

CONTACT INFORMATION

Mining Records Curator Arizona Geological Survey 1520 West Adams St. Phoenix, AZ 85007 602-771-1601 http://www.azgs.az.gov inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

PRINTED: 07-27-2012

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: VOLCANO

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 140C

LOCATION: TOWNSHIP 23 S RANGE 16 E SECTION 5 QUARTER W2 LATITUDE: N 31DEG 28MIN 36SEC LONGITUDE: W 110DEG 44MIN 25SEC

TOPO MAP NAME: LOCHIEL - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER OXIDE COPPER SULFIDE SILVER ZINC GOLD

BIBLIOGRAPHY:

KEITH, S.B., 1975, INDEX OF MINING PROP. IN SANTA CRUZ CO., AZBM BULL 191 P. LENON'S MAP OF SANTA CRUZ CO. AZBM CARD FILE SANTA CRUZ CO. ADMMR VOLCANO FILE MG WR 8/6/82: Discussed general mining interests with Mr. Dolan Campbell, Duncan, AZ, phone 359-2548. He said reports that he was operating the Volcano Mine in Santa Cruz County were erroneous. He was operating a Volcano mine in New Mexico.

REFERENCE PAGE - VOLCANO (Mine File)

SANTA CRUZ CO.

See: ABM Vull. 191, Pg. 59, T23S, R16E, Sec. E. Cen. 6 Protracted.



STATE OF ARIZONA

DEPARTMENT OF MINERAL RESOURCES

MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA



Tucson, Arizona Nov. 29, 1961

MEMORANDUM

To: Frank

Frank P. Knight, Director

From: Axel L. Johnson, Field engineer

Re:

Santa Cruz Copper Co.

Information received from D. M. Stranahan on Nov. 29, 1961

The Santa Cruz Copper Co. has been dissolved, and the company no longer exists.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Volcano Mine

Date

December 3, 1958

District

Harshaw District - Santa Cruz Co.

Engineer

Axel L. Johnson

Subject:

Field Engineers Report. Information from D. M. Stranahan, Mgr.

Location: Unsurveyed. Approximately Sec. 6 -- T 23 S -- R 16 E. Drive south from Patagonia on the Patagonia-Washington Camp Road to a point 3/4 of a mile south of the road to Flux Mine. Drive 1 3/4 miles west on mine road with a steep road up the mounttain.

Owners Santa Cruz Copper Company, 1211 E 9th St., Tucson, Arizona. D.M. Stranahan, Tres. The controlling interest of this company is owned by the Quebec Metallurgical Industries, Ottawa, Canada.

Principal Minerals VCopper with some zinc and silver.

Present Mining Activities Diamond drilling under contract to Metler Brothers Drilling Company, 509 E. Pastime Road, Tucson, Arizona.

Geology and Mineralization Country rock is rhyolite agglomerate. Very little ore showings visible in the drillcores obtained to date.

Past History and Production Mine was operated in 1953 -- from an open cut starting on the surface and later through a vertical 8' x 12' shaft sunk to a depth of 50'. Total shipments during these operations amounted to 35 carloads averaging 7.90% copper, the ore being shipped to the A.S. & R smelter at El Paso. Following this, an adit was started on the hillside below the shaft to intersect the shaft at a depth of 120' below the collar. This adit was 550' long. From this adit 5 cross cuts were driven which totaled 350' in length, and also a 77' raise up to the vertical shaft. This exploration work from all indications failed to develop any additional ore reserves.

Old Mine Workings See report of February 4, 1954.

Present Operations Metler Brothers Drilling Company is diamond drilling with one diamond drill. The drilling was started about November 1st. Only one hole has been drilled, which is now down to a depth of 608' on the incline. The ultimate depth of the hole has not yet been determined. The hole is being drilled at a 43° slope to the NW in order to intersect the area under the old open cut and vertical shaft where the ore was mined during the previous operations in 1953. An NX core was used for the first 520', after which the BX core was used.

Proposed Plans: Mr. Stranahan states that the company will probably drill one more hole in the same area.

DEPARTMENT OF MINERAL RESCURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Volcano Mine

Date July 15, 1955

District Harshaw District --- Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status.

