



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

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: LUCKY SHOT

ALTERNATE NAMES:

SAN JOSE
HALF AND HALF
HILL TOP
BIG FOUR
BAILEY PREACHER

SANTA CRUZ COUNTY MILS NUMBER: 24B

LOCATION: TOWNSHIP 23 S RANGE 11 E SECTION 8 QUARTER NW
LATITUDE: N 31DEG 26MIN 47SEC LONGITUDE: W 111DEG 14MIN 32SEC
TOPO MAP NAME: RUBY - 7.5 MIN

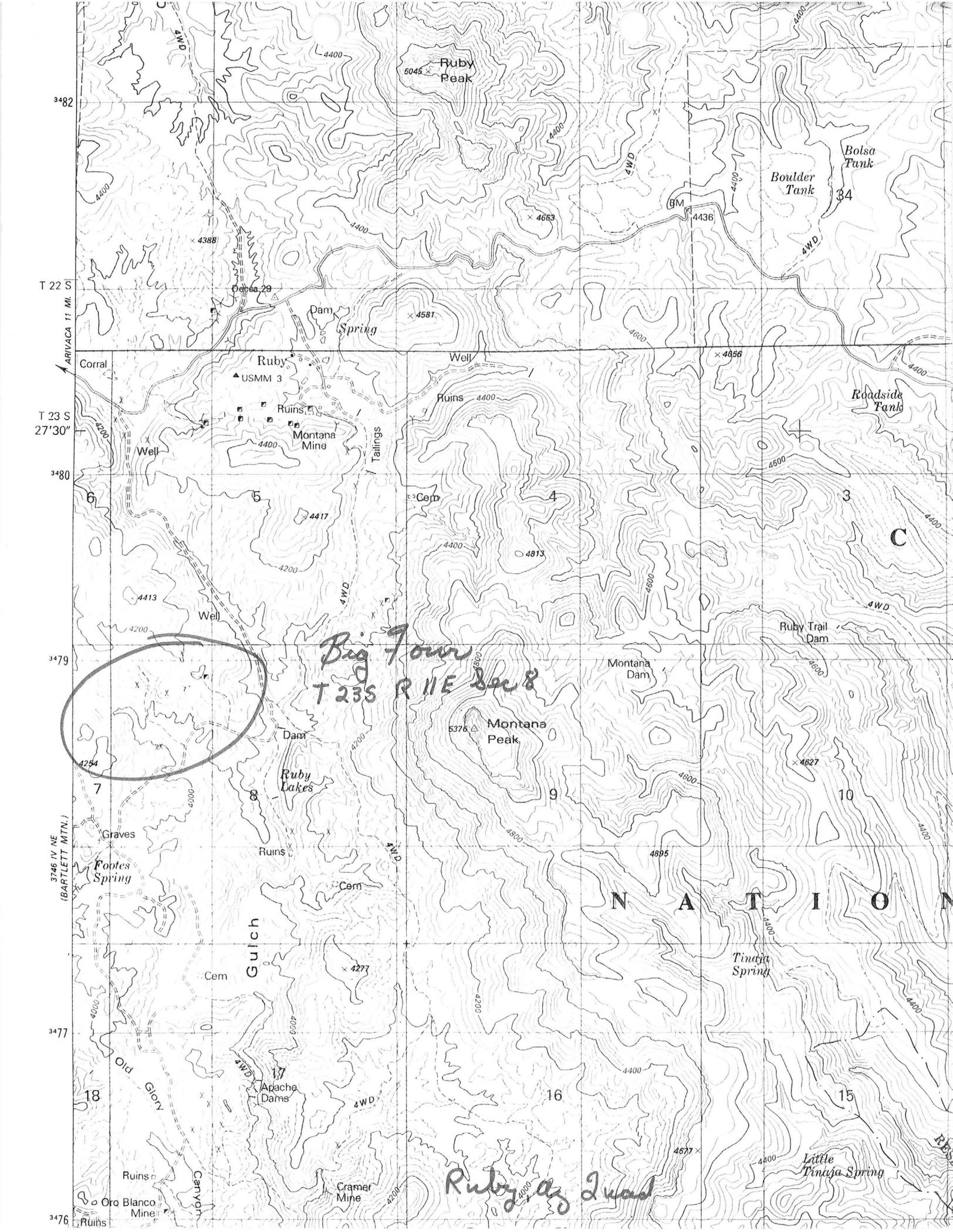
CURRENT STATUS: PAST PRODUCER

COMMODITY:

