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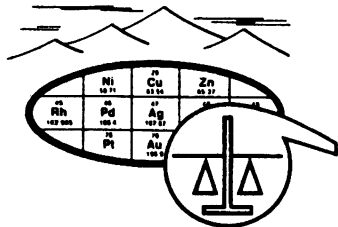
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# SKYLINE LABS, INC.

1775 W. Sahuaro Dr. • P.O. Box 50106

Tucson, Arizona 85703

(602) 622-4836

## REPORT OF ANALYSIS

JOB NO. UGH 235

July 3, 1989

49788-95, 01001-01010

PAGE 1 OF 1

WESTMONT MINING, INC.

Attn: Mr. Hugo Dummett

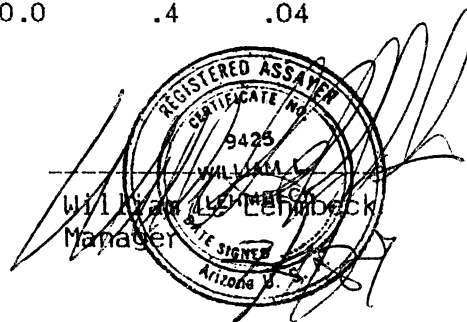
2341 S. Friebus, Suite 12

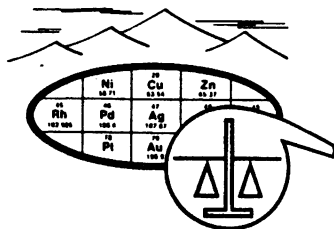
Tucson, AZ 85713

Analysis of 17 Rock and 1 Pulp Samples.

		FIRE ASSAY						
		Au	Ag	As	Sb	Hg		
		(oz/t)	(oz/t)	(ppm)	(ppm)	(ppm)		
ITEM	SAMPLE NO.							
Golden Hillside property north of Tempe. Owner Bob Dieking.	1	49788	.010	<.01	15.0	.6	.06	Channel samples in the open cut.
	2	49789	.010	.04	11.0	.4	.04	
	3	49790	.004	.05	36.0	.5	.04	
	4	49791	.006	.06	26.0	.5	.05	
	5	49792	.016	.07	26.0	.5	.08	
	6	49793	.032	.25	19.0	.6	.60	
	7	49794	.004	.06	32.0	.5	.05	
	8	49795	.008	.13	20.0	.4	.08	
	9	01001	.002	<.01	4.0	.6	.17	
	10	01002	<.002	<.01	2.6	.5	.04	
HOLE # 1	11	01003	<.002	<.01	4.6	.4	.04	
HOLE # 2	12	01004	<.002	<.01	3.4	.5	.03	
✓ # 3	13	01005	.002	.05	4.4	.3	.06	
✓ # 4	14	01006	.002	<.01	5.5	.4	.04	
✓ # 5	15	01007	.016	.08	9.5	.5	.13	
✓ # 1	16	01008	.006	<.01	4.6	1.5	.11	
VEIN, PIT ENTRANCE	17	01009	.070	.26	20.0	.4	.04	
	18	01010 CCB-200	.055	.10				

to files: Declined Westmont participation: *AD*





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Tucson, AZ 85713

Analysis of 17 Rock and 1 Pulp Samples.

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		Au (oz/t)	Ag (oz/t)	As (ppm)	Sb (ppm)	Hg (ppm)
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5	49792	.016	.07	26.0	.5	.08
6	49793	.032	.25	19.0	.6	.60
7	49794	.004	.06	32.0	.5	.05
8	49795	.008	.13	20.0	.4	.08
9	01001	.002	<.01	4.0	.6	.17
10	01002	<.002	<.01	2.6	.5	.04
11	01003	<.002	<.01	4.6	.4	.04
12	01004	<.002	<.01	3.4	.5	.03
13	01005	.002	.05	4.4	.3	.06
14	01006	.002	<.01	5.5	.4	.04
15	01007	.016	.08	9.5	.5	.13
16	01008	.006	<.01	4.6	1.5	.11
17	01009	.070	.26	20.0	.4	.04
18	01010	.055	.10			

REPORT ON THE  
GOLDEN HILLSIDE PROPERTY  
APACHE JUNCTION, ARIZONA

FOR

Robert J. Dierking

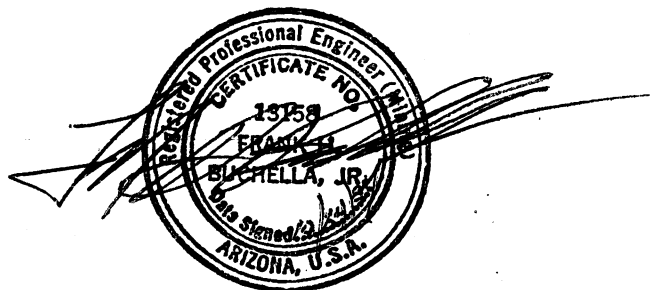
OCTOBER 22, 1987

FRANK H. BUCHELLA, JR P.E.

MINING CONSULTANT

7949 N. SENDERO UNO

TUCSON, ARIZONA 85704



## INTRODUCTION

### History

In the early 1800's the Peralta Family of Mexico first came into the region and found rich free-milling ore on the surface. Lack of roads and the hostility of the Apache Indians discouraged prospecting in the Goldfield Superstition Mountain area until 1879. Prospecting and mining were then undertaken and the population is reported to have reached 1500 during the main mining boom of 1892-1904.

In the early 1900's the Mammoth Mine was born and became the largest and richest gold mine in Arizona. In recent years the Black Queen Property, south of the Golden Hillside Property, has been developed along similar structures that the Golden Hillside Property is on.

The Golden Hillside claims were registered in 1907 and mining was done throughout the Depression Years. In more recent times Messrs Joseph Stephan and Robert Dierking worked the property and developed a 170 foot shaft and a small pit that contained good values of gold.

### Location

The Golden Hillside Property is located predominately in sections 25 And 36, T2N, R8E, G. & S. R. M. of the Superstition Mining District. The property, which consists of 17 unpatented claims totaling 340 acres lies 30 miles east of Phoenix and 8 miles north of Apache Junction in Maricopa County, Arizona. (Figure 1)

The property is reached by following State Highway 88 north seven miles from Apache Junction to the Tonto National Forest boundary and then northwest one mile by unimproved dirt road to the property.

The topography in the area is moderate with an elevation ranging from 2050 to 2280 feet above sea level. The vegetation is predominately cactus, palo verde and low desert brush.

## GEOLOGY

### Regional

The Golden Hillside property is located within the Basin and Range province near the point where the generally north trending mountain ranges change to a northwest trend. The ranges are separated by aggraded desert plains.

The oldest rocks in the area are precambrian granite intrusions consisting of granite and quartz monzonite. The intrusions form the basement rocks in the region.

The basement is overlain by a conglomerate with rounded to semi-rounded pebbles. The conglomerate is believed to be of early Tertiary age.