Information from D. M. Stranahan, Supt.

Location See my report of May 12, 1955.

Owners, Operators, Officers See my report of May 12, 1955.

Number of Claims 52 --- all unpatented.

Principal Minerals Copper ores

Number of Men Employed None.

Production Rate_ None.

Geology and Mine Workings See my report of Feb. 4, 1954.

Present Status Diamond drilling has been done for the past few months under contract.

Diamond drilling on the property was done by the Mines Exploration and Development Co.,
2000 S. Freeway, Leland C. Vought, President. 4 holes, ranging in depth from 190 ft. to
400 ft. were reported drilled, using EX, AX, and DX bits.

Drilling is now reported by Mr. Stranahan as temporarily suspended on

account of unfavorable results.

DEFARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Volcano Mine

Date May 12, 1955.

District Harshaw District --- Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from D. M. Stranahan, Superintendent.

Location Unsurveyed. About Sec. 6 -- T 23 S -- R 16 E. Go south on the Patagonia-Washington Camp road to 3/4 miles south of the road to the Flux Mine. Go 1 3/4 miles west on good mine road, with steep grade up the mountain.

Owners Santa Cruz Copper Company. Quebec Metallurgical Industries, a subsidiary of Ventures Limited, Ontario, Canada owns the controlling interest of the Santa Cruz Copper Co.

Operators Santa Cruz Copper Co., Box 20, Patagonia, Arizona.

Officers The office of the mm company is located in Patagonia, next floor to Bob Lenon's engineering office. D. M. Stranahan is the engineering representative in charge of the operations of the mm company. Associated with him is H. M. Kingsbury, Geologist. Address is Box 20, Patagonia, Arizona.

Number of AClaims 52 claims --- all unpatented.

Principal Minerals Copper ores.

Number of Men Employed None. Diamond drilling being done on contract.

Production Rate No production at present.

Topography Very rough mountain terrain.

Geology See report of Feb. 4, 1954.

Old Workings See report of Feb. 4, 1954.

New Workings See report of Feb. 4, 1954.

Present Workings Diamond drilling is now being done on the property. The work is done under contract, the Mines Exploration and Development Co., 2000 S. Freeway, Leland C. Wought, Pres. doing the work. One drill rig is working on the property at present----the first hole being drilled now.

SANTA CRUZ COPPER CO., (OWNER) Chicago, -III. Box 20, Patagonia 6-4-53

MINE - VOLCANO MINE, Harshaw Dist., Santa Cruz Co.

LEESEES - Lee Farrell and Albert Olander, Patagonia, Ariz. SUB-LESSEE -Strong and Harris, Patagonia, Ariz.

Santa Cruz Copper Co. - Operating 5-12-55

DEPARTMENT OF MINERAL RESCURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Volcano Mine

Date Feb. 4, 1954.

District Harshaw District --- Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Mine Report. Personal Inspection & Information from Lee Farrell, operator.

Location Unsurveyed. About Sec. 6 -- T 23 S -- R 16 E. For directions see report of June 4, 1953.

Owners Santa Cruz Copper Co. Quebec Metallurgical Industries, a subsidiary of Ventures Limited, Ontario, Canada has now obtained the controlling interest in Santa Cruz Copper Co. Daniel M. Stranahan is the examiningengineer and geologist for this company, and is reported as staying at the El Presidio Hotel in Tucson, Ariz. Ownership of the Santa Cruz Copper Co. is reported by Mr. Farrell as follows:

Operators Lee Farrell and J. W. Wingfield (address above) is doing the exploration work and will do the mining on a contract basis. (terms not disclosed)

Number of Claims 52 claims --- all unpatented.

Principal Minerals Copper ore.

Number of Men Employed 18 men ---- 12 day shift, and 6 night shift.

Production Rate No ore production now. Company engaged in exploration and development.

Topography Very roughand rugged.