ZINC
LEAD
SILVER
COPPER
GOLD

BIBLIOGRAPHY:

INDEX OF MINING PROP. IN SANTA CRUZ CO., P.64
PRIVATE RECORDS
SANTA CRUZ CO. RECORDER'S RECORDS
AZBM CARD FILE SANTA CRUZ CO.
ADMMR LUCKY SHOT FILE
KNIGHT, LOUIS, JR. ADMMR GEOLOGY FILE
REPORT ON REGION CONTIGUOUS TO THE MONATANA
MINE - ADMMR GEOLOGY FILE



Ruby Peak
5045

Boulder Tank
Bolsa Tank

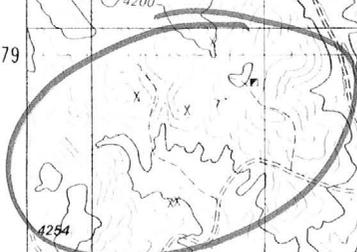
Ruby
USMM 3
Ruins
Montana Mine

Montana Peak
5376

N A T I O N

Ruby as Quad

3482
T 22 S
ARIVACA 11 MI.
T 23 S
27'30"
3480
3479
3746 IV NE
(BARTLETT MTN.)
3477
3476



BIG FOUR MINE

SANTA CRUZ

MG WR 9/24/82: U. S. Bureau of Mines reported production from the Oro Blanco Mining District, Santa Cruz County:

Hill Top - Report Years 1940, 1947-48 and 1954-55: Tonnage Treated - 253; 441 pounds copper; 16,653 pounds lead; 32,545 pounds zinc; 209 ounces silver and 3 ounces gold.

CJH WR 4/8/83: Visitors: Mr and Mrs. John A. Seitz, owners of the Hilltop Mine, Oro Blanco District and Amado (Tiger) Mine, Arivaca District. Their winter address is Box 180, Arivaca, AZ and summers is Pewaukee, Wisconsin.

DATE PRINTED: MAR 18, 1981

MINERALS AVAILABILITY SYSTEM
DEPOSIT LISTING

PAGE 4688

DEPOSIT NAME: LUCKY SHOT MINE GROUP

SEQUENCE NUMBER: 0040230065

>>>> MILS - DATA SET <<<<
(MINERAL INDUSTRY LOCATION)

STATE: ARIZONA
 COUNTY: SANTA CRUZ
 TYPE OF OPERATION: UNDERGROUND
 CURRENT STATUS: PAST PRODUCER
 LATITUDE: N 31DEG 26MIN 15SEC
 LONGITUDE: W 111DEG 14MIN 31SEC
 UTM - ZONE: 12
 HEMISPHERE: NORTHERN
 NORTHING: 3477920
 EASTING: 477000
 POINT REFERENCE: MAIN ENT
 PRECISION: 100 METERS
 ELEVATION: 1264 METERS
 PRECISION: 100 METERS

YEAR FIELD CHECKED:
 QUADRANGLE: NOGALES
 RIVER BASIN NAME:
 SAN SIMON WASH
 RIVER BASIN CODE: 59R
 HYDROLOGIC UNIT CODE:
 DATUM OF ELEVATION: SEA LEVEL
 MAP NAME: RUBY
 SCALE: 15 MIN
 DOMAIN: NAT FOREST
 TYPE OF MINERAL HOLDINGS:

