



CONTACT INFORMATION  
Mining Records Curator  
Arizona Geological Survey  
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Phoenix, AZ, 85012  
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<http://www.azgs.az.gov>  
[inquiries@azgs.az.gov](mailto:inquiries@azgs.az.gov)

The following file is part of the Grover Heinrichs Mining Collection

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Owner →

Natcho Ballesteros  
1757 N. 4th Ave.  
Tucson, Az 85705  
674-7207

**LITTLE BEAR MINE**

(Losito)

The Little Bear Mine area is about 25 airline miles north-northeast of Tucson, Arizona on the northwestern flank of the Santa Catalina Mountains. The Little Bear property consists of 38 unpatented and slate land lode claims located for the most part within the boundaries of the Coronado National Forest.

The principal structure in the area is a broad north-westtrending syncline bounded on the east and west by large normal faults which create a northwest to southeast oriented graben. Rocks within the graben are cut by numerous low angle and high angle normal and reverse faults, the majority of which are oriented northeast to east-west.

The size of the property, the logistics of the pit and road systems lend themselves to a large operation. With little Hills Mines contiguous to this property and a mill available for custom milling within one mile from the primary pit and large deposit, we feel this is a major plus for the Little Bear claim group. Within the confines of the claim group are found silica, gold silver, platinum, molibneum, lead and other varicus strategic metals and minerals in high percentages, and tonages ( see enclosed assays). Little Bear owners are very reasonable people with a complete knowledge of this property. They will be an invaluable asset

consulting a new set of owners.

The way the mine is set up currently, production could be started immediately. There is also currently a stockpile of ore with value waiting to be shipped to smelters, approximately 36 tons (see pictures). Depending on the intentions of potential purchasers, several pits, old shafts and tailings could begin to be worked and processed immediately. Enough can not be said or stated about the potential of this property without a personal field analysis and viewing..

On this property several faulting and cross faulting situation which indicates ore making anomalies. The best way to prove these formations to the deletion of the ore is a drilling program. However, the ore already exposed can be further uncovered by employing heavy equipment.

#### Little Bear Mine

(Estimated Readily Available Reserves)

#### Silicia:

The Little Bear Mine has a good grade of silica for flux in the mining smelters for instance the closest melter that deals with silica is 48 miles from the mine which is the Asarco's smelter at Hayden. There are other few smelters that deals with this kind of ore (silica). This ore is used as a flux, two different grades of silica are crushed and blended. One is a high grade silica, and has no mineralization in it. The other is lower grade and has silver and ore in it. The by-product is 1/2 inch minus and two inch minus which it could be placed in a stock pile that could be leached. Both of these grades of silica are mined - open pit.

Attached to this report are copies of assay reports which are hand picked examples from the surface on this property. The maps and pictures are in the report.

Most of the mineralization at Little Bear Mine occurs in veins from six to thirteen feet and better wide on the surface.

**Estimate-**

It is estimate that there is over 50 million tons of Silica reserved. The value of annual production of 100 thousand tons per year, which is the amount the smelter uses annually at \$20.00 per ton. Magma, a 15 miles distance and Inspiration has a smelter at Miami, Arizona. Both of which are within distance for hauling.

**Summary-**

Of approximately 50 precious metals refiners serving the nations gold and silver users- over 40 provide only manufacturing and process service for industrial scrap, of these fine refineries do 90% of the nations precious metals business. That only leaves approximately 10 refineries who consult and service as a problem solvers in refining process technology.

