



CONTACT INFORMATION

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The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SAN MARCOS MINE

ALTERNATE NAMES:

PITTSBURG HARQUAHALA
WILSON

LA PAZ COUNTY MILS NUMBER: 140

LOCATION: TOWNSHIP 5 N RANGE 12 W SECTION 14 QUARTER NE
LATITUDE: N 33DEG 46MIN 55SEC LONGITUDE: W 113DEG 28MIN 46SEC
TOPO MAP NAME: GLADDEN - 15 MIN

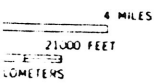
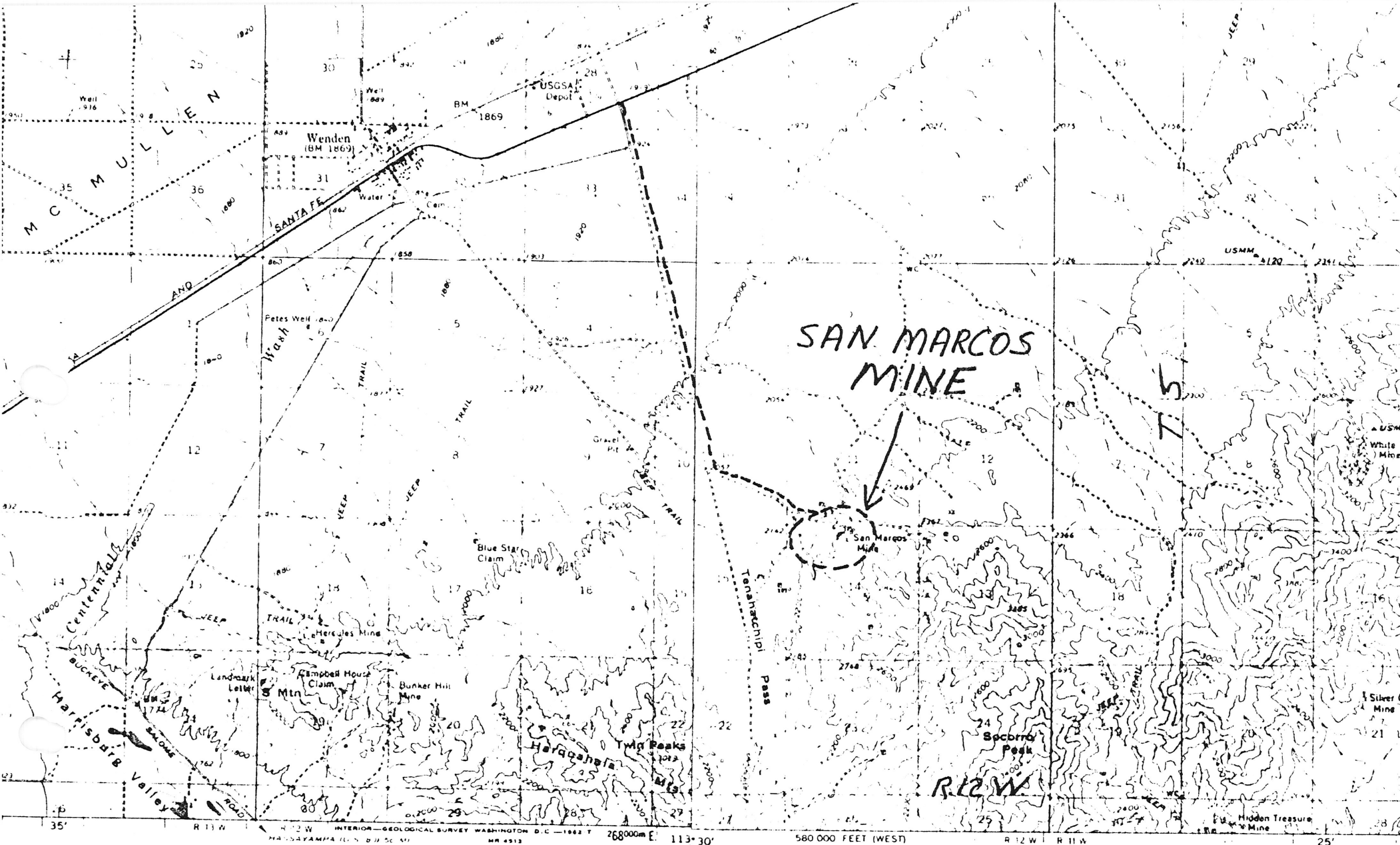
CURRENT STATUS: PAST PRODUCER