MINE MAP REPOSITORY:
 TYPE OF EVALUATION: M
 EVALUATOR: ADMR
 YEAR OF INFORMATION ENTRY: 1978
 MAINTAINING FIELD CENTER:
 INTERMOUNTAIN
 MINERAL PROPERTY FILE:
 CORE LIBRARY:
 MINES IDENTIFICATION:
 GEOLOGICAL SURVEY CRIB:
 LAST MILS MODIFICATION:
 NOV 29, 1979
 LAST DEPOSIT MODIFICATION:
 NOV 29, 1979

--PUBLIC LAND SURVEY--
 PRINCIPAL MERIDIAN:
 GILA & SALT R
 TOWNSHIP: 023 S
 RANGE: 011 E
 SECTION: 08
 SECTION SUBDIVISION:
 NE 1/4, NW 1/4,
 SURVEY STATUS: SURVEY

>>>> COMMODITY - DATA SET <<<<

RECORD NO.	COMMODITY	MODIFIER	MARKETABILITY	STANDARD INDUSTRIAL CODE	DATE OF LAST MODIFICATION
01	ZINC		PRIMARY		NOV 29, 1979
02	LEAD		COPRODUCT		NOV 29, 1979
03	SILVER		BYPRODUCT		NOV 29, 1979
04	COPPER		BYPRODUCT		NOV 29, 1979
05	GOLD		BYPRODUCT		NOV 29, 1979

>>>> NAMES (ALTERNATE) - DATA SET <<<<

SAN JOSE
 HALF AND HALF
 HILL TOP
 BIG FOUR

>>>> OWNERSHIP - DATA SET <<<<

RECORD NO.	NAME OF OWNER	STATUS	PERCENT OF OWNERSHIP	LOCATION OF HOME OFFICE	YEAR OF INFORM.	DATE OF LAST MODIFICATION
01	RUBY MINES	UNKNOWN	%	USA ARIZONA	1976	NOV 29, 1979
02	RUBY MINES CO	UNKNOWN	%	USA ARIZONA	1976	NOV 29, 1979

>>>> BIBLIOGRAPHY - DATA SET <<<<

SET REFERENCE	LINE NO.		
	001	INDEX OF MINING PROP IN SANTA CRUZ CTY - pg 64	???????
	002	PRIVATE RECORDS	???????
	003	SANTA CRUZ CTY RECORDER'S RECORDS	???????
	004	AZBM CARD FILE SANTA CRUZ CTY	???????
%		ADMR Big Four Mine file Knight, Louis Jr. Geology file Report on Region continues to the Montana Mine Geology file	

BIG FOUR MINE

SANTA CRUZ COUNTY
ORO BLANCO DISTRICT
T23S R11E Sec 8

AKA: San Jose, Half and Half, Lucky Shot Mine Group, Hilltop

MILS Santa Cruz Co., #24B

ABM Bull. 191, p. 64 (Lucky Shot Mine)

Geology Report- "Tructure & Mineralization of the Oro Blanco Mining District,
Santa Cruz Co." Dr. Louis H. Knight Jr., 1970

Report on the Region Contiguous to the Montana Mine, Ruby, Az., 1934

Ruby, Az Quadrangle Map (Included in file)

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

~~XX~~ FIELD ENGINEERS REPORT ~~XX~~

NEWS ITEM

Mine Big Four Mine

Date March, 5, 1952.

District Oro Blanco District

Engineer Axel L. Johnson

Subject: News Item --- Source of Information --- George M. Evans

Location In California Gulch---1 1/4 miles due south of Ruby. Take Ruby Road until 1/2 mile NW of Ruby, then turn right (south) down California Gulch, and drive about 1 1/2 miles. Road good.

Number of Claims 3 claims unpatented--- Lucky Shot, San Jose, and Half and Half. Assessment work up to date.

Owners Big Four Mining Co. owned by George M. Evans, Stuart B. Eckley, and Lyle K. Marker.

Operators Not in operation.

Officers Fred Belton, Engineer, Big Hat Cafe, 1749 N. Oracle Road, Tucson, Ariz.

Metals Found Zinc and Lead with small amounts of Gold and Silver.

Men Employed None.

Production Rate None. Not in operation.

Milling Facilities None.

Geology Vein from 3 ft. to 6 ft. wide (average 4 ft.), dipping 80 degrees. Carbonate ores to a depth of about 40 ft. and below that sulfide ores.