Throughout the Basin and Range province a period of intense deformation, sometimes called the Basin and Range disturbance began about 30 million years ago and continued until some 15 million years ago. This was a time of intense volcanic and tectonic activity and formed the major geological features of the area.

The Basin ranges represent fault blocks of complex internal structure which were elevated in reference to adjacent relatively depressed basins, plains or valleys. Many seem to be bounded by faults on one or more sides, which may occur within continuous zones or partly en echelon. The displacements of the faults range from relatively small amounts to several thousands of feet, and are regarded as dominantly of the normal type, but may also include reverse, thrust and lateral movements in several localities.

The Superior volcanic field covers the area, and five volcanic centers are known within the area. The Superstition cauldron is the major center, with others being the Black Mesa, Florence Junction, Haunted Canyon and Willow Springs. Some 4,000 cubic kilometers of volcanic ash and lava were extruded, covering an area of 8,000 square kilometers. The trend in rock types progresses from an early intermediate composition dome and lava stage through a silicic composition ash flow stage to a late mafic composition lava stage.

The history of the volcanic center can be summarized as follows: 1. Formation of early intermediate to mafic domes and composite volcanoes; 2. Caldera collapse with formation of welded tuffs; 3. Resurgence of central dome and intrusion of ring dikes.

The ring fracture system caused by caldera collapse is important, as this system is believed to have been the plumbing system for the migration of hydrothermal solutions. The hydrothermal solutions contained dissolved metals which eventually formed ore deposits.

## Local

The oldest formation on the Golden Hillside property is the granitic basement consisting mainly of pink granite. This rock is generally coarse grained with large pink feldspar phenocrysts, but occasionally becomes finer grained. A fine grained scericitic granite, with sugary intergrowths of quartz and pink feldspar forms a small dike like body to the southeast of the pit. An arkosic conglomerate covers a large area on the Golden Hillside and Golden Hillside 4 & 5 claims. This unit strikes N 30 degrees W and dips 40 degrees to 50 degrees east. The conglomerate rest unconformably on the Precambrian basement.

The conglomerate is composed of moderately sorted, rounded to semi-rounded quartz and feldspar pebbles, usually less than 15 centimeters in diameter. Up section the conglomerate is very poorly sorted and composed chiefly of quartzite clasts but also containing limestone, chert, sandstone and metamorphic clasts. Boulders larger than one meter are found within this section. Generally the unit is poorly exposed, but weathered clasts of the quartzite are often observed on the surface.

A dark grey, to bluegrey and purple basalt unconformably overlies the conglomerate. Textures within the basalt range from flows to breccias. Near the contact of the basalt and dacite tuff, large breccia fragments up to 30 centimeters in diameter were observed. This unit is approximately 80 feet thick.

A 50 feet wide sequence of grey dacite tuffs overlie the basalt. This is the basal unit for very thick accumulations of dacite volcanics. The unit strikes N 35 degrees W to N 45 degrees W and dips 30 degrees to 45 degrees to the east.

Overlying the tuff is a large accumulation of grey dacite volcanics containing flows, tuffs and breccias. This unit covers most of the Golden Hillside property. The unit generally strikes north northwest.

A light grey rhyolite dike approximately 25 feet wide appears to have been emplaced along the N 5 degrees W fault zone which contains the gold mineralization. The dike outcrops at many places along the Golden Hillside claim. In many places the dike has been offset, indicating significant cross faulting.

The major structure on the property is a N 5 degrees W trending fault zone. This fault places the conglomerate in contact with the basalt and dacite volcanics. This fault dips at 35 degrees to 45 degrees to the west. A second fault zone 100 feet east of the major fault is some 15 feet wide and is exposed at the pit. This fault strikes N 5 degrees W and dips 85 degrees east. To the north of the Pit, a rhyolite dike outcrops along the expected strike of the fault. This dike would be similar to the dikes associated with the ring fracturing of the cauldron complex.

One major cross fault is found on the property 150 feet north of the Burnt Shaft. Displacement along the fault would appear to be in the range of 200 feet.

The conglomerate unit shows considerable fracturing. Three prominent fracture directions are apparent, N 5 degrees W to N 20 degrees W, N 20 degrees E, and E-W. In many cases small calcite or quartz veinlets occur within the fractures. Intersections of the main fault zones and cross fractures would appear to be the most favorable exploration targets.

### Mineralization

The gold mineralization on the Golden Hillside property appears to be related to the major faults passing through the property. Quartz and calcite veinlets and stockworks are associated with the structures.

At the Calcite Cut a stockwork of black calcite occurs in the conglomerate below the footwall of the fault. The black calcite (manganiferous calcite) occurs as veins up to three feet wide near or within the fault zone. In the conglomerate below the footwall of the fault the calcite veining becomes a stockwork with 1 to 6 inch wide black calcite veinlets. The stockwork extends 15 feet from the fault before it is covered by overburden. The total width of the zone is not known.

A number of surface samples were taken along the fault zones and around the pit area with the following results: (figure 2)

<u>Sample No.</u>	<u>Width (feet)</u>	<u>Gold</u>		<u>Silver</u>		<u>Description</u>
		<u>ppb</u>	<u>oz/ton</u>	<u>ppm</u>	<u>oz/ton</u>	
GH-4	1.0	-	0.015	-	6.49	Stockwork
GH-5	grab	-	0.055	-	0.47	Stockwork
GH-6	4.0	-	0.015	-	0.45	Stockwork
GH-52	4.0	-	0.005	5.8	-	Stockwork
GH-55	2.5	-	0.032	6.0	-	congl., veinlets
GH-56	4.0	-	0.004	6.0	-	congl., veinlets
GH-57	7.0	0.020	-	1.2	-	fault breccia
GH-58	4.5	0.012	-	2.8	-	fault breccia
GH-59	10.0	0.013	-	4.4	-	quartz stockwork
GH-60	7.5	0.003	-	0.4	-	quartz stockwork
GH-61	4.0	0.001	-	1.0	-	fault breccia
GH-62	10.0	0.002	-	1.8	-	quartz stockwork
GH-63	10.0	0.006	-	3.0	-	quartz stockwork
GH-64	5.0	0.096	-	4.6	-	quartz stockwork
GH-65	4.0	160	-	1.6	-	quartz stockwork
GH-66	4.0	180	-	6.6	-	quartz stockwork
GH-67	grab	2,200	-	10.2	-	silicif., az. mal
GH-68	10.0	250	-	6.8	-	fract., congl.
GH-69	7.0	580	-	2.6	-	fract., congl.