COMMODITY:

GOLD LODE
SILVER
STONE DIMENSION

BIBLIOGRAPHY:

KEITH, S.B., 1978, AZBM BULL. 192, P. 153
ADMMR WHITE MARBLE FILE (MAP)
AZBM BULL 137, P 132
USGS BULL 451, P 113
ADMMR SAN MARCOS MINE FILE
ADMMR SAN MARCOS & WILSON COLVO FILE
OVERSIZE MAPS DRILL DATA 465-02- 10 SHEETS



QUADRANGLE LOCATION

ROAD CLASSIFICATION

Heavy duty ——— Light duty

Unimproved dirt - - - - -

U S Route

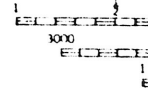
SALOME, ARIZ
N 3345—W 11330/15

Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial
photographs taken 1951 and 1960 Field checked 1961
Polyconic projection. 1927 North American datum
10,000 foot grid based on Arizona coordinate system,
west and central zones
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue

GLADDEN, ARIZ
151



APPROXIMATE MEAN DECLINATION, 1961





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1040.00 FEET (WEST ZONE)
 1040.00 FEET (CENTRAL ZONE)
 1020.00 FEET (WEST ZONE)
 1020.00 FEET (CENTRAL ZONE)
 1000.00 FEET (WEST ZONE)
 1000.00 FEET (CENTRAL ZONE)
 980.00 FEET (WEST ZONE)
 980.00 FEET (CENTRAL ZONE)
 960.00 FEET (WEST ZONE)
 960.00 FEET (CENTRAL ZONE)

FOR ENLARGEMENT
 SEE SUPPLEMENTAL SHEET NO. 18
 PAGE 18

Bdy. Mon.
 No. 45
 31
**HARQUAHALA
 PEAK**
 5720

Bdy. Mon.
 No. 44
 7
 Bldg. Contour

Bdy. Mon.
 Mon. 43

Bdy. Mon.
 No. 42

Bdy. Mon.
 No. 41

Bdy. Mon.
 No. 39

Bdy. Mon.
 No. 38

Wenden
 Pop. 141
 3 3 1/2'

Salome
 Pop. 141
 1 1/2'

Harcuvar
 Pop. 141
 45

HARQUAHALA
 MOUNTAINS

HARQUAHALA
 MOUNTAINS

**Carmelita
 Wall**
 15

RED HILLS

MARTIN PEAK
 2360

**SORE
 FINGERS**

AMERICAN TELEPHONE AND TELEGRAPH CO. COLFAX CABLE

MERIDIAN

GUIDE

THIRD
 5
 MTN.

PARALLEL

**THE
 NEEDLE**

SI RASO NATURAL

Contour
 Line

ARIZONA BUREAU OF MINES

and is locally abundant in the wall rock. The vein material shows considerable brecciation and recementation by silica. At the time of Bancroft's visit (1909), water stood near the 250-foot level of the shaft or 110 feet below the surface. The shaft inclines 26° N.

SAN MARCOS MINE

The San Marcos mine, at the northern base of the Harquahala Mountains, is 5 miles by road southeast of Wenden. According to local reports, this deposit was located about 1897. Later, it was acquired by the Pittsburgh Harqua Hala Gold Mining Company which erected camp buildings and installed machinery but gave up the enterprise after sinking an inclined shaft to a depth of 540 feet.

