MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 12/4 1979

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	#1 TAIL TABLE		0.30	0.01				
2	#2 TAIL TABLE		0.20	0.07				
3	2nd LINE SLOW FEED		0.70	0.06				
4	2nd LINE FAST FEED		0.60	0.04				
5	1st LINE TEST		4.15	14.26				
6	1st LINE 2" CUT		0.40	0.20				
7	1st LINE 6" CUT		0.50	0.38				

S.M. Kalaf
CHIEF CHEMIST

SC-1005

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 8/28 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1		1.25	7.10	1.60				
2		1.55	4.15	0.76				

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 9/25 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	CONCTS.	0.70	16.40	38.2				

1938	Mill Tails	Flow	12	0.03	1.05
"	Heads	"	"	0.1	3.50
"	Cone	"	"	6.25	231.75
"					
"	Tails	"	15	0.02	0.70
"	Heads	"	"	0.12	4.20
"	Cone	"	"	6.84	239.40
"	Tails	"	16	0.01	0.35
"	Heads	"	"	0.06	2.10
"	Cone	"	"	2.0	70.00
"	Tails	"	17	0.04	1.40
"	Heads	"	"	0.11	3.85
"	Cone	"	"	4.6	161.00
"	Tails	"	15	0.07	2.45
"	Heads	"	"	0.12	4.20
"	Cone	"	"	4.0	140.00

NOV 1 38

June 10 1940

	Oz	ft
Oxidized Granite S.D. Relief North side D.W. Fault @ 170L.	0.04	1.40
Average of left sample 5-18-28-40 24' in of shaft	0.02	0.70
Shaft 6-3-40. 3' 15 Carn Ore dump	0.20	7.00
" 6-4-40 3' 16 " " "	0.14	4.90
" 6-5-40. 3' 17 " " "	0.06	2.10
" 6-6-40 3' 18 " " "	0.16	5.60

Depth below 325 ft

JE 40

May 19. 1940	oz.	$
Average for 12' in shaft 325' level down	0.10	3.50
Quartz ore North side D.W. first C.C.S. 170' level	0.04	1.40
Mineralized ore in back D.W. first C.C.S. " "	0.02	0.70
Average sample dike Matrix E.D. 325' level	0.06	2.10
Next to last round East drift " "	0.20	7.00
Last round in East drift " "	0.04	1.40

MAY 40.

	Oz	$
Mar 6		
Sample from Shaft	0.10	3.50
" Mar 7 "	0.30	10.50
" Mar 8 "	0.24	8.40
Quartz South Vein	0.02	0.70
Tobias " "	Trace	
Thurmy Cobbard quartz	0.03	1.05

MAR 4.

Nov 17 " 39

	Oz.	$
Ore bin grab sampled (from Car)	8.16	5.60
Ore across drift 75' East from 2 pt level drift	2.36	82.60
4" quartz on hanging wall	0.04	1.40
Drift west on South Vein 6' in		
18" quartz in face South Vein 18' in	0.02	0.70
Rhyolite N.E. hint South Vein (next to hanging wall).	Trace.	

Nov 19 ✓

Drift west	325 level	0.06	2.10
	Apr 16		
Drift East	325 level	0.16	5.60
	Apr 17		
" "	" "	0.04	1.40
	Apr 18		
" "	" "	0.05	1.75
	Apr 19		
" "	" "	0.90	31.50
	Apr 20		
" "	" "	2.27	79.45
	Apr 22		
" "	" "	1.00	35.00
	Apr 24		
" "	" "	0.20	7.00
	Apr 26		
" "	" "	0.06	2.10
	Apr 27		
" "	" "	0.18	6.33
	Apr 29		
" "	" "	0.06	2.10
quartz Stope	270 level	0.02	0.70

		oz	$
Mill Tails	Dec 10-38	0.02	0.70
" Heads	" "	0.14	4.90
" Conc.	" "	3.76	131.60
Mill Tails	Jan 2-39	0.025	0.87
" Heads	" " "	0.06	2.10
" Conc.	" "	4.0	140.00
Mill Tails	" 3	0.02	0.
" Head	" "	0.06	2.10
" Conc	" "	2.58	90.30
"			
Mill Tails	" 4	0.02	0.70
" Heads	" "	0.04	1.40
" Conc	" "	2.92	102.20
Mill Tails	" 5	0.01	0.35
" Heads	" "	0.05	1.75
" Conc.	" "	4.86	170.10
Mill Tails	" 6-7	0.01	0.35
" Head	" " "	0.04	1.40
" Conc.	" " "	2.96	103.60

DEC 38

	oz.	lb.
Mill Tails Jan 10 1939	0.02	0.70
" Heads " "	0.16	5.60
" Conc. " "	1.2	42.00
Recovery 90% Ratio 8.4		
Mill Tails " 11	0.01	0.35
" Heads " "	0.06	2.10
" Conc. " "	2.02	71.40
Recovery 83.8% Ratio 40.2		
Mill Tails " 12	0.01	0.35
" Heads " "	0.10	3.50
" Conc " "	3.98	139.30
Recovery 89.6% Ratio 44.1		
Mill Tails " 13	0.01	0.35
" Heads " "	0.38	13.30
" Conc. " "	7.88	275.80
Recovery 97.6% Ratio 21.2		

JAN 34 ✓

	oz.	%
Mill Tails Dec. 7	0.04	1.40
" Heads " "	1.7	59.50
" Conc. " "	6.98	244.30

Recovery 99.6% Ratio 41.2

Mill Tails Dec 8"	0.04	1.40
" Heads " "	0.16	5.60
" Conc. " "	8.04	281.40

Recovery 75.4% Ratio 66.6

Mill Tails Dec 9	0.05	1.75
" Heads " "	0.14	4.90
" Conc " "	4.8	168.00

Recovery 64.9% Ratio 52.8

		oz.	$
Mill Tails	1 Jee 3rd	0.02	0.70
" Heads	" "	0.12	4.20
" Conc.	" "	3.7	129.50
Recovery 83.8%	Tons mill to one	36.8	
" Tails	" 4	0.02	0.70
" Heads	" "	0.10	3.50
" Conc.	" "	6.12	214.2
Recovery 80.2%	Tons mill to one	76.3	
" Tails	" 5	0.01	0.35
" Heads	" "	0.08	2.80
" Conc.	" "	3.94	137.9
Recovery 87.8%	tons mill to one	56.1	
" Tails	" 6	0.02	0.70
" Heads	" "	0.16	5.60
" Conc.	" "	8.8	308.00
Recovery 87.7	tons mill to one	62.7	

Jan 23 1944

	Oz.	$
Heads	0.08	2.80
Tails	0.02	0.70
Conc.	0.70	24.50

Jan 24

Heads	0.16	5.60
Tails	0.02	0.70
Conc.	1.86	65.10

Jan 25

Heads	0.20	7.00
Tails	0.02	0.70
Conc.	1.10	38.50

Jan 26

Heads	0.42	14.70
Tails	0.02	0.70
Conc.	4.0	140.00

Jan 27

Heads	0.20	7.00
Tails	0.01	0.35
Conc.	2.54	88.90

Jan 28

Heads	0.50	17.50
Tails	0.04	1.40
Conc.	0.80	28.00

ASARCO

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

June 8, 1979

Mr. Walter Knott
P. O. Box 688
Payson, AZ 85541

Dear Mr. Knott:

Our El Paso Plant has assayed the samples from the Little Daisy mine and reports the following results:

	Oz per Ton		Percent							PPM
	Au	Ag	Pb	Cu	Zn	SiO2	Fe	CaO	Al2O3	Hg
1st line-last drift	75.82	26.9	48.1	1.0	.1	7.2	20.1	1.0	1.1	14,600
2nd line drift	2.48	1.9	4.3	0.7	.1	68.0	8.9	1.2	4.5	348
~~Last~~ EAST drift	.44	0.5	2.0	0.6	.1	74.0	6.1	1.1	5.2	182

The mercury content of sample marked "1st line-last drift" is too high to consider treatment at our smelters.

Yours very truly,

A. J. Kroha

A. J. Kroha

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703
1150 North 7th Avenue (602) 792-3010

Arizona Testing Laboratories

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

For Houston Mining & Resources Inc. Date August 6, 1979
Mr. Don E. Vogler
3000 South Post Oak Road, Suite 1480
Houston, Texas 77056

ASSAY CERTIFICATE

LAB NO.	IDENTIFICATION	OZ. PER TON		PERCENTAGES			
		GOLD	SILVER	COPPER	Mercury		
832	Spanish Cave	0.06	0.10		nil		
	Spanish Mine Portal	0.01	trace		nil		
	Spanish Mine Main Vein #2	0.02	trace		nil		
	Little Daisy 80' Adit.	0.02	nil		nil		
	Little Daisy 60' Adit.	trace	nil		nil		
	Golden ~~Roof~~ Ole #1 Concentrate	0.03	0.25		---		
	~~Golden Turkey 2nd Concentrate~~	~~0.77~~	~~1.68~~		~~---~~		
	~~Golden Turkey 3rd Concentrate~~	~~0.19~~	~~0.70~~		~~---~~		
	~~Non-magnetic Fraction~~	~~28.~~	~~9.2~~		~~---~~		
	~~Magnetic Fraction~~	~~2.4~~	~~1.90~~		~~---~~		

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

Claude E. McLean, Jr.

Registered Assayer
Claude E. McLean
8/6/79
Phoenix, Arizona, U.S.A.

VALLEY ASSAY OFFICE

AND ORE TESTING LABORATORY

MEMORANDUM OF ASSAY

Made for H. R. Norman

Tempe, Arizona Jan. 30, 1972

SAMPLE NO.	PER TON OF 2000 POUNDS AVOIRDUPOIS								COPPER, OR			LEAD, OR			ZINC, OR			TOTAL	
	GOLD, ~~PLATINUM~~				SILVER														
	AT	PER OUNCE			AT	PER OUNCE			AT	PER LB.		AT	PER LB.		AT	PER LB.			
	OZS.	100's	$	Cts	OZS.	100's	$	Cts.	%	$	Cts.	%	$	Cts.	%	$	Cts.	$	Cts.
1-Cons.	84.	22																	

REMARKS: Copper is also present.

REGISTERED ASSAYER CERTIFICATE EXPIRES L. LEE BOYER DEC. 31, 19[illegible] ARIZONA, U.S.A.

BY [illegible] Registered Assayer.

NO.

CHARGE $ 3.50 PD.

T.Z.B.

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 4/18 1978

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	1ST. LINE FROM TABLE EVERY 30 MINUTES	1.00	12.60	4.86				
2	2ND. LINE FROM TABLE EVERY 30 MINUTES	0.30	8.30	0.38				
3	#1-A "R"	0.50	12.90	2.14				
4	#1-B "R"	0.30	7.70	0.60				
5	1ST LINE RED ORE	0.70	14.40	9.62				
6	CORE SAMPLE REFINER	0.55	16.70	0.68				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY

DATE 5/11 1978

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	TAILS	0.05	0.10	0.12				
2	QUARTZ ROCK	0.15	0.20	0.03				
3	ORE PILE BY WATER TANK	0.02	0.50	0.10				
4	BUG HOLE QUARTZ ("CONCTS.")	0.55	7.40	18.34				
5	ORE ON HILL ("CONCTS.")	0.10	1.00	0.44				

S. M. Kalal
CHIEF CHEMIST

SC-1005

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 4/30 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb	% ZN		
2	EAST DRIFT VEIN SPANISH MINE CLAIM	0.68	6.80	0.10	5.8	0.4		

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 4/5 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	RED ORE - SHORT SHAFT		0.10	0.08				
2	SHIST WITH IRON OXIDE - 60' IN SIDE PORTAL 75' LEVEL		NONE	TRACE				
3	SIDE WALL OF DRIFT NEAR 200' SHAFT		NONE	0.03				
4	FLOOR OF DRIFT NEAR 200' SHAFT		NONE	0.09				
5	LITTLE DAISY - 1ST LINE		2.20	1.80	concentrate	table		

S. M. Kalal

CHIEF CHEMIST

No. 1005

mountain states research & development

Division of Mountain States Mineral Enterprises, Inc. P. O. BOX 17960, INTERSTATE 10 & VAIL RD., TUCSON, ARIZONA 85731 (602) 792-2800

March 10, 1980

Mr. Walter Knott
c/o Demetra's Kitchen
2334 East McDowell
Phoenix, Arizona

REF: Project 2177
Cyanidation Tests - Gold Ore

Dear Mr. Knott:

Three preliminary cyanidation tests have been completed on the sample of gold ore that you delivered to us on February 20, 1980.

Objective of the tests was to determine if the gold is soluble in cyanide solution, particularly at coarse sizes. In other words, will the ore be amenable to heap leaching methods, or will it be necessary to use fine grinding.

Analysis of a representative minus 10-mesh head sample was as follows:

Ounces per Ton	
Au	Ag
0.054	0.12

Twenty four hour bottle leaching tests were run on samples of ore:

1. Crushed to minus 3/8-inch.
2. Crushed to minus 10-mesh.
3. Ground to minus 65-mesh.

Results are tabulated below, and are detailed in the attached test data sheets.

		Calc. Head oz./ton		Leach Residue Assay oz./ton		Recovery in Preg. Soln. oz./ton		Recovery in Preg. Soln. Percent	
Size	Test No.	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Minus 3/8-inch	1	0.045	0.09	0.037	0.07	0.008	0.02	17.8	22.2
Minus 10-mesh	2	0.042	0.13	0.017	0.09	0.025	0.04	59.5	30.8
Minus 65-mesh	3	0.042	0.12	0.002	0.06	0.040	0.06	95.2	50.0

msme

MAR 12 1980

Walter Knott
c/o Demetra's Kitchen
Phoenix, Arizona

March 10, 1980

Note that, although highest gold extraction (95 percent) was obtained on ore ground to 65-mesh, the contact time with cyanide in all tests was only 24 hours. Please note that gold extractions on coarse minus 3/8 inch crushed ore was 18 percent, and on minus 10-mesh crushed ore was almost 60 percent in identical 24 hour periods.

These latter results on coarse ore can be considered favorable for application of relatively low capital and operating cost heap leaching methods, for treating ore similar to the sample submitted for testing.

In order to confirm the foregoing possibility, we recommend running a small 3 inch column leach test on minus 3/8 inch ore, to more nearly simulate actual heap leaching conditions. In this type of test, a 3 inch diameter plastic column is charged with approximately 15 pounds of ore crushed to a preselected size such as 1/2 inch or finer.

Cyanide solution is then added to the top of the column at a certain rate in gallons per square foot per 24 hours. This test normally will continue for approximately 30 days, with the pregnant off solution measured and assayed every 24 hours.

From these test data, a rate of gold extraction versus time curve can be developed, and the optimum leach time calculated. This test will also develop valuable data on whether or not problems may develop with solution channeling (short circuiting), possible percolation rate problems due to slimes, etc.

Cost of such a test would be $3,500, and would take approximately five to six weeks for completion and submission of a final report. Leaching extraction data, of course, will be available as the test progresses.

Enclosed is a report of a recent paper on heap leaching of low grade gold ore at Round Mountain, Nevada, which you may find of interest. Our organization did all the laboratory and pilot plant testing for this operation, followed by design engineering, construction and startup.

Please let us know if we can be of any further service to you.

Sincerely yours,

J. A. McAllister

J. A. McAllister
Vice President and
Assistant General Manager

JAM:sco

Att.

cc: Curtis D. Ensign
(w/att)

MOUNTAIN STATES RESEARCH & DEVELOPMENT

PROJECT NO. 2177 CYANIDATION TEST LOG SHEET	Date 2/21/80	Test Sample -3/8 inch	Test No. CH-1

CONDITIONS AND REAGENTS

Point of Addition	Conditions				Reagent Addition Lbs./Ton				Solution Strength Lbs./Ton		
	Time Mins	Solids (%)	pH	Temp.	CaO	NaCN			CaO	NaCN	
Grind											
Agitation	Hours 0	30			5.0						
	1/2		11.9			4.0					
	2		11.8						0.9	1.7	
	24		11.6						0.6	1.6	
Reagent Consumption (Lbs./Ton)					3.6	0.3					

Remarks

1,165 ml. water
500 gm. ore sample

METALLURGICAL RESULTS

Product	Weight (%)	Assays (%)			Contents			Distribution (%)		
		Au	Ag		Au	Ag		Au	Ag	
Preg. and Wash	386.5	0.002	0.006		0.008	0.02		17.8	22.2	
Leached Residue	100.0	0.037	0.07		0.037	0.07		82.2	77.8	
Calc. Head		0.045	0.09		0.045			100.0	100.0	
Assay Head		0.054	0.12							

Remarks

Screen Analysis Residue

Mesh	(%)
+ 48	
+ 65	
+100	Minus 3/8 inch
+150	
+200	
-200	

MOUNTAIN STATES RESEARCH & DEVELOPMENT

PROJECT NO. 2177 CYANIDATION TEST LOG SHEET	Date 2/21/80	Test Sample minus 10-mesh	Test No. CH-2

CONDITIONS AND REAGENTS

Point of Addition	Conditions				Reagent Addition Lbs./Ton				Solution Strength Lbs./Ton		
	Time Mins	Solids (%)	pH	Temp.	CaO	NaCN			CaO	NaCN	
Grind											
Agitation	Hours 0	30			5.0						
			11.9			4.0					
			11.8						0.9	1.7	
	24		11.6						0.5	1.6	
Reagent Consumption (Lbs./Ton)					3.8	0.3					

Remarks 1,165 ml. water
500 gm. ore sample

METALLURGICAL RESULTS

Product	Weight (%)	Assays (%)			Contents			Distribution (%)		
		Au	Ag		Au	Ag		Au	Ag	
Preg. and Wash	409.6	0.006	0.009		0.025	0.04		59.5	30.8	
Leached Residue	100.0	0.017	0.09		0.017	0.09		40.5	69.2	
Calc. Head		0.042	0.13		0.042	0.13		100.0	100.0	
Assay Head		0.054	0.12							

Remarks

Screen Analysis Residue

Mesh	(%)
+ 48	
+ 65	
+100	Minus 10-mesh
+150	
+200	
-200	

MOUNTAIN STATES RESEARCH & DEVELOPMENT

PROJECT NO. 2177 CYANIDATION TEST LOG SHEET	Date 2/21/80	Test Sample minus 10-mesh	Test No. CH-3

