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11/29/85

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: SILVER RAY

ALTERNATE NAMES:

PIMA COUNTY MILS NUMBER: 604

LOCATION: TOWNSHIP 20 S RANGE 10 E SECTION 26 QTR. NE
LATITUDE:N 31DEG 39MIN 11SEC LONGITUDE:W 111DEG 17MIN 06SEC
TOPO MAP NAME: ARIVACA - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

SILVER-PRIMARY
COPPER-BYPRODUCT

BIBLIOGRAPHY:

ADMMR SILVER RAY FILE
MINING WORLD, JULY 1962, P. 41

SILVER RAY MINE

PIMA COUNTY

Mine visit - Silver Ray - 2 men working in shaft. GWI WR 1-11-71

Walter Bopp continued work at his Silver Ray Mine near Arivaca. GWI QR Oct-Dec '71

Walter Bopp still has two men working at the Silver Ray mine. GWI QR Jan.-March '72

Walter Bopp still has 2 or 3 men working at or near his Silver Ray mine either drilling or working in the Silver Ray shaft. GWI AR 73-74

MG WR 11/28/80: Visited the Silver Ray. A separate report will be written.

MG WR 1/2/81: LeRoy Grant and his partner, Ron Johnson of Patagonia, sent a large ore sample to Phelps Dodge at Douglas. They hope Phelps Dodge will buy approximately 8,000 tons of ore that apparently assays up to 11 oz/ton taken from their ground (leased to them by Walter Bopp) near the Mary G. Mine (Pima Co.). I think the Bopp property is called Silver Ray.

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Mister Bopp owner the
Silver Ray mining claim in Pima Co.
John Day
John Day

Warranted copy

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: LeRoy Grandt
- Address: 227 W. Drachman, Tucson, AZ 85705
2. Mine: Silver Ray (Pima Co.) 3. No. of Claims - Patented _____
Unpatented _____
4. Location: On north side of road between Arivaca Jct. & Arivaca, imm. west of Cerro Colorado mine.
5. Sec 25 Tp 20 S Range 10 E 6. Mining District _____
7. Owner: Walter Bopp
8. Address: _____
9. Operating Co.: _____
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Ag 14. No. Employed: _____
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: Exploring silver-bearing galena vein on some of the other Silver Ray claims to the north and near the Mary G mine. Grandt and partner, Ron Johnson of Patagonia, are leasing Woodford mill in Arivaca.
18. Misc. Notes: Attempted to cyanide leach silver ore on crude pad built by mine shaft. Work done in 1980 and abandoned.

Date: 11-25-80

Michael N. Greeley
(Signature) (Field Engineer)

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Joe Pianka
Address: Arivaca
2. Mine: Silver Ray 3. No. of Claims - Patented _____
Unpatented _____
4. Location: Along Arivaca Road near Cerro Colorado
5. Sec _____ Tp 20S Range 10E 6. Mining District _____
7. Owner: Walter Bopp 43 S. 6th Ave Tucson
8. Address: _____
9. Operating Co.: Same
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: ? 14. No. Employed: 2
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: Report that this old shaft has been sunk
from 50 to 100' with sinking continuing
18. Misc. Notes: _____

Date: 1-5-71 GWD
(Signature) (Field Engineer)

SILVER RAY MINE

PIMA COUNTY

Active Mine List April 1968 - 2 men

Active Mine List Oct. 1968 - 2 men

Active Mine List April 1969 - 2 men - Walter Bopp, 43 S. 6th Ave, Tucson

Two men still working at the Silver Ray Mine near Cerro Colorado. Most of the work during this period has been in the shaft. GWI QR 9-1969

Active Mine List Oct. 1969 - S35, 20S, 10E

Silver Ray Mine - sinking shaft. GWI QR 2-27-70

Active Mine List May 1970 - 2 men - Walter Bopp

Active Mine List Oct. 1970 - 2 men - Walter Bopp

Mr. Bopp started sinking on the Silver Ray shaft near the old Cerro Colorado. GWI QR 10-1-70

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Silver Ray Mine

Date May 2, 1962

District Arivaca District - Pima County

Engineer Axel L. Johnson

Subject: Field Engineer's Report. Information from Joe Planka, hoistman.

References Report of March 7, 1962, and previous reports.

Present Mining Activity Drifting on the 670 ft. level. 4 men working, one shift, 5 days per week.

Review of Operations Repairing of the shaft was finished about March 15. Drifting on the 680 ft. level was then resumed. Drift is now in a distance of about 80 ft. The drift is reported as following a fault fissure, but no ore is, as yet, reported.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Silver Ray Mine

Date March 7, 1962

District Arivaca District, Pima County

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Joe Pianka, hoistman.