<u>Sample No.</u>	<u>Width (feet)</u>	<u>Gold</u> ppb      oz/ton	<u>Silver</u> ppm      oz/ton	<u>Description</u>
GH-79	3.5	13,000 -	9.0 -	congl., veinlets
GH-80	4.0	30 -	2.2 -	congl., veinlets
GH-81	3.0	920 -	13.2 -	congl., veinlets
GH-82	15.0	290 -	1.2 -	basalt, veinlets
GH-83	11.0	150 -	5.0 -	basalt, veinlets
GH-84	3.0	60 -	0.2 -	congl., veinlets
GH-88	2.5	10 -	0.2 -	congl., veinlets
GH-89	2.0	10 -	0.2 -	congl., veinlets
GH-90	2.0	10 -	0.4 -	congl., veinlets
GH-91	2.5	10 -	0.2 -	congl., veinlets
GH-95	5.0	2,000 -	3.6 -	congl., veinlets
GH-96	4.0	20 -	3.2 -	congl., veinlets
GH-97	4.0	10 -	3.7 -	congl., veinlets
GH-330	7.0	60 -	2.0 -	congl., veinlets
GH-331	3.5	10 -	0.2 -	stockwork
GH-332	5.0	640 -	0.2 -	stockwork
GH-333	7.0	30 -	0.2 -	stockwork
GH-342	7.0	70 -	0.6 -	stockwork
GH-343	5.0	90 -	0.2 -	stockwork
GH-344	3.5	320 -	3.6 -	stockwork

The area of most widespread gold mineralization on the property extends from the Burnt Shaft south, to the south end of the drill zone. Within this area a number of trenches and workings exist where sampling indicated gold mineralization. The mineralization appears to be associated with a quartz stockwork near or within the fault zone, and calcite veining further away from the fault. Considerable coarse visible gold has been found within the trenches where samples GH-53:54 were taken. The visible gold occurs within quartz and calcite veinlets. Surface samples were taken with the following results:

<u>Sample No.</u>	<u>Width (feet)</u>	<u>Gold</u> ppb      oz/ton	<u>Silver</u> ppm      oz/ton	<u>Description</u>
GH-16	2.5	-      0.080	-      0.90	fract. congl.
GH-17	3.0	-      0.030	-      0.37	fract. congl.
GH-18	5.0	-      0.055	-      0.55	fract. congl.
GH-50	6.0	-      0.004	0.4 -	congl.
GH-51	7.0	-      0.001	0.2 -	congl.
GH-53	8.0	-      0.076	15.2 -	congl., veinlets
GH-54	3.0	-      0.032	6.2 -	congl., veinlets

Significant wide spread low grade gold mineralization exists on the property, over a strike length of 1,500 feet. The gold appears to be associated with N 5 degrees W faulting and quartz and calcite stock-works within the conglomerate unit. The quartz-calcite veinlets occur over much of the conglomerate. However away from the fault zone the mineralization is relatively weak, with the veinlets widely spaced.

Drill Results

Ten percussion-rotary drill holes 6 inches in diameter totalling 2,000 feet were drilled in 1982. The most significant intersections were in drill holes # 3, # 4, # 5 and # 6 which are located on the southeast corner of the property and northeast of the pit area. A summary of the holes is as follows:

Hole No.	Assay Interval	AU oz/ton	AG oz/ton
3	65' to 85'	0.175	0.08
4	25' to 155'	0.092	0.09
5	35' to 75'	0.058	0.09
	115' to 155'	0.048	0.06
6	15' to 25'	0.068	0.12
	95' to 135'	0.043	0.08

Leach Tests

Two composite samples of drill cuttings were analyzed in the laboratory using an agitated leach.

The rate of gold dissolution was measured in two bottle roll tests and was found to be moderately rapid and complete in 24 hours. The results are characteristic of fine gold in the barely-visible range (50-150 microns).

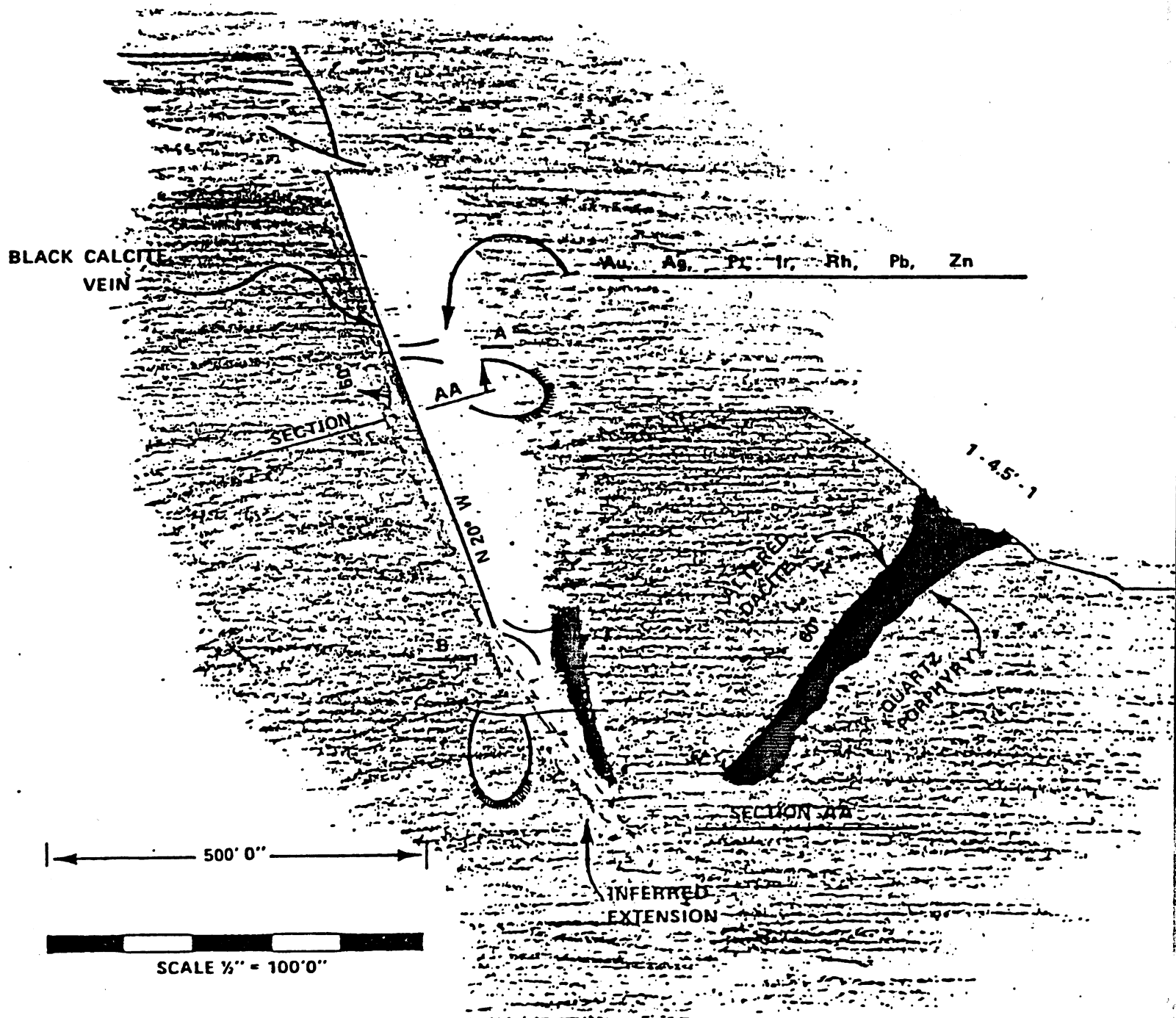
The overall findings indicate a very irregular distribution of relatively large pockets of finely divided gold. This type of distribution might result if the gold was present in the original (unoxidized) rock as fine dispersions within high-grade, large crystals of pyrite or other sulphide minerals. Distribution as large grains of gold telluride would also fit the observations.

