEV.

2695 +

2675 +

2655 +

2635 +

2615 +

2595 +

2695 +

2675 +

2655 +

2635 +

2615 +

2595 +

AURIFEROUS ORE SHOOT
BLOCK A

14,255 TONS

\$ 627,790

GOLD & SILVER

MEASURED RESERVES

SURFACE CUTS

SAMPLE NOS. 568, 571

776 TONS
\$ 83,839

BLOCK B

BLOCK C
1960 TONS
\$ 93,648

A-

WEST DRIFT

X
CUT

FAULT

ELEV. 2605

A'



PROBABLE RESERVES

BLOCK D

32,000 TONS

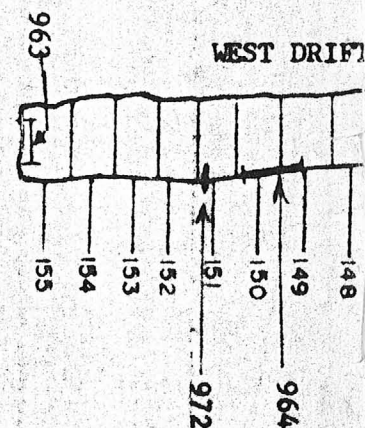
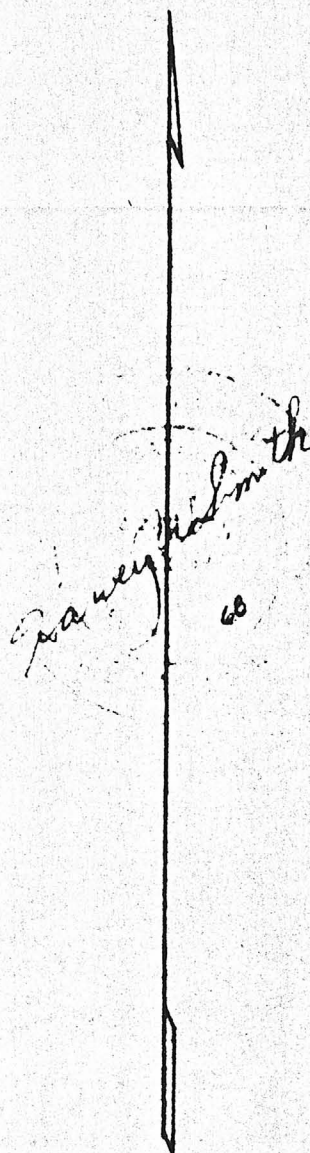
\$ 1,411,600