**Water-**

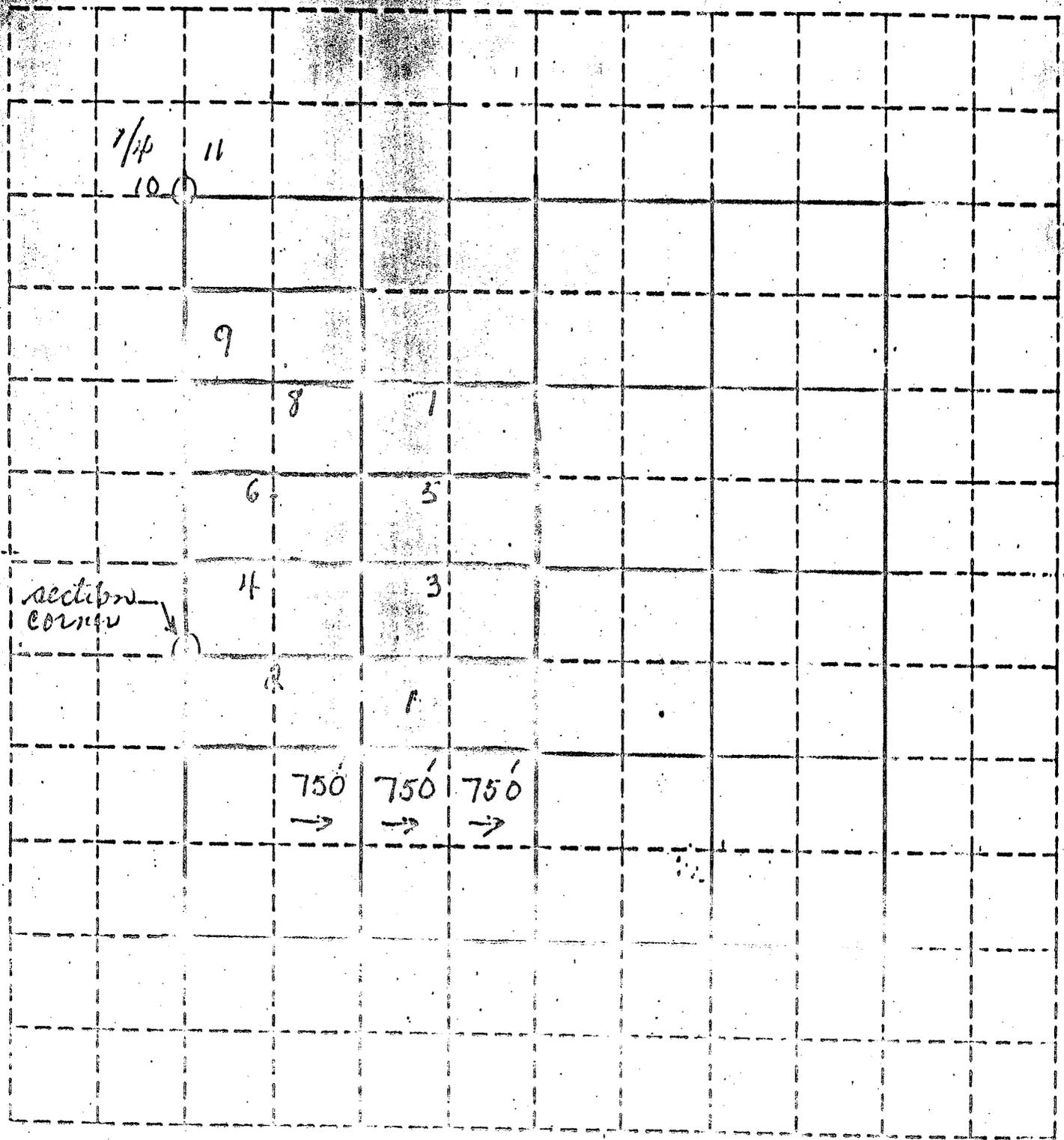
Little Bear Mine contains plenty of water, with two water wells. In addition, to the water, a dam could be built on one of the creeks to reserve the water.

*Edward L. ...*  
*...*

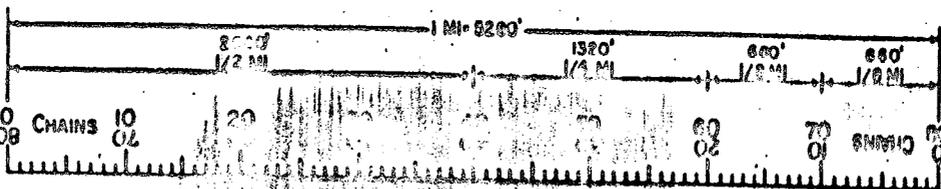


SEG. 11 1/4 TWP. 10-S  
RGE. 15-E

ARIZONA STATE LAND DEPT.