The data indicate that recovered precious metal will assay approximately 60 percent gold, 40 percent silver.

Final test solutions contained negligible amounts of copper (less than 1ppm). Very little cyanide was consumed in the tests, and the final PH of 10.0 was unchanged from starting conditions. The results indicate there should be no chemical problems with cyanidation.



LEGEND	
	DACITE
	QUARTZ PORPHYRY
	ALLUVIUM
	FELSITE
	VOLCANIC-BRECCIA
	FAULT
	OPEN - CUT
	DUMP



## of

known as

**situate in**

**Superstition Mining District**

Scale 1" = 1000'

Oct. 8, 1981



**G.H. = Golden Hillside**  
**G.H.F. = Golden Hillside**  
**Fraction**

**Note:** o - denotes all mons.  
Mons. are 2"x 2"x 4', 2"x 2"x 4'6",  
4"x 4"x 4' and 4"x 4"x 4'6" posts.

**FIGURE .1**

THE FOLLOWING UNPATENTED LODE MINING CLAIMS SITUATED IN THE SUPERSTITION MINING DISTRICT, MARICOPA COUNTY, ARIZONA, THE NAMES, THE DOCKETS AND PAGES OF RECORDING OF THE LOCATION NOTICES IN THE OFFICE OF THE MARICOPA COUNTY RECORDER, AND THE NUMBER ASSIGNED BY THE ARIZONA STATE OFFICE OF THE BUREAU OF LAND MANAGEMENT OF WHICH ARE AS FOLLOWS:

<u>NAME OF CLAIM</u>	<u>DOCKET</u>	<u>PAGE</u>	<u>AMC #</u>
GOLDEN HILLSIDE	6159	615	31512
GOLDEN HILLSIDE #2	10794	1000	31513
GOLDEN HILLSIDE #3	10993	383	31514
GOLDEN HILLSIDE #4	10993	384	31515
GOLDEN HILLSIDE #5	11038	956	31516
GOLDEN HILLSIDE #6	11038	957	31517
GOLDEN HILLSIDE #7	11038	958	31518
GOLDEN HILLSIDE #8	11068	515	31519
GOLDEN HILLSIDE #9	11048	865	31520
GOLDEN HILLSIDE CLAIM #10	11081	620	31521
GOLDEN HILLSIDE CLAIM #11	11081	621	31522
GOLDEN HILLSIDE #12	11068	516	31523
GOLDEN HILLSIDE CLAIM #13A	11081	622	31524
GOLDEN HILLSIDE #14	11092	863	31525
GOLDEN HILLSIDE #15	11092	864	31526
GOLDEN HILLSIDE #16	11439	448	31527
GOLDEN HILLSIDE #23	11439	449	31528
GOLDEN HILLSIDE #24	15604	222	143530
GOLDEN HILLSIDE #25	15604	223	143531
GOLDEN HILLSIDE FRACTION	15604	225	143532
GOLDEN HILLSIDE FRACTION #2	15604	227	143533
GOLDEN HILLSIDE FRACTION #3	15604	229	143534
GOLDEN HILLSIDE FRACTION #4	15604	231	143535
GOLDEN HILLSIDE FRACTION #5	15604	233	143536
BLACK STAKE	16102	1308	180272

# J and J Research and Development Inc.

Gold, Silver and Platinum Ores

2027 South McQueen Road • Mesa, Arizona 85202

Phone: (602) 892-4561

August 27, 1982

S.S. International Trade, Inc.  
1630 E. 4th Avenue  
Apache Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

## Hole #7. 155' - 165'

4 5/4 gas ore }  
3 gas NaCn }  
3 gas Oxidizer }  
1/4 ga Caustic }

1500 ml. H<sub>2</sub>O, leach & stir for 4 hrs. Filter & wash. Add resin to NaCn solution, stir for 10 minutes. Filter & wash. Burn resin & assay.

Assay results: 0.69 oz/ton Au ✓  
0.85 oz/ton Ag

## Hole #6. 25' - 35'

4 5/4 gas ore }  
3 gas NaCn }  
3 gas Oxidizer }  
1/4 ga Caustic (pH Control) }

Add 1500 ml. H<sub>2</sub>O. Leach & stir for 4 hrs. Filter & wash. Add resin to NaCn solution. Stir for 10 minutes. Filter & wash. Burn resin & assay.

Assay results: 0.08 oz/ton Au  
1.30 oz/ton Ag

JCH:hh

  
Jerry C. Henderson, Research Chemist



# J and J Research and Development Inc.

Gold, Silver and Platinum Ores

2027 South McQueen Road • Mesa, Arizona 85202

Phone: (602) 892-4561

August 27, 1982

S.S. International Trade, Inc.  
1630 E. 4th Avenue  
Apache Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

## Hole #9, 15' - 25'

454 gms. ore  
3 gms. NaCN  
3 gms. Oxidizer

1500 ml. H<sub>2</sub>O, leach & stir for 4 hrs. Filter & wash. Add resin to NaCN solution. Stir for 10 minutes. Filter & wash. Burn & assay.

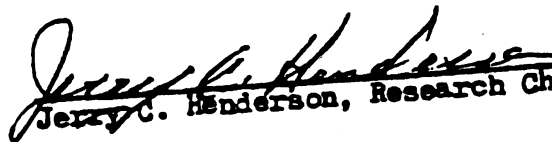
Assay results: 0.14 oz/ton Au  
0.56 oz/ton Ag

## Hole #8, 115' - 125'

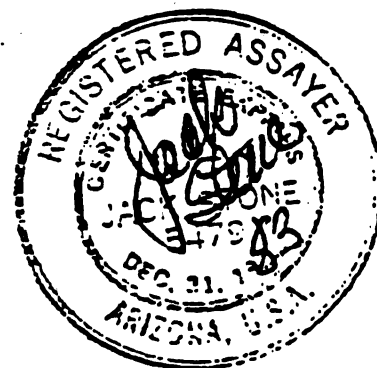
454 gms. ore  
3 gms. NaCN  
3 gms. Oxidizer

1500 ml. H<sub>2</sub>O, leach & stir for 4 hrs. Filter & wash. Resin mixed with NaCN solution. Stir for 10 minutes. Filter & wash. Burn, assay & cupel.