GOLD & SILVER

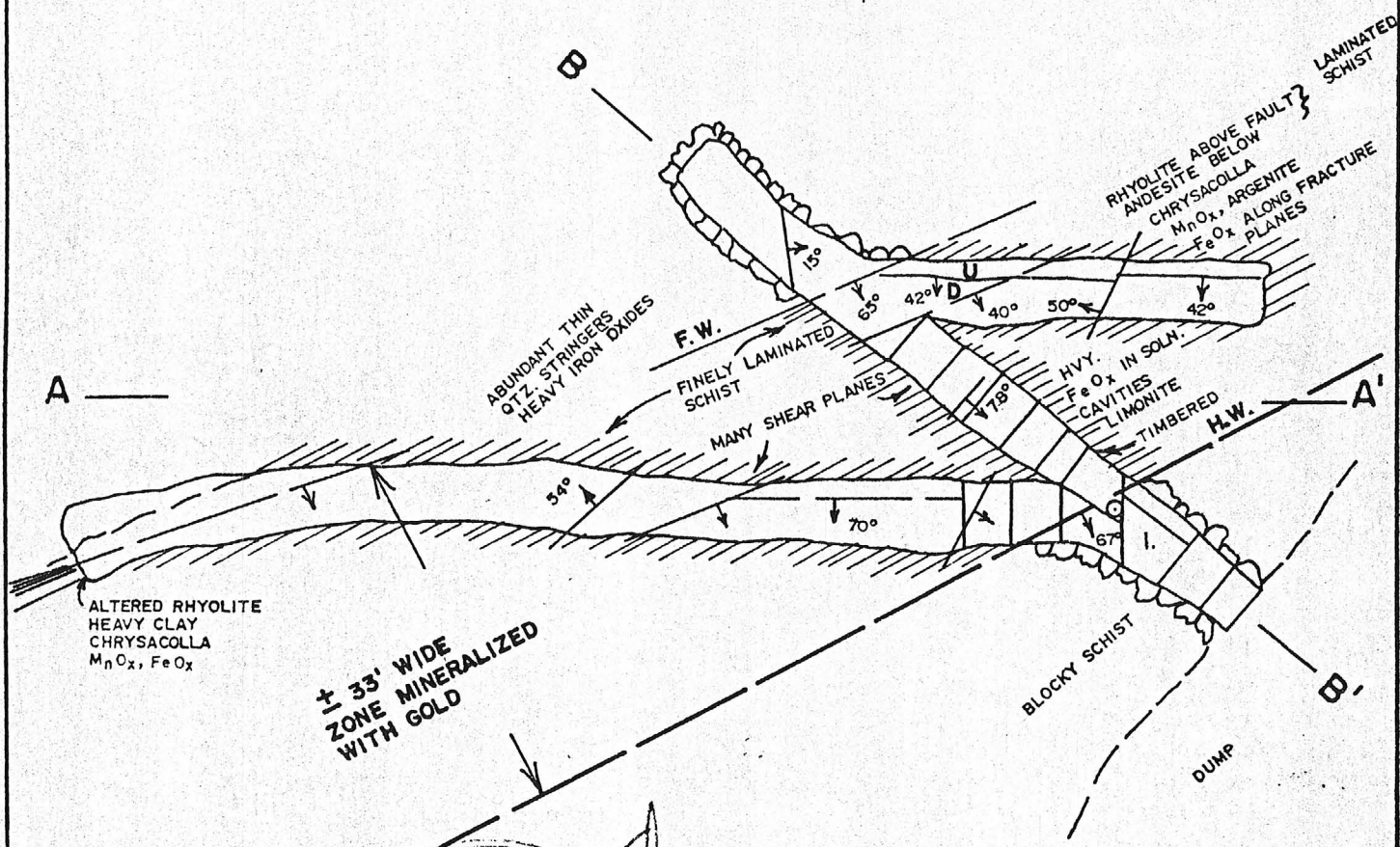
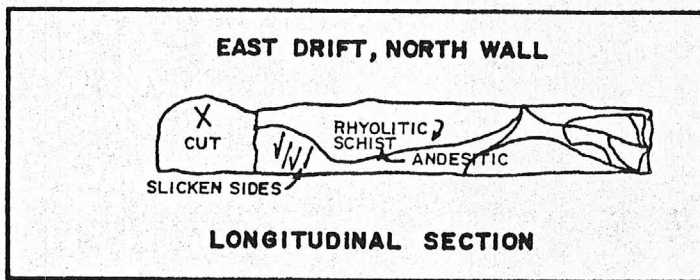
SILVER CROSS MINE
LONGITUDINAL SECTION
A - A'

Scale 1" = 20' 8/3/74
Developed by: G. Weathers
Registered Geologist
MAP NO. 6

| Check Sample # (7-74) | SAMPLE No. | WIDTH Ft. | Au ozs/ton | Ag ozs/ton | Cu % |
|-----------------------------|---------------|--------------|---------------|---------------|---------|
| 963 | 155 | 4.5H | .03 | 1.00 | .60 |
| | 5 | | .020 | .48 | |
| | 154 | 4 | .040 | .36 | |
| | 153 | 5 | .040 | .46 | |
| 972 | 152 | 7V 5 | .12 | .200 | .3050 |
| | 151 | 4 | .40 | .20 | .17 |
| 964 | 150 | 4 | .405 | .30 | |
| | 149 | 5H 4 | .37 | .46 | .3024 |
| | 148 | 4 | .305 | .30 | .66 |
| 973 | 147 | 7.6V 4 | .04 | .42 | .1548 |
| | 146 | 4 | .25 | .35 | .04 |
| | 145 | 4 | .145 | .36 | |
| 974 | 144 | 6.7V 4 | 1.17 | .50 | .12 |
| | 143 | 5 | .10 | .80 | |
| 975 | 142 | 4 | .16 | .40 | |
| | 141 | 7.7V 4 | .39 | .40 | .3007 |
| 965 | 140 | 5H 4 | .18 | .345 | .5598 |
| | 139 | 4 | .42 | 1.14 | .10 |
| | 135 | 5 | .40 | 1.40 | |
| 1743 | 134 | 6.6V 5 | .02 | .32 | .4090 |
| 1744 | 133 | 6.7V 5 | .01 | .30 | .1580 |
| | 132 | 5 | .14 | .80 | .01 |
| | 131 | 5 | .06 | 1.50 | |
| | 127 | 5 | .12 | .30 | |
| | 126 | 5 | .05 | .60 | |