References Report of Jan. 3, 1962 and previous reports.

Present Mining Activity Repairing the shaft from 200 to 275 ft. below the collar.
(This is part of the old shaft, which originally went down to a depth of about 275 ft.)
3 men working, one shift, 5 days per week.

Review of Operations The shaft was sunk to a depth of 674 ft., the shaft sinking was stopped on Jan. 3 at that depth. Drifting was started on the 670 ft. level on Jan. 4, and the drift was continued for a distance of 25 ft. The breast of the drift was then drilled by long ~~air~~ hole drilling, and it was determined that they would hit ore in two more rounds. It was then decided to repair the shaft before any ore was hoisted. After the shaft is repaired, the drift on the 670 ft. level will be continued.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Silver Ray Mine

Date Jan. 3, 1962

District Arivaca District, Pima County

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Joe Pianka, hoistman

References Report of Sept. 6, 1961 and previous reports.

Present Mining Activity Shaft sinking. Starting to drift tomorrow. 3 men working, one shift, 5 days per week.

Review of Operations Mr. Pianka informed me that the shaft is now down to a depth of 674 feet, and that they have orders from Walter Bopp, the operator, not to continue any deeper for the present, but to start drifting tomorrow from a point near the bottom of the shaft. Mr. Pianka reported that there were very little ore showings.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Silver Ray Mine

Date Sept. 6, 1961

District Arivaca District, Pima County

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Bill Hord 9/6 & Walter Bopp 9/26

Location Sec. 26, T 20 S - R 10 E. About 7 miles NE of Arivaca on the west side of the Arivaca-Kinsley road.

Number of Claims 5 claims on State land, with State lease, obtained in 1956. Also has prospecting permit on the remainder of Section 26.

Owner State of Arizona

Lessee & Operator Walter Bopp, 43 South 6th Ave., Tucson, Ariz.

Principal Minerals Principally silver, with some copper.

Present Mining Activity Shaft sinking --- 3 men working, one shift, 5 days per week.

Review of recent operations Bill Hord reports that the shaft is now down to a depth of 635 ft., and that they plan to sink the shaft further, probably to a depth of 700 ft., before starting to cross cut. There are no ore showings in the shaft as yet.

At the present time, some of the upper portions of the shaft is being repaired and straightened in order to speed up hoisting operations. Also operations were closed down for several weeks, while assessment work was being done in other locations.

Mr. Hord reports the progress is about 2 ft. per day, when shaft sinking is in progress. There is very little water to take care of, as yet, the water still being bailed out by hand.

For other information on the shaft sinking operations, see my report of Mar. 8, 1961.

Additional Information Walter Bopp informed me on Sept. 26 that he now has a State Prospecting Permit on all of Section 26, except the 5 claims covered by a State lease.

Mr. Bopp also informed me that he has purchased from Odis Parker, the Silver Shield Mine, which adjoins the Bopp holdings on the south. This consists of 6 claims--- 3 Federal claims and 3 State claims covered by a State lease.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Silver Ray Mine Date September 7, 1960
District Arivaca District, Pima County Engineer Axel L. Johnson
Subject: Present Status. Information from C. L. Jarnegin and personal visit.

References: Report of June 7, 1960.

Present Mining Activity: Shaft sinking - 3 men working, one shift, 5 days per week.

Review of Recent Operations: Shaft sinking in the main shaft was resumed about Aug 1st, after having been discontinued since Nov. 1959. The shaft is now down to a depth of 360 feet., an advance of 40 ft. since the work was resumed. Progress is about 8 ft. per week. 14 holes each 2½ ft. deep are drilled per round, using a Schramm jackhammer with carbide bits. Blasting is done with 40% gelatin dynamite and electric primers. The round breaks to an average depth of 2 ft. Mucking is done in the A.M. and drilling in the P.M. Timbering is done on Mondays. There is no water to pump, except a small amount of seepage. Mr. Jarnegin estimates the cost of the shaft at about \$50. per ft. The shaft is a 2 compartment vertical - 5' x 7' inside. As yet no ore has been encountered in the shaft.

Proposed Plans: Their present plans call for sinking the shaft an additional 40 ft. to the 400 ft. level, and then drifting west on the 400 ft. level for about 200 ft., in order to get under the ore fissures found on the hill west of the shaft.

Previous Exploration Work: Mr. Jarnegin reports that one diamond drill hole was drilled about 6 to 8 months ago, drilling from the surface at an angle of 5 degrees off vertical. He reports that the drill hole went down to a depth of 520 ft. and from 390 ft. to 405 ft. low grade ore was encountered.