Assay results: 0.33 oz/ton Au ✓  
0.95 oz/ton Ag

  
Jerry C. Henderson, Research Chemist

JCH:hh



# J and J Research and Development Inc.

Gold, Silver and Platinum Ores

2027 South McQueen Road • Mesa, Arizona 85202

Phone: (602) 892-4561

August 24, 1982

S.S. International Trade, Inc.  
1630 E. 4th Avenue  
Apache Junction, AZ 85220


SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

Hole #10; 45' - 55'

454 gas ore  
3 gas KCN  
4 gas Oxidizer  
2 gas wetting agent  
1500 ml H<sub>2</sub>O

} Stir & heat 4 hrs. 1200F. Filter & wash.  
Resin added to KCN solution. Stir for 10 min.  
Filter & wash.

Burn resin & assay: 0.103 oz/ton Au  
0.60 oz/ton Ag

  
Jerry E. Henderson, Research Chemist

JCH:hh





# J and J Research and Development Inc.

*Gold, Silver and Platinum Ores*

2027 South McQueen Road • Mesa, Arizona 85202

Phone: (602) 892-4561

August 27, 1982

S.S. International Trade, Inc.  
1630 E. 4th Avenue  
Apache Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

Hole #4. 25' - 35'

4 1/2 gas ore	}	1500 ml. H <sub>2</sub> O, leach & stir for 4 hrs. Filter & wash. Add resin to NaCN solution. Stir for 10 minutes. Filter & assay.
3 gas NaCN		
3 gas Oxidizer		

Assay results: 0.160 oz/ton Au  
1.20 oz/ton Ag

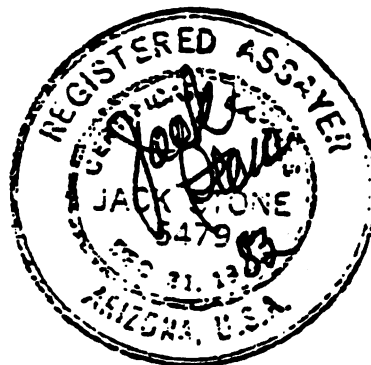
Hole #1. 85' - 95'

4 1/2 gas ore	}	Leach & stir for 4 hrs. Filter & wash. Add resin to NaCN solution & stir for 10 minutes. Burn resin and assay.
3 gas NaCN		
3 gas Oxidizer		

Assay results: 0.11 oz/ton Au  
0.508 oz/ton Ag

JCH:hh

  
Jerry C. Henderson, Research Chemist



# J and J Research and Development Inc.

Gold, Silver and Platinum Ores

2027 South McQueen Road • Mesa, Arizona 85202

Phone: (602) 892-4561

August 24, 1982

S.S. International Trade, Inc.  
1630 E. 4th Avenue  
Apache Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

## Composite Sample.

454 gms ore } Leach to dryness. Regrind, add water and  
400 ml H<sub>2</sub>O } filter & wash.  
50 ml P<sub>2</sub>O<sub>5</sub>

3 gms KCN } Same ore as above. Solution was assayed from  
4 gms Oxidizer } P<sub>2</sub>O<sub>5</sub>. Roast & wash. Trace Au & Ag.  
2 gms wetting agent }

4 hr. leach. Filter & wash KCN solution. Resin added & stirred  
for 10 minutes. Filter & wash. Burn & assay: 0.08 oz/ton Au  
1.08 oz/ton Ag

  
Jerry C. Henderson, Research Chemist

JCH:hh



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1630 E. 4th Avenue  
Apache Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

Hole #3. 335' - 345'

454 gms ore  
3 gms NaCN  
3 gms Oxidizer  
1 gm Caustic

1500 ml. H<sub>2</sub>O, leach & stir 4 hrs. Filter & wash.  
Add resin to NaCN solution, stir for 10 minutes.  
Filter & wash.

Burn & pour bar for electrolytic. { 1450 ml. H<sub>2</sub>O  
75 ml. HNO<sub>3</sub>

Assay results:	Anode & Cathode mud	- 9.70 mg. Au;	668.3 mg Ag
	Ag Chloride	- 0.60 mg. Au;	748.04 mg Ag
	Electrolite	- 3.75 mg. Au;	68.4 mg Ag
	Total	0.90 oz/ton Au ✓	32.8 oz/ton Ag

Hole #5. 35' - 45'

454 gms ore  
3 gms NaCN  
3 gms Oxidizer  
1 gm Caustic

Add 1500 ml. H<sub>2</sub>O, leach & stir for 4 hrs. Filter & wash. Add resin to NaCN solution & stir for 10 minutes. Filter & wash. Burn & assay.

Assay results: 0.07 oz/ton Au  
0.94 oz/ton Ag

*Jerry C. Henderson*  
Jerry C. Henderson, Research Chemist

JCH:hh



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4th Avenue

Junction, AZ 85220

1: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

2: 165' - 175'

3 gas KCN  
3 gas Oxidizer  
2 gas wetting agent  
4 gas ore  
0 ml H<sub>2</sub>O

Stir and heat 4 hrs. 1200F. Filter & wash.  
KCN solution, stir. Add resin & mix for  
10 min. Filter & Wash. 3242 mg. Ag.

resin. Use two scorefire dishes. Split resin ash in two. Add  
as litharge, mix with resin. Melt at 1950F. Add both lead buttons  
bar and pour into bar. Clean bar and run in electrolytic.

150 ml H<sub>2</sub>O }  
75 ml HNO<sub>3</sub> } Plate at 9 to 10 amps.

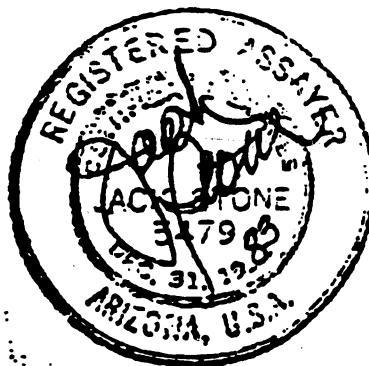
• & Cathode filter, wash & assay.

• & cathode button wt.	- 242 mg.	- 0.32 Au
electrolyte button wt.	- 784 mg.	- 0.08 Au
bar button wt.	- 2262 mg.	- 0.06 Au
		<u>0.46 Au</u>

Ag. 2.6

  
Jerry C. Henderson, Research Chemist

l:hh



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August 24, 1982

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1630 E. 4th Avenue  
Apache Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

Method #2 (Gurley)

100 gms of Composite sample (3.3 A.T.)

Head assayed: 16 oz/ton Ag  
Trace Au

36 gms ammonia Thio sulfate  
2 gms ammonia sulfite  
200 ml H<sub>2</sub>O

After 1 hr. add 1.5 gm CuSO<sub>4</sub>  
Maintain 7.5 - 9 pH  
(use ammonia hydroxide)  
Leach 8 hrs., strip with Zn or resin.  
Inquart and assay.

Assay resin:  
8 mg button (6 Ag/2Au): 1.8 oz/ton Ag  
0.6 oz/ton Au

  
Jerry C. Henderson, Research Chemist

JCH:hh



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SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

Heads of 8, 115' - 125'; 0.92 Au; 45.47 Ag


Standard Moapa: #8, 115 - 125'

1 lb -80 mesh ore            15. A.T.  
4 gms KCN  
20 ml raw Oxy oxydizer  
1400 ml H<sub>2</sub>O  
2 gm wetting agent

Agitate 4 hrs., filter. Add Oxy resin to filtrate.  
Make PB bar. Assay after electrowin.