ASSA

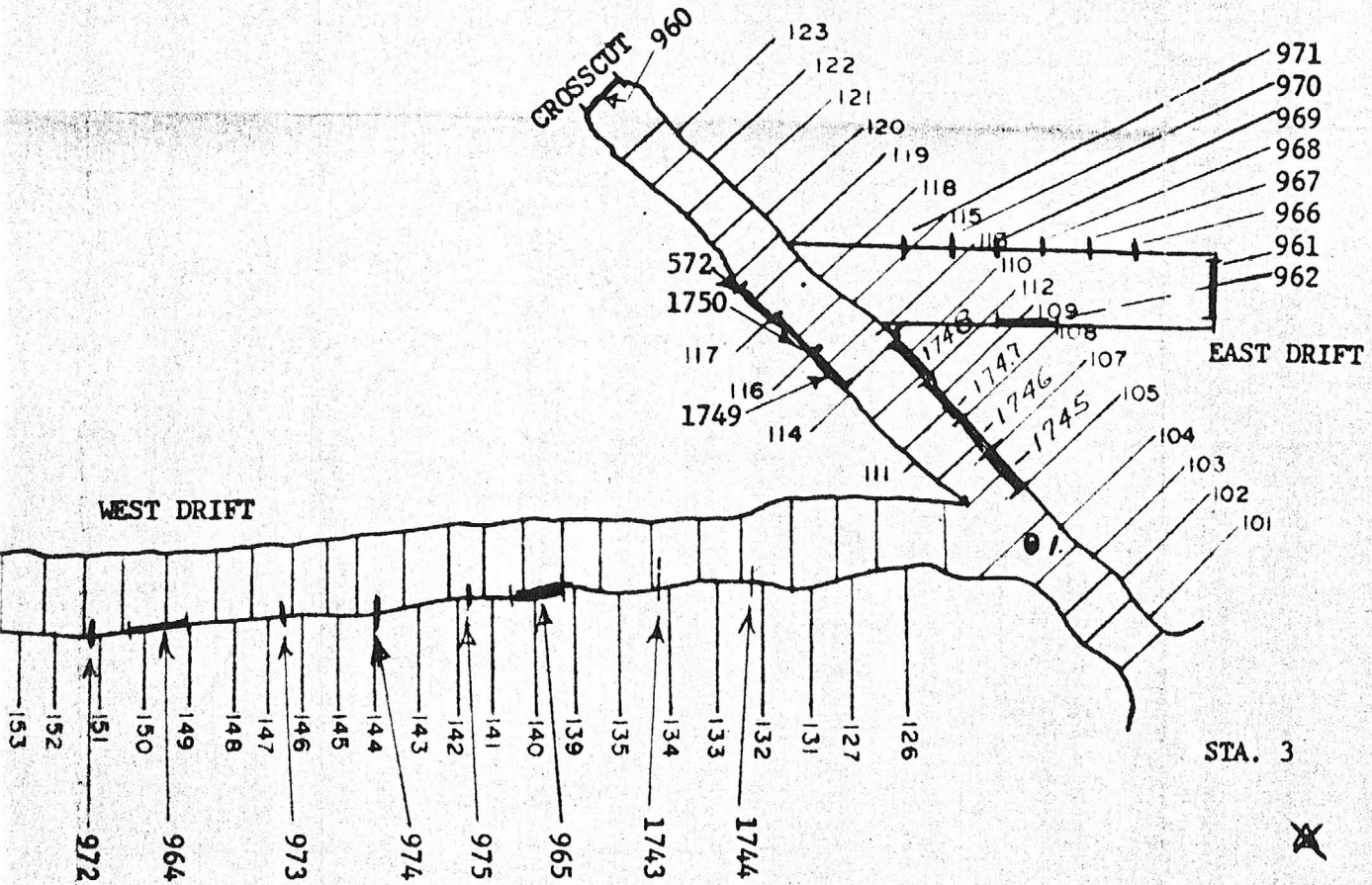


**SILVER CROSS MINE
GEOLOGIC PLAN MAP
Underground Workings**

Scale 1" = 20' 8/3/74
Geology By: Gerald Weathers

MAP NO. 4

Check
Sample #
(7-74)
960



572

1750

1749

1748

1747

1746

1745

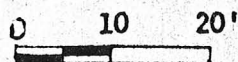
STA. 3

East Drift
Sample #
(7-74)

CLAIM OF FRANCENE KOKASKA ASSAY MAP-SILVER CROSS #1 LODE UNDERGROUND WORKINGS-

CAVE CREEK MINING DISTRICT
SEC. 28, T. 7 N. R. 4 E., G. & S. R. M.
MARICOPA COUNTY ARIZONA
SCALE 1" = 20' FEB. 15, 1968
DRAWN BY: HARVEY W. SMITH, E.M.