CONDITIONS AND REAGENTS

Point of Addition	Conditions				Reagent Addition				Solution Strength Lbs./Ton		
	Time Mins	Solids (%)	pH	Temp.	CaO	NaCN			CaO	NaCN	
Grind	5	60									
Agitation	Hours 0	30			5.0						
	1/2		11.5			4.0					
	2		11.5						0.9	1.6	
	24		11.4						0.5	1.5	
Reagent Consumption (Lbs./Ton)					3.8	0.5					

Remarks 1,165 ml. water
500 gm. ore sample

METALLURGICAL RESULTS

Product	Weight (%)	Assays (%)			Contents			Distribution (%)		
		Au	Ag		Au	Ag		Au	Ag	
Preg. and Wash	394.7	0.010	0.015		0.040	0.06		95.2	50.0	
Leached Residue	100.0	0.002	0.06		0.002	0.06		4.8	50.0	
Calc. Head		0.042	0.12		0.042	0.12		100.0	100.0	
Assay Head		0.054	0.12							

Remarks * Calculated by difference

Screen Analysis Grind

Mesh		(%)
+ 48		
+ 65	1.30	
+100	8.92	10.22
+150	19.14	29.36
+200	19.91	49.27
-200	50.73	

Superior Division

ASSAY CERTIFICATE 'A'

F. FLOREZ

DATE 6/28 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	SiO2	Al2O3	Pb	ZN
[illegible]	LITTLE DAISY From ore Bin	0.05-	0.10	0.08			0.0	0.2
[illegible]	" " " " "	0.10	0.80	1.02			0.2	0.2
[illegible]	" " " " "	0.05-	0.05-	0.02			0.0	0.2
[illegible]	" " above ore Bin Gen Sample-Dif Rocks	0.05-	0.10	0.03			0.0	0.2
[illegible]	" Waste Dump	0.05-	0.05-	0.01			0.0	0.1
[illegible]	" " Adit 2' Vein	0.05-	0.05-	0.01			0.0	0.1
[illegible]	" " Workings above Daisy 10' wide	0.05-	0.20	0.03			0.0	0.1
[illegible]	" " " Below outcrop	0.05-	0.15-	0.05-			0.0	0.2
[illegible]	SPANISH MINE Gen Dump Below Shaft	[illegible]	0.05-	0.10	78.6	6.6	0.0	0.2
[illegible]	" " Dump Sample of Workings Above Cavein	[illegible]	0.10	0.005-	77.8	7.5-	0.0	0.1
[illegible]	" " Rep. Outcrop NE @ [illegible]	[illegible]	0.05-	0.01	82.6	1.9	0.0	0.1
[illegible]	GOLDEN RULE Dump	[illegible]	0.20	0.03			0.0	0.1
[illegible]	LITTLE DAISY MILL Mill stockpile 15 tons	[illegible]	0.10	0.02			0.0	0.1
[illegible]	LITTLE DAISY Mill stockpile 100 T	[illegible]	0.20	0.05-			0.0	0.1
[illegible]	LITTLE DAISY MINE " " 50-75 Ton	[illegible]	0.05-	0.02			0.0	0.1

S. M. Kalal
CHIEF CHEMIST

SC-1005

MAGMA COPPER COMPANY

Superior Division

ASSAY CERTIFICATE 'A'

FRANK FLOREZ

DATE 7/25 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb			
[illegible]	LITTLE DAISY MINE Hi Grade	—	0.20	0.13				
[illegible]	SPANISH MINE W of Cave Back of Drift	0.10	0.10	0.02				
[illegible]	SPANISH MINE 10' West of Vert Shaft	0.20	0.50	0.15				
[illegible]	SPANISH MINE Rest of Vein 4'±	0.10	0.30	0.06	0.3			
[illegible]	SPANISH MINE Float From Back of Drift W of Cave.	—	0.10	0.04				

Superior Division

ASSAY CERTIFICATE 'A'

DATE 4/18 1978

LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1st Line From Table Every 30 Minutes	1.00	[illegible]	[illegible]				
2nd Line From Table Every 30 Minutes	0.30	[illegible]	[illegible]				
[illegible] "R"	0.50	[illegible]	[illegible]				
[illegible] "R"	0.30	[illegible]	[illegible]				
1st Line Vol ore	0.70	[illegible]	[illegible]				
Coll Sample No Finer	0.55	[illegible]	[illegible]				

L. M. Kolaf

CHIEF CHEMIST

50-1005

Superior Division

ASSAY CERTIFICATE 'A'

[illegible]

DATE 4/18 19 78

LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1st Line [illegible]	1.00	[illegible]	[illegible]				
2nd Line [illegible]	0.30	[illegible]	[illegible]				
[illegible] "L"	0.50	[illegible]	[illegible]				
[illegible] "R"	0.30	[illegible]	[illegible]				
1st Line [illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	0.50	[illegible]	[illegible]				

S.M. Kalaf

CHIEF CHEMIST

SC-1005

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 7/10 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
	ORE HOPPER FINES - LITTLE DAISY	3.45	0.35	2.04				

S.M. Kalal
CHIEF CHEMIST

SD-1005

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 7/7 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% PB	% ZN		
	LITTLE DAISY SULFIDES	0.35	7.50	3.82	1.1	0.2		
		7# RT.			22# P.T	4# P.T		
	(ORE)							

S.M. Kalal
CHIEF CHEMIST

SD-1005

mountain states research & development

a division of Mountain States Mineral Enterprises, Inc. P. O. BOX 17960, INTERSTATE 10 & VAIL RD., TUCSON, ARIZONA 85731 (602) 792-2800

March 10, 1980

Mr. Walter Knott
c/o Demetra's Kitchen
2334 East McDowell
Phoenix, Arizona

REF: Project 2177
Cyanidation Tests - Gold Ore

Dear Mr. Knott:

Three preliminary cyanidation tests have been completed on the sample of gold ore that you delivered to us on February 20, 1980.

Objective of the tests was to determine if the gold is soluble in cyanide solution, particularly at coarse sizes. In other words, will the ore be amenable to heap leaching methods, or will it be necessary to use fine grinding.

Analysis of a representative minus 10-mesh head sample was as follows:

Ounces per Ton	
Au	Ag
0.054	0.12

Twenty four hour bottle leaching tests were run on samples of ore:

1. Crushed to minus 3/8-inch.
2. Crushed to minus 10-mesh.
3. Ground to minus 65-mesh.

Results are tabulated below, and are detailed in the attached test data sheets.

		Calc. Head oz./ton		Leach Residue Assay oz./ton		Recovery in Preg. Soln. oz./ton		Recovery in Preg. Soln. Percent	
Size	Test No.	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Minus 3/8-inch	1	0.045	0.09	0.037	0.07	0.008	0.02	17.8	22.2
Minus 10-mesh	2	0.042	0.13	0.017	0.09	0.025	0.04	59.5	30.8
Minus 65-mesh	3	0.042	0.12	0.002	0.06	0.040	0.06	95.2	50.0

Mr. Walter Knott
c/o Demetra's Kitchen
Phoenix, Arizona

March 10, 1980

PAGE TWO

Note that, although highest gold extraction (95 percent) was obtained on ore ground to 65-mesh, the contact time with cyanide in all tests was only 24 hours. Please note that gold extractions on coarse minus 3/8 inch crushed ore was 18 percent, and on minus 10-mesh crushed ore was almost 60 percent in identical 24 hour periods.

These latter results on coarse ore can be considered favorable for application of relatively low capital and operating cost heap leaching methods, for treating ore similar to the sample submitted for testing.

In order to confirm the foregoing possibility, we recommend running a small 3 inch column leach test on minus 3/8 inch ore, to more nearly simulate actual heap leaching conditions. In this type of test, a 3 inch diameter plastic column is charged with approximately 15 pounds of ore crushed to a preselected size such as 1/2 inch or finer.

Cyanide solution is then added to the top of the column at a certain rate in gallons per square foot per 24 hours. This test normally will continue for approximately 30 days, with the pregnant off solution measured and assayed every 24 hours.

From these test data, a rate of gold extraction versus time curve can be developed, and the optimum leach time calculated. This test will also develop valuable data on whether or not problems may develop with solution channeling (short circuiting), possible percolation rate problems due to slimes, etc.

Cost of such a test would be $3,500, and would take approximately five to six weeks for completion and submission of a final report. Leaching extraction data, of course, will be available as the test progresses.

Enclosed is a report of a recent paper on heap leaching of low grade gold ore at Round Mountain, Nevada, which you may find of interest. Our organization did all the laboratory and pilot plant testing for this operation, followed by design engineering, construction and startup.

Please let us know if we can be of any further service to you.

Sincerely yours,

J. A. McAllister

J. A. McAllister
Vice President and
Assistant General Manager

JAM:sco

Att.

cc: Curtis D. Ensign
(w/att)

MOUNTAIN STATES RESEARCH & DEVELOPMENT

PROJECT NO. 2177 CYANIDATION TEST LOG SHEET	Date 2/21/80	Test Sample -3/8 inch	Test No. CH-1

CONDITIONS AND REAGENTS

Point of Addition	Conditions				Reagent Addition Lbs./Ton				Solution Strength Lbs./Ton		
	Time Mins	Solids (%)	pH	Temp.	CaO	NaCN			CaO	NaCN	
Grind											
Agitation	Hours 0	30			5.0						
	1/2		11.9			4.0					
	2		11.8						0.9	1.7	
	24		11.6						0.6	1.6	
Reagent Consumption (Lbs./Ton)					3.6	0.3					

Remarks

1,165 ml. water
500 gm. ore sample

METALLURGICAL RESULTS

Product	Weight (%)	Assays (%)			Contents			Distribution (%)		
		Au	Ag		Au	Ag		Au	Ag	
Preg. and Wash	386.5	0.002	0.006		0.008	0.02		17.8	22.2	
Leached Residue	100.0	0.037	0.07		0.037	0.07		82.2	77.8	
Calc. Head		0.045	0.09		0.045			100.0	100.0	
Assay Head		0.054	0.12							

Remarks

Screen Analysis Residue

Mesh	(%)
+ 48	
+ 65	
+100	Minus 3/8 inch
+150	
+200	
-200	

MOUNTAIN STATES RESEARCH & DEVELOPMENT

PROJECT NO. 2177 CYANIDATION TEST LOG SHEET	Date 2/21/80	Test Sample minus 10-mesh	Test No. CH-2

CONDITIONS AND REAGENTS

Point of Addition	Conditions				Reagent Addition Lbs./Ton				Solution Strength Lbs./Ton		
	Time Mins	Solids (%)	pH	Temp.	CaO	NaCN			CaO	NaCN	
Grind											
Agitation	Hours 0	30			5.0						
			11.9			4.0					
			11.8						0.9	1.7	
	24		11.6						0.5	1.6	
Reagent Consumption (Lbs./Ton)					3.8	0.3					

Remarks 1,165 ml. water
500 gm. ore sample

METALLURGICAL RESULTS

Product	Weight (%)	Assays (%)			Contents			Distribution (%)		
		Au	Ag		Au	Ag		Au	Ag	
Preg. and Wash	409.6	0.006	0.009		0.025	0.04		59.5	30.8	
Leached Residue	100.0	0.017	0.09		0.017	0.09		40.5	69.2	
Calc. Head		0.042	0.13		0.042	0.13		100.0	100.0	
Assay Head		0.054	0.12							

Remarks

Screen Analysis Residue

Mesh	(%)
+ 48	
+ 65	
+100	Minus 10-mesh
+150	
+200	
-200	

MOUNTAIN STATES RESEARCH & DEVELOPMENT

PROJECT NO. 2177 CYANIDATION TEST LOG SHEET	Date 2/21/80	Test Sample minus 66-mesh	Test No. CH-3

CONDITIONS AND REAGENTS

Point of Addition	Conditions				Reagent Addition				Solution Strength Lbs./Ton		
	Time Mins	Solids (%)	pH	Temp.	CaO	NaCN			CaO	NaCN	
Grind	5	60									
Agitation	Hours 0	30			5.0						
	1/2		11.5			4.0					
	2		11.5						0.9	1.6	
	24		11.4						0.5	1.5	
Reagent Consumption (Lbs./Ton)					3.8	0.5					

Remarks 1,165 ml. water
500 gm. ore sample

METALLURGICAL RESULTS

Product	Weight (%)	Assays (%)			Contents			Distribution (%)		
		Au	Ag		Au	Ag		Au	Ag	
Preg. and Wash	394.7	0.010	0.015		0.040	0.06		95.2	50.0	
Leached Residue	100.0	0.002	0.06		0.002	0.06		4.8	50.0	
Calc. Head		0.042	0.12		0.042	0.12		100.0	100.0	
Assay Head		0.054	0.12							

Remarks * Calculated by difference

Screen Analysis Grind

Mesh		(%)
+ 48		
+ 65	1.30	
+100	8.92	10.22
+150	19.14	29.36
+200	19.91	49.27
-200	50.73	

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INFORMATION IS NOT ALL FIRST HAND
SO ACCURACY NOT GUARANTEED

Mr. Carlson stated that he calculated that a mill head of $50 per ton would have to be maintained at the Little Daisy mill in order to make money. The last run averaged a little over this figure. The ore was extracted from a heavy pyritic area near the bottom of the mine. The ore contains quartz, calcite, some limonite along with the more or less massive pyrite. Carlson is trying to tie up a new discovery of quicksilver near Tonopah, Nevada. The ore runs 20 pounds per ton in quicksilver and consists of a quartzitic sandstone well impregnated with cinnabar. While the reserves have not been calculated they are believed to be large. If this materializes, Carlson plans to suspend Little Daisy operations for the present.
LAS Memo 6-6-62

Mr. Carlson plans to begin operations at the Little Daisy mine and mill, October 29. Some recent exploratory work has developed a few thousand tons of ore which assayed $60 in gold per ton. Carlson figures that he can produce and market the concentrates for $45 to $50 per ton. The ore contains about half of free gold which is affiliated with iron oxides. The remainder is contained in pyrite. Extraction by gravity flotation methods is calculated at 85-87 percent. Carlson believes that the stope area has a good chance of yielding a considerable volume of ore as time goes on. Some relatively high-grade pockets and lenses are mined sparingly for sweetner. Assays for silica and alumina are being run to determine if this better ore will be suitable for flux. Several "bugs" have been ironed out at the mill and the mine road has been improved. LAS Memo 10-24-62

The mill was operating on the gravity (table) side and a string of pyritic-gold concentrate was being obtained. According to Carlson this material is fairly good, $50-$60 per ton. The partners mine and build a reserve at the mill head, and then mill this. This alternating proceedure is repeated etc. The recovery is good, according to Carlson. The ore while occasionally having a "hot" pocket, is generally of mill grade. At present the mining is confined to relatively large lense below the adit level. LAS Memo 6-27-63

Mr. Carlson said he was working at the Saddle Mountain (Story) mine where good values in lead-silver, gold ore had been revealed. He plans to return to work at the Little Daisy soon. He believes that the Saddle Mountain has good potential. Memo LAS 10-7-63

Active Mine List Oct. 1963 - 3 men

Mr. C. O. Carlson at Corral Wash, 2 miles north of Wikieup wants information on the Tiger gold mine south of Aguila. He would also like to lease his Little Daisy gold mine east of Sunflower. GW WR 2/7/73

C. O. Carlson said he had leased his Little Daisy gold property and wanted information on applying for an O.M.E. loan. I sent him an O.M.E. Brochure. GW WR 2/23/73

Stopped at Sunflower store to get directions to the Little Daisy gold mine which C. O. Carlson wrote had been leased. The people in the store said no one was at the mine but an attempt was made to get there over a newly dozed road which became impassable due to large boulders. GW WR 2/28/73

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
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Mine: Little Daisy Mine & Mill — Date: February 7, 1962

District: Sunflower District - Maricopa County — Engineer: Lewis A. Smith

Subject: Telephone conversation with C.O. Carlson

A telephone conversation with C.O. Carlson revealed that he was operating the Little Daisy mine and mill and that he had some good ore ($25 to $30). The mill is doing well. He has three men working for him. The ore is coming from the 300 ft. level. A visit to his house was made and it was learned that he was in Phoenix to get an engine repair part so that the plant was temporarily idle. The mill is operating on stocked ore and Carlson said he had developed a fair reserve of sulphide ore (pyrite and gold). The workman contacted at Carlson's said that the mill will be operating again soon, if the part is found.

REFERENCES

LITTLE DAISY MINE

MARICOPA COUNTY

Arizona Mineral Commodity Update on Zinc, by D.D. Rabb, Bureau of Geology and Mineral Technology, filed in Zinc commodity file. (dated 11-3-77)

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DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

DEPARTMENT OF MINERAL RESOURCES
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Mine: Little Daisy Date: September 29, 1961

District: Sunflower Dist., Maricopa County Engineer: Lewis A. Smith

Subject: Interview with C.O. Carlson (9-27-61) (Supplementary)

Minerals: Gold, silver, lead.