Bancroft¹⁹⁰ states that the total production up to October, 1909, was worth approximately \$12,400, most of which was made prior to 1906. About 1915, the ground was relocated by Pete Smith and associates who, for a short time, carried on small-scale operations. No production was reported since 1919.

Here, sheared granite has been intruded by aplitic and basic dikes and considerably faulted. The deposit occurs within a shear zone that strikes northeastward and dips about 30° NW.¹⁹¹ The vein filling consists principally of quartz, brecciated country rock, and abundant iron oxide. Above the first level, it was from 18 to 24 inches wide, and contained high-grade gold ore. Near this level, the vein, because of either pinching out or flattening, disappears in the roof. At greater depth, only small lenses of gold-bearing quartz were found. Oxidation extends to the bottom of the mine.

In 1909, there were about 1,200 feet of drifts on the four levels of the incline.

HERCULES MINE¹⁹²

The Hercules mine, at the northern base of the Harquahala Mountains, is 5 miles by road southeast of Salome. Its production prior to 1909 is reported to have been about \$10,000 worth of gold. In 1934, the property was held by the Hercules Gold Company.

The deposit consists of discontinuous, lenticular quartz veins in gneissic quartz diorite, intruded by dioritic dikes. It has been opened by two shallow shafts that incline about 60° N. The vein exposed in the eastern shaft strikes S. 75° W., dips 60° N., and is from 8 to 24 inches wide. It shows brecciation and contains abundant limonite.

¹⁹⁰ Work cited, p. 113.

¹⁹¹ Description abstracted from Bancroft, work cited, pp. 113-14.

¹⁹² Abstracted from Bancroft, work cited, pp. 109-10.

The Hidden T Meyers, consists Harquahala Mou cessible by 5 m Salome-Hassayar.

This deposit w During that year, two cars of shipp and four cars whic work was done on

This portion of complexly faulted, iferous age. The about 300 feet abo southwestward tren has been explored b about 140 feet long b ore occurs as irregu together with more In places, chrysocol The gold occurs as with the limonite. T cation with some seri

The Alaskan mine, tain, in northeastern Y road that branches eas at a point 13 miles from

This deposit was disc owner, and has been w concerns. The total pro imately 1,200 tons of ore of gold per ton. From produced 722 tons of ore 0.503 ounces of gold, an Alaskan Mines, Inc., treat flotation plant, but the r all operations was hauled

Here, a gravel-mantled p in a few places, expose st shales of probable Mesozo basic porphyry.

When visited in February

¹⁹³ Oral communication.