REGISTERED MINING ENGINEER
U.S. MINERAL SURVEYOR



Rev.

MA

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Heck Claims

Date April 26, 1961

District Cave Creek District, Maricopa County

Engineer Lewis A. Smith

Subject: Conference with P.M. Tabor, Box 302, Cave Creek (partner of Garrett Brown in Mexico-Pacific Mining Co.)
Tel. Phx. WI 4-7449

Owner: Noble Heck, Box 302 Cave Creek, Arizona.

Option: to Mexico-Pacific Mining Co., Box 302, Cave Creek

Claims: 30 (unpatented) claims on east slope of Sugar Loaf.

Location: S 28, T 7 N, R 4 E

Metal: Gold

Work: Location pits and three bulldozer benches at one place. The benches are 25-30 feet high and 100⁶/₂ feet long.

Equipment: R.D. 8 Cat, and portable pilot mill. The mill has a 12" Crusher which crushes to 3/4 inch mesh. This is followed by 5 x 3 foot Marcy ball mill which reduces the 3/4 mesh material to about 200 mesh. A Conditioner is followed by a battery of four Denver 24 inch flotation cells. A 16 x 5¹/₂ foot Wilfley table is also in the circuit. The plant handles about a ton per 8 hours. Tests so far have recovered 71% of the gold.

The company also has a core diamond drill which is rated to drill to 250 feet. The core will be 1¹/₄ inch. This will explore the outcrop in depth.

Geology: The general area consists of schists intruded by diorite porphyry. The benching cut a vein which is 1 foot wide at the top but which had widened to 40 feet wide on the bottom bench. The vein dips nearly vertically and the strike is roughly northwest-southeast. Due to the deep overburden the vein is not at present traceable along the strike, so that no definite strike has been determined. Mr. E.C. Anderson, consulting geologist, Socorro, New Mexico, is retained to study the area. The vein samples indicate \$15.00 in gold and 2 ounces of silver, with little copper. The principal minerals are quartz and limonite, the latter spreading into the laminae of the schist. The gold is free and apparently is affiliated with the limonite. Some distance further west the pre-Cambrian rocks are capped by lake deposits which in turn are capped by late Tertiary basalt. The pits on the other claims show appreciable gold. One small test car was shipped to Magma and this ran 48 percent silica, \$12.00 gold and some silver. However, this was diluted somewhat by the addition of some jasper to raise the silica content. This is not considered good enough to ship regularly.

Silver Cross Mine
file K
Q

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION - Surface Water Section

Inter-Office Memorandum

Date: February 12, 1996

TO: Roland Williams, EHS II
Surface Water Monitoring Unit, Cubicle #323

FROM: Charles E. Ohr, CET, EES
Surface Water Field Services Unit

RE: Referral for Follow-up, Complaint #96-005
Silver Cross Mine on Cave Creek Wash

CGO

=====

Executive Summary

On January 12, 1996, I received a complaint (Attachment I) concerning a possible gold mine discharge to the Cave Creek wash at the end of the Spur Cross Road, about 5 miles north of the Town of Cave Creek, in Maricopa County, Arizona. The name of the concerned mine is the Silver Cross Mine (formerly known as the Prospect Mine) and is privately-owned land. The concern is that a possible mine "pregnant" solution or lime solution discharge may have occurred during past rain runoff events and have had toxic effects on the watershed. The Department's Mission Statement provides assurance to the public that there is no environmental or public health hazard present and assures that the site's proper remediation is provided. To that end the Department should demonstrate the "reasonable and prudent" action of determining the characteristics of the liquid and solid waste left on the site by the last occupants of the site. Site remediation should be jointly supervised by the State Mine Inspector and this Department.

The field reconnaissance inspection was scheduled for Friday, January 19, 1996. Unable to contact the mine owners to obtain voluntary site access and not possessing a search warrant, I did not enter the private property. Although no water or soil samples were collected on this reconnaissance inspection, photos and video were exposed, and field observations provide grounds to refer the complaint for further investigation. Fish and wildlife were remarkably more abundant three to five miles downstream of the mine site than in proximity to the mine site. The complaint raises some questions that need to be addressed.