Work: Mr. Carlson reports that the old workings are now open down to the 350 foot level in a winze which was sunk from a 350 foot-adit. The winze is in 300 feet from the portal and is 100 feet south of the main vein. The winze has 4 levels at 100, 200, 250 and 350 feet, respectively. The main shaft was sunk on the main vein to a depth of 450 feet and the collar is about 95 feet above the adit which connects with it. The 100 and 200 levels of the winze are connected to this shaft. The 250 and 350 levels do not reach the shaft but did reach the vein which, most of the way down, is vertical. The 250 foot level cut a 45° dipping vein which carries lead (galena) (4-6% lead) and gold ($60.00 per ton) with some silver (4 ounce per ton). This same vein encountered on the 350 foot level and here it was composed of red iron oxide and pyrite which carries up to $40.00 gold. This vein ranges from 2-6 feet wide where exposed. According to Carlson's measurements this vein should intersect the main vein at about 50-70 feet below the 350 level. The two bottom levels reached the vein and encountered relatively low-grade ore ($15 to $25 to the ton). Carlson plans to winze down to pick up the vein intersection, since he feels that his would be a fine locus for ore accumulation. The main shaft passed through three lenses of ore with narrow bottle necks between them. At the bottlenecks the rock (schist) was severely shattered but more strongly or densely silicified. It is assumed by him that these bottlenecks represent flat pre-mineral shears which are probably roughly parallel to the 45° veins. It is evident that the widest parts of the lenses of ore immediately underlie the bottlenecks. The main vein follows the contact between a dense hard diorite and a medium bedded schist. The lenses are formed in the schist, but little ore is found in the diorite. The schist is severely metamorphored and altered by the mineral solutions. Generally the vein, as it passes through the bottlenecks is narrow (up to 2 feet) whereas it reaches 3-9 feet in width in the lenses. Since similar flat shearing is not uncommon in the Sunflower area, Mr. Carlson appears to be right as to their influence on ore accumulation. The rising hydrothermal solutions easily could have been damed by the shear planes causing the lenses to develop. The veins trends NE-SW and the shear planes are at an oblique angle to the main vein. The lenses are tapered from bottom to top with the wide part being at the top against the inferred shear planes. Mr. Carlson said that the shears show only as iron stained bands in the surface rocks, and the 45 degree vein does not, to his knowledge, outcrop. Mr. Carlson also stated that longitudinal development has not been extensive so that eventually he hopes to develop more lenses along the strike. Considerable high-grade ore was mined many years ago by Tom Russell's grandfather from three lenses. One pocket ran very high (reportedly over $10,000 per ton). Tom Russell said some ore ran around $2,000 to $2,500. The canyon which runs south of the main vein has yeilded very good placer gold. Carlson reported that the narrow bottlenecks are very low grade. A condition which is not too common. Considerable ore, running $12.00 up to $40.00 has been developed.

A new mill has just about been completed. It will employ gravity concentration, followed later by flotation to separate galena. The best gold is

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine: Little Daisy | Date: 9-29-61

District: Sunflower Dist., Maricopa Co. | Engineer: Lewis A. Smith

Subject: Interview with C. O. Carlson

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
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Cont'd from page 1

often associated with Wulfenite and galena. His estimates are that silver will run 3-4 ounces. Practically no copper is present. Since the lead, silver and gold are apparently closely associated a gravity plant should do well.

A visit is planned on 10-4-61.

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DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine: LITTLE DAISY GROUP

Date: June 5, 1959

District: Sunflower District, Maricopa County

Engineer: LEWIS A. SMITH

FILED
JUN 30 1959

Subject: Interview with C. O. Carlson 6-3-59

Claims: 4 - unpatented

Owners: A.A. ~~Frederickson~~ Frederickson and Co., 7045 N. 12th St., & C. O. Carlson, Payson, Arizona

Location: Sec. ~~1~~ 10, T. 6 N., R. 9 E.

A/C Topog. sheet Reno Pass

Work: Consists of 6 levels (40 ft, 75 ft., 120 ft., 170 ft., 270 ft., and 325 ft.). The 75' level is connected to an adit. A shaft extends vertically downward from the 75 foot or adit level to below the 325 foot level. The levels from the 270 foot upward are connected by a group of vertical and inclined raises which follow the ore zone which pitches ~~west~~ north ward down to the 170 level where it steepens up to nearly vertical. The 170 level is the most extensive. It follows the ore body for 200 feet turns south for 240' and follows the west trending south vein for about 200 feet. Stopes are above the 75 foot level. The north ore zone varies from 15 feet near the 75' level to as much as 50 feet on the 270 level. The ore length and width is variable and the length is known for several hundred feet.

GEOLOGY: Ore lies in two veins (north and south) which strike nearly E-W. and have variable dips. They dip northward at steep angles. The main ore shoots are in schist, which appears to be high in hornblende contact, and are centered near the vein intersections with the granite schist contact. Blebs of quartz and local stringers carry gold. The average ore runs 0.14 oz in gold but hot spots run up to 6.16 oz in gold. The o.14 oz material concentrates to about 3.76 oz gold with a tail of 0.02 oz gold. The ore thus far developed runs between 0.04 and 0.18 oz gold. Work on an old mill at Carlson's place is proceeding. A new crusher and ball mill are to be installed. The tests indicate that the gold is free in limonite, but is quite fine in grain size, and that it will separate on tables. However, tests by cyanidation will be run before either method of adopted. No appreciable quicksilver has been observed in the oxidized material. Sulphide is largely limited to pyrite but sphalerite is suspected. Carlson stated that it was his opinion that the gold was introduced with the pyrite. This is most probably true as this is a very common association.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
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Mine **Little Daisy Mill** Date October 3, 1961

District **Sunflower District, Maricopa Co.** Engineer **Lewis A. Smith**

Subject: **Mill visit and conference with C.O. Carlson**

The mill is located one mile via Hwy 87 north and thence 1½ miles southeast by country road. The mill is 3/4 mile north of the Irl Conway ranch house. The Little Daisy mill is about 1-3/4 miles from the Little Daisy mine which lies northeast of the mill.

The accompanying flow sheet is an approximate description of the mill. The feed consists of three types of material.

(1) Vein quartz with vugs and stringers lined by yellow to red limonite. The gold in this is free, while the lead is in the form of vanadinite, wulfenite, cerussite and anglesite, and some relict galena. This type contains less quartz than type 3.

(2) Massive pyrite ore (partly oxidized) with contained gold. Galena in tiny bunches, is locally present. This type came in below the 250 foot level in a 45 degree dipping vein which is calculated to intersect the main vein below the 350 foot level.

(3) Schist ore which is banded by quartz stringers and swelled bunches of quartz. The quartz follows the schist laminae. This type down to the 250 foot level is almost entirely oxidized.

The type 2, or sulphides, will be floated.

Carlson was running lead-zinc-copper mixed sulphide ore from the Bradshaws at the time of the visit.

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SURVEY OF OPERATING MINES

July 25, 1942

By: FRED H. PERKINS

LITTLE DAISY MINE

DEPT. MINERAL RESOURCES
RECEIVED
JUL 27 1942
PHOENIX, ARIZONA

Owners: Tom Daniels
Grady Harrison
Tom Russell
Co-partnership

Address: Post Office Box 918, Mesa, Arizona
Tom Daniels, Manager

1941 Production for the year $50,000 in gold only. This property has a deisel plant and generator which drives a compressor and hoist and a complete mill of 25 ton capacity.

The development consists of a 500' vertical shaft and about 700' of a drift on the 100' level and 300' of drifts elsewhere on the property. A complete mining outfit makes this a nice operation.

An average of 6 men employed.

1942 Production from January to May 25, 1942, was $3,500 in gold.

Because of misunderstanding among owners and their inability to get supplies, the mine closed down May 25, 1942.

An average of 8 men employed.

LITTLE DAISY MINE

MARICOPA COUNTY

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
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Saw Carl Carlson in Coral Wash. He said he had leased the Little Daisy gold mine east of Sunflower to a Mr. [illegible] from New Mexico. He asked for information on the old Hackberry Ag mine, which will be sent. GW WR 3/7/73

Visited with C.O. Carlson at his camp on Coral Wash. He is rigging up a small mill to amalgamate and concentrate Au ore. He said he had leased his Little Daisy Au mine near Sunflower to some people from Hurricane, Utah. GWWR 10/3/73

Stopped at the Little Daisy Au mine 3 miles NE of Sunflower but no one was around. GW WR 10/17/74

James Ray, General Delivery, Sunflower, Payson, Arizona, has leased the Little Daisy mine near Sunflower and is planning to dewater the shaft. The first one hundred feet of timbering has been burned out by vandals. The 75 hp pump to be used is capable of pumping 200 gallons per minute to a height of 700 feet. Jerry Weathers is his consulting geologist. KAP WR 11/6/74

James Ray, General Delivery, Sunflower, Payson, has leased the Little Daisy mine near Sunflower and is preparing to dewater the shaft. The first 100 feet of timbering has been burned out by vandals. The 75 hp pump to be used is capable of pumping 200 gallons per minute to a height of 700 feet. Jerry Weathers is his consulting geologist.

PAY DIRT for December 23, 1974

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WR GW 9-20-77 - Andy Watzek called for information on the Little Daisy gold property near Sunflower, saying the owners have offered it for collateral on several loans. 9-27-77 [illegible]

KP, WR 5/1/78 - Walter Knott, P.O. Box 688, Payson, Az. 85541, reported during an office visit that he is the owner of the Little Daisy Mine and the Golden Rule Mine, both in the Sunflower District of Maricopa & Gila Counties. He plans on setting up a 25 ton per day mill. A concentrate reportedly prepared by a friend at Magma, San Manuel from dump material at the Little Daisy contained 21% Pb, 6%Cu, 45.34 Tr. oz./ton gold, 69.50 Tr. oz./ton silver and 1.8% Hg. He reported dump material from which the concentrate was produced to run 5.9 Tr. oz./ton gold. Mr. Knott explained that he lacked the knowledge to construct the mill but he had an undisclosed partner-friend that would handle it. It seems, from the value of the processed dump material, that no complete sampling has been done. 5/18/78 a.p.

LITTLE DAISY MINE MARICOPA COUNTY

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Little Daisy Date February 3, 1960

District Sunflower Dist., Maricopa Engineer Lewis A.Smith

Subject: THE ARIZONA DEPARTMENT OF MINERAL RESOURCES MAKES NO REPRESENTATION AS TO THE ACCURACY OF THE CONTENTS OF THESE DOCUMENTS.

C.O. Carlson has been opening up and repairing the older part of the Little Daisy and is now installing a gasoline hoist and skip. He has developed a small reserve of fair ore($25.00 to 35.00) and has encountered a few small high grade pockets. He plans to use his old gravity mill, now located at his home 1½ miles north of the Bee Line Highway on Sycamore Creek, and to add a ball mill. The road has been re-opened after it was severely damaged by recent heavy rains. He has two men working for him. A. A. Fredrickson, 7045 N 12th St., Phoenix, is affiliated with him in the venture. Carlson also has raised 25 feet from the end of the south drift in ore.

Grady Harrison, who with Lovelace and Tom Russell, used to operate the mine, stated that the old workings included a 65 foot inclined shaft and 200 feet of underground lateral work. He stated, also, that the mine is inclined to be pockety and erratic, but some pockets were very high grade. They had a mill 1½ miles below the Daisy which employed pan-amalgamation. This mill, as far as is now known, has been largely dismantled. Original mill was built by Harry Burton.

LITTLE DAISY MINE

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES MAKES NO REPRESENTATION AS TO THE ACCURACY OF THE CONTENTS OF THESE DOCUMENTS.

MARICOPA COUNTY

A postcard from Bill Grimes (Sunflower Dist., Maricopa-Gila Counties) indicated that the Pine Mountain, Little Daisy, Mercuria and Onieda mines and the Rattlesnake and Onieda mills are active in the Sunflower area. All of these operations are periodic. LAS WR 9-30-60

Active Feb. 1961

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
MAKES NO REPRESENTATION AS TO THE ACCURACY
OF THE CONTENTS OF THESE DOCUMENTS.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine: Little Daisy — Date: June 7, 1961

District: Sunflower District, Maricopa Co. — Engineer: Lewis A. Smith

Subject: Interview with L.D. Cunningham (Ord Mine)

Mr. Cunningham stated that Mr. C.O. Carlson was away in Nevada on an emergency and would not be back until next week. He and a workman are still developing the Little Daisy gold prospect and had reported some good recent results. Mr. Cunningham also said that Dick Robbins and Oliver Brunson were still developing at the Mercuria.

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
MAKES NO REPRESENTATION AS TO THE ACCURACY
OF THE CONTENTS OF THESE DOCUMENTS.

LITTLE DAISY MINE

MARICOPA COUNTY
SUNFLOWER DIST.

The Daisy Group (between the National & the Ord) is being cleaned up and Carlson's old mill is being revamped to handle gold ore. Tests are underway to determine whether cyanidation or gravity concentration will be best suited to the ore.

L.A.SMITH - Weekly Report - 6-5-59

C.O. Carlson, Payson, Arizona reported that he and two others are cleaning up the Little Daisy gold property. Some gold values have been found in a quartz stringer lode in schist. Carlson stated that he plans to begin quick-silver operations on the Red Bird about November 1st.

L. A. SMITH - Cf - Sunflower 10-7-59

INTERIM REPORT

LITTLE DAISY, SPANISH, GOLDEN RULE

By Bob Lunceford

September 3, 1979

By Don Vogler

September 10, 1979

Bob Lunceford

It is advised that the acquisition of this property at this time would be premature. This recommendation is based on assays of collected samples from the mines and surface outcrops, and careful scrutiny of available information supplied by Mr. Knott, including assays and past productive records.

1. Grade of Ore: The average grade of ore sample taken at the surface and in the workings, including those collected by Mr. Knott, fell below 0.1 ounces gold / ton. Available production figures (1935 - 1937) indicate an average of 1.04 ounces gold / ton and 1.3 ounces silver / ton, demonstrating that high grade ore exists at depth. However, the production figures show that approximately 1 ton of ore was mined per day suggesting that high grade was selectively mined, inflating the average grade of ore.

2. Size of Ore Vein: Based on a preliminary examination of the vein system and assay results, it is likely that ore does not extend to the country rock, limiting the overall available tonnage. Vein reserves yield approximately 1.8×10^6 tons at an average grade of 0.08 ounces gold / ton, calculated as follows:

$$\frac{\text{length x width x depth}}{\text{ft.}^3\text{/ton}} = \frac{4000 \times 4 \times 200}{18} = 1.8 \times 10^6 \text{ tons}$$

3. Type of Ore: Mr. Knott has obtained assays on ore concentrates that reach 40 lbs. mercury/ton However, assays on samples collected during the preliminary investigation did not show a trace of mercury. Copper mineralization does not exceed 0.10 percent/ton according to assay reports supplied by Jacobs assay office.

It is unknown how much economic ore exists below the 200 foot level. Assays supplied by Mr. Knott and those listed in Bureau of Mines reports indicate samples as high as 7 ounces gold / ton. Core drilling on the deeper portions of the vein would prove out potential reserves at depth. Minimum required

core drilling for preliminary exploration of deeper targets would exceed 3000 feet calculated on 4000 feet of vein exposure at 500 foot centers to 400 feet in depth. Selected bulldozer cross-cuts on the vein at surface exposures would be expected to yield similar grades to the assays previously mentioned.

ADDITIONAL COMMENTS- Don Vogler

Mercury (See Paragraph 3):

While current assays performed on behalf of HM & R did not show more than trace amounts of mercury, it was observed that the mill currently produces metalic mercury from the ball mill and table. Upon checking with the assay lab on why the assay would show only trace when the mercury was visible, it was determined that the lab made an error. As the ore was wet when delivered, they oven dried it and probably vaporized any mercury contained in the sample, thus losing it.

Grade of Ore (See Paragraph 1):

While values of samples taken by Mr. Knott and Mr. Lunceford did fall below .1 ounce / ton average, it is encouraging that no nil or zero values were found.

Previous Geological Reports:

It appears from reports from those who have actually been down in the water filled shafts that the ore from the surface is highly oxidized down to the 250 foot level and as depth increases, the pyrite ores containing the gold values become more prevalent and less oxidized. It is estimated that the main vein begins in the depth area of 350 feet. It is proposed by C. O. Carlson that rising hydrothermal solutions were domed by prevalent shear planes, causing the now known lenses to develop.

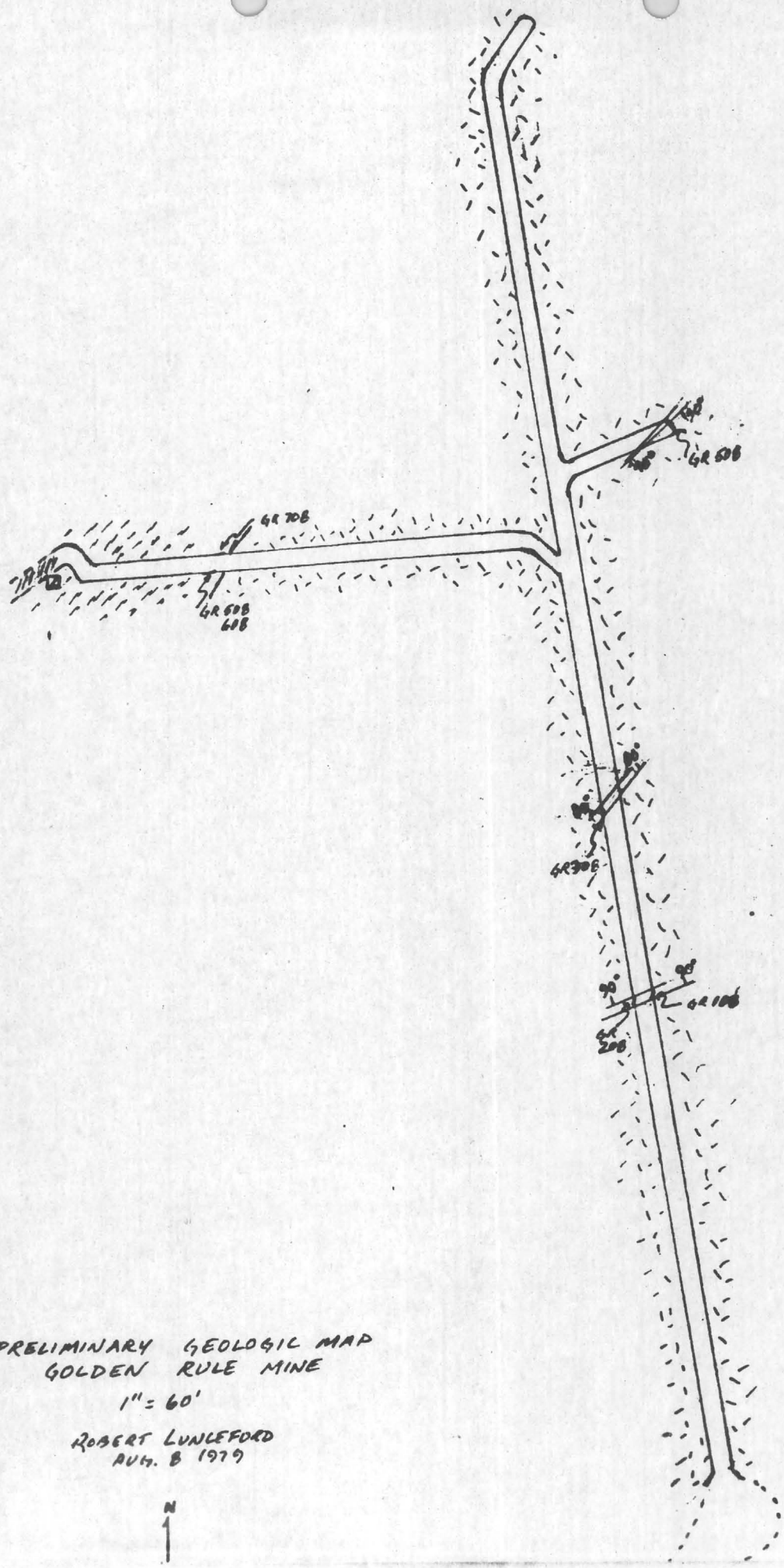
Recommendations:

Concurrence with Mr. Lunceford's survey suggestions is recommended. A drill program over the exposed vein out-crop areas could be begun on 500 foot centers for up to 4000 feet.