¹⁹⁴ Oral communication from A

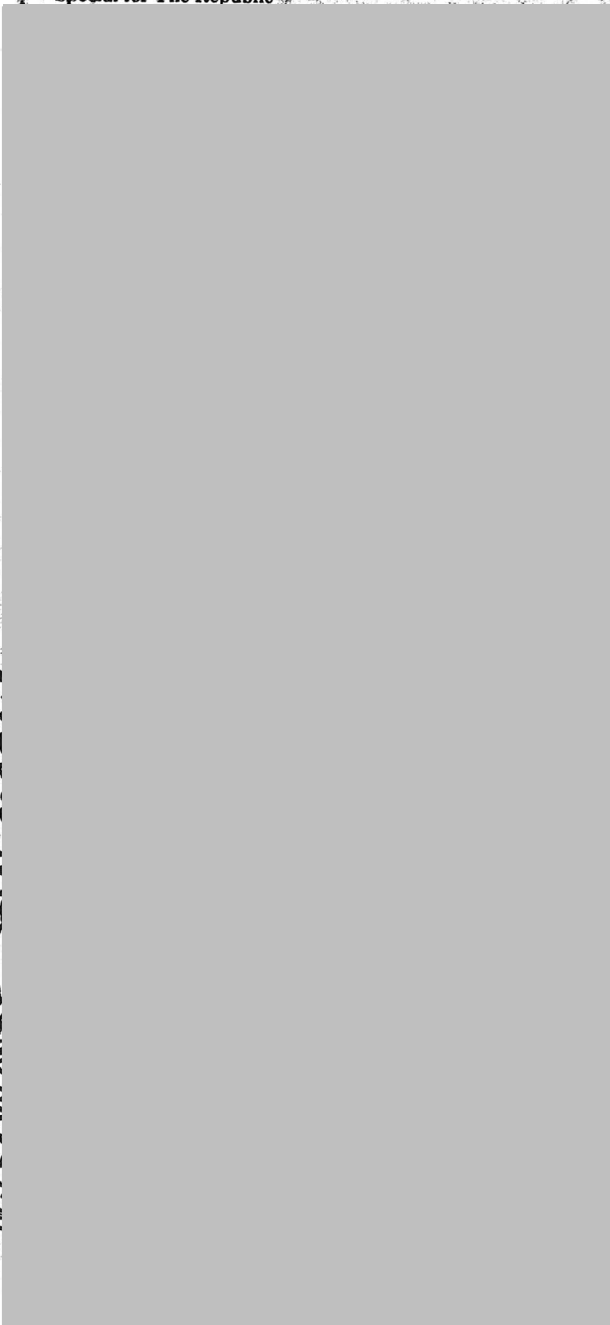
B12

RMS JH

His glittering at

Inflation, solitude and beauty
keep prospector going strong

By Roger Johnson
Special for The Republic



SAN MARCOS MINE

LA PAZ COUNTY

KAP WR 2/26/88: In the company of Nyal Niemuth a visit was made to the San Marcos Mine (file) La Paz County to determine the current status of the property as well as to get a feel of recent past production. A separate report has been written for the file.

R

SAN MARCOS (A)

M. J. Madison

COMPLETE AND MAIL TO:

STATE MINE INSPECTOR
1616 WEST ADAMS, SUITE 411
PHOENIX, ARIZONA 85007-2627

FOR OFFICE USE ONLY
START-UP NUMBER 121903
STATE NUMBER 071104
DEPUTY NUMBER 100
NEW MOVE

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with the Arizona Revised Statute, we are submitting this written notice to the Arizona State Mine Inspector of our intent to start , stop , move an operation.

Please check the appropriate boxes: Contractor , Owner , Operator , Open Pit Mine ,
Underground Mine , Mill , Quarry , Aggregate Plant , Hot Plant , Batch Plant ,
Smelter , Leach Plant .

If this is a move, please show last location: _____
If you have not operated a previously in Arizona, please check here: _____ If you want the
Education and Training Division to assist with your mine safety training, please check here: _____
If this operation will use Cyanide for leaching, please check here: _____

COMPANY NAME: LAYNE-WESTERN COMPANY, INC.

DIVISION: DRILLING SERVICES COMPANY

MINE OR PLANT NAME: SAN MARCOS MINE-WESTMONT MINING CO. TELEPHONE: 602-881-8871

CHIEF OFFICER: HUGO DUMMETT - WESTMONT

COMPANY ADDRESS: 12030 EAST RIGGS ROAD

CITY: CHANDLER STATE: ARIZONA ZIP CODE: 85249

MINE OR PLANT LOCATION: (Include county and nearest town, as well as directions
for locating property by vehicle: La PAZ County, 4 miles south-east of Wendon, Arizona.

TYPE OF OPERATION: DRILLING-CLOSED MINE PRINCIPAL PRODUCT: GOLD

STARTING DATE: 5-31-89 CLOSING DATE: 6-6-89

PERSON COMPLETING NOTICE: MARK J. MADISON TITLE: SALES ENGINEER

COMPLETE AND MAIL :

SAN MARCOS (F)

M. on K. Joe

STATE MINE INSPECTOR
1616 WEST ADAMS, SUITE 411
PHOENIX, ARIZONA 85007-2627

STATE MINE INSPECTOR

MAY 04 1989

FOR OFFICE USE ONLY	
START-UP NUMBER	_____
STATE NUMBER	_____
DEPUTY NUMBER	_____
NEW	MOVE

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with the Arizona Revised Statute, we are submitting this written notice to the Arizona State Mine Inspector of our intent to start X, stop _____, move _____ an operation.