Attendees

| Name | Representing | Position | Phone Number |
|---------------|----------------------|--------------------|----------------|
| Chuck Ohr | ADEQ/SWS/FSU | Env. Engr. Spec. | (602) 207-4434 |
| Kirke King | U.S. Fish & Wildlife | Env. Contam. Spec. | (602) 640-2720 |
| Bill Bridge | DFLT* | Concerned Citizen | (602) 488-3313 |
| Kevin Timothy | public interest | Concerned Citizen | (602) 956-6629 |

*Desert Foothills Land Trust

Preliminary to Field Investigation

The complainant had contacted the ADEQ hazardous waste program (WPD) (Attachment II) and the nonpoint monitoring unit (WQD) before contacting the Surface Water Field Services Unit (SWFSU). I contacted or was contacted by the following individuals in the process of developing information relative to the complaint:

| Date | Name | Representing | Phone Number |
|----------|-----------------|---------------------------------------|----------------|
| 01/16/96 | Kevin Timothy | Complainant | see above |
| 01/17/96 | Mark Dahlberg | AZ Game & Fish | (602) 942-3000 |
| 01/17/96 | Kirke King | USF&W | see above |
| 01/17/96 | Emily Garber | Tonto NF, Carefree | (602) 488-3441 |
| 01/18/96 | Roland Williams | SWS/NPSMU | (602) 207-4506 |
| 01/18/96 | Bill Hawes | AZ State Mine Inspector Office | (602) 542-5971 |
| 01/18/96 | Ken Phillips | AZ Dept. of Mines & Mineral Resources | (602) 255-3795 |
| 01/18/96 | Becky Bartness | DFLT | (602) 488-8199 |
| 01/31/96 | Robert Mills | ADEQ/HazWaste Insp. Unit | |
| 02/12/96 | Patti Fenner | Tonto NF, Carefree | |

In addition, I attempted to contact the owners' representative prior to the field reconnaissance inspection, on January 17th and 18th, to gain voluntary access to the mine property. There was no telephone answer on each occasion. Provided by the Tonto NF and confirmed by the ADM&MR, the listed owner is: Francine Kokoska, 1851 E. Ocotillo, Phoenix, AZ 85016. The phone number: (602) 279-4607. If this is inaccurate or outdated information, one could obtain the current contact by identifying the owner from the county assessor's records. See Attachment III for the legal description of the property.

Field Observations

I met Kirke King at 8:30 AM at the ABCO parking lot at Bell Road and Cave Creek Road. He rode with me (I had the only four wheel drive capable of carrying four passengers) to meet the complainant and representatives of the DFLT in Cave Creek prior to driving to the mine site. Its about a two hour drive to cover the approximate five miles to the mine site from the Town of Cave Creek because of the extremely harsh road conditions. Kirke King, Kevin Timothy, and Bill Bridge rode with me to the mine site. Along the way, we stopped at the first two crossings of Spur Cross Road with the Cave Creek Wash to look for fish and aquatic invertebrate species present. At the first crossing, one leopard frog and some 1/4 inch fry were seen in the water. A small number of water bugs and water spiders were noted, but no fingerling-size or adult fish were observed. At the second crossing, no significant wildlife species were noted. Early on the drive, Gambel's Quail were numerous and a variety of birds were noted, perhaps due to local residents setting out feed for the critters. However, the wildlife became more scarce with no quail observed and only a few species of flying birds noted above the first wash crossing. See Kirke King's notes (Appendix IV) for more details of his wildlife observations.

We arrived at the entrance to the mine property about 11 AM and were there about an hour. As mentioned earlier, I did not enter the private property because I had neither permission from the owner's representative nor a search warrant. However, I did walk around the outer fence line to the south and west as far as I could manage, in order to observe site conditions from outside. I asked Kirke King to use my camera to take photos of anything worth-while documenting on site. The photos are attached as part of Attachment I. Two letters from Mr. Bridge, the first dated, January 20, 1996

(Attachment III) provides map and legal description information. The second dated, January 23, 1996, (Attachment IV) describes his observations during the 01/19/96 field investigation.

Following the field trip, we met with a local high school teacher at the Cactus Shadows High School, Ms. Adrian Gibson, who, Mr. Timothy reported, has been guiding high school students in a field biology class, to collect water quality and macro-invertebrate data on the Cave Creek water shed from Seven Springs to the Town of Cave Creek for the last two years (1994-1995). She shared a two page summary (Attachment V) of the data they have collected to date.