Geology Field engineer was not perfmitted to enter mine. Specimens from dump show low grade copper ore, with particles of chalcocite disseminated throughout a porphyry rock (probably monzonite porphyry). Lee Farrell reports that the ore body has been assayed and runs from 0.81 % to 8.00 % Copper, and that they have a wide vein and expect to find a large tonnage of ore. Mr. Farrell would not give out any further details. Two geologists from the A. S. & R. Co. were also there at the same time to look at the mine, and were also denied access to the workings. Upper part of the ore body through which a shaft was sunk (see report of June 4, 1953) was all copper carbonates.

Old workings Old open cut near the present new shaft.
Old adit 780 ft. long, with 300 ft. in crosscuts from same.

New Workings

Vertical shaft 50 ft. deep, with a 21 ft. drift on the 40 ft. level of same.

New adit 550 ft. long plus 5 cross cuts from same totaling 350 ft. more

Raise into vertical shaft ----77 ft. This work is on the 125 ft. level.

New adit on the 375 ft. level ----now in 30 ft.

Present Operations (1) Retimbering was and installing a manway in the vertical shaft.

(2) Crosscutting from adit on the 125 ft. level.

(3) Driving a new adit on the 375 ft. level. (now in 30 ft.)

Future Plans Mr. Lee Fargell states that the company expects to do rather extensive development and exploration on the property in order to develop adequate ore reserves.

DEPARTMENT OF MINERAL RESCURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Volcano Mine

Date Feb. 4, 1954

District Harshaw District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Mining Operations

The Volcano Mine (sometimes incorrectly called the Sunnyside) is located in the Harshaw District, a short distance south of the Trench Mill. The property is owned by the Santa Cruz Copper Co. The Quebec Metallurgical Industries, a subsidiary of Ventures Limited of Ontario, Canada is now reported as having obtained the controlling interest in the Santa Cruz Capper Co.

Lee Farrell of Patagonia and J. W. Wingfield of Phoenix still retain a minority interest in the property, and they are doing the exploration work and the development work on the property on a contract basis. It is expected that they will continue to do all the mining of the property on a contract basis.

Operators are now actively engaged in exploration and development work in order to develop ore reserves for future mine production, and, possibly also, mill operations. Since October, when the new development program was started, over 900 ft. of drifting and 77 ft. of raising has been done on the 125 ft. level, and a new adit has been started on the 375 ft. level. The operators work 2 shifts and employ 18 men in their operations. The 50 ft. vertical shaft is also being retimbered and repaired. No ore is being produced and shipped at present, all efforts being made to explore and develop the property as rapidly as possibly.

Details of the amount and quality of the ore found in the exploration work done to date is being withheld by the operators, and the writer was not permitted to inspect the property. The operator, Mr. Farrell, states that they have found a wide ore vein, which assays from 0.81 % to 8.00 % Copper. Specimens on the ore dump showed copper ore of rather low grade, apparently milling grade ore.

Work was first started at the Volcano Mine last March at the site of an old open cut worked many years ago. A vertical 8' x 12' shaft was sunk to a depth of 50 ft, and 35 carloads of Ropper ore, averaging 7.90 % copper was stoped from the bottom of this shaft.

Ro. Box 711 Mr. Frank J. Tuck. anz. Dept. Min. Res. Phoenix, arig. Dear mr. Tuck. If you have any information about the Volcano or Vulcano Mine in the Patagonia Ming. Dist. I would appreciate it very much if you would send it to me. With Kindest personal regards, I am. Jincerely yours Carl Prischka

DEPARTMENT OF MINERAL RESUJECES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Volcano Mine

Date Oct. 8, 1953

District Harshaw District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Mining Operations

The Volcano Mine (sometimes incorrectly called the Sunnyside) is located in the Harshaw District, a short distance water south of the Trench Mill. The property is owned by the Santa Cruz Copper Co. The main stockholders of this company are Lee Farrell of Patagonia, Arizona, and the United Minerals Corp. of Salt Lake City, W Utah, George W. Snyder, Jr., Pres.

Negotiations are now said to be under way for the sale of the controlling interest of the Santa Cruz Copper Co. to a Canadian Mining Co.

Work was started at the Volcano Mine about March 1st at the site of an old open cut worked many years ago. A vertical 8' x 12' shaft was sunk to a depth of 50 ft. Then the shaft was turned to 63 deg. incline, following the ore formation, and ore was stoped from the inclined part of the shaft.