Please check the appropriate boxes: Contractor , Owner , Operator , Open Pit Mine , Underground Mine , Mill , Quarry , Aggregate Plant , Hot Plant , Batch Plant , Smelter , Leach Plant .

If this is a move, please show last location: _____

If you have not operated a previously in Arizona, please check here: _____ If you want the

Education and Training Division to assist with your mine safety training, please check here: _____

If this operation will use Cyanide for leaching, please check here: _____

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COMPANY ADDRESS: 12030 EAST RIGGS ROAD

CITY: CHANDLER STATE: ARIZONA ZIP CODE: 85249

MINE OR PLANT LOCATION: (Include county and nearest town, as well as directions for locating property by vehicle: La PAZ County, 4 miles south-east of Wendon, Arizona.

TYPE OF OPERATION: DRILLING-CLOSED MINE PRINCIPAL PRODUCT: GOLD

STARTING DATE: 03/13/89 CLOSING DATE: 03/22/89

PERSON COMPLETING NOTICE: MARK J. MADISON TITLE: SALES ENGINEER

SAN MARCOS MINE

Yuma County
4 Miles SE of Wenden

CJH WR 12/26/80: The Hildbrands are now back at the San Marcos Mine and producing Au. They have stopped pelletizing.

RRB WR 3/27/81: Richard L. Nielsen, Nielsen Geoconsultants Inc., Suite 9B, CSB Bldg, 3560 N. Highway 74, Evergreen, Colorado 80439, was in the office looking at several properties in Yuma, Maricopa, and Mohave Counties for Hecla. He had the files for San Marcos Mine, Yuma County, copied.

RRB WR 2/25/83: It was also reported that the Hildbrand Brothers are currently leaching at the San Marcos, Elsworth District, Yuma County.

NJN WR 2/26/83: It was reported that Ted and Aries Hilbrands are heap leaching at the San Marcos Mine, Yuma County.

SAN MARCOS MINE

YUMA COUNTY
4 miles SE of Wenden

HILDBRAND

CJH/WR 3/12/79 - Mr. Ted Hildbrand is cyaniding Old San Marcos Mine dump 4 miles SE of Wenden and sending ore to West Coast Precious Metals Co. L.A., Ca. \$3.00/oz + 2% below LME 2nd position or about \$8.00/oz.

CH/Report Nov. 23, 1979 - Drove to San Marcos Mine seven miles southeast of Wenden. To get to the property drive east on Hwy. 60 to the Yuma County Dump Rd. (opposite the U.S. Gov't manganese stockpile.) Go south one mile to an intersection, turn right and go west 0.2 miles to another intersection, turn left and proceed four miles southeast. The property will be visible in the distance on the north slope of the Harquahala Mountains. Ted and Arie Hildbrand are operating a cyanide leach operation on the San Marcos Mine site. Including the San Marcos, the Hildbrands hold 64 claims (unpatented) in the district. They are now cyaniding the San Marcos waste dumps. There is, as of date, 1000 tons on the plastic lined pads running 0.10 oz. Au/ton. They are running 20 gals./min. of solution through perforated PVC pipes over dumps. The vein on the San Marcos runs 0.33 oz. Au/ton. There are 30,000 tons of vein material proven with 100,000 tons of overburden carrying 0.03 oz. Au/ton to be removed. They will build another pad to accommodate this material sometime after the first of the year. Until that time they will run 3000 tons of vein material which will be screened. The minus 3/8 in. ore, which contains most of the values, will be pelletized with Portland cement. Ore over 3/8 in. and under 2 1/2 in. will be heap leached without crushing. The over 2 1/2 in. material will be stockpiled and crushed later. The pelletized material will be leached in 100 ton cones. There are no sulphides in the ore.