The drill holes could be up to 500 feet in depth and the program could be terminated at any stage.

Pumping the Daisy shaft dry to the bottom would also allow further examination of the property at depth.

It is suggested that a survey program could be begun for $30,000.00 minimum; however, if carried to completion, the estimated cost could be as much as $100,000.00.



PRELIMINARY GEOLOGIC MAP
GOLDEN RULE MINE

1" = 60'

ROBERT LUNCEFORD
AUG. 8 1979

N

Arizona Testing Laboratories

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

For Houston Mining & Resources Inc. Date August 6, 1979
Mr. Don E. Vogler
3000 South Post Oak Road, Suite 1480
Houston, Texas 77056

ASSAY CERTIFICATE

LAB NO.	IDENTIFICATION	OZ. PER TON		PERCENTAGES			
		GOLD	SILVER	COPPER	Mercury		
832	Spanish Cave	0.06	0.10		nil		
	Spanish Mine Portal	0.01	trace		nil		
	Spanish Mine Main Vein #2	0.02	trace		nil		
	Little Daisy 80' Adit.	0.02	nil		nil		
	Little Daisy 60' Adit.	trace	nil		nil		
	Golden R~~oof~~ ULE #1 Concentrate	0.03	0.25		---		
	~~Golden Turkey 2nd Concentrate~~	~~0.77~~	~~1.60~~		~~---~~		
	~~Golden Turkey 3rd Concentrate~~	~~0.39~~	~~0.70~~		~~---~~		
	~~Non Magnetic Fraction~~	~~28.~~	~~9.2~~		~~---~~		
	~~Magnetic Fraction~~	~~2.4~~	~~1.90~~		~~---~~		

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

Registered Assayer
Claude E. McLean
Arizona
8/6/79

1435 SOUTH 10TH AVENUE
TUCSON, ARIZONA 85713

Jacobs Assay Office

Registered Assayers

PHONE 622-0813

Tucson, Arizona, 8 August, 1979

Sample Submitted by Mr. Arizona Testing Lab.

Sample Marked	GOLD Ozs. per ton ore	~~GOLD Value per ton ore~~	SILVER Ozs. per ton ore	~~COPPER Per Cent Wet Assay~~	~~LEAD Per Cent Wet Assay~~	MERCURY Per Cent Wet Assay	~~Per Cent Wet Assay~~	~~Per Cent Wet Assay~~
GR-1	TRACE		0.10			Hg		
-2	TRACE		0.15			0.02		
-3	0.005		0.15			TRACE		
-4	0.020		0.35			Nil		
DL-1	0.005		0.15			Nil		
LD-2	TRACE		0.10			TRACE		
						0.01		

*Gold Figured $100.00 per oz. Troy

Charges $ _____

Very respectfully,

Max Gerlo

Arizona Testing Laboratories

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

For Houston Mining & Resources Inc. Date August 10, 1979
3000 South Post Oak Road
Suite 1480
Houston, Texas 77056
Attn: Mr. Don Vogler

ASSAY CERTIFICATE

LAB NO.	IDENTIFICATION	OZ. PER TON		PERCENTAGES			
		GOLD	SILVER	COPPER			
911	GOLDEN RULE GR 108	trace	trace				
	GR 208	trace	trace				
	GR 308	trace	0.05				
	GR 408	trace	0.20				
	GR 508	trace	0.05				
	GR 608	trace	0.95				
	GR 708	nil	0.05				
	SPANISH S 108	trace	trace				
	S 208	trace	0.05				

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

Claude E. McLean, Jr.

Registered Assayer
Certificate No. CV-6253
Claude Eugene McLean, Jr.
Date Signed 8/10/79
Arizona, U.S.A.

Arizona Testing Laboratories

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

For Houston Mining & Resources Inc. Date July 31, 1979
Mr. Don E. Vogler
3000 South Post Oak Road, Suite 1480
Houston, Texas 77056

ASSAY CERTIFICATE

LAB NO.	IDENTIFICATION	OZ. PER TON		PERCENTAGES			
		GOLD	SILVER	COPPER			
782	Little Daisy Schist	trace	trace				

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

Registered Assayer
CERTIFICATE NO. 6268
CLAUDE EUGENE McLEAN, JR.
7/31/79
ARIZONA, U.S.A.

Arizona Testing Laboratories

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

For Houston Mining & Resources Inc. Date August 10, 1979
3000 South Post Oak Road
Suite 1480
Houston, Texas 77056
Attn: Mr. Don Vogler

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Respectfully submitted,

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Claude E. McLean, Jr.

Registered Assayer
CERTIFICATE NO.
6258
CLAUDE EUGENE
McLEAN, JR.
Date Signed 8/10/79
ARIZONA, U.S.A.

INTERIM REPORT

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By Bob Lunceford

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By Don Vogler

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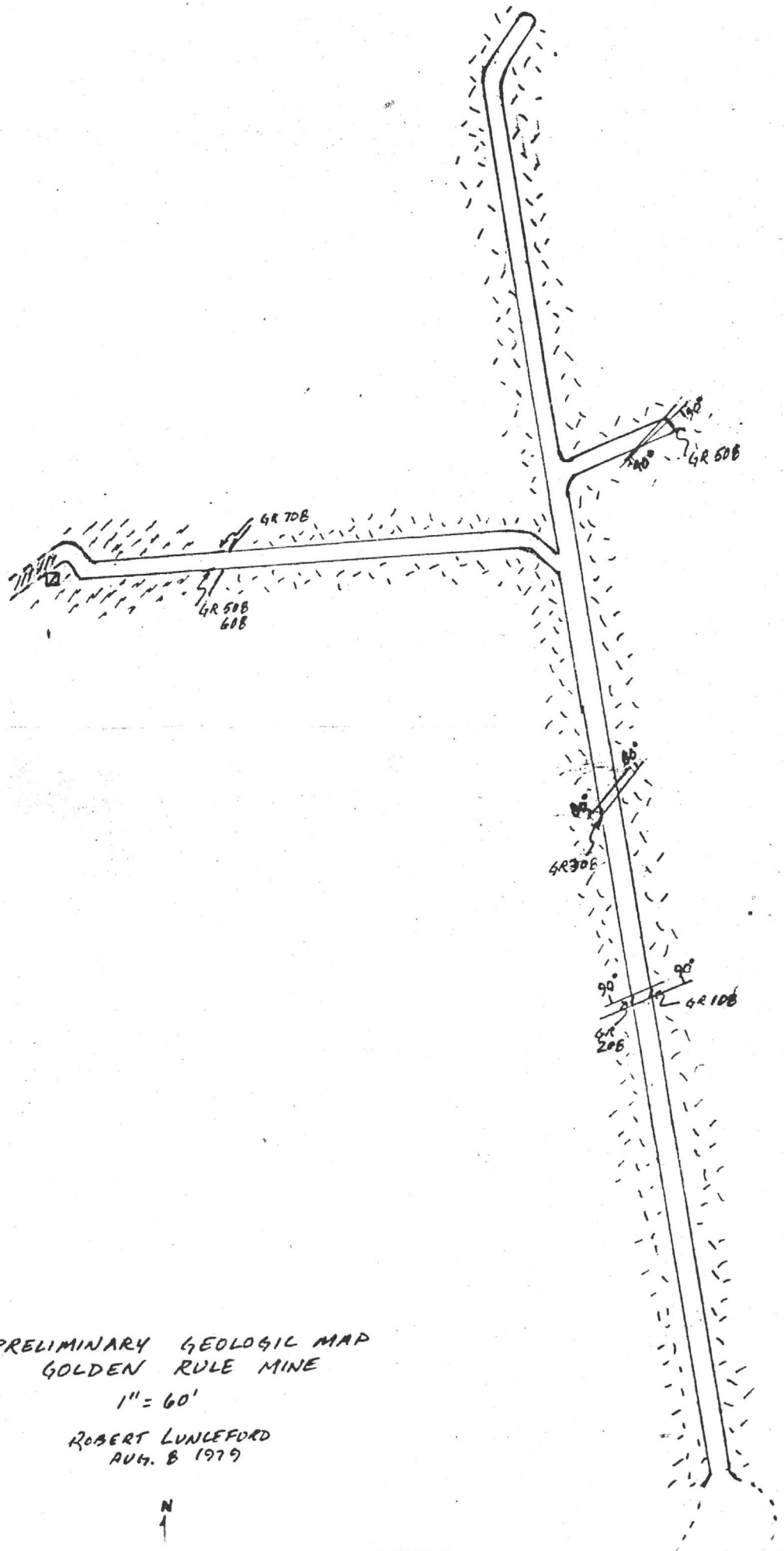
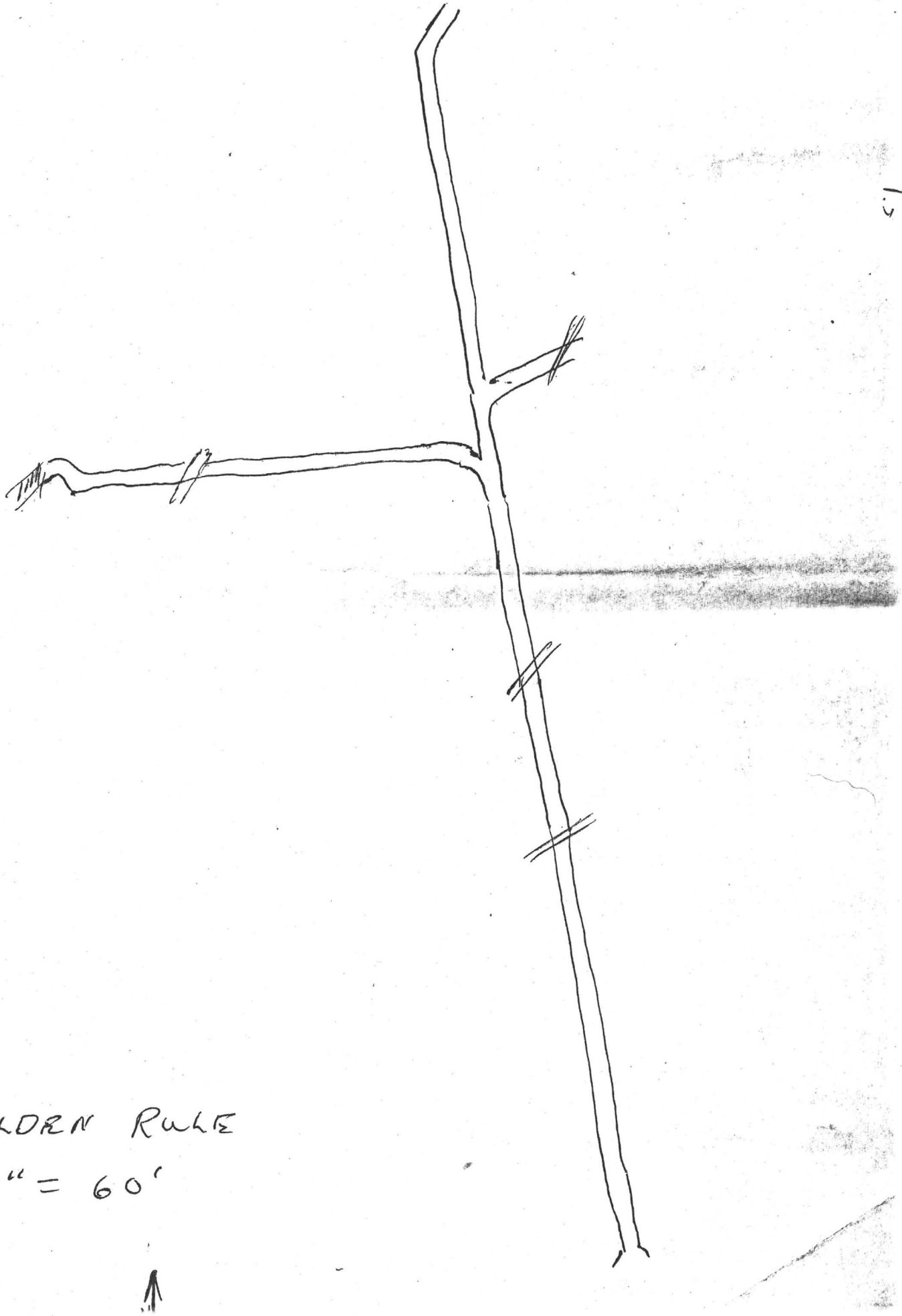


PRELIMINARY GEOLOGIC MAP
GOLDEN RULE MINE
1" = 60'

ROBERT LUNLEFORD
AUG. 8 1979


GOLDEN RULE
1" = 60'

MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

LITTLE DAISY GROUP
SUNFLOWER GROUP. MARICOPA
C.O. Carlson, A.A Fredrickson.

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES MAKES NO REPRESENTATION AS TO THE ACCURACY OF THE CONTENTS OF THESE DOCUMENTS.

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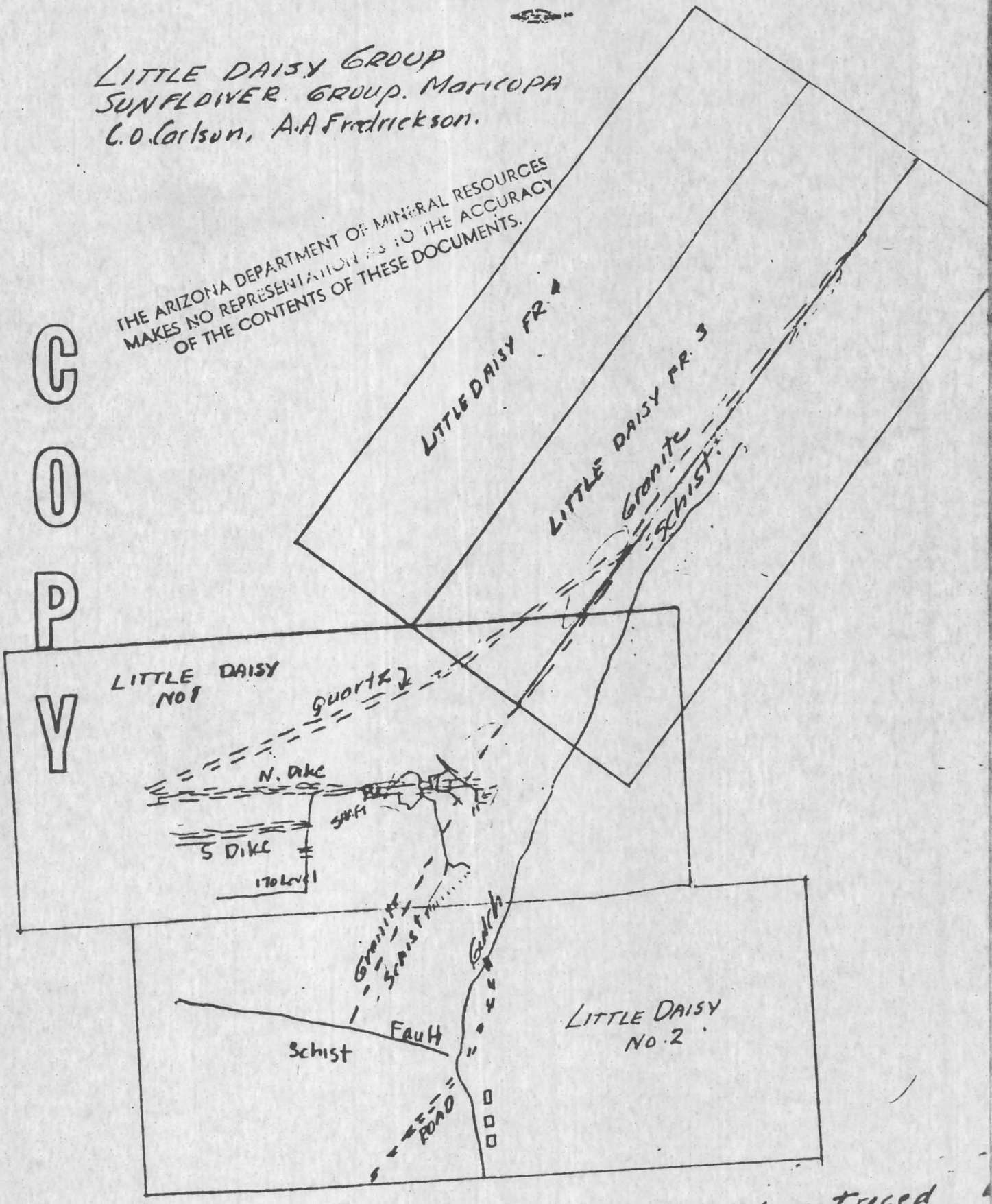