1 ROD = 16 1/2 FEET  
1 CHAIN = 66 FEET  
1 ACRE = 43560 SQ. FT.



1 MILE =  
5280 FEET  
80 CHAINS  
320 RODS  
1760 YARDS  
1609.3 METERS



c/o Mr. Marcelino Garcia  
1741 N. 4th Avenue  
Tucson, Arizona

Dear Sir:

Several days ago you brought three samples to my office, one of which was lead and assayed as follows:

<u>Oz. per Ton</u>		<u>Percent</u>	
<u>Gold</u>	<u>Silver</u>	<u>Lead</u>	<u>Copper</u>
.005	1.2	17.0	1.51

The second and third samples were identified as No. 1 (Coarse) and No. 2 (Fines), a composite of which was assayed at Hayden with the following analysis:

<u>Oz. per Ton</u>		<u>Percent:</u>	<u>Silica</u>	<u>Iron</u>	<u>Lime</u>	<u>Alumina</u>
<u>Gold</u>	<u>Silver</u>	<u>Copper</u>				
-	0.60	0.98	75.0	2.0	0.1	3.2

These products, all of which originate in Canyon del Oro, are of some interest to us if the lead can be mined and shipped to El Paso. The copper may eventually be used at our Hayden Plant for flux.

The lead ore, based on today's estimated metal prices, would be worth approximately \$33.00 per dry ton at El Paso. The copper product would only be usable if satisfactory with our smelter management. Our present source of flux is adequately taken care of; but, in the event we need a product similar to the analysis above, I am happy to know where such material can be obtained.

In the meantime, as you may know, we are using the facilities and deposit of Little Hill Mines in Canyon del Oro for some of our fluxing sources. Because Mr. McGee at Little Hill has crushing and delivering facilities, we may want some of your product mined and crushed at these facilities for trial smelting. I will appreciate your talking with Mr. McGee and identifying your property to him so, on one of my trips to Little Hill Mine, Mr. McGee and I may look at the property with you.

Yours very truly,

*Reed F. Welch*  
REED F. WELCH

cc: Mr. C. N. Schuyler  
Box 615, Mammoth, Arizona  
Mr. Dave McGee  
Little Hill Mines, P.O. Box 332, Oracle, Ariz.



BRUCE BABBITT  
GOVERNOR

Arizona  
State Land Department

1824 WEST ADAMS  
PHOENIX, ARIZONA 85007  
602-271-4634



OFFICE OF  
STATE LAND MANAGEMENT

November 20, 1979

Nacho Ballesteros  
1041 North 4th Avenue  
Tucson, Arizona 85715

P. P. Application No. 77576

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

Lots 1 & 2; N. 19.75 acres of Lot 3; E $\frac{1}{2}$ ; E $\frac{1}{2}$ NW $\frac{1}{4}$ ; NW $\frac{1}{2}$ NW $\frac{1}{4}$ ; S $\frac{1}{2}$ SW $\frac{1}{4}$ ; S $\frac{1}{2}$ SE $\frac{1}{2}$ SW $\frac{1}{4}$  of

Sec. 10 Twp. 10S Rge. 15E Acres 579.57

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

fs

79-73

Sample of Ore

Southwestern Ore Purchasing Department  
A. J. Kroha  
Manager  
J. N. Lambo  
Assistant Manager

January 30, 1976

Mr. Marcelino Garcia  
1041 North 4th Avenue  
Tucson, Arizona 85705

Dear Mr. Garcia:

Our Hayden Plant has assayed the samples of siliceous copper ore from your properties near Oracle, Arizona and reports the following results:

<u>Lot</u>	<u>Au</u>	<u>Ag</u>	<u>Cu</u>	<u>SiO<sub>2</sub></u>	<u>Fe</u>	<u>CaO</u>	<u>Al<sub>2</sub>O<sub>3</sub></u>
#1	-	1.00	2.2	74.0	2.7	0.2	6.9
#2	-	.72	2.6	70.6	3.2	0.9	7.2
#3	-	.68	2.0	68.9	2.4	0.2	7.0

By copy of this letter to Mr. Cahill, I request that Hayden Plant advise their interest in this material.