Discussion

Whether the apparent scarcity of fish and wildlife in the Cave Creek water shed immediately downstream of the mine is due to natural or seasonal conditions, or runoff from the Silver Cross Mine, needs to be determined. My observations are of conditions in Cave Creek wash at each of the crossings, along the Spur Cross Road and from outside the perimeter fence of the mine. My field notes and complaint #96-005 are enclosed as Attachment I. The attachments include personal observations made by both Mr. King and Mr. Bridge. Independently, we each came to the same conclusions as a result of making the same observations as we approached the mine, that a more detailed study with water and soil sampling should be made of the mine site. The photos and the Kevin Timothy video (Attachment VI) both show material in the plastic-lined pond and the concrete lined basin that should have been removed from the site after the operation was shut down. Both impoundments have plastic pipe overflows which may discharge to the Cave Creek wash during heavy rainfall events, as the impoundments fill with surface runoff.

On January 23, 1996, the editor of a local Cave Creek newspaper, The Sonoran News, Mr. Don Sorchych, contacted me for a status report of our inspection of January 19, 1996. He had been to the mine site with the complainant earlier and had additional background material for me. He indicated that he had indeed, spoken with the owner's representative, Ms. Kokoska, the evening before and she had told him the mine had last been active in 1989. The activity level was described as only "exploratory" (core drilling). This was confirmed by a separate telephone conversation I had with Ms. Patti Fenner of the Tonto NF on January 24, 1996. Attachment VIII is a copy of the Media Contact form.

On January 30, 1996, I received a copy of a June 1994 study conducted by the Arizona Game & Fish Department with the Tonto National Forest, concerning the native fish habitat along the Cave Creek wash. It is included here as Attachment IX for background information.

Requests for Information

Representatives for each of the agencies involved with this complaint to date, have said he or she wants to receive a copy of the final report on this complaint investigation. Attachment (VII) to this memo is a copy of the letter received from Ms. Becky Bartness, an attorney and a Board Member of the DFLT, requesting copies of any reports, notices, or other documents prepared or issued by the Department. In addition, to the local Cave Creek newspaper (Sonoran News), the New Times and the other Cave Creek weekly newspaper, and Adrian Gibson, the Cactus Shadows High School science teacher, have all asked to receive a copy of my report. Per instructions from my supervisor, I have not given copies of any of my report to anyone. Rather, I was told you would make the final determination regarding any further Department action on this complaint and the attached materials and any further investigation you do before you release information.

Recommendations

I concur with the other participants' comments that further study of the situation would be the prudent action, rather than to ignore an obvious, unsightly and inadequately cleaned mine site with real potential to impact the Cave Creek wash ecosystem. Core samples to bedrock should be taken from the dry material in the impoundments and solution samples should be collected where wet. Of primary concern would be analyses for cyanide, total heavy metals, and *pH*. Concurrently, the same parameters would be taken upstream and downstream along with QA/QC samples provided by the lab. Chain-of-custody and standard ADEQ sampling protocols should be followed.

CEO:ceo:696005.MEM
Attachments (8)

- I. Complaint 96005 with photos
- II. HazMat Referral
- III. Bill Bridge Letter, 01-20-96
- IV. Kirke King Field Notes, 01-19-96
- V. Adrian Gibson Class Study
- VI. Kevin Timothy Video Tape, 01-19-96 (copy not avail to cc)
- VII. Becky Bartness Letter, 01-22-96
- VIII. Media Contact Form, Sonoran News
- IX. June 1994 AZ G&F Cave Creek Study

cc: Harley R. Hiatt, P.E., Manager, SWFSU
Jim Matthews, PIO
M. Reza Azizi, Acting Manager, Surface Water Enforcement Unit
CEO RF
Complaint #96005

SWFSU RF w/o attachments

DESCRIPTION AND LOCATION OF INCIDENT (continued):

Page 2 of 4

He has contacted state game & fish, BLM, state Bureau of Mines, A501, ADEQ (Roland Williams).

Scheduled to meet complainant on 1-19-96 at 9 AM in Cave Creek and drive to the site. I have also left a message for Roland Williams concerning this complaint & asked him to call me back asap.

1-16 Returned call/message left for Kevin Timothy.

1-17 Telecom w/ Marc Dahlberg (AZ G&F) He said they had been up there last week & found fish above & below the mine. I should get access authority from the private property owners.

- Telecom w/ Kirkie King, U.S. Fish & Wildlife (602) 640-2720 (W), (602) 942-2027 (H) He would like to accompany me on Fri, 1-19-96 field trip. He will call again tomorrow to confirm meeting location.

- Telecom w/ Mark Dahlberg, AZ Game & Fish, (602) 942-3000 x 3260. He may accompany me on Friday if he can change his schedule. He will call back.