This property active Feb. 1961

/s

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Silver Ray Mine

Date Mar. 8, 1961

District Arivaca District, Pima County

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Bill Horde, Foreman, Arivaca, Ariz.

References Report of Sept. 7, 1960 and previous reports.

Present Mining Activity Shaft sinking ---- 3 men working, one shift, 5 days per week.

Review of recent operations Operations have been continued since my last report of Sept. 7, 1960, except for a short time in December and January. C. L. Jarnegin resigned as ~~foreman~~ foreman some time in January and Bill Horde took over the job at that time. The shaft is now down to a depth of about 512 ft., and the progress is about 2 ft. per day, or 8 ft. per week, one day per week being required for timbering. 14 holes, each 2 1/2 ft. deep are drilled per round, using a Schramm jackhammer with carbide bits. Blasting is done, using Hercules 40% gelatin dynamite and electric primers. The round breaks to an average of 2 ft. Mucking is done in the mornings and drilling in the afternoons. There is very little water to take care of as yet, and the water there is has been bailed out by hand.

Temporarily closed while doing assessment work. ALJ-Weekly Report 7-8-61

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Silver Ray Mine

Date June 7, 1960

District Arivaca District, Pima County

Engineer Axel L. Johnson

Subject: Present Status. Information from C. L. Jarnegin and personal visit.

References Reports of April 5, 1960, Dec. 1, 1959, and June 2, 1959.

Present Mining Activity No work is being done in the main Silver Ray shaft, which was sunk recently to a depth of 325 ft., or in the cross cut on the 320 ft. level. (see reports of April 5, 1960 and Dec. 1, 1959). The present operations consist in prospecting on the hill directly west of the main shaft, by means of trenching. 2 men working.

Review of Recent Operations Since last report (April 5, 1960), a shaft 30 ft. deep (incl. 80 deg.) has been sunk about 200 to 300 ft. west of the main shaft, and directly west of the hill now being prospected. This shaft followed a 2 1/2 ft. vein, which had about a 15 " paystreak in several places. A few tons of handsorted ore has been stockpiled from this operation, which Mr. Jarnegin claims assays of 100 oz. of silver per ton.

The prospecting trench, which is being made on the top of the hill, is now about 3 ft. wide, 3 ft. deep, and about 150 ft. long. A vein, about 6 " wide, has been uncovered and about 200 to 300 lbs. of ore has been stockpiled nearby, which Mr. Jarnegin claims will run about 50 oz. of silver to the ton. The ore also shows a small amount of copper.

Proposed Plans Mr. Jarnegin informs me that their present plans call for resuming operations in the main Silver Ray shaft in about 3 to 4 months, driving a cross cut west on the 320 ft. level for a distance of about 300 ft. This cross cut will go directly under the hill now being prospected, and also below the location of the new 30 ft. shaft.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Silver Ray

Date April 5, 1960

District Arivaca District, Pima County

Engineer Axel L. Johnson

Subject: Information from C. L. Jarnegin

References: Reports of December 1 and June 2, 1959.

Present Mining Activity: None. Mine is closed down for the time being.

Review of Mining Operations: A cross cut on the 320 ft. level going south was driven to a length of 50 ft. and showed some ore indications, but no commercial ore.

One diamond drill hole was drilled from the 320 ft. level cross cut to a depth of 221 ft. (5° off vertical). Some copper and silver showings are reported from the drill hole cores.

Proposed Plans: Operator expects to do more underground diamond drilling later on, probably next fall or winter.

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Silver Ray

Date Dec. 1, 1959

District Arivaca District, Pima County

Engineer Axel L. Johnson

Subject: Present Status. Information from lander and personal visit.

References Report of June 2, 1959

Present Mining Activity Driving a cross cut on the 320 ft. level. 3 men working, one shift, 5 days per week.

Review of Mining Operations The vertical shaft was sunk to a depth of 325 ft., which was 50 ft. below the bottom of the old shaft (see report of June 2, 1959). A cross cut was then started on the 320 ft. level, going south. This is now in a distance of 20 ft. It is hoped that this cross cut will intersect the main vein, but thus far, the vein has not been found. (See "Geology & Mineralization" on my June 2 report.)

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Silver Ray

Date June 2, 1959

District Arivaca District, Pima County

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from C. L. Jarnegin, foreman.

Location Approximately 7 miles NE of Arivaca, along the west side of the Arivaca- Kinsley Road.

Number of Claims 5 claims on State land, located in 1956, about 3 years ago.

Owner State of Arizona.

Lessee Walter Bopp, 43 South 6th Ave., Tucson, Ariz.

Principal Minerals Principally Silver, with some Copper.

Present Mining Activity Shaft sinking. 3 men working, 5 days per week.
C. L. Jarnegin, Arivaca, Foreman.