Tail assay: Trace Ag  
0.00 Au

Extraction assay: 0.28 oz/ton Au ✓  
0.617 zo/ton Ag

  
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JCH:hh



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SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

## Method #1 System

Leach Test Hole 8, 115' - 125'

454 gm. ore ground to 80 mesh.

15 gm. NaOH

10 ml H<sub>2</sub>O<sub>2</sub>

10 gm Powder Oxidizer

15 gm "Orzan" lignin

5 gm KCN or NaCN

Mix with H<sub>2</sub>O one-half hour.

add ore to 1200 ml H<sub>2</sub>O

(30% solids)

Leach 4 hrs., filter and wash. Add Oxy resin, Burn @ 500°F.

Cast in PB bar. Electrowin in 5% sol. nitric.

Filter residue. Assay residue.

Head assay: Total metal 0.92 oz/ton Au  
45.47 oz/ton Ag


Tail assay: 1.5 button Trace Au  
1.4 oz/ton Ag

Actual extraction 10 mg metal - 0.7 oz. total  
6 mg Ag - 0.4 " (28%)  
4 mg Au - 0.26 "

Check solution after stripping.

Solution was very dark so used Fe, wool for cathode (-), and stainless for anode. Digested iron with HCL, filtered and assayed residue.

Values left: 4.82 oz/ton Ag  
0.00 oz/ton Au

  
Jerry E. Henderson, Research Chemist

JCH:hh



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SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

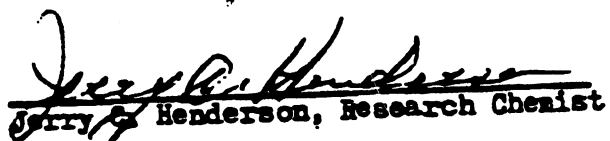
Composite inquant 1259 - 5.83 oz/ton Ag  
16.00 oz/ton Au

Composite 2nd Check inquant 95 ag.

No. 7 - 15' - 25'

30 gms.  
15 ml H<sub>2</sub>O plus 30% H<sub>2</sub>SO<sub>4</sub>  
Boil to dryness (2 hrs.)  
Add H<sub>2</sub>O, Filter, Burn solution.

Filter precipitates and assay:  
30.00 oz/ton Ag  
2.00 oz/ton Au ✓

  
Jerry G. Henderson, Research Chemist

JCH:hh





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August 27, 1982

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Apache Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

## Method #2 (Curley)

100 gms of ore was used on the following samples (3.3 A.T.):

36 gms ammonia Thio sulfate  
2 gms ammonia sulfite  
200 ml H<sub>2</sub>O

After 1 hr. add 1.5 gm CuSO<sub>4</sub>

Maintain 7.5 - 9 pH

(use ammonia hydroxide)

Leach 8 hrs., strip with Zn or resin.

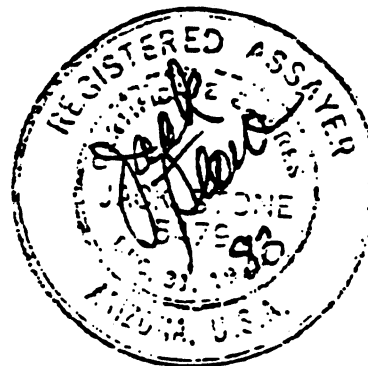
Inquart and assay.

## Results:

	<u>Au</u> <u>Oz/ton</u>	<u>Ag</u> <u>Oz/ton</u>
1. (Curley) Hole #10, 45' - 55'	0.18 ✓	0.04
2. Hole #1, 125' - 135'	0.33 ✓	0.06
3. (Curley) Hole #1, 85' - 95'	Trace	None
4. Hole #2, 165' - 175'	0.02	Trace
5. Hole #9, 15' - 25'	Trace	Nil

  
Jerry C. Henderson, Research Chemist

JCH:hh



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Phone: (602) 892-4561

August 17, 1982

S.S. International Trade, Inc.  
1630 E. 4th Avenue  
Apache Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

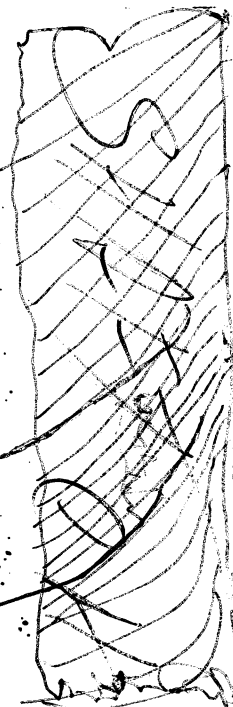
Process used for analysis: Scorefire assay.

5 grams of ore  
70 grams of litharge  
15 grams of flour  
5 grams of soda ash  
5 grams of borax (as cover)  
1 gram of silver (in-quart)

Furnace at 1950°F, 3½" scorefire,  
ending up with a 30 - 40 gram lead  
button.

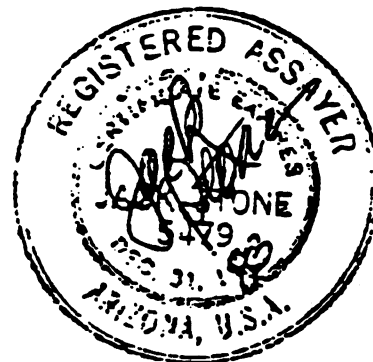
Assay results as follows:

<u>Sample No. &amp; Depth</u>			<u>Au</u> <u>Gr./ton</u>	
1.	0 to 5'	Hole #1	0.03	
2.	5 to 15'	"	Trace	
3.	15 to 25'	"	0.01	
4.	25 to 35'	"	Trace	
5.	35 to 45'	"	0.04	
6.	45 to 55'	"	0.12	
7.	55 to 65'	"	0.10	
8.	65 to 75'	"	Trace	
9.	75 to 85'	"	0.02	
10.	85 to 95'	"	0.04	
11.	95 to 105'	"	0.08	
12.	105 to 115'	"	0.70	
13.	115 to 125'	"	0.14	
14.	125 to 135'	"	0.15	
15.	135 to 145'	"	0.02	
16.	145 to 155'	"	0.62	
17.	155 to 165'	"	0.04	
18.	165 to 175'	"	0.08	



JCH:shh

*Jerry O. Henderson*  
Jerry O. Henderson, Research Chemist



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Gold, Silver and Platinum Ores

2027 South McQueen Road • Mesa, Arizona 85202

Phone: (602) 892-4561

August 17, 1982

International Trade, Inc.

104th Avenue

Phoenix Junction, AZ 85220

RE: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

Assays used for analysis: Scorefire assay.