Reportedly, Texasgulf Sulphur and Silver King (Ely, Nevada), in a joint venture purchased property adjoining the Hildbrand claims. They bought six claims for a \$100,000 end price with a \$400/month interim royalty and a 1% lifetime royalty. They were held by a Mr. Robison. Drilling may take place before Thanksgiving. A geologist and an assayer were on the property for a week this last summer. Surface and short hole samples were taken. Mr. Hildbrand said the TGS-Silver King venture was after 1,000,000 tons of 0.05 oz. Au/ton and that they might want some of his claims. He said he would hang onto his high grade, however.

The water supply for the Hildbrand leaching operation comes from the old San Marcos shaft. They had diverted a wash into it and filled it to within 300 ft. of surface. Equipment observed on the property included: a camp trailer, laboratory, generator, backhoe, dozer, crusher and leach pads.

MINE: San Marcos
COUNTY: La Paz
ADMMR FILE: San Marcos Mine

ENGINEER: Ken A. Phillips
and Nyal Niemuth
DATE: February 25, 1988

SUBJECT: Property visit on above date.

In the company of Nyal Niemuth a visit was made to the San Marcos Mine (file), La Paz County to determine the current status of the property and to ascertain recent past production.

The property is not currently active, nor did it appear to have been for a number of months to up to a couple of years. The most recent activity appears to have been some drilling, of which one hole had been collared in the access road.

Recent past production (in the last few years) is evidenced by two abandoned agglomerated heaps measuring about 75 X 75 X 5 feet of about 1,500 tons each. One additional heap of mine run material contains about 3,000 tons. Past production has been from three 450' long cuts and pits along the strikes of old underground drifts and some old dumps. The maximum depth of the cuts and pits is 25 feet. Additionally 10 to 15,000 tons of "stockpiled ore" or waste remains on the property in the form of dump truck loads scattered all over the property. As compared to at one least promotional report the host rocks appear more schistose with minor quartz veining and silicification, limonite after pyrite and minor manganese oxides.

No equipment is on site, however considerable trash and scrap iron is scattered about the property including the trashy remains of a bunk house. If forced by the BLM, the property could be cleaned up by burning the trash and hauling off the scrap iron. The cuts and pits should be left open to expose the mineralization.



RESOURCES, INC.

P. O. BOX 80788
PHOENIX, ARIZONA 85026

602/267-0681

December 12, 1983

Dear Shareholder(s):

We are pleased to announce several positive developments. We are presently loading coal at our Big Shoal division and anticipate shipping approximately 10,000 tons during the month of December. This business is expected to continue through the first calendar quarter of 1984, and we have decided to reopen a portion of the mining properties which have been idle for approximately 11 months.

(6)
NE
LE

During the summer, the Company entered into an Arizona gold-mining joint venture called the San Marcos Joint Venture in which the Company holds a 50% active and participating interest. Since that time, operations have consisted of removing the surface overburden from the ore zone. This has been completed, and the extraction and leaching process for gold has begun with gold production expected this week. An exploration program aimed at ascertaining the extent of the low-grade ore is in the planning stage.

JENSEN
LIVER
ROBERT
LEE

On November 30, 1983, we completed the formation of the Simonson Joint Venture, a venture designed to initiate core drilling on a promising silver prospect in Arizona. Funding arrangements have been completed, and the initial program will consist of up to 1,000 feet of core hole drilling, which is also expected to commence this week. If results of the initial program are successful, a major joint venture partner will be sought for funding of extended exploration and development.

The Company is continuing its investigation into the circumstances surrounding its gold joint venture with North American Minerals Trust. Based upon information received to date, we have decided not to drill the property for our own account.

The above developments (Big Shoal and the San Marcos Joint Venture) will serve to help alleviate the Company's cash flow problems. The Company is looking into the possibility of selling non-revenue-producing assets as favorable opportunities present themselves.

The management and Board of Directors appreciate the continuing confidence and support expressed by its shareholders. We extend our best wishes for a happy holiday season and a prosperous New Year!