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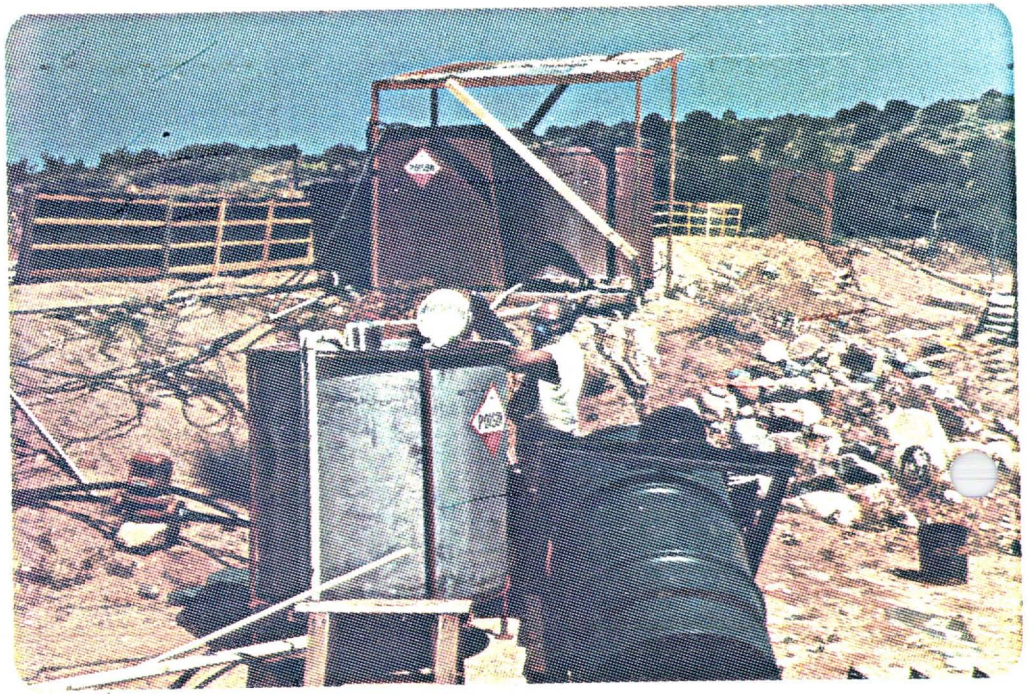
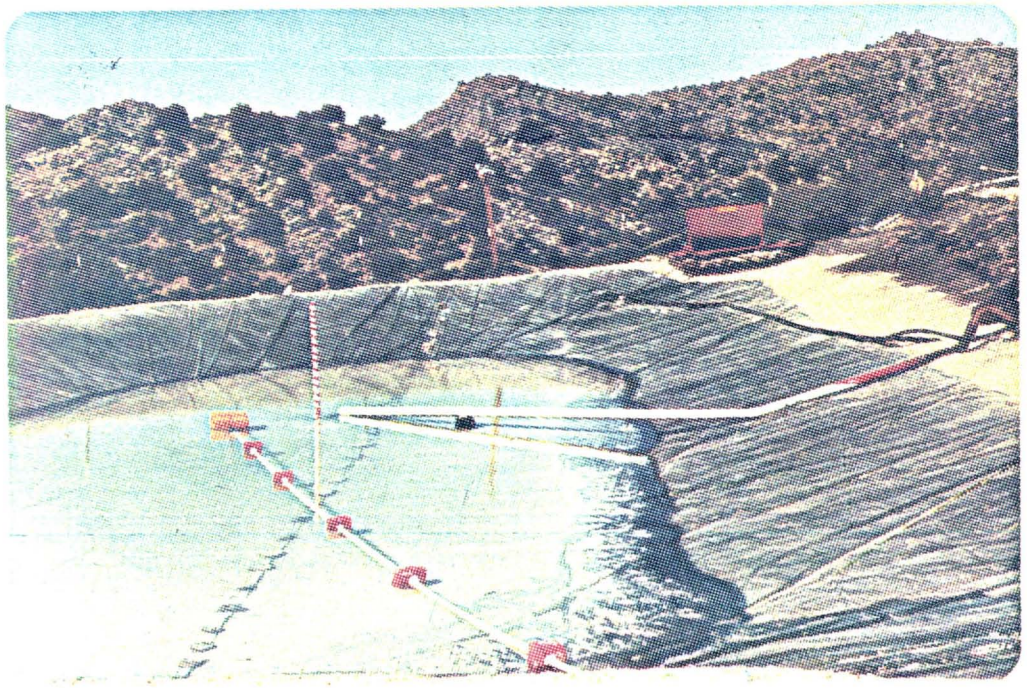
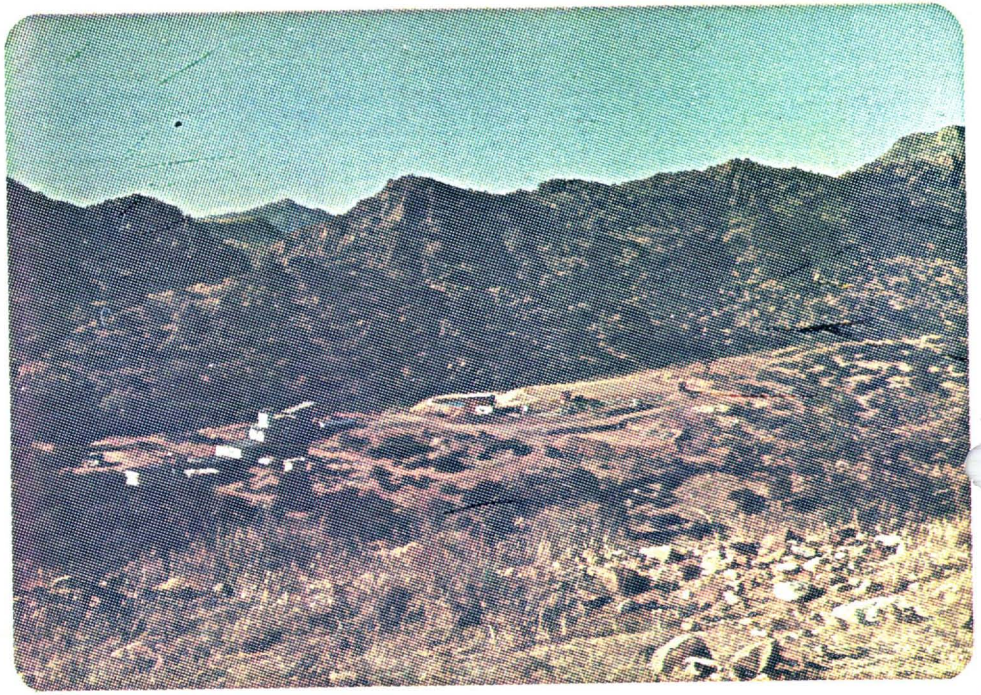
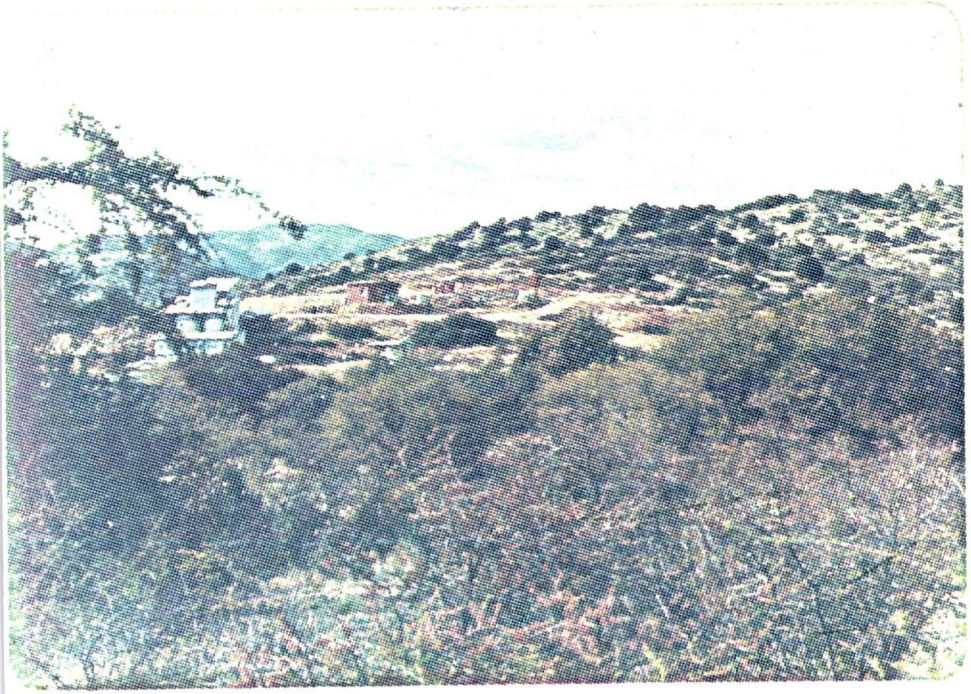
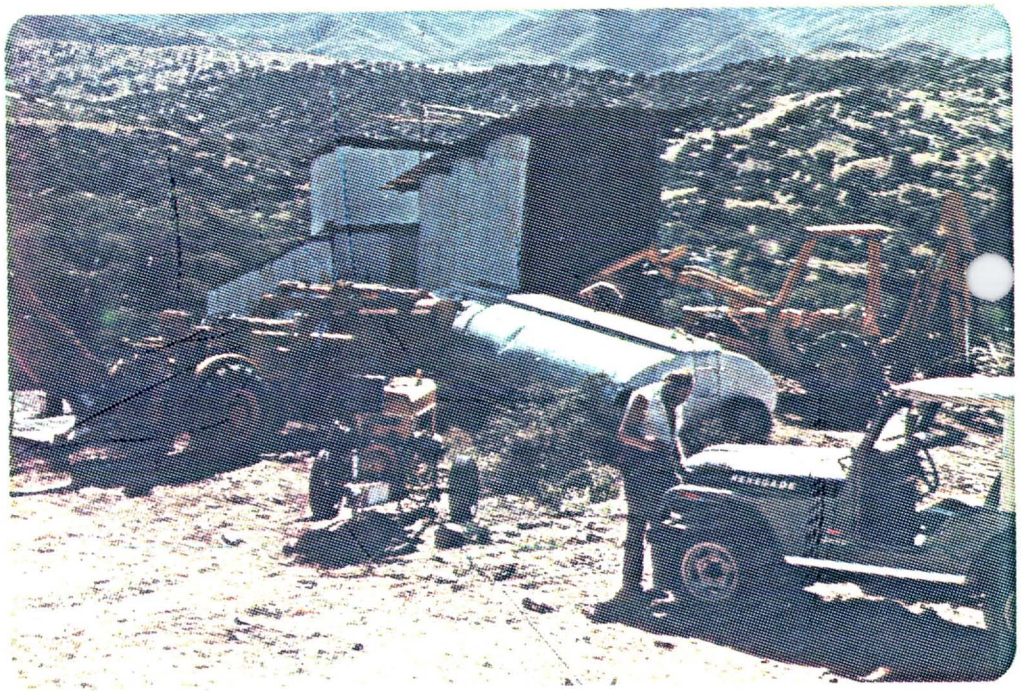




LEACHING AREA & PLANT







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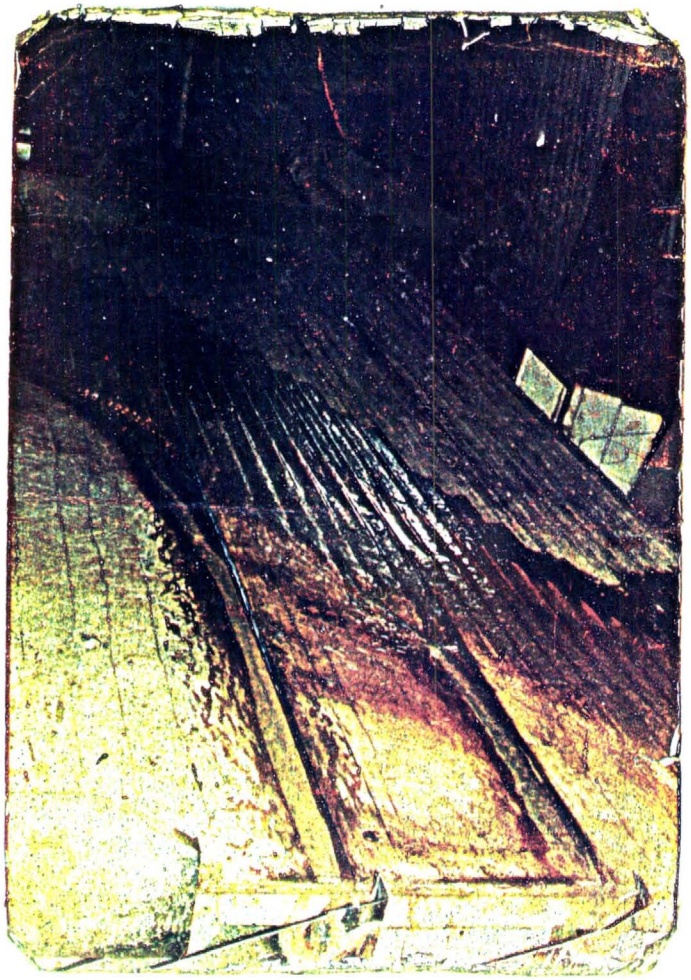
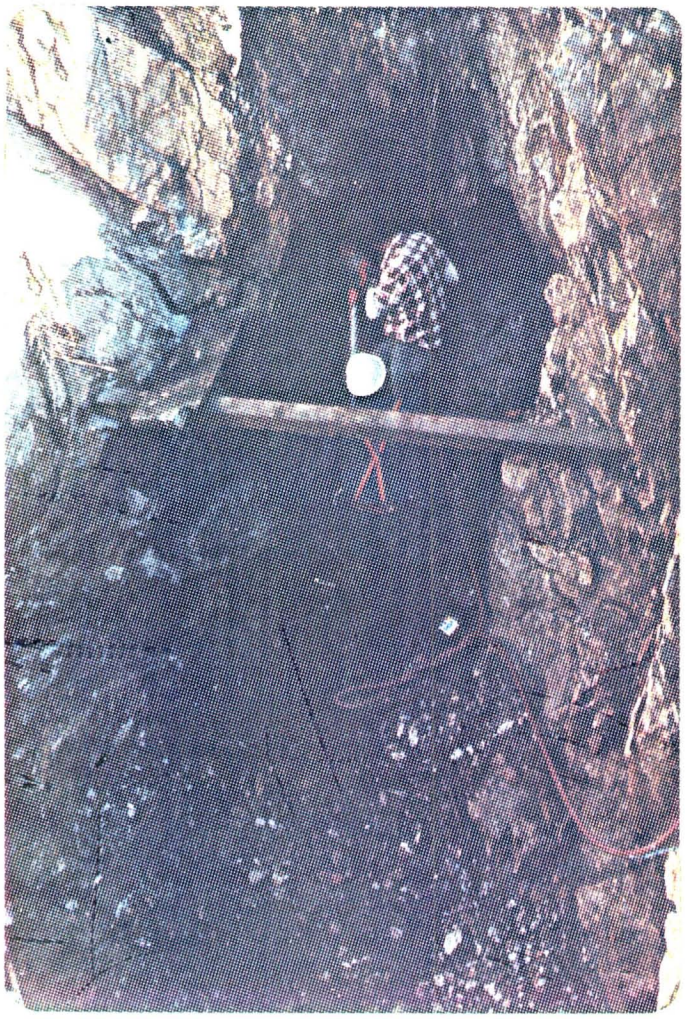
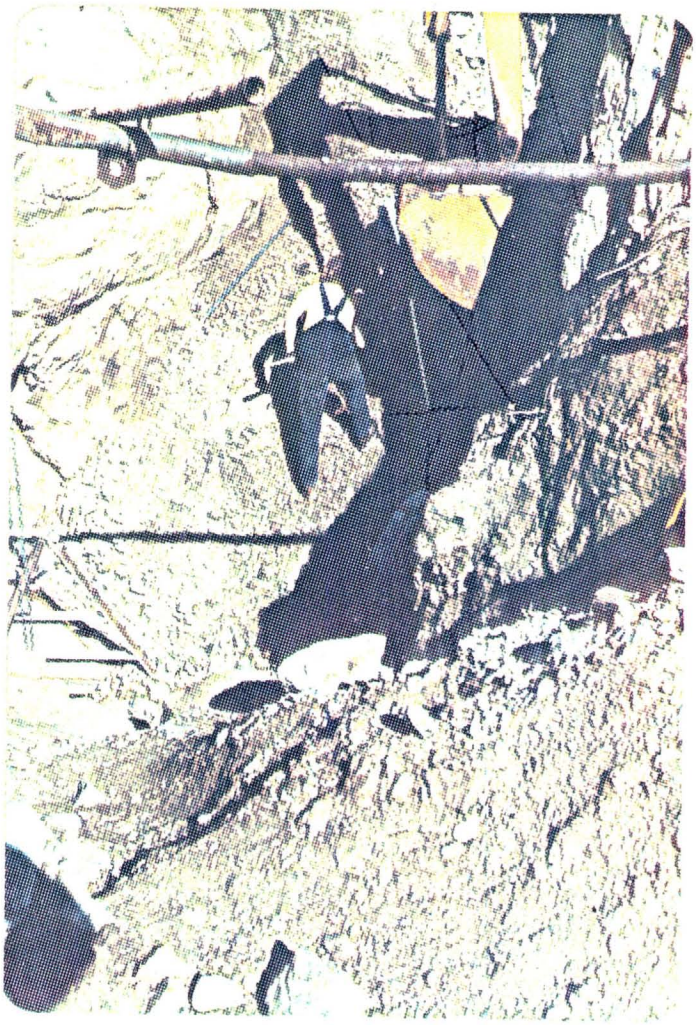