5 grams of ore  
70 grams of litharge  
15 grams of flour  
5 grams of soda ash  
5 grams of borax (as cover)  
1 gram of silver (in-quart)

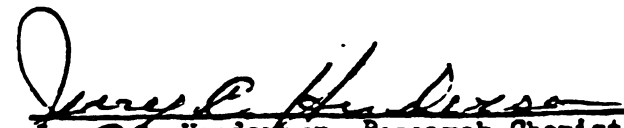
Furnace at 1950°F, 3½" scorefire,  
ending up with a 30 - 40 gram lead  
button.

Assay results as follows:

Sample No. & Depth	Hole #2	Au Oz./ton
0 to 5'	"	0.02
5 to 15'	"	0.02
15 to 25'	"	0.03
25 to 35'	"	0.06
35 to 45'	"	0.08
45 to 55'	"	0.02
55 to 65'	"	0.04
65 to 75'	"	0.12
75 to 85'	"	0.06
85 to 95'	"	0.09
95 to 105'	"	0.02
105 to 115'	"	0.03
115 to 125'	"	Trace
125 to 135'	"	0.08
135 to 145'	"	0.08
145 to 155'	"	0.10
155 to 165'	"	0.14
165 to 175'	"	0.08

NOTE: Two (2) 1000 gm. silver inquarts were cupelled - 975.00 mg.

JCH:hh

  
Jerry C. Henderson, Research Chemist



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Gold, Silver and Platinum Ores

2027 South McQueen Road • Mesa, Arizona 85202

Phone: (602) 892-4561

August 13, 1982

S.S. International Trade, Inc.  
1630 E. 4th Avenue  
Apache Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

Process used for analysis: Scorefire assay.

5 grams of ore  
70 grams of litharge  
15 grams of flour  
5 grams of soda ash  
5 grams of borax (as cover)  
1 gram of silver (in-quart)

Furnace at 1950°F, 3½" scorefire,  
ending up with a 30 - 40 gram lead  
button.

Assay results as follows:

## Sample No. & Depth

Sample No.	Depth	Hole #3
1.	0 to 5'	
2.	5 to 15'	"
3.	15 to 25'	"
4.	25 to 35'	"
5.	35 to 45'	"
6.	45 to 55'	"
7.	55 to 65'	"
8.	65 to 75'	"
9.	75 to 85'	"
10.	85 to 95'	"
11.	95 to 105'	"
12.	105 to 115'	"
13.	115 to 125'	"
14.	125 to 135'	"
15.	135 to 145'	"
16.	145 to 155'	"
17.	155 to 165'	"
18.	165 to 175'	"
19.	175 to 185'	"
20.	185 to 195'	"
21.	195 to 205'	"

Assay  
Oz./ton

0.04

4.80

0.02

0.09

0.02

2.04

0.12

0.08

1.22

0.06

0.03

Trace

0.02

0.01

Trace

0.02

0.09

0.02

0.18

0.14

0.06

NO SAMPLE



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Phone: (602) 892-4561

August 16, 1982

S.S. International Trade, Inc.  
1630 E. 4th Avenue  
Apache Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

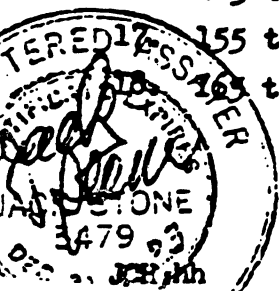
Process used for analysis: Scorefire assay.

5 grams of ore  
70 grams of litharge  
15 grams of flour  
5 grams of soda ash  
5 grams of borax (as cover)  
1 gram of silver (in-quart)

Furnace at 1950°F, 3½" scorefire,  
ending up with a 30 - 40 gram lead  
button.

Assay results as follows:

Sample No. & Depth	Hole #4	Au Oz./ton
1. 0 to 5'		0.22
2. 5 to 15'	"	0.16
3. 15 to 25'	"	0.14
4. 25 to 35'	"	0.20
5. 35 to 45'	"	0.11
6. 45 to 55'	"	0.20
7. 55 to 65'	"	0.04
8. 65 to 75'	"	0.03
9. 75 to 85'	"	0.08
10. 85 to 95'	"	0.02
11. 95 to 105'	"	0.16
12. 105 to 115'	"	0.05
13. 115 to 125'	"	0.12
14. 125 to 135'	"	0.09
15. 135 to 145'	"	0.16
16. 145 to 155'	"	0.03
17. 155 to 165'	"	0.09
18. 165 to 175'	"	0.14



*James P. Henderson*  
James P. Henderson, Research Chemist

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August 16, 1982

International Trade, Inc.  
10 E. 4th Avenue  
Tucson Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

Process used for analysis: Scorefire assay.

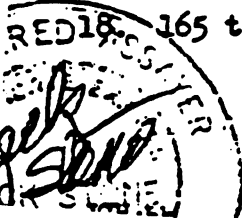
5 grams of ore  
70 grams of litharge  
15 grams of flour  
5 grams of soda ash  
5 grams of borax (as cover)  
1 gram of silver (in-quart)

Furnace at 1950°F, 3½" scorefire,  
ending up with a 30 - 40 gram lead  
button.

Assay results as follows:

Sample No. & Depth			Au Oz./ton
1.	0 to 5'	Hole #5	0.06
2.	5 to 15'	"	0.12
3.	15 to 25'	"	0.10
4.	25 to 35'	"	0.08
5.	35 to 45'	"	0.14
6.	45 to 55'	"	0.06
7.	55 to 65'	"	0.08
8.	65 to 75'	"	0.11
9.	75 to 85'	"	0.12
10.	85 to 95'	"	0.12
11.	95 to 105'	"	0.08
12.	105 to 115'	"	0.06
13.	115 to 125'	"	0.14
14.	125 to 135'	"	0.16
15.	135 to 145'	"	0.14
16.	145 to 155'	"	0.10
17.	155 to 165'	"	0.10
18.	165 to 175'	"	0.06

  
Jerry C. Henderson, Research Chemist



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August 19, 1982

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1630 E. 4th Avenue  
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SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

Process used for analysis: Scorefire assay.

5 grams of ore  
70 grams of litharge  
15 grams of flour  
5 grams of soda ash  
5 grams of borax (as cover)  
1 gram of silver (in-quart)

Furnace at 1950°F, 3½" scorefire,  
ending up with a 30-40 gram lead  
button.

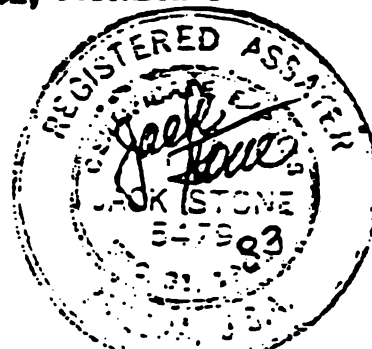
Assay results as follows:

<u>Sample No. &amp; Depth</u>	<u>Au</u> <u>Oz./ton</u>
1. 0 - 5' Hole #7	0.02
2. 5 - 15'	Trace
3. 15 - 25'	0.03
4. 25 - 35'	0.02
5. 35 - 45'	0.04
6. 45 - 55'	0.04
7. 55 - 65'	0.02
8. 65 - 75'	Trace
9. 75 - 85'	Trace
10. 85 - 95'	Trace
11. 95 - 105'	Trace
12. 105 - 115'	0.02
13. 115 - 125'	Trace
14. 125 - 135'	Trace
15. 135 - 145'	Trace
16. 145 - 155'	Trace
17. 155 - 165'	Trace
18. 165 - 175'	Trace

Cupel 1000 mg. Ag. Button weight after cupel 975.40 mg.