Ore Values Ore values run from \$35 to \$40 per ton. Net smelter returns from last shipment in 1948 ran \$20 per ton net.

Old Workings One vertical shaft---153 ft. deep.
200 ft. of drifting from shaft on three different levels.

Past Production Property purchased from Mrs. Francisca ~~Romero~~ Otero and Mr. Reynaldo H. Romero in Nov. 1946.

Leased to Oro Verde Mining Co. of Akron, Ohio in June, 1948. This company shipped 103 tons of ore to the Shattuck Denn from the 80 ft. level. This ore ran 13.78 % Zinc, 3.88 % Lead, 0.17% Copper, and 0.79 oz. of Ag. The Oro Verde Co. also shipped 13 tons of ore to the Eagle Picher Co., which ran 12.47 % Zinc, 10.3 % Lead, 0.60 % Copper, and 2.50 oz. of Ag. The Oro Verde Mining Co. gave up the lease in late in 1949, when there was a big drop in the price of metals.

Proposed Plans The owners wish to sell or lease the property.
Owners will consider a bonded lease with option to buy at \$50,000.

* GENERAL REFERENCES

- REFERENCE 1 F1 < USBM - ABGMT PRODUCTION FILE DATA
- REFERENCE 2 F2 < USBM FILE DATA - CLUSTER # 47 - LUCKY SHOT MINE GROUP
- REFERENCE 3 F3 < KEITH, S.B., 1975, ARM BULL. 191, p. 64
- REFERENCE 4 F4 < KNIGHT, L.H., 1970, STRUCTURE AND MINERALIZATION OF THE ORO BLANCO MINING DISTRICT, SANTA CRUZ COUNTY ARIZONA, UNIV. ARIZ. PH.D. THESIS

Mds - # 24B

K5 < SEQUENCE >
 N70 < HORNBLENDE DIORITE >

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < >
 REPORT DATE G1 < 8.20.5 >
 RECORD TYPE B20 < X.I.M >
 INFORMATION SOURCE B30 < 1.2 >
 DEPOSIT NUMBER B40 < >
 FILE LINK IDENT. B50 < USBM-0040230065 >
 REPORTER(SUPERVISOR) G2 < LARABA PETER > (last, first, middle initial)
 < CALDER SUSAN > (last, first, middle initial)
 REPORTER AFFILIATION G5 < ABGMT >
 SYNONYMS A11 < SAN JOSE, HALF AND HALF, HILLTOP, BIG FOUR >
 SITE NAME A10 < LUCKY SHOT MINE GROUP >

LOCATION

MINING DISTRICT/AREA A30 < ORO BLANCO DISTRICT >
 COUNTY A60 < SANTA CRUZ >
 PHYSIOGRAPHIC PROV A63 < 1.2 >
 DRAINAGE AREA A62 < 1.5080200 >
 QUADRANGLE NAME A90 < RUBY, ARIZ. - SONORA >
 SECOND QUAD NAME A92 < RUBY ARIZ. >
 ELEVATION A107 < 4300 >
 STATE A80 < A.Z. >
 COUNTRY A40 < U.S. >
 LAND STATUS A64 < 4.1 >
 QUADRANGLE SCALE A100 < 24000 >
 SECOND QUAD SCALE A91 < 62500 >
 UTM
 NORTHING A120 < 3478900 >
 EASTING A130 < 476980 >
 ZONE NUMBER A110 < 12 >
 ACCURACY
 ACCURATE ACC (circle)
 ESTIMATED-EST < >
 GEODETIC
 LATITUDE A70 < 31-26-48 N >
 LONGITUDE A80 < 111-14-33 W >

CADASTRAL

TOWNSHIP(S) A77 < 023 S >
 SECTION(S) A79 < 8 >
 SECTION FRACTION(S) A76 < N2 OF NW >
 MERIDIAN(S) A81 < GILA AND SALT RIVER >
 RANGE(S) A78 < 011 E >