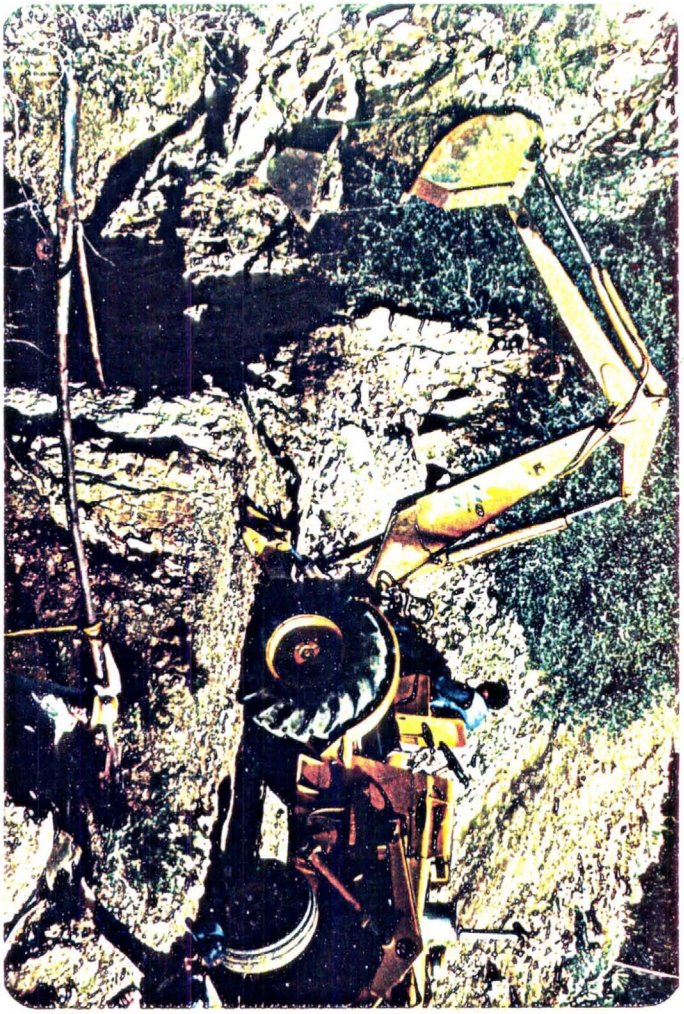
DAISY ORE

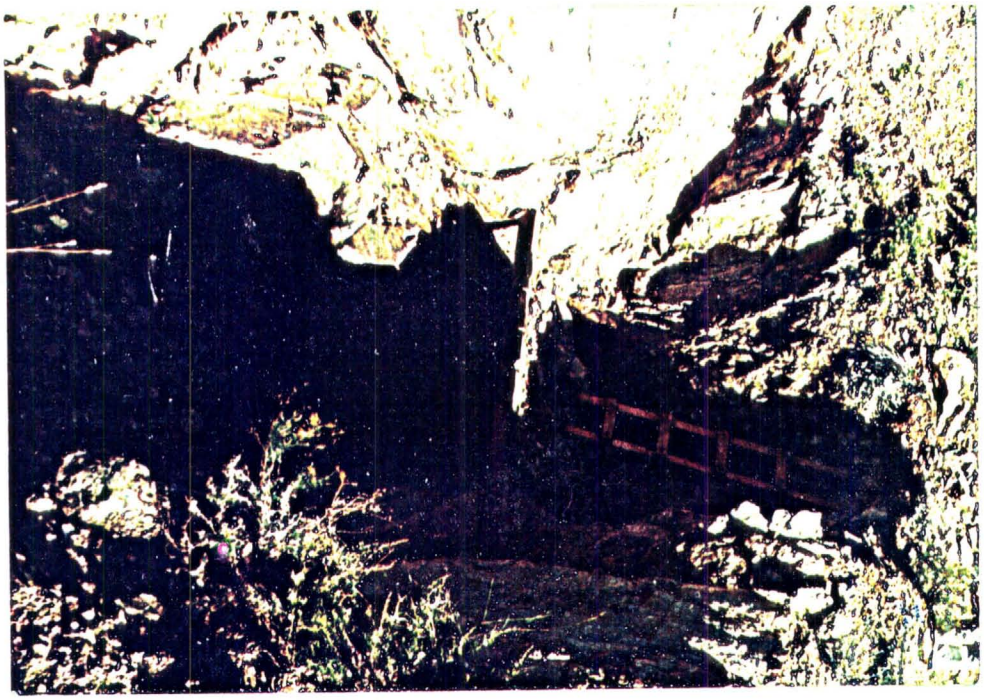




SPANISH MINE

LITTLE DAISY
MINE





SPANISH MINE

INDEX

TAB NO.	DOCUMENTS
1	PROJECTION OF RETURN ON INVESTMENT MAP OF MINE AREA MILL FLOW CHART DIAGRAM OF MINE
2	QUIT CLAIM DEED
3	BACKGROUND, HISTORY AND INFORMATION, PERSONAL AND MINES
4	ASSAY REPORTS, MISCELLANEOUS
5	ASSAY REPORTS, MAGMA COPPER CO.
6	FIELD ENGINEERS REPORTS, ARIZONA DEPT. OF MINERAL RESOURCES
7	HANDWRITTEN MINE RECORDS, 1938–1941

DKT 12703PG 793

STATE OF ARIZONA, County of MARICOPA } ss. I hereby certify that the within instrument was filed and recorded FEB 7 - 1978 - 1 45, 19____, at _____ M.

In Docket No. 12703, Page 793, at the request of J. Burns

Fee No.:

Indexed: 44599

Compared:

Photostat:

Fee: $ 300

I.R.S.: $

When recorded mail to:

Walter Knott
4712 4217 E. Osborn Rd.
Phoenix, Az. 85018

Witness my hand and official seal.

TOM FREESTONE
County Recorder

By Larry Ono
Deputy Recorder

Quit-Claim Deed

For the consideration of Ten Dollars, and other valuable considerations, ~~I~~ or we, DIVERSIFIED MINING AND EXPLORATION CORPORATION

hereby quit-claim to WALTER KNOTT

all right, title, or interest in the following real property situated in MARICOPA County, Arizona:

Mining Claim	Filing Date	Docket No.	Page No.	BLM No.
Little Daisy #1	11-25-77	12565	544	A MC 17136
Little Daisy #2	11-25-77	12565	545	A MC 17137
Little Daisy #3	11-25-77	12565	546	A MC 17138
Little Daisy #4	11-25-77	12565	547	A MC 17139
Little Daisy #5	11-25-77	12565	548	A MC 17140
Little Daisy #6	11-25-77	12565	549	A MC 17141
Little Daisy #7	11-25-77	12565	550	A MC 17142
Little Daisy #8	11-25-77	12565	551	A MC 17143
MILLSITES:				
Little Daisy Mine	11-29-77	12568	232	A MC 17145
Diversified #2	10-26-77	12507	948	A MC 17144

MARICOPA COUNTY RECORDER ARIZONA

Dated this 31st day of January, 19 78

LITTLE DAISY MINE

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
MAKES NO REPRESENTATION AS TO THE ACCURACY
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MARICOPA COUNTY

A postcard from Bill Grimes (Sunflower Dist., Maricopa-Gila Counties) indicated that the Pine Mountain, Little Daisy, Mercuria and Onieda mines and the Rattlesnake and Onieda mills are active in the Sunflower area. All of these operations are periodic. LAS WR 9-30-60

Active Feb. 1961

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine: Little Daisy — Date: 9-29-61

District: Sunflower Dist., Maricopa Co. — Engineer: Lewis A. Smith

Subject: Interview with C. O. Carlson

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
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Cont'd from page 1

often associated with Wulfenite and galena. His estimates are that silver will run 3-4 ounces. Practically no copper is present. Since the lead, silver and gold are apparently closely associated a gravity plant should do well.

A visit is planned on 10-4-61.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
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Mine: Little Daisy — Date: June 7, 1961

District: Sunflower District, Maricopa Co. — Engineer: Lewis A. Smith

Subject: Interview with L.D. Cunningham (Ord Mine)

Mr. Cunningham stated that Mr. C.O. Carlson was away in Nevada on an emergency and would not be back until next week. He and a workman are still developing the Little Daisy gold prospect and had reported some good recent results. Mr. Cunningham also said that Dick Robbins and Oliver Brunson were still developing at the Mercuria.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES MAKES NO REPRESENTATION AS TO THE ACCURACY OF THE CONTENTS OF THESE DOCUMENTS.

Mine: Little Daisy Mill — Date: October 3, 1961

District: Sunflower District, Maricopa Co. — Engineer: Lewis A. Smith

Subject: Mill visit and conference with C.O. Carlson

The mill is located one mile via Hwy 87 north and thence 1½ miles southeast by country road. The mill is 3/4 mile north of the Irl Conway ranch house. The Little Daisy mill is about 1-3/4 miles from the Little Daisy mine which lies northeast of the mill.

The accompanying flow sheet is an approximate description of the mill. The feed consists of three types of material.

(1) Vein quartz with vugs and stringers lined by yellow to red limonite. The gold in this is free, while the lead is in the form of vanadinite, wulfenite, cerussite and anglesite, and some relict galena. This type contains less quartz than type 3.

(2) Massive pyrite ore (partly oxidized) with contained gold. Galena in tiny bunches, is locally present. This type came in below the 250 foot level in a 45 degree dipping vein which is calculated to intersect the main vein below the 350 foot level.

(3) Schist ore which is banded by quartz stringers and swelled bunches of quartz. The quartz follows the schist laminae. This type down to the 250 foot level is almost entirely oxidized.

The type 2, or sulphides, will be floated.

Carlson was running lead-zinc-copper mixed sulphide ore from the Bradshaws at the time of the visit.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

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District: Sunflower District - Maricopa County — Engineer: Lewis A. Smith

Subject: Telephone conversation with C.O. Carlson

A telephone conversation with C.O. Carlson revealed that he was operating the Little Daisy mine and mill and that he had some good ore ($25 to $30). The mill is doing well. He has three men working for him. The ore is coming from the 300 ft. level. A visit to his house was made and it was learned that he was in Phoenix to get an engine repair part so that the plant was temporarily idle. The mill is operating on stocked ore and Carlson said he had developed a fair reserve of sulphide ore (pyrite and gold). The workman contacted at Carlson's said that the mill will be operating again soon, if the part is found.

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

Wally Knott

DATE 4/18 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	1ST. LINE FROM TABLE EVERY 30 MINUTES	1.00	12.60	4.86				
2	2ND LINE FROM TABLE EVERY 30 MINUTES	0.30	8.30	0.38				
3	[illegible]	0.50	[illegible]	2.[illegible]				
4	[illegible] "R"	0.30	[illegible]	0.[illegible]				
5	1ST LINE [illegible] ORE	0.70	[illegible]	7.[illegible]				
6	COPC SAMPLE REFINERY	0.55	16.70	0.[illegible]				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

DATE 7/10 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
	ORE [illegible] - DAISY	0.15	0.35	0.04				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 10/10 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
	40' LEVEL - DAISY MINE	0.10	0.10	0.02				
	CHART SHAFT - DAISY MINE	0.20	0.30	0.26				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY

DATE 11/22 19 [illegible]

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	DAISY MIDDLINGS		[illegible]	2.78				
2	DAISY 1ST LINE		[illegible]	23.[illegible]				

S. M. Kalaf
CHIEF CHEMIST

SU-100

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 6/28 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% SiO_2	% Al_2O_3	% Pb	% ZN
918	LITTLE DAISY EAST SIDE ORE HOPPER	0.05-	0.10	0.08			0.0	0.2
919	" "	0.10	0.80	1.02			0.2	0.2
920	" "	0.05-	0.05-	0.02			0.0	0.2
921	" " WEST SIDE DUMP DAISY	0.05-	0.10	0.03			0.0	0.2
922	" "	0.05-	0.05-	0.01			0.0	0.1
923	" "	0.05-	0.05-	0.01			0.0	0.1
924	" " ABOVE DAISY	0.05-	0.20	0.03			0.0	0.1
925	" "	0.05-	0.15-	0.05-			0.0	0.2
926	SPANISH MINE NEAR SHAFT	0.10	0.05-	0.10	78.6	6.6	0.0	0.2
927	" " DUMP	0.05-	0.10	0.005-	77.8	7.5-	0.0	0.1
928	" LARGE VIEW	0.05-	0.05-	0.01	82.6	1.9	0.0	0.1
929	GOLDEN RULE DUMP	0.05-	0.20	0.03			0.0	0.1
930	LITTLE DAISY MILL LARGE PILE	0.05-	0.10	0.02			0.0	0.1
931	LITTLE DAISY	0.05-	0.20	0.05-			0.0	0.1
932	LITTLE DAISY MINE WATER TANK	0.05-	0.05-	0.02			0.0	0.1

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 7/25- 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb			
944	LITTLE DAISY MINE		0.20	0.13				
945-	SPANISH MINE	0.10	0.10	0.02				
946	SPANISH MINE							

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 4/5- 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	RED ORE - SHORT SHAFT		0.10	0.08				
2	SHIST WITH IRON OXIDE - 60' IN SIDE PORTAL 75-' LEVEL		NONE	TRACE				
3	SIDE WALL OF DRIFT NEAR 200' SHAFT		NONE	0.03				
4	FLOOR OF DRIFT NEAR 200' SHAFT		NONE	0.09				
5-	LITTLE DAISY - 1ST LINE		2.20	1.80				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT — DATE 8/2 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	TAILS		0.10	0.02				
2	MIDS - S. B.		0.10	0.02				
3	MIDS - DAISY		0.10	0.04				
4	MIDS - RERUN OF #3 - 1 TABLE		1.20	0.82				
5	" " - 2 TABLES		2.60	1.12				
6	DAISY Pink granite		0.10	0.005				
7	DAISY Green "		0.10	0.01				
8	DAISY Shelt		0.10	0.02				
9	TAKEN FROM CLAIMS AT VERY		0.10	0.01				
	TOP OF MOUNTAIN ABOVE DAISY							

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

DATE 8/28 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1		1.25	7.10	1.20				
2		1.55	4.15	0.76				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

DATE [illegible] 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
	[illegible]	[illegible]	[illegible]	[illegible]				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

DATE [illegible] 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb			
[illegible]	[illegible]		[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]		[illegible]	[illegible]				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 10/10 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
	40' LEVEL – DAISY MINE	0.10	0.10	0.02				
	SHORT SHAFT – DAISY MINE	0.20	0.30	0.26				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 4/5 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	RED ORE – SHORT SHAFT		0.10	0.08				
2	SHIST WITH IRON OXIDE – 30' IN SIDE PORTAL 75' LEVEL		NONE	TRACE				
3	SIDE WALL OF DRIFT NEAR 200' SHAFT		NONE	0.03				
4	FLOOR OF DRIFT NEAR 200' SHAFT		NONE	0.09				
5	LITTLE DAISY – 1ST LINE		2.20	1.80				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

DATE 10/2 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	[illegible] #1	[illegible]	[illegible]	0.01				
2	[illegible] #2	[illegible]	0.10	0.12				
3	[illegible] #2	[illegible]	0.10	0.15				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 9/25 19 7[illegible]

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
	"DONETS"	0.70	16.40	38.20				

Stone tables & pieces from tables

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 5/14 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb			
2	E. DRIFT - LITTLE DAISY #2 ORE	0.10	0.30	0.32	0.30			
2	E. DRIFT - LITTLE DAISY #2 - 1ST LINE	0.15	44.95	89.46	34.5			
2	E. DRIFT - LITTLE DAISY #2 2ND LINE	0.80	4.60	7.90	12.2			
2	E. DRIFT - LITTLE DAISY #2 MIDS.	0.30	0.40	0.65	0.80			
	SPANISH MINE							

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 5/29 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb			
9104		0.08	0.10	0.08	0.0			
9105		0.10	0.10	0.06	0.0			
	SPANISH WORKINGS ON #2 CLAIM	0.05	0.10	0.03	0.0			
	EAST FACE IN CAVED STOPE							

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 4/30 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb	% ZN		
2	EAST DRIFT VEIN	0.68	6.80	0.10	5.8	0.4		
	SPANISH MINE CLAIM #2							

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 5/8 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
	DAISY PLACER		0.10	0.04				

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 6/15 19 7[illegible]

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb			
1	SPANISH ORE - FINE 1/4" AND UNDER		1.60	0.14	0.50			
2	SPANISH FINES - 1ST LINE	1.60	9.70	5.70	19.40			
3	SPANISH FINES - 2ND LINE	0.50	7.40	0.38	5.70			
4	DAISY - 2ND LINE [illegible] - RE-P[illegible] MIDS		0.90	0.24	0.60			

Dump material recycled - labeled

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 6/18 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb.			
	RED CLAY DAISY - 1ST LINE		2.40	3.40				
	RED CLAY DAISY - 2ND LINE		0.80	0.56				
	MIDS - TEST #2		1.50	0.08				
	2ND LINE - TEST #2		1.30	0.94				
	PLACER - LITTLE DAISY		2.90	0.39	✓			
	1ST LINE - TEST #1 low		10.40	8.84	0.7			
	1ST LINE TEST #2 large Pb		5.10	5.03	3.4			

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 9/6 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% SiO_2	% Al_2O_3	% CaO	
	2ND LINE		0.10	0.34	56.2	8.9	7.1	

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

DATE 2/15 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	TAILS	0.03	7.90	0.06				
2	REGULAR ORE.	0.13	14.60	5.90				
3	TABLE SPILL - 2ND. LINE CONCTS.	0.15	12.10	1.28				
4	1ST. LINE CONCTS. - FINAL	0.83	67.50	45.34				
			67.50					
				45.34				

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

DATE [illegible] 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% PB	% ZN	% FE	
	[illegible]	0.30	13.00	0.42	8.9	0.10	7.8	
			67.50	45.34	21.6	0.40		

CHIEF CHEMIST

SC-1005

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALTER KNOTT

DATE 11/17 1977

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
			0.90	0.31				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY

DATE 11/29 1977

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	DAISY Middlings.		3.10	2.78				
2	DAISY 1ST. LINE		53.10	23.52				

S. M. Kalal
CHIEF CHEMIST

SC-1005

Dight Cap	325 Lane Cove	0.06	2.1
Apr 16			
Dight Cap	325 Lane	0.16	5.6
Apr 17			
" "	" "	0.04	1.4
Apr 18			
" "	" "	0.05	1.7
Apr 19			
" "	" "	0.90	31.5
Apr 20			
" "	" "	2.27	79.4
Apr 22			
" "	" "	1.00	35.0
Apr 24			
" "	" "	0.20	7.0
Apr 26			
" "	" "	0.06	2.1
Apr 27			
" "	" "	0.18	6.3
Apr 29			
" "	" "	0.06	2.1
Quarry Tape	270 Lane	0.02	0.7

Nov 17" 39

	oz.	$
Ore bin grab sampled from Car)	8.16	$5.60
Ore across drift 75' East from 2-10' level drift	2.36	82.60
4" quartz on hanging wall Drift. east on South Vein 0' in.	0.04	1.40
18" quartz in face South Vein 18' in	0.02	0.70
Rhyolite N.W. side South Vein (next to hanging wall).	Trace.	