Very truly yours,

ND RESOURCES, INC.

Herbert W. Reynolds, President

RAV:REZ

SAN MARCOS MINE FILE



Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

START

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303*, we are submitting this written notice to the Arizona State Mine Inspector (705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our intent to start stop (please circle one) a mining operation.

COMPANY NAME SAN MARCOS MINE
CHIEF OFFICER ARIE J. Hillbrands
COMPANY ADDRESS PO Box 261, Wenden, ARIZ 85357
COMPANY TELEPHONE NUMBER Phx 279-1401
MINE OR PLANT NAME SAN MARCOS MINE

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)
4 miles Southwest Wenden, LAPEZ Co

TYPE OF OPERATION HL PRINCIPAL PRODUCT AU
STARTING DATE 9/9/83 CLOSING DATE _____
DURATION OF OPERATION _____
PERSON SENDING THIS NOTICE ARIE J. Hillbrands
TITLE OF PERSON SENDING THIS NOTICE owner
DATE NOTICE SENT TO STATE MINE INSPECTOR same

*A.R.S. Section 27-303 NOTIFICATION TO INSPECTOR OF BEGINNING OR SUSPENDING OPERATIONS: When mining operations are commenced in any mine or when operations therein are permanently suspended, the operator shall give written notice to the inspector at his office prior to commencement or suspension of operations.

MINE AND PROSPECT FIELD VISIT DATA SUMMARY

Sheet 1 of 2

→ COMMODITIES GoldMILS ID No. Yuma (La Paz) #788Date April 13, 1983ENGINEER Ken A. PhillipsINFORMATION FROM: Field VisitPROPERTY SUMMARYI. MINE NAME San MarcosOTHER POSSIBLE NAMES Socorro #1=6
INCLUDING ANY CLAIM NAMES NOTEDII. LOCATION: T 5N R 12W SEC(S) NW¹/₄ Sec. 14, S¹/₂ Sec. 11 MINE DISTRICT EllsworthELEV. 2200' COUNTY La Paz (Yuma) TOPO QUAD. Gladden 15'DIRECTIONS Tenahatchipi Pass pipe line road south from U.S. 60, 2.6 miles, then south east about 7/10 mile to mine. See Topos.MAP ATTACHED XIII. → OWNERSHIP: NAME Ted & Arie Hilbrands

PHONE _____

ADDRESS: 12401 S. 130 Street, Chandler, Arizona 85224

COMPANY NAME IF ANY: _____

PERTINENT PEOPLE _____

IV. PROPERTY AND HOLDINGS: Unpatented claimsV. PAST PRODUCTION - NOTED, KNOWN, PROBABLE, UNKNOWN, NONE Property is past producer and is believed to have had 1982 productionVI. CURRENT STATUS: Temporarily idle heap leaching - carbon adsorptionVII. WORKINGS: Old workings underground. Current operation from open cuts. See comments for more information

VIII. GEOLOGY AND MINERALOGY: DEPOSIT TYPE: _____

LENGTH: _____ WIDTH: _____ VEIN STRIKE _____

HOST ROCK: _____

ECONOMIC MINERALS: GoldCOMMENTS: Limonite - gold mineralization in fractures in altered country rock.IX. EQUIPMENT ON SIGHT: Cedar Rapids crusher, 30' x 60' x 5' heap, plastic leach pad, pregnant solution tanks, 4 stage PVC carbon adsorption columns.

X. SAMPLING: NOTE TYPE IF ANY, DRILLING? Amoco Mineral Company is currently involved
in a detailed geochem and mineralized outcrop sampling program on the property as
well as the general area.

XI. REFERENCES AND REMARKS Although currently idle, the heap leach operations were
reported to be operating in late 1982. Two heaps have been leached, both containing
mine run crushed ore. "Ore" has been produced from open cuts in iron stained structure
at sights of old diggings. Some dilution of mineralized rock with country rock appears
to have taken place.