POSITION FROM NEAREST PROMINENT LOCALITY A82 < 1 MILE NW OF MONTANA PEAK (ELV. 5376) >
 LOCATION COMMENTS A83 < ON THE WEST SIDE OF CALIFORNIA GULCH, ABOUT 1 MILE SSW OF RUBY ARIZ. AND THE MONTANA MINE >

ESSENTIAL INFORMATION
ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

*COMMODITIES PRESENT C10 <Z.N., P.B., AG., W.C.U., PALL, ...>
*ORE MINERALS C30 <SPHALERITE, GALENA, CHALCOPYRITE, PYRITE>
COMMODITY SUBTYPES C41 <>
GEN. ANALYTICAL DATA C43 <220 TONS OF ORE AVERAGING ABOUT 8% ZN; 4% P.B.; 1.02/TON AG; MINOR AU, CU>
COM. INFO. COMMENTS C50 <>

*SIGNIFICANCE

PRODUCER: MAJOR PRODUCTS MAJOR <Z.N., P.B., AG., W.C.U., PALL, ...>
NON-PRODUCER: MAIN COMMODITIES PRESENT C11 <>
MINOR PRODUCTS MINOR <AU, ...>
POTENTIAL PRODUCTS <>
OCCURRENCES OCCUR <>

*PRODUCTION

PRODUCTION YES (circle) PRODUCTION SIZE SML MED LGE (circle one)
NON-PRODUCER: PRODUCTION UND NO (circle one)

EXPLORATION OR DEVELOPMENT

*STATUS: PRODUCER: STATUS AND ACTIVITY A20 <H>
NON-PRODUCER: STATUS AND ACTIVITY A20 <L>

*DISCOVERER L20 <>
*YEAR OF DISCOVERY L10 <> *NATURE OF DISCOVERY L30 <S> *YEAR OF FIRST PRODUCTION L40 <1947> *YEAR OF LAST PRODUCTION L45 <1955>
*PRESENT/LAST OWNER A12 <>
*PRESENT/LAST OPERATOR A13 <BIG FOUR MINING CO.>
*EXPL./DEV.COMMENTS L110 <PAST OPERATORS INCLUDE: ORO VERDE MINING CO., JIME AND MARKER, LICANO AND FLORES, BEJERANO.>

DESCRIPTION OF DEPOSIT

*DEPOSIT TYPE(S) C40 <QUARTZ SULFIDE VEIN>
DEPOSIT FORM/SHAPE M10 <TABULAR; LENSING>
DEPTH TO TOP M20 <> *UNITS M21 <> *MAXIMUM LENGTH M40 <> *UNITS M41 <>
DEPTH TO BOTTOM M30 <> *UNITS M31 <> *MAXIMUM WIDTH M50 <> *UNITS M51 <>
DEPOSIT SIZE M15 <SMALL M15 MEDIUM M15 LARGE (circle one)> *MAXIMUM THICKNESS M60 <> *UNITS M61 <>
*STRIKE M70 <N25E> *DIP M80 <NW>
DIRECTION OF PLUNGE M100 <> *PLUNGE M90 <>
*DEP. DESC. COMMENTS M110 <VEINS TREND PARALLEL TO THE 3 MAJOR DIRECTIONS OF FAULTING IN THE DISTRICT (NW, NE, AND NNE).>

DESCRIPTION OF WORKINGS

*Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one)
*DEPTH BELOW SURFACE M160 <> *UNITS M161 <>
*LENGTH OF WORKINGS M170 <> *UNITS M171 <>
*OVERALL LENGTH M190 <> *UNITS M191 <>
*OVERALL WIDTH M200 <> *UNITS M201 <>
*OVERALL AREA M210 <> *UNITS M211 <>
DESC. OF WORK. COM. M220 <SHAFT OPERATIONS>