Telecom w/ Emily Garber, Tonto NF Dist. Office in Cerefree (602) 488-1344. She gave me the name of the mine, name, address and last phone number of the property owner:

Francine Koboska, 1851 E. Ocotillo, PHX, 85016 ph. 279-4607. There was no answer at the phone # at 3:15 PM.

1-18-96 Attempted to contact Francine Koboska at 279-4607. NA at 10:20 AM. Other related phone calls:

Kirkie King called to confirm field trip tomorrow

Kevin Timothy 956-6629 confirm tomorrow field trip.

Bill Hadden (State Mine Inspector Office) 542-3971

Ken Phillips (AZ Dept. of Mine & Minerals Resources) 255-3745

Blechy Bartner 488-8199 Desert Foothills Land Trust

1-19 Field Trip - meet at Cave Creek & Bell Rd, Cave Creek Rd & Spur Cross Rd. 9 AM - 11 AM & remit to mine site.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division

ADEQ WQD
COMPLAINT NO.
96-005

COMPLAINT / INCIDENT REPORT FORM
(Initial Contact Form to be filled out by employee receiving complaint)
Page 1 of 4

Section File Number

1. PERSON REPORTING INFORMATION (COMPLAINANT)

ATTACHMENT I

| | |
|--|---|
| NAME: <u>Kevin Timothy</u> | If complainant wishes to remain anonymous: <input type="checkbox"/> transfer call to Section investigator <input type="checkbox"/> have complainant call investigator (give NAME, #) <input type="checkbox"/> offer to mail blank INCIDENT/REPORT FORM to complainant for them to fill out and return <input type="checkbox"/> take information on pages 2 & 3 of form yourself |
| ADDRESS: <u>2512 E. Verde Lane</u> <u>Phoenix, AZ. 85016</u> | |
| TELEPHONE NUMBER <u>(602) 956-6629</u> | |
| IS COMPLAINANT AN EYEWITNESS? <input type="checkbox"/> Yes <input type="checkbox"/> No | |

2. COMPLAINT/INCIDENT INFORMATION

| | |
|--|--|
| COUNTY: _____ | CITY/AREA: _____ |
| COMPLAINTS ON TRIBAL LAND NOT REPORTED BY A TRIBAL AUTHORITY ARE REFERRED TO USEPA | |
| INCIDENT TYPE: <u>Drinking water:</u> <input type="checkbox"/> Outage* <input type="checkbox"/> Backflow* <input type="checkbox"/> Contamination (*refer immediately to an ADEQ Drinking Water Field Engineer) <u>Illness/death:</u> <input type="checkbox"/> Human* <input type="checkbox"/> Animal <input checked="" type="checkbox"/> Fish <input type="checkbox"/> (*refer immediately to ADHS Office of Risk Assessment) <u>Pollution:</u> <input checked="" type="checkbox"/> Surface water <input type="checkbox"/> Soil <input type="checkbox"/> Groundwater <input type="checkbox"/> Air <input checked="" type="checkbox"/> Hazwaste <input type="checkbox"/> Solid waste <input type="checkbox"/> Abnormal conditions (odor, color, oil, scum, debris, etc.) <u>Facility related:</u> <input type="checkbox"/> Facility-related problem <input type="checkbox"/> Illegal discharge <u>Other:</u> _____ _____ | DESCRIPTION AND LOCATION OF INCIDENT (continued on back): <u>line contamination in Cane Creek</u> <u>wash - Silver Bell mine (formerly</u> <u>known as Prospect mine). He has</u> <u>talked to HayMat and Norpoint monitoring</u> <u>- heavy metals + acid</u> <u>~ 5 mi. N. of Cane Creek on Spur</u> <u>Creek Spur to Cross Road. Tailings</u> <u>ponds and lime + cyanide leaching</u> <u>- cement lined riprapments</u> ONGOING INCIDENT? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Date/Time of onset: <u>within last 8 months</u> Duration of occurrence: _____ Landowner: _____ Potential responsible party name: <u>federal (forest svc)?</u> Affiliation: _____ Address: _____ Phone: _____ |

3. COMPLAINT/INCIDENT RECEIPT INFORMATION

EMPLOYEE: Chuck Obr PHONE: X 4434 DIV/SEC/UNIT: WQ/SIU/FS
DATE: 1-12-96 TIME: _____ ☐ Letter ☐ In person ☒ Telephone

4. COMPLAINT REFERRED TO Roland Williams DATE 1-12-96 ☐ Outside WQD
X 4506

ATTACHMENT 1 P. 3

COMPLAINT / INCIDENT REPORT FORM

(Form to be filled out by employee following up on complaint)

Page 3 of 4

ADEQ WQD
COMPLAINT NO.