Geology & Mineralization Vein, from 3 to 6 ft. wide, outcrops on the surface about 52 ft. SE of the shaft, and dips about 15 degrees to the NW. If this vein would have continued and dipped uniformly at 15 degrees, it would have intersected the shaft at a depth of about 200 ft. However, apparently, the vein has not been intersected yet, although they are now down to a depth of 285 ft. Mr. Jarnegin states that they have now a few stringers of Quartz at the bottom of the shaft. Vein on the surface strikes ~~NW-SE~~, with a dip of 15 degrees to the NW. *SW-NE*

Ore Values Not determined as yet.

Old Mine Workings 1 vertical shaft ---- 275 ft. deep.
47 ft. of old drifts on the 275 ft. level.

New Mine Workings Old vertical shaft retimbered for 275 ft. (completed recently)
Old drifts on the 275 ft. level repaired.
Shaft now sunk an additional 10 ft. to the 285.

Present Mining Operations Sinking shaft, with 3 men working. Operators plan to continue sinking the shaft further until the vein is reached. 50 gal. of water is baled out every day, acc. to Mr. Jarnegin. This is such a small amount that I wonder if it is not quite a bit more.

Proposed Plans Operators plan to start long hole drilling tomorrow, using 20 ft. extension steel. They plan on drilling down from the present bottom of the shaft.

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine : Silver Ray

Date April 7, 1959

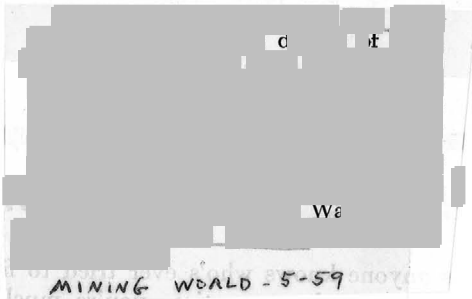
District Arivaca District, Pima County

Engineer Axel L. Johnson

Subject: Present Status. Information from C. L. Jarnegin & Personal Visit.

References: Report of Sept. 24, 1958 and previous reports.

Present Mining Activity: Retimbering old shaft. Original depth of shaft not known. Timbering now completed to a depth of 270 ft. Average progress reported to be about 2 ft. per day, when no special difficulties are encountered. Top of an old drift was hit at a depth of 270 ft. Pumps will be installed now to handle the water.



DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Silver Ray Date Feb. 3, 1959
District Arivaca District, Pima County Engineer Axel L. Johnson
Subject: Present Status. Information from C. L. Jarnegin & Personal Visit.

References: Report of Sept. 24, 1958 and previous reports.

Present Mining Activity: Retimbering old shaft. Original depth of shaft not known. Timbering shaft to a 2 compartment - 5' x 9' shaft. Timbering now completed down to a depth of 228 ft. 3 men working - 5 days per week.

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DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Silver Ray

Date Sept. 24, 1958

District Arivaca District -- Pima Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from C. L. Jarnegin, Foreman, and Personal Visit.

References Report of June 3, 1958

Present Mining Activity Retimbering old 80 ft. vertical shaft. Timbering it into a 2 compartment-- 5 x 9 shaft (outside measurements). Timbering has now been completed to a depth of 68 ft., with about 12 ft. more to go. Now installing a pump to take care of the water. 3 men working -- 5 days per week.

Mineralization A few stringers of copper- silver ore is found in the shaft at a depth of 68 ft., but not enough to make it commercial, as yet.

Old Mine Workings

- (1) Old vertical shaft --- 80 ft. deep --- now being retimbered.
- (2) Reported to be 200 to 300 ft. of old drifts on the 80 ft. level. The size of the old dumps seems to confirm this report.

Proposed Plans

- (1) Retimber the old shaft to its original depth of 80 ft.
- (2) Repair the old drifts on the 80 ft. level.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Silver Ray

Date June 3, 1958

District Arivaca Mining District, Pima County

Engineer Axel L. Johnson

Subject: Field Engineer's Report, information from Walter Bopp and C. L. Jarnegin

Location: Approximately 7 miles NE of Arivaca, along west side of Arivaca-Kinsley Road.

No. of Claims: 5 claims on state land, located about 2 years ago.

Owner: Walter Bopp, 43 South 6th Ave., Tucson, Arizona.

Principal Minerals: Copper and silver.

Old Mine Workings: 1 vertical shaft 75' in depth, where shaft collar is being installed.

Present Mine Activity: Putting in shaft collar and building tool shed. 2 men working.

Proposed Plans: Owner plans on putting up a gallows frame and installing a mine hoist and an air compressor, and retimbering the old 75' vertical shaft.