Nov 19 ✓

Mill Tails	Dec. 7			0.04	1.4
" Heads	"	"		1.7	59.5
" Conc.	"	"		6.98	244.[illegible]
Recovery 99.6%		Ratio 41.2			
Mill Tails	Dec 8"			0.04	1.4
" Heads	"	"		0.16	5.6
" Conc.	"	"		8.04	281.[illegible]
Recovery 98.4%		Ratio 66.6			
Mill Tails	Dec 9			0.05	1.7
" Heads	"	"		0.14	4.[illegible]
" Conc	"	"		4.8	168.[illegible]
Recovery 64.9%		Ratio 52.8			

June 10 1940

	Oz	#
Oxidized Granite "S" Reef North side D.W. Fault @ 0S 170L.	0.04	1.40
Average Shaft Sample 5-18-28-40 24' in shaft	0.02	0.70
Shaft 6-3-40. 3' 15 Carn. Ore dump	0.20	7.00
" 6-4-40 3' 16 " " "	0.14	4.90
" 6-5-40. 3' 17 " " "	0.06	2.10
" 6-6-40 3' 18 " " "	0.16	5.60

Depth below 325 ft.

JE 40

Mar 6	oz	$
Sample from Shaft	0.10	3.50
" Mar 7 "	0.30	10.50
" Mar 8 "	0.24	8.40
Quartz South Vein	0.02	0.70
Blind " "	Trace	
Stevens Contact quartz	0.03	1.05

May 19. 1940	oz.	$
Average for 12' in shaft 325' level down	0.10	3.50
Quartz on North side D.H. fault C.C.S. 170' level	0.04	1.40
Mineralized in Rock D.H. fault C.C.S. " "	0.02	0.70
Average sample like material E.D. 325' level	0.06	2.10
Next to last round East drift " "	0.20	7.00
Last round in East drift " "	0.04	1.40

MAX 40-

Jan 23 1974

	Oz.	$
Heads	8.08	2.80
Tails	0.02	0.70
Conc.	0.70	24.50

Jan 24

Heads	0.16	5.60
Tails	0.02	0.70
Conc.	1.86	65.10

Jan 25

Heads	0.20	7.00
Tails	0.02	0.70
Conc.	1.10	38.50

Jan 26

Heads	0.42	14.70
Tails	0.02	0.70
Conc.	4.0	140.00

Jan 27

Heads	0.20	7.00
Tails	0.01	0.35
Conc.	2.54	88.90

Jan 28

Heads	0.50	17.50
Tails	0.04	1.40
Conc.	[illegible]	[illegible]

gold g	val per Ton	
0.32	6.40	10 ft below surface 400 E of Shaft
0.40	8.00	2 ft wide " " " " "
2.76	55.20	50 ft level 4 ft wide.
1.94	38.80	E side of shaft at collar
2.48	49.60	W " " " 4 ft wide
16.84	336.80	between shaft & water bank.
5.58	111.60	Re 2 and 2 Lbs from gilson mill concentrates
1.08	21.60	2 ft wide 25 ft East of shaft
0.68	13.20	Grab sample.
1.96	39.20	Ore showing copper 2 ft wide E. side of shaft at collar

1938	Nice Tails	Nov	12	0.03	1.05
"	Heads	"	"	0.1	3.50
"	Cone	"	"	7.25	231.75
"	Tails	"	15	0.02	0.90
"	Heads	"	"	0.12	4.20
"	Cone	"	"	6.84	239.40
"	Tails	"	16	0.01	0.35
"	Heads	"	"	0.06	2.10
"	Cone	"	"	2.0	70.00
"	Tails	"	17	0.04	1.40
"	Heads	"	"	0.11	3.85
"	Cone	"	"	4.6	161.00
"	Tails	"	18	0.07	2.45
"	Heads	"	"	0.12	4.20
"	Cone	"	"	4.0	140.00

NOV 1 38

Year	Month	Tons of Ore	Tons of Cly	# Gross	
1935	Apr.	29.33	1.87	.80	1663.00	Ore
"	Oct	18.8	.85	1.15	466.00	"
"	Dec.	22.0	.96	.95	603.00	"
"	Nov	32.0	.34	.70	243.00	"
"	Oct	20.0	1.16	1.5	685.00	"
1936	Jan	40	1.54	.6	1.881.00	"
"	Aug	26	1.87	.8	1.414.00	"
"	Aug	32	1.38	.4	1.305.00	"
"	June	35	.66	.5	625.00	"
"	Dec	31	.97	.8	1029.00	"
"	Dec	25	.59	.8	392.00	"
1937	Sept	31	.96	.8	1000.00	"
"	March	35 377T	.79 391T	.8	982.00	"
1941	June	43	1.52	2.0	2114.00	Concentrate
1939	April		34.22		825.00	Bullion
"	May		41.48		1.038.00	"
"	March	9.3	2.45	3.45	683.00	Concs

#16.748

	oz.	%
Mill Tails Jan 10 1939	8.02	0.70
" Heads " "	0.16	5.60
" Conc. " "	1.2	42.00
Recovery 90% Ratio 8.4		
Mill Tails " 11	0.01	0.35
" Heads " "	0.06	2.10
" Conc. " "	2.02	71.40
Recovery 83.8% Ratio 40.2		
Mill Tails " 12	0.01	0.35
" Heads " "	0.10	3.50
" Conc " "	3.98	139.30
Recovery 89.6% Ratio 40.1		
Mill Tails " 13	0.01	0.35
" Heads " "	0.38	13.30
" Conc. " "	7.88	275.80
Recovery 97.6% Ratio 21.2		

JAN 34 ✓

				oz	$
Mill Tails	Dec	10 -	38	0.02	0.7
" Heads	"	"		0.14	4.9
" Conc.	"	"		3.76	131.6
Mill Tails	Jan	2 -	39	0.025	0.87
" Heads	"	"	"	0.06	2.10
" Conc.	"	"		4.0	140.00
Mill Tails	"	3		0.02	0.
" Heads	"	"		0.06	2.10
" Conc	"	"		2.58	90.3
Mill Tails	"	4		0.02	0.7
" Heads	"	"		0.04	1.4
" Conc	"	"		2.97	102.2
Mill Tails	"	5		0.01	0.35
" Heads	"	"		0.05	1.75
" Conc.	"	"		4.86	170.10
Mill Tails	"	6 - 7		0.01	0.35
" Heads	"	"	"	0.04	1.4
" Conc.	"	"	"	2.96	103.60

DEC 38

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine: LITTLE DAISY — Date: March 13, 1980

District: Sunflower (Maricopa County) — Engineer: Ken A. Phillips KAP

Subject: Bottle Leach Test Results on Ore from Little Daisy Mine.

Wally Knott reported the following results of bottle leach cyanide tests run by Mountain States Engineering. Gold and silver reported in troy ounces per short ton.

Sample #1 24 Hour Bottle Leach Test
-3/8" crushed material.

Head assay:	0.045 Au,	0.09 Ag
Leach residue:	0.037 "	0.07 "
Rec. in preg. sol.	0.008 "	0.02 "
Percent Recovery	17.8% "	22.2% "

Sample #2 24 Hour Bottle Leach Text
-10 Mesh ground material.

Head assay:	0.042 "	0.13 "
Leach residue	0.017 "	0.09 "
Rec. in preg. sol.	0.025 "	0.04 "
Percent Recovery	59.5% "	30.8% "

Sample #3 24 Hour Bottle Leach Test
-65 Mesh ground material.

Head assay:	0.042 "	0.12 "
Leach residue	0.002 "	0.06 "
Rec. in preg. sol.	0.040 "	0.06 "
Percent Recovery	95.2% "	50% "

KAP:mw

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Little Daisy

Date July 4, 1981

District Sunflower, Maricopa

Engineer Ken A. Phillips KAP

Subject: Cyanide leach operation visit in the company of H. Mason Coggin

Wally Knot has started a cyanide heap leach operation just west of his Little Daisy mill. He has constructed a 100' x 100' pad on which he has heaped ore 75' x 50'x2'. The ore is from the Spanish Mine dump (part of the Little Daisy) and is estimated by Mr. Knot to contain 0.05 tr. oz. gold/ short ton. The ore is hauled about one mile. Leach solution containing 1.5 pounds NaCN per ton and lime for ph control is sprinkled on the heap using rainbird sprinklers at a rate of about 20 gallons per minute. It was suggested he change from rainbird sprinklers to "Bagdad wigglers" as clogging was a major problem with the rainbirds.

Ann Note CN Ops

Gold and silver are recovered from the leach solution by use of an Escapole Plant (modified Merrill-Crowe) using zinc. Lead acetate is added to enhance precipitation. The Escapole plant uses diatomaceous earth (DE) filters which often require cleaning. Three DE filters in series have been added to the pregnant solution flow line in advance of the Escapole plant.

Mr. Knot explained that it has taken him over a year to get the leach facility in operation. He has been particularily hampered by lack of acceptable labor and poor treatment of equipment by his workers.

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INFORMATION IS NOT ALL FIRST HAND
SO ACCURACY NOT GUARANTEED

Mr. Carlson stated that he calculated that a mill head of $50 per ton would have to be maintained at the Little Daisy mill in order to make money. The last run averaged a little over this figure. The ore was extracted from a heavy pyritic area near the bottom of the mine. The ore contains quartz, calcite, some limonite along with the more or less massive pyrite. Carlson is trying to tie up a new discovery of quicksilver near Tonopah, Nevada. The ore runs 20 pounds per ton in quicksilver and consists of a quartzitic sandstone well impregnated with cinnabar. While the reserves have not been calculated they are believed to be large. If this materializes, Carlson plans to suspend Little Daisy operations for the present.
LAS Memo 6-6-62

Mr. Carlson plans to begin operations at the Little Daisy mine and mill, October 29. Some recent exploratory work has developed a few thousand tons of ore which assayed $60 in gold per ton. Carlson figures that he can produce and market the concentrates for $45 to $50 per ton. The ore contains about half of free gold which is affiliated with iron oxides. The remainder is contained in pyrite. Extraction by gravity flotation methods is calculated at 85-87 percent. Carlson believes that the stope area has a good chance of yielding a considerable volume of ore as time goes on. Some relatively high-grade pockets and lenses are mined sparingly for sweetner. Assays for silica and alumina are being run to determine if this better ore will be suitable for flux. Several "bugs" have been ironed out at the mill and the mine road has been improved. LAS Memo 10-24-62

The mill was operating on the gravity (table) side and a string of pyritic-gold concentrate was being obtained. According to Carlson this material is fairly good, $50-$60 per ton. The partners mine and build a reserve at the mill head, and then mill this. This alternating proceedure is repeated etc. The recovery is good, according to Carlson. The ore while occasionally having a "hot" pocket, is generally of mill grade. At present the mining is confined to relatively large lense below the adit level. LAS Memo 6-27-63

Mr. Carlson said he was working at the Saddle Mountain (Story) mine where good values in lead-silver, gold ore had been revealed. He plans to return to work at the Little Daisy soon. He believes that the Saddle Mountain has good potential. Memo LAS 10-7-63

Active Mine List Oct. 1963 - 3 men

Mr. C. O. Carlson at Corral Wash, 2 miles north of Wikieup wants information on the Tiger gold mine south of Aguila. He would also like to lease his Little Daisy gold mine east of Sunflower. GW WR 2/7/73

C. O. Carlson said he had leased his Little Daisy gold property and wanted information on applying for an O.M.E. loan. I sent him an O.M.E. Brochure. GW WR 2/23/73

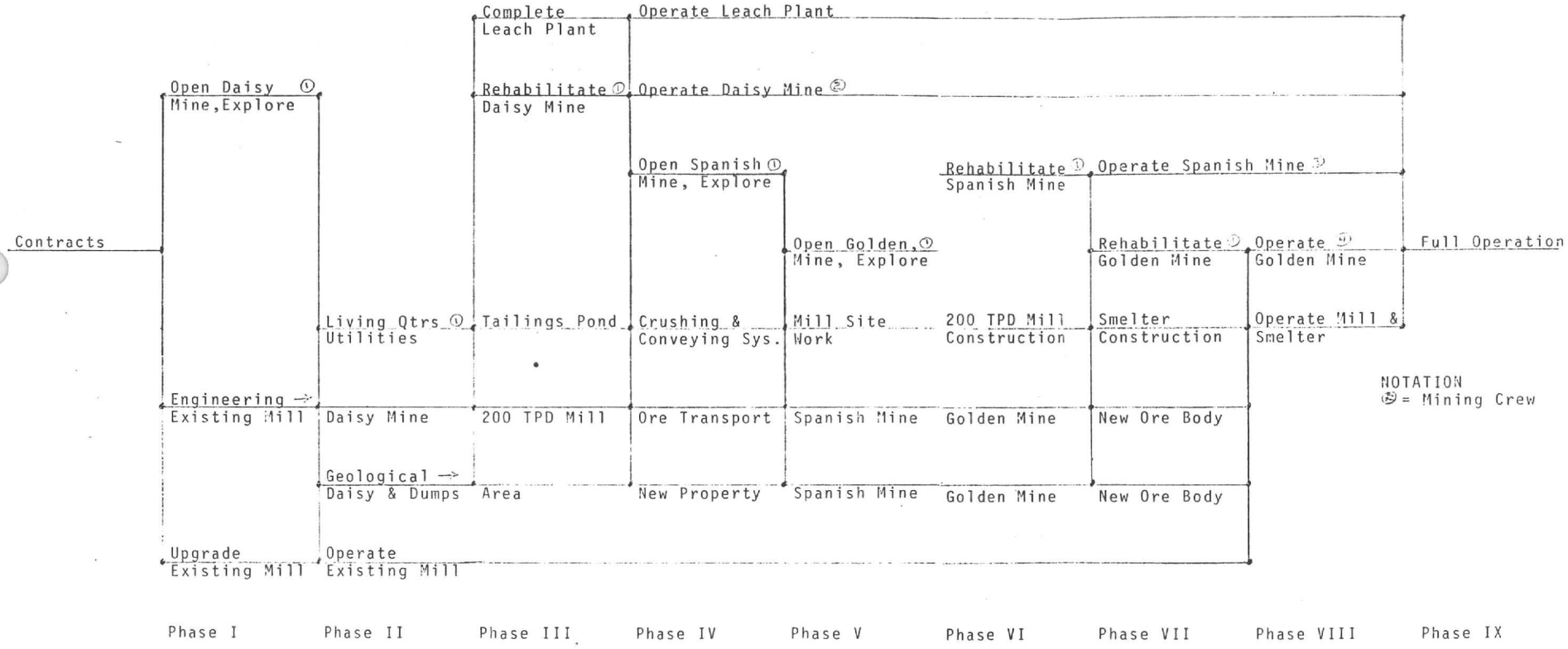
Stopped at Sunflower store to get directions to the Little Daisy gold mine which C. O. Carlson wrote had been leased. The people in the store said no one was at the mine but an attempt was made to get there over a newly dozed road which became impassable due to large boulders. GW WR 2/28/73

REFERENCES

LITTLE DAISY MINE MARICOPA COUNTY

Arizona Mineral Commodity Update on Zinc, by D.D. Rabb, Bureau of Geology and Mineral Technology, filed in Zinc commodity file. (dated 11-3-77)

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
MAKE[illegible] TO THE ACCURACY
OF THE CONTENTS OF THESE DOCUMENTS.



PRELIMINARY PLAN OF OPERATION "LITTLE DAISY PROPERTIES"

DKM 12/20/82

D. K. MAR
4728 NO
PHOENIX,

D.K. MARTIN & ASSOCIATES
Mining Development & Administration
4728 N. 21st Avenue
Phoenix, Arizona 85015

cost of a reliable geological examination is money well spent and his advice should be followed. Although professional services may seem costly, the advice given will generally save many times the cost of these services.

The figures, graphs and estimates could and probably will change as the input data and information is scientifically and methodically analized. Therefore do not consider nor use this proposal other than as intended - a guide to the success of the "Little Daisy Mining Project".

CONTRACTS
Prepare with legal counsel & satisfy indebtedness. $ 31,000

PHASE I
Open Daisy Mine for geological exploration, Engineer existing mill and install necessary equipment to upgrade present operation. Improve access to mill. $ 67,300

PHASE II
Prepare site and install living quarter including utilities. Complete geological and engineering study of Daisy Mine and various dumps. This includes approximately 2000 feet of exploration drilling. Operate existing mill on stockpiled and available ores which includes the purchase of a dump truck. $351,000

PHASE III
Complete the leaching facility, rehabilitate the Daisy Mine, layout and construct the tailings disposal area, begin engineering on the 200TPD mill and smelter, develope the water supply, and complete the geological survey of the area. $478,000

PHASE IV
Operate the leaching facility (a 12 month calculation), and install a stripper. Operate the Daisy Mine (a 12 month calculation), Open Spanish Mine for geological exploration, engineer and install conveyor and crushing system from mines to mill, conduct geological evaluation of the additional property required. $1,153,600

(continued)

(602) 246-9573

D.K. MARTIN & ASSOCIATES
Mining Development & Administration
4728 N. 21st Avenue
Phoenix, Arizona 85015

Mr. Walter Knott
Sunflower, Arizona

12/18/~~80~~ 82
RE: Little Daisy
Mine Project

Dear Mr. Knott:

As per your request and plan of operation, we submit the following estimates for capital required to place your "Daisy Mine" Property into operation.

The information provided in this report is only a broad general estimate and these preliminary figures should only be used as an estimate towards a decision for the commitment of capital. The capital estimates are probably within +- 30% of the final actual costs, whereas, the operating costs are somewhat more accurate. These estimates will be revised several times during the course of a developmental program, however, and become more accurate as additional data becomes available. Each phase of the operation will indicate the feasibility of continuing the project or guide the exploration and development towards a different approach. In general, capital requirements will usually increase during the course of the development program.

The general estimate is based upon incomplete data from various sources which has not been verified by this firm. The true situation can only be determined by a detailed engineering and geological survey. These figures are presented to help assist you to make reasonable estimates of capital needs and operating expenses involved.

If the assays and old production records show commercial ore has been located, a development program can be planned, and if capital is available, this plan can be put into operation. The first step is to determine if the ore is actually commercial and sufficient ore blocked out to justify a mill. It is also necessary to determine the type and complexity of the ore before an efficient mill can be designed. It requires considerable mining and metallurgical experience to determine if the valuable minerals can be extracted profitably.