*Jerry C. Henderson*  
Jerry C. Henderson, Research Chemist

JCH:hh



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SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

Process used for analysis: Scorefire assay.

5 grams of ore  
70 grams of litharge  
15 grams of flour  
5 grams of soda ash  
5 grams of borax (as cover)  
1 gram of silver (in-quart)

Furnace at 1950°F, 3 1/2" scorefire,  
ending up with a 30-40 gram lead  
button.

Assay results as follows:

## Sample No. & Depth

Sample No.	Depth	Hole #8
1.	0 - 5'	"
2.	5 - 15'	"
3.	15 - 25'	"
4.	25 - 35'	"
5.	35 - 45'	"
6.	45 - 55'	"
7.	55 - 65'	"
8.	65 - 75'	"
9.	75 - 85'	"

Au  
Oz./ton

0.03  
0.04  
0.07  
0.07  
0.06  
0.02  
0.08  
0.04  
0.06

Cupel of 1000 mg. Ag - Button weight 973.20 mg.

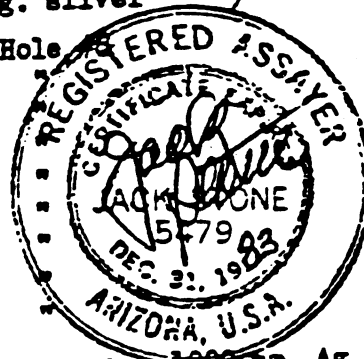
Flux: 30 grams ore  
40 grams soda ash  
30 grams borax  
5 grams silica  
110 grams litharge  
10 grams flour  
1000 mg. silver

0-5; 5-15; 15-25; 25-35; lead  
buttons weight 90 grams. Score-  
fire & cupel.

35-45; 45-55; 55-65; 65-75; 75-85;  
cupelled.

10.	85 - 95'
11.	95 - 105'
12.	105 - 115'
13.	115 - 125'
14.	125 - 135'
15.	135 - 145'
16.	145 - 155'
17.	155 - 165'
18.	165 - 175'

Hole



0.24  
0.04  
0.08  
0.92  
0.16  
0.14  
0.28  
0.32  
0.08

Crucible assay 30 grams ore - 1000 mg. Ag.

*Jerry C. Henderson*  
Jerry C. Henderson, Research Chemist



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1630 E. 4th Avenue  
Apache Junction, AZ 85220

SUBJECT: GOLDEN HILLSIDE MINE SAMPLES SUBMITTED BY FRANK H. BUCHELLA, JR.

Process used for analysis: Scorefire assay.

5 grams of ore  
70 grams of litharge  
15 grams of flour  
5 grams of soda ash  
5 grams of borax (as cover)  
1 gram of silver (in-quart)

Furnace at 1950°F, 3½" scorefire,  
ending up with a 30 - 40 gram lead  
button.

Assay results as follows:

Sample No. & Depth	Hole #9	Au Oz./ton
1. 0 - 5'	"	0.28
2. 5 - 15'	"	0.04
3. 15 - 25'	"	0.02
4. 25 - 35'	"	0.06
5. 35 - 45'	"	0.36
6. 45 - 55'	"	0.02
7. 55 - 65'	"	Trace
8. 65 - 75'	"	0.18
9. 75 - 85'	"	0.11
10. 85 - 95'	"	4.80
11. 95 - 105'	"	0.02
12. 105 - 115'	"	Trace
13. 115 - 125'	"	0.06
14. 125 - 135'	"	0.06
15. 135 - 145'	"	0.04
16. 145 - 155'	"	Trace
17. 155 - 165'	"	Trace
18. 165 - 175'	"	Trace

*Jerry C. Henderson*  
Jerry C. Henderson, Research Chemist

JCH:hh



# J and J Research and Development Inc.

Gold, Silver and Platinum Ores

2027 South McQueen Road • Mesa, Arizona 85202

Phone: (602) 892-4561

August 19, 1982

S.S. International Trade, Inc.  
1630 E. 4th Avenue  
Apache Junction, AZ 85220

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Process used for analysis: Scorefire assay.


5 grams of ore  
70 grams of litharge  
15 grams of flour  
5 grams of soda ash  
5 grams of borax (as cover)  
1 gram of silver (in-quart)

Furnace at 1950°F, 3½" scorefire,  
ending up with a 30-40 gram lead  
button.

Assay results as follows:

Sample No. & Depth	Hole #10	Au Oz./ton
1. 0 - 5'	"	10.49 ✓
2. 5 - 15'	"	0.02
3. 15 - 25'	"	0.02
4. 25 - 35'	"	0.04
5. 35 - 45'	"	0.02
6. 45 - 55'	"	0.03
7. 55 - 65'	"	0.02
8. 65 - 75'	"	0.06
9. 75 - 85'	"	0.08
10. 85 - 95'	"	0.09
11. 95 - 105'	"	0.02
12. 105 - 115'	"	Trace
13. 115 - 125'	"	0.04
14. 125 - 135'	"	0.02
15. 135 - 145'	"	0.08
16. 145 - 155'	"	Trace
17. 155 - 165'	"	0.06
18. 165 - 175'	"	0.06

JCH:hh

  
Jerry C. Henderson, Research Chemist





THE UNIVERSITY OF ARIZONA  
TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

TEL. (602) 884-2733  
884-1943

February 10, 1976

*Reid 2/11/76*

Mr. Frank C. Peterson  
P. O. Box 21462  
Phoenix, Arizona 85036

Dear Mr. Peterson:

This will report on results of a standard cyanide agitation leaching test of your mine run ore.

As previously reported, the ore is a very dark-colored, weathered or altered calcite, commonly called "black" calcite. Assays of a representative portion of the samples received showed 0.14 ounces of gold per ton, 23.7 ounces of silver and 2.05 percent of manganese with no other significant mineral values.

The lime additions required to maintain a suitable basic leach solution amounted to 1.2 pounds per ton of ore. Cyanide strength was maintained by adding a total of 0.9 pounds per ton in three staged additions.

After ten days leaching of minus 65-mesh ore, the results were as follows:

Percent Extraction at end of:				
	24 hours	48 hours	120 hours	240 hours
Gold	60	75	80	80
Silver	30	33	36	38

It is believed no appreciable increase in extraction of either metal could be gained by extending the leaching time so the test was halted at this point.

*Silver gold.*  
*23 0.14*  
*4 414*  
*892 92*  
*8106.00*