GEOLOGY

*AGE OF HOST ROCK(S) K1 <CRET. ...>
*HOST ROCK TYPE(S) K1A <THICK SUCCESSION OF COARSE CONGLOMERATES>
*AGE OF IGNEOUS ROCK(S) K2 <CRET.-TERT. ...>
*IGNEOUS ROCK TYPE(S) K2A <HORNBLENDE DIORITE; QUARTZ MONZONITE PORPHYRY DIKES>
*AGE OF MINERALIZATION K3 <CRET. ...>
*PERT. MINERALS (NOT ORE) K4 <QUARTZ>
*ORE CONTROL/LOCUS K5 <NE-TRENDING LENSING QUARTZ FISSURE VEINS CUTTING CONGLOMERATE>
*MAJ. REG. TRENDS/STRUCT. N5 <NW-TRENDING FAULT ZONES>
*TECTONIC SETTING N15 <BLOCK FAULTING>
*SIGNIFICANT LOCAL STRUCT. N70 <QUARTZ VEIN TRUNCATED BY CONTACT WITH CONGLOMERATE AND SURROUNDING>
*SIGNIFICANT ALTERATION N75 <MINOR>
*PROCESS OF CONC./ENRICH. N80 <SECONDARY ENRICHMENT; PARTIAL OXIDATION>
*FORMATION AGE N30 <CRET. ...>
*FORMATION NAME N30A <LOWER CONGLOMERATE MEMBER OF THE ORO BLANCO FORMATION>
*SECOND FM AGE N35 <>
*SECOND FM NAME N35A <>
*IGNEOUS UNIT AGE N50 <CRET. ...>
*IGNEOUS UNIT NAME N50A <RUBY DIORITE>
*SECOND IG. UNIT AGE N55 <TERT. ...>
*SECOND IG. UNIT NAME N55A <SIDEWINDER QUARTZ MONZONITE>
GEOLOGY COMMENTS N85 <>

GENERAL COMMENTS

GENERAL COMMENTS GEN <>

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Hill Top Mine (formerly called Big Four)
(prev. to that called Lucky Shot)
District Oro Blanco Mining Dist., Santa Cruz Co.

Date Aug. 11, 1954.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Present Status.

References For information see my report on this property under date of April 7, 1954.

Present Status Operations discontinued by the owners, George M. Evans and Lyle K. Marker.

Sale or Lease Owners now wish to sell or lease out the property, on favorable terms.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Big Four Mine (also called "Lucky Shot Mine")
District Oro Blanco Mining Dist., Santa Cruz Co. Engineer Axel L. Johnson
Date April 7, 1954.
Subject: Field Engineers Report.

Location Sec. 8 -- T 23 S -- R 11 E. (Approx. 1 mile south of Ruby.)
Go south from Arivaca on the Ruby road for 9 miles. Then turn right and go 2 miles on good road. Then turn right off this road on a very steep and rocky road, and go about 1/4 mile on this road.

Number of Claims 3 unpatented claims.

Owner George M. Evans, 4001 E. Monte Vista Dr., Tucson, Arizona. Tel. 5-6773
Lyle K. Marker, Tucson, Arizona.

Operators Same as above.

Principal Minerals. Lead, Zinc, Silver.

Number of Men Employed 2 part time (owners Mr. Evans and Mr. Marker).

Production Rate No production yet. Operators are getting ready for production soon.

Geology and Ore Values Property has 6 quartz veins, varying in width from 2 ft. to 10 ft. The host rock is Diorite. Ore veins strike NE-SW, and dip from 70 to 80 degrees NW. The two feet of the vein which is next to the hanging wall is generally found to be of very high grade, with the remainder of the vein containing lower values. Vein, on which the shaft they are now repairing was sunk, is about 6 ft. in width, with the 2 ft. of this next to hanging wall, being of good grade. Assay of the 2 ft. high grade reported as Lead--21 %, and Silver 4 3/4 oz. as the best assay obtained on this 2 ft. streak. Assay of 4 ft. of the vein reported as 8 % lead, and 2 1/2 oz. of silver. Owners believe they can mine, hand sort and ship ore running 10 % lead and 3 oz. of silver.

Ore in Sight Only a small quantity of ore is in sight on the 50 ft. level. Lower levels, the 80 ft. and the 150 ft. levels are still not accessible for inspection.