Yours very truly,

*A. J. Kroha*

A. J. Kroha

AJK/kc  
cc: L. G. Cahill

# ASARCO

Sample of  
ORE

## Southwestern Ore Purchasing Department

A. J. Kroha  
Manager  
J. N. Lambe  
Assistant Manager

July 12, 1977

Mr. Marcelino Garcia  
1041 N. 4th Avenue  
Tucson, Arizona 85705

Dear Sir:

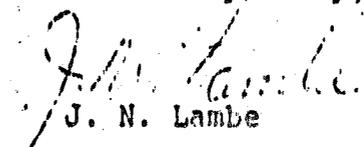
Our Hayden Plant has advised the following assay results on the samples left at this office:

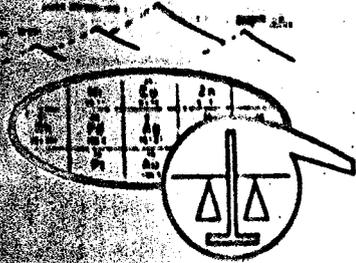
Ex	Oz. per Ton		Percent:						
	Gold	Silver	Lead	Copper	Zinc	Silica	Iron	Lime	Alumina
1	.002	.6	1.94	1.63	.85	73.7	2.7		
2	-	.3	1.80	.77	1.59	61.7	2.4		
3	-	.02	.29	.16	.08	66.7	2.9		
4	.005	.51	5.16	1.23	4.95	50.4	2.2		
5	-	.11	.44	.11	.04	65.0	7.0		
6	.005	1.47	26.70	.88	8.21	19.4	1.5		
Comp.	.005	1.51	2.8	.32	-	67.1	5.3	1.4	7.8

There is a possibility we would be interested in production similar to Ex 6, if tonnage is available.

We are sorry to inform you that we are unable to accept future samples for assaying purposes at this time.

Yours very truly,

  
J. N. Lambe



**SKYLINE LABS, INC.**  
 P.O. Box 50106 • 1700 West Grant Road  
 Tucson, Arizona 85703  
 (602) 622-4838

Charles E. Thompson  
 Arizona Registered Assayer No. 9421  
 William L. Lehmscheid  
 Arizona Registered Assayer No. 9426  
 James A. Merrill  
 Arizona Registered Assayer No. 11129

**CERTIFICATE OF ANALYSIS**

ITEM NO.	SAMPLE IDENTIFICATION	Au oz/ton	Ag oz/ton	Cu %	Pb %	Mo %			
1	#1	0.010	0.03	0.69	13.2	<0.001			
2	#2	0.005	0.14	1.49	1.46	<0.001			

TO: Mr. Manuel R. Ayala, Jr.  
 2829 N. 15th Avenue  
 Tucson, Arizona 85705

REMARKS: Single analysis

CERTIFIED BY:

DATE REC'D: 1/29/79

DATE COMPL.: 2/14/79

JOB NUMBER: YGJ 001

# ARIZONA WESTERN MINES, Inc.

P.O. BOX 7001  
TUCSON, ARIZONA 85725

W.R. Ewins, Pres.  
M.V. Voyles, Secy.  
R.B. Fultz, Treas.

(602) 830-2700  
Mobil (602) 824-6646  
Unit No. 082500  
5807

26 December, 1980

Mr. Nacho Ballesteros  
841 West Paris Promenade  
Tucson, Az 85705

Dear Mr. Ballesteros,

This will acknowledge receipt of payment in full for performing the required exploration on the ground covered by your Arizona State Prospecting Permit # 77576.

Geological and mineralogical work was accomplished by this company, along with metallurgical research in ore-testing at its mill facility at Owl Head Ranch.

Canadian geologist, Harold Linder, Occidental personnel, Molina and Roripaugh, Sam Holiday and the undersigned performed geochemical survey work and assays.

Backhoe and dozer work, along with the drilling and blasting was confined to the main prior work area.

As you already know, the molybdenum and platinum assay results were anomalous.

For further details, I can furnish copies of assay reports and results of mill tests.