912-005

Section File Number

5. DESCRIPTION OF POLLUTANT(S)

Pollutant(s) observed _____ Quantity _____

6. ENVIRONMENTAL SETTING AND RISK POTENTIAL

| WATERBODY CLASSIFICATION: | HUMAN POPULATION INFORMATION: | NON-HUMAN COMMUNITY: |
|--|--|---|
| <u>Groundwater:</u> <input type="checkbox"/> Drinking water source source name or well ID _____ <input type="checkbox"/> Livestock well <input type="checkbox"/> Irrigation well <input type="checkbox"/> Dry well <u>Surface water:</u> <input type="checkbox"/> Drinking water source source name _____ <input checked="" type="checkbox"/> Flowing stream <input type="checkbox"/> Spring or seep <input checked="" type="checkbox"/> Lake, pond or reservoir <input type="checkbox"/> Effluent dominated water <input type="checkbox"/> Stream bank or floodplain <input type="checkbox"/> Dry wash affected watercourse name <u>Dave Creek wash</u> <u>Other:</u> <input type="checkbox"/> Drinking water - unknown origin source name _____ <input type="checkbox"/> No waterbody affected | <u>Community setting:</u> <input type="checkbox"/> Urban area <input type="checkbox"/> Rural area <input type="checkbox"/> Recreational area <u>Population density:</u> <input type="checkbox"/> Large city (>10,000 residents) <input type="checkbox"/> Medium city (5,000-10,000) <input type="checkbox"/> Small city (1,000-5,000) <input type="checkbox"/> Town (<1,000) <input type="checkbox"/> Transient settlement (no permanent residents) <u>Recreation density:</u> _____ Approximate number of swimmers _____ Approximate number of recreationists (other than swimmers) | <u>Aquatic life affected:</u> <input type="checkbox"/> Fish species _____ _____ _____ <input type="checkbox"/> Insects <u>Terrestrial life affected:</u> <input type="checkbox"/> Wildlife species _____ _____ _____ <input type="checkbox"/> Livestock species _____ _____ _____ <u>Habitat(s) affected:</u> <input type="checkbox"/> Aquatic <input type="checkbox"/> Wetland or Marsh <input type="checkbox"/> Riparian <input type="checkbox"/> Forest <input type="checkbox"/> Chaparral <input type="checkbox"/> Grassland <input type="checkbox"/> High desert <input type="checkbox"/> Low desert <input type="checkbox"/> Other _____ |

7. PROBABLE SOURCE(S) OF POLLUTION

| FACILITY-RELATED: | NON-FACILITY RELATED: |
|---|---|
| <input type="checkbox"/> Drinking water system <input type="checkbox"/> Public water system <input type="checkbox"/> Industrial (processing, manufacturing, storage) <input type="checkbox"/> Sewage treatment plant <input type="checkbox"/> municipal <input type="checkbox"/> private <input type="checkbox"/> Traditional on-site sewage system <input type="checkbox"/> septic tank <input type="checkbox"/> leach field <input type="checkbox"/> Alternative on-site wastewater system <input type="checkbox"/> ET bed <input type="checkbox"/> mound system <input type="checkbox"/> aerobic system <input type="checkbox"/> Transportation (tanker, truck, rail car) <input type="checkbox"/> Concentrated animal feeding operation <input checked="" type="checkbox"/> Mine <input type="checkbox"/> active <input checked="" type="checkbox"/> closed <input type="checkbox"/> Landfill <input type="checkbox"/> active <input type="checkbox"/> closed <input type="checkbox"/> Other _____ _____ | <input type="checkbox"/> Construction site <input type="checkbox"/> Vegetation removal (grading, clear cutting) <input type="checkbox"/> Channelization (flood control, erosion control) <input type="checkbox"/> Recreation <input type="checkbox"/> swimming <input type="checkbox"/> boating <input type="checkbox"/> camping <input type="checkbox"/> Agriculture <input type="checkbox"/> farming <input type="checkbox"/> ranching <input type="checkbox"/> silviculture <input type="checkbox"/> Wildcat dumping on <input type="checkbox"/> public or <input type="checkbox"/> private property <input type="checkbox"/> Sewage sludge dumping <input type="checkbox"/> Private residence <input type="checkbox"/> Public property <input type="checkbox"/> Other _____ _____ |