Total shipments to date from the Volcano Mine is said to be 35 carloads. The average of all shipments is reported as 7.90 % Copper, with the best shipment running 9.78 % Copper. Ore is shipped to the A. S. & R. smelter at El Paso, Texas.

On Oct. 6, an adit was started at some distance on the hillside below the shaft. This adit will imak be driven towards the present shaft, and will be about 120 ft. below the elevation of the collar of the present shaft. About 250 ft. of drifting will be required to reach a point directly below the present shaft.

5 men are working in driving this adit. Mining operations from the shaft have been discontinued, pending completion of this adit. Mr. Lee Farrell is foreman in charge of the work.

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Volcano Mine

Date June 4, 1953

District Harshaw District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Mine Report --- Personal Inspection.

Location Unsurveyed. About Sec. 6 -- T 23 S -- R 16 E.

Go south on Patagonia-Washington Camp road to 3/4 miles south of the road to the Flux Mine. Go 1 3/4 miles west on good mine road, with steep grade up the mountain.

Owners Santa Cruz Copper Co., Chicago, Illinois.

Lessees Lee Farrell and Albert Olander, Patagonia, Ariz.

Sub*Lessee Strong and Harris, Patagonia, Ariz.

Principal Minerals Copper

Number of Men Employed 10 men (5 on day shift and 5 on night shift)

Production Rate 7 carloads of ore shipped to A. S. & R. smelter at El Paso, Texas, since starting shaft sinking operations about 3 months ago.

Geology Fissure vein from 5 to 8 ft. in width. Strike N 63 deg. W, and dip approx. Vertical. Country rock is granite porphyry.

Ore Values Copper ores (copper carbonates) average from 7 to 9 % in Copper. Contains no Gold and a trace of Silver. No zinc and lead.

Ore in Sight and Probable No ore reserves developed to date.

Marketing Facilities Shipping ore to A. S.&.R. smelter at El Paso.

Present Operations Sinking shaft, vertical 8' x 12', now down to a depth of 50 ft.

Now turning shaft to 63 deg.incl. to north, following strike of vein. Progress now is

now 5 ft. every 2 days (4 shifts). On 40 ft. level, there is a drift 21 ft. long all in

ore. Work started about 3 months ago, and 7 carloads of ore has been shipped since that

time from the shaft and drift.

Past History None available. There is an old open cut on the property near the present shaft, from which a few carloads of copper carbonate ore appears to have been mined.

Proposed Plans Plan to continue shaft sinking, following the strike of the veinat an incline of 63 deg. to NW. in order to develop an ore body for future mining operations.

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

| Date 12 - 16 - 44 | Filing Information |
|--|--|
| Vilalen | File System |
| 1110 01 | File No |
| Owner or Operator 4. Palagonia | This chart to be used for gallons of gas- oline required per month. |
| Mine Location Patagonia dis | f. near Trends mine |
| PRESENT OPERATIONS: (check X) | |
| Production; Development; Financing. | ; Sale of mine; |
| Experimental (sampling); Owner's occasion | al trip; |
| Other (specify) | |
| PRODUCTION: Past and Future. | Tons |
| Approx. tons last 3 months | |
| | |
| | |
| If in distant future check (X) here | |
| | |
| EQUIPMENT OPERATED: | |
| Type Quantity or Horse Power | Miles or Hours Gallons Required Per Month Per Month |
| Personal Cars 1940 Stude | 600 40 |
| Light or Service Trucks | · · · · · · · · · · · · · · · · · · · |
| Ore Hauling Trucks | |
| Compressors | |
| Other Mine or Mill Eqpt. | |
| PRODUCT PRODUCED OR CONTEMPLATED: Name in | netals or minerals. |
| REMARKS: Crawford Ras to Hale property and inte | Ken a lease on thes |
| on went of present in | ereasingly criticke anditr |
| of copper one many | M Alamandall |
| ARIZONA | DEPARTMENT OF MINERAL RESOURCES |
| | By MANGE Challen |

mining Warld 12/953