Sincerely,



10 AUPTAG, Inc.  
c/o Mr. Chad Chapel  
6735 Camino Tolmo  
San Diego, Calif. 92111

ROGERS RESEARCH & ANALYSIS  
88 SOUTH MAIN STREET - ROOM 811  
SALT LAKE CITY, UTAH 84101  
Phone: (801) 521-8244

SUBJECT: Semi-Quantitative Complete Analysis -- Black Sand #1

Run# 62275-1  
DATE 6 July 1976

1000  $\blacktriangleleft$  N

Arsenic	.1 %	Cadmium	Trace
Barium	.4 %	Platinum	.1 oz/ton
Chromium	.6 %	Rhodium	Trace
Copper	.2 %	Rubidium	Trace
Gold	1.1 oz/ton	Silver	2.0 oz/ton
Iridium	Trace	Strontium	.1 %
Iron	62.3 %	Tin	.1 %
Lead	.3 %	Titanium	1.5 %
Manganese	1.1 %	Tungsten	Trace
Molybdenum	Trace	Zinc	.2 %
Nickel	.1 %	Zirconium	.4 %

SIGNED *C. A. Rogers* \$25.00  
LOT # 17

FORM NO. P-1111-3 AVAILABLE FROM BUSINESS ENVELOPE MANUFACTURERS, INC. • PEARL RIVER, N.Y. • BRONX, N.Y. • CLINTON, TENN. • MELROSE PARK, ILL. • ANAHEIM, CALIF.

VALUES:

$143.00 \text{ per ton}$   
 $8.00 \text{ per ton}$   
 $43.60 \text{ per ton}$   
 $\$195.20 = \text{approximate value per ton}$   
 (after per minute, can  
 bring value up approx  
 $\$55. \text{ per T. higher}$   
 $\$250. \text{ per ton}$



TUCSON OFFICE

## Certificate of Analysis

Page 1 of 1

Date: November 22, 1978  
 Client: Newmont Exploration Ltd.  
 200 W. Depot Sky  
 Tucson, Arizona 85704

RMGC Number:  
 Local Job No.: 70-18  
 Foreign Job No.:  
 Invoice No.: T0420

Client Order No.: None  
 Report On: 4 samples  
 Submitted by: R.A. Newell  
 Date Received: November 16, 1978  
 Analysis: Cu, Pb, Zn, Au, Ag, Mo  
 Analytical Methods: Determined by Atomic Absorption

Remarks:  
 cc: Enc: 2  
 RMGC/SLC  
 file

PDW/ls

Sample Number	Cu ppm	Pb ppm	Zn ppm	Au ppm	Ag ppm
NT-4140	25	75	20	25	-0.1
4141	2.0%	1	43.0%	19.8%	-0.1
4142	3.3%	4	2.5%	2.0%	-0.1

By: *Parry D. Willard*  
 Parry D. Willard

All values are reported in parts per million unless specified otherwise. A minus sign (-) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves, we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.  
 ND = None Detected      1 ppm = 0.0001%      1 Troy oz./ton = 34.286 ppm      1 ppm = 0.0002 Troy oz./ton





TUCSON OFFICE

# ROCKY MOUNTAIN GEOCHEMICAL CORP.

2561 EAST FORT LOWELL ROAD • TUCSON, ARIZONA 85716 • PHONE: (602) 795-9789

## Certificate of Analysis

Page 1 of 1

**Date:** November 23, 1981

**Client:** DuMont Mining Consultants  
7225 N Oracle Road  
Suite 202D  
Tucson, Arizona 85704

**RMGC Numbers:**

**Local Job No.:** 81-15-9T

**Foreign Job No.:**

**Invoice No.:** T10804

**Client Order No.:**

**Report On:** 4 samples

**Submitted by:** C. DuMont

**Date Received:** November 2, 1981

**Anal.:** SiO<sub>2</sub> & Au, Ag

**Analytical Methods:** SiO<sub>2</sub> determined by Atomic Absorption.  
Au, Ag determined by Fire Assay.

**Remarks:** Previous results for this job were incorrectly reported under the job number 81-9-15T. The correct number is 81-15-9T.