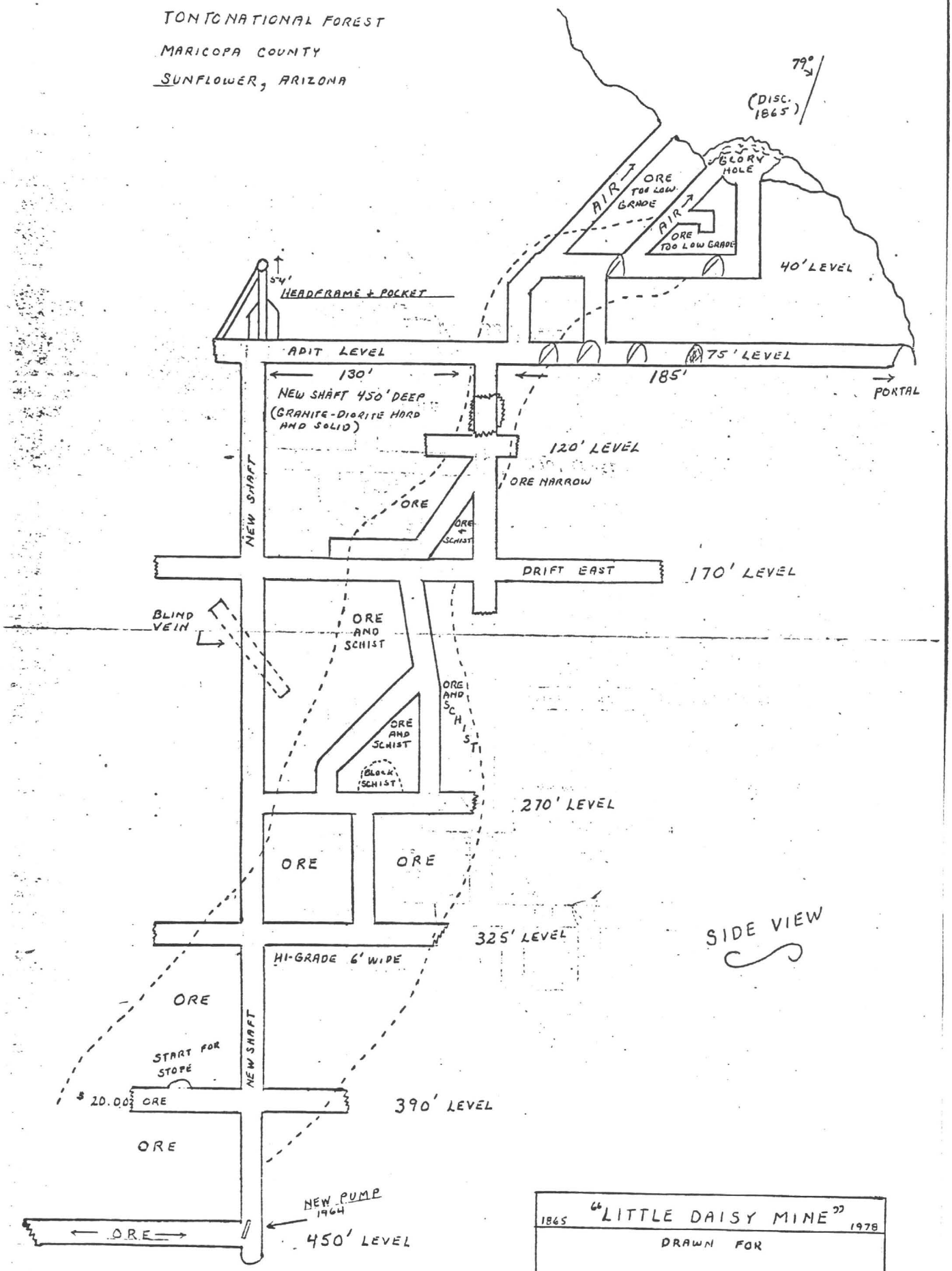
At this point, the wise mine owner or investor should obtain the services of a competent mining consultant to either direct the operator or advise him as to the best operating procedures. The

(602) 246-9573

TONTO NATIONAL FOREST

MARICOPA COUNTY

SUNFLOWER, ARIZONA



1865 "LITTLE DAISY MINE" 1978

DRAWN FOR

COPIED FROM ORIGINAL PLAN DRAWN 1940

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY KAPPT

DATE 4/18 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	1ST. LINE FROM TABLE EVERY 30 MINUTES	1.00	12.60	4.86				
2	2ND LINE FROM TABLE EVERY 30 MINUTES	0.30	8.30	0.38				
3	#1-A "R"	0.50	12.90	2.14				
4	#1-E "R"	0.30	7.70	0.60				
5	1ST LINE FED ORE	0.70	14.40	9.62				
6	COPE SAMPLE REFINER	0.55	16.70	0.68				

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY

DATE 5/11 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	TAILS	0.05	0.10	0.12				
2	QUARTZ ROCK	0.15	0.20	0.02				
3	ORE PILE BY WATER TANK	0.02	0.50	0.10				
4	PLUG HOLE QUARTZ ("CONCTS.")	0.55	7.40	18.34		upper	road	K1
5	ORE ON HILL ("CONCTS.")	0.10	1.00	0.44				

R. M. Kolpf
CHIEF CHEMIST

SC-1005

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY

DATE 5/30 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	AFTER ALMALGAMATION	0.75	6.60	3.30	resum over		1 table	
2	SULFIDES ONLY	0.00	22.90	3.98	"	"	2 tables	
3	LITTLE DAISY Jal #2	0.95	46.20	10.65				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

Wally Kaz

DATE 7/7 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb	% ZN.		
	LITTLE DAISY SULFIDES	0.35	7.50	5.82	1.1	0.2		
		7# RT.			22# P.T	4# P.T		
	(ORE)							

S. M. Kalal
CHIEF CHEMIST

SC-1005

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 9/11 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
	1ST LINE		2.60	5.76				
	2ND LINE		0.20	0.24				
	1ST AND 2ND TOGETHER		0.10	0.84				
	Mids.		0.10	0.11				

MAGMA COPPER COMPANY
Superior Division
ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 10/9 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	1ST LINE WIDE CUT		8.45	12.84				
2	1ST LINE CLEAN CUT		0.40	3.02				

Test Table

S. M. Kalaf
CHIEF CHEMIST

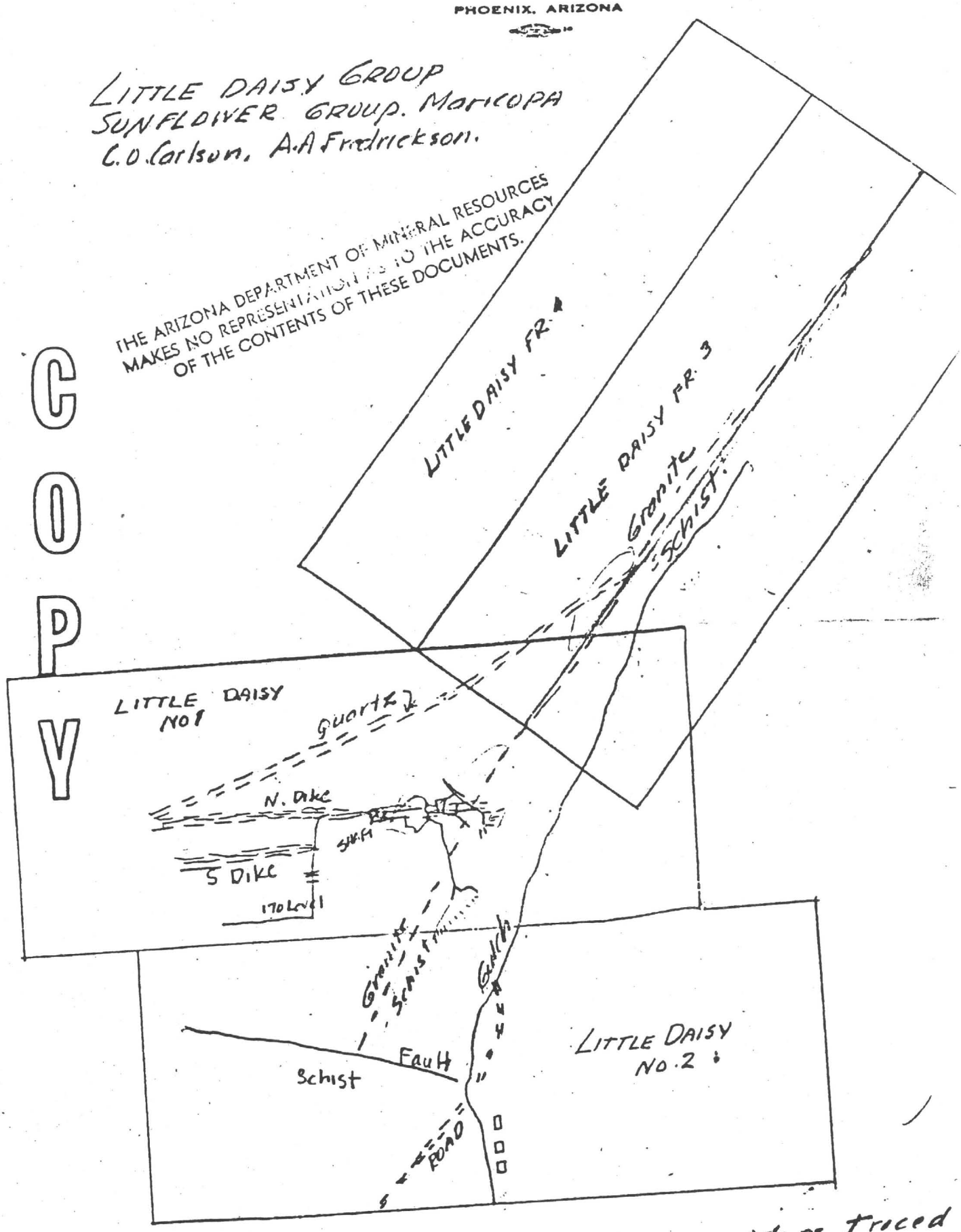
SC-1005

MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

LITTLE DAISY GROUP
SUNFLOWER GROUP. MARICOPA
C.O. Carlson, A.A Fredrickson.

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES MAKES NO REPRESENTATION AS TO THE ACCURACY OF THE CONTENTS OF THESE DOCUMENTS.

COPY



Maps Traced
Lines about - from
Maps Returned.

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT — DATE 11/5 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
	1ST LINE ROASTED		1.84	0.58	feed to fast			
	2nd LINE ROASTED		4.65	0.07				
	1ST LINE 12" CUT ROASTED		1.50	0.60				
	TAILS ROASTED		1.40	0.20				
SPANISH	1ST LINE QUARTZ VEIN ABOVE		11.55	10.84				
	EAST DRIFT MATERIAL ROASTED							

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT — DATE 12/4 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	#1 TAIL TABLE		0.30	0.01				
2	#2 TAIL TABLE		0.20	0.07				
3	2nd LINE SLOW FEED		0.70	0.06				
4	2nd LINE FAST FEED		0.60	0.04				
5	1ST LINE [illegible]		4.15	14.26				
6	1ST LINE 2" CUT		0.40	0.20				
7	1ST LINE 4" CUT		0.50	0.38				

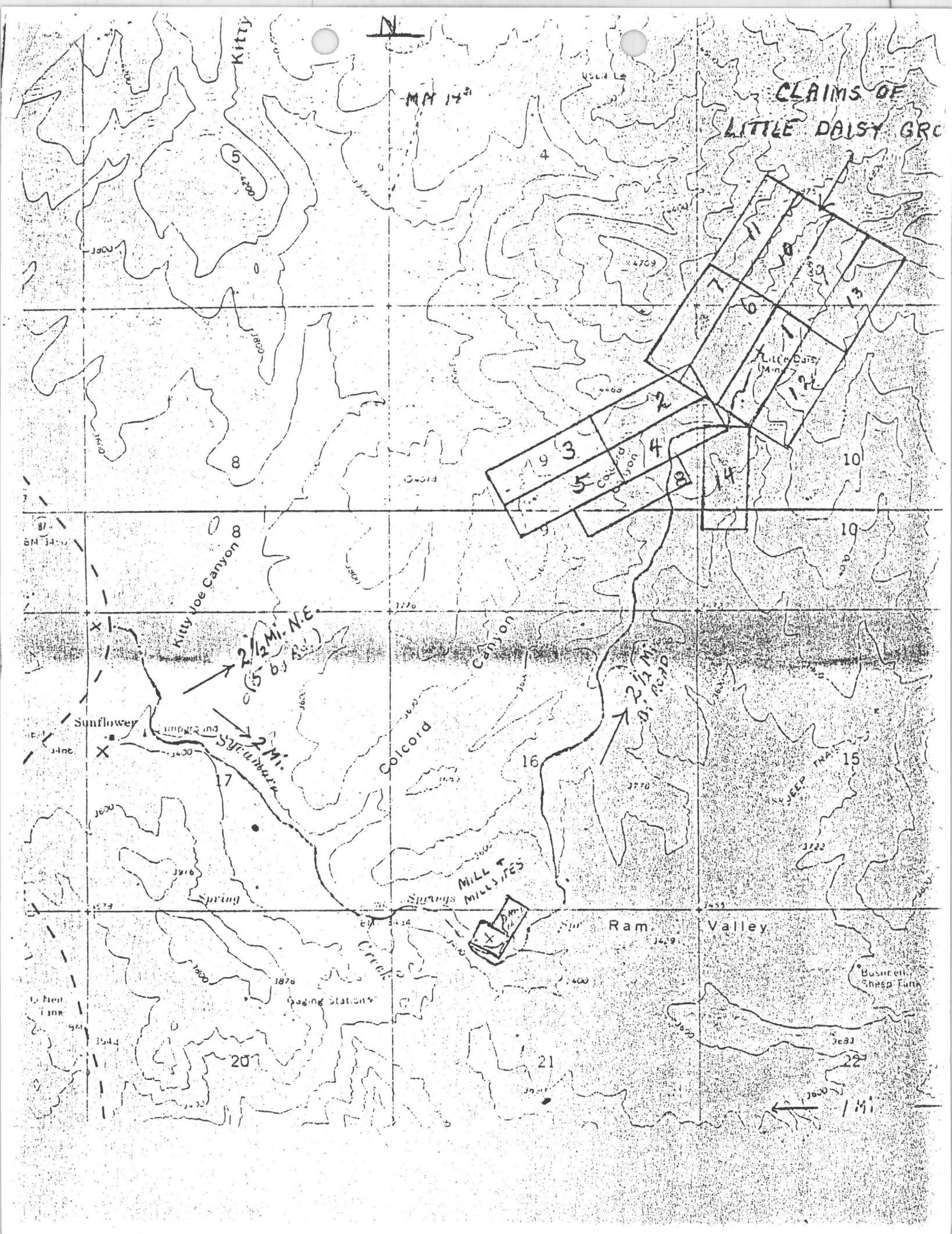
MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT — DATE 7/31 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb.			
1	HEADS		0.10	0.02				
2	TABLE #2 TAILS		0.10	0.01				
3	TABLE #1 – 1ST LINE	0.15	0.20	0.36	0.90			
4	TABLE #1 – 2nd LINE OVERFLOW		0.05	0.19				
5	TABLE #1 – 2nd LINE		0.10	0.06	0.50			
6	TABLE #2 – 1ST LINE		0.50	2.10				
7	TABLE #2 – 2nd LINE		0.10	0.30				
8	Heads		0.10	0.11				

Dump material Chain #1


N
CLAIMS OF
LITTLE DAISY GRO
MM 14
Kitty
Kitty Joe Canyon
2 1/2 Mi. N.E.
(5 bad Rds)
2 Mi.
Sunflower
Campground
Sycamore
Colcord
Canyon
2 1/2 Mi.
Dirt Road
JEEP TRAIL
MILL & MILLSITES
Spring
Springs
Ram
Valley
Creek
Gaging Station
Bushnell
Sheep Tank
1 Mi.

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY

DATE 5/11 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	TAILS	0.05	0.10	0.12				
2	QUARTZ ROCK	0.15	0.20	0.03				
3	ORE PILE BY WATER TANK	0.02	0.50	0.10				
4	BUG HOLE QUARTZ ("CONCTS.")	0.55	7.40	18.34				
5	ORE ON HILL ("CONCTS.")	0.10	1.00	0.44				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY

DATE 5/30 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.				
1	AFTER ALMAGEGATION	0.75	6.60	3.30	rerun over	1 table		
2	SULFIDES ONLY	0.00	22.90	3.98	" "	2 tables		
3	LITTLE DAISY JAR #2	0.95	46.20	10.65				

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 7/7 19 78

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb	% ZN.		
	LITTLE DAISY SULFIDES	0.35	7.50	5.82	1.1	0.2		

MAGMA COPPER COMPANY
Superior Division

ASSAY CERTIFICATE 'A'

WALLY KNOTT

DATE 6/5 19 79

NO.	LOCATION AND REMARKS	CU %	AG OZ.	AU OZ.	% Pb			
1	SPANISH ORE - FINE 1/4" AND UNDER		1.60	0.14	0.50			
2	SPANISH FINES - 1ST LINE	1.60	9.70	5.70	19.40			
3	SPANISH FINES - 2ND LINE	0.50	7.40	0.38	5.70			
4	DAISY - 2ND LINE CARS - RE-RUN MIDS.		0.90	0.24	0.60			

PRODUCT DEVELOPMENT APPLIED RESEARCH

ARC LABORATORIES

Division of Arizona Research Consultants, Inc.

9236 NORTH 10TH AVE. PHOENIX, ARIZONA 85021 943-3573

FOR: H. R. Norman
1313 W. Camelback Rd.
PHoenix, Arizona

DATE Feb. 1, 1973

LAB No. 12082

RESULTS

Gold (Au) - 4.80 oz/ton

Lab Number 12082

270' level
Little Daisy
Grab Sample

Respectfully submitted,
ARC LABORATORIES

John T. Long, Jr.

rotection to clients, the public and this corporation, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and at it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from this corporation.