Milling and Marketing Facilities Operators plan on shipping the oxidized ores to the El Paso smelter, and the sulphides to the Trench mill south of Patagonia.

Present Mine Workings Workings on the property are as follows: (1) one inclined shaft, (incline varies from 85 to 65 degrees) 150 ft. deep---- water standing up to 75 ft. depth.
(2) 1 drift --- 30 ft. long on the 50 ft. level ----now open and accessible.
(3) 1 drift, 80 ft. long and some stopes on the 80 ft. level -----mostly under water.
(4) 1 drift, length unknown, but no stoping, on the 150 ft. level.
Oxidized ores are found on the 50 ft. level and above, with some sulphides. Below the 50 ft. level, the ores are all sulphides ---- Galena, Sphalerite, Pyrite, and Chalcopyrite.
(5) 1 adit ---200 ft. long, open for a distance of 100 ft. (6) 1 shaft ---- x 30 ft. deep, vertical and (7) numerous small open cuts exposing the vein on the surface.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Page 2.

Mine Big Four Mine
(also called "Lucky Shot Mine")
District Oro Blanco District ----Santa Cruz Co.

Date April 7, 1954

Engineer Axel L. Johnson

Subject: Field Engineers Report.

Continued from page 1.

Past History

(1) The 150 ft. shaft is reported as having been sunk by a "Preacher Bailey" some time between 1890 and 1900.

(2) Present owners bought an interest in the property in 1945 or 1946 from the former owners of the property.

(3) The Oro Verde Mining Co. leased the mine from the owners, Evans and Marker, in 1949. This company operated the mine for a period of about 6 months. They did some development---mostly drifting and cross cutting, and mined some ore. Owners report that they shipped 5 carloads of ore during this time, and that the last 2 cars had a gross value of \$4,380 and netted \$2,600 net. Mine was closed down in 1949 or 1950.

Present Operations Owners, Evans and Marker, started their operations about Feb. 1st. So far, they have built a gallows frame, built a collar at the shaft and put in new timber in the shaft for a distance of about 12 ft. They have also put in new ladders and skids in the shaft. Next job will be to clean out and explore the 50 ft. level. Then, later on, the shaft should be dewatered and repaired to reach the 80 ft. and the 150 ft. levels.

Proposed Plans Operators plan on operating the mine themselves. They plan on dewatering and repairing the shaft to open up the old workings of the mine. They plan on shipping the oxidized ores, and the mixed oxidizes and sulphides to the A. S. & R. smelter at El Paso, Texas, and to ~~ship~~ truck the sulphide ores to the Trench mill of the A. S. & R. Co. south of Patagonia for milling.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Bailey Preacher
District Oro Blanco
Subject:

Date 12/18/48
Engineer George A. Ballam

This property, 3 unpatented claims, is located in the Oro Blanco Mng. Dist., $4\frac{1}{2}$ miles south of Oro Blanco to the west of California Gulch. It is leased by Ted Smith and Fred Belton of Tucson. The principal values are in Pb-Zn with minor amounts of Au-Ag.

The lessees have expended about \$20,000 opening up an old shaft and workings, building camp, making road, etc. The original workings are very old and were filled with muck. They consist of an inclined shaft sunk on one of four parallel N-S veins dipping generally to the west. At 150 feet a X-cut was driven about 40 feet toward another and the most westerly of these veins. About 30' of X-cut remain to be driven to contact it. The ore-sulfides below 80 feet is in a monzonite porphyry two to three feet in width. At 80 feet some stoping was done and two cars - 103 tons - of lead-zinc ore was mined and shipped, netting \$1000 per car. This ore was in a small shoot which pinched out. The vein toward which work is being done now shows considerable epidote in the croppings and is about 15-20 feet wide. Surface indications

#2

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine *Barley Preacher*

Date

District

Engineer

Subject:

appear more promising than elsewhere and the operators have decided to continue the work to explore this vein.

Road conditions are poor and ore was hauled out to the Ruby road for contract hauler to pick up there - hauling to Amado at \$4.00 per ton.

Two miners and top man are employed.

G. Williams