**cc:** Enc: 1  
RMGC/SLC  
file

SJA/lr

Sample Number	Au oz/ton	Ag oz/ton	SiO <sub>2</sub> %
The Hill	-0.005	-0.10	79.2
The Pit	-0.005	-0.10	
Pit #2	-0.005	0.18	
#13	-0.005	0.16	

By *Shirley J. Alken*  
Shirley J. Alken

All values are reported in parts per million unless specified otherwise. A minus sign (-) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

ND = None Detected      1 ppm = 0.0001%      1 Troy oz./ton = 34.286 ppm      1 ppm = 0.0002 Troy oz./ton

S1281

# SOUTHWESTERN ASSAYERS & CHEMISTS, INC.

REGISTERED ASSAYERS  
P. O. BOX 7817  
TUCSON, ARIZONA 85725

710 E. EVANS BLVD.  
PHONE 602-864-5911  
864-5812

WIL WRIGHT  
ARIZONA REG. NO. 8575

DNYANENDRA A. SHAH  
ARIZONA REG. NO. 8588

Mr. Richard Bjorklund

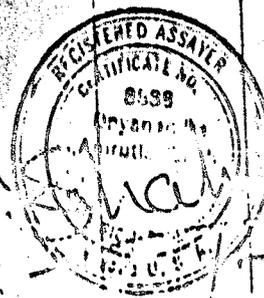
30

JOB # 023822

RECEIVED 1-15-80

REPORTED 1-23-80

SAMPLE NUMBER	GOLD OZ.	SILVER OZ.	LEAD %	COPPER %	ZINC %	ANTIMONY %	BYSDENUM %
Little Bear		.06					.212



Handwritten signature and date: 1-23-80

1 ppm = 0.0001%

1 troy oz. / ton = 34.286 ppm

1 ppm = 0.0292 troy oz. / ton

Gold and Silver reported in troy oz. per 2,000 lb. ton.

002

81281

# SOUTHWESTERN ASSAYERS & CHEMISTS, INC.

REGISTERED ASSAYERS  
P. O. BOX 7817  
TUCSON, ARIZONA 85725

710 E. EVANS BLVD.  
PHONE 602-884-8811  
884-8812

WIL WRIGHT  
ARIZONA REG. NO. 8875

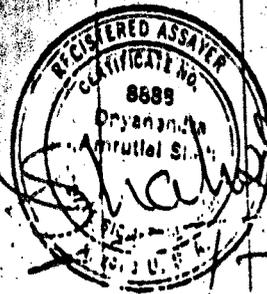
DNYANENDRA A. SHAH  
ARIZONA REG. NO. 8889

Mr. Richard Bjorklund

# 90

JOB # 023822  
RECEIVED 1-15-80  
REPORTED 1-23-80

SAMPLE NUMBER	GOLD OZ.	SILVER OZ.	LEAD %	COPPER %	ZINC %	MOLYBDENUM %
Little Bear		.06				.212



1 ppm = 0.0001%

1 troy oz. / ton = 34.286 ppm

1 ppm = 0.0292 troy oz. / ton

\* Gold and Silver reported in troy oz. per 2,000 lb. ton.

002

Form DEW-2068 (Rev. 11-74)  
(47-0154-00)

**PHELPS DODGE CORPORATION**  
**DOUGLAS REDUCTION WORKS**

**ASSAY AND ANALYSIS CERTIFICATE**

DOUGLAS, ARIZONA      APRIL 17, 1981      19

NAME Hard Sample, 14 Ballastages, Tucson

Shipper's Lot	Copper %	OZS. PER TON		SO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe %	CaO %	MgO %	Mn %	Zn %	Pb %	S %	Cl %
		SILVER	GOLD										
54	1.53	0.56	111	52.0	6.7	3.1	0.7	0.7	0.2	6.7	7.0	1.4	
5	1.20	1.1	111	59.5	5.6	2.7	0.2	0.7	0.6	2.3	3.1	1.4	
5	1.10	7.12	0.010	59.9	2.2	2.5	0.1	0.1	2.0	Tr.	Tr.	1.2	

Chief Chemist

