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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: INDIANA MINE

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 109B

LOCATION: TOWNSHIP 23 S RANGE 16 E SECTION 34 QUARTER C
LATITUDE: N 31DEG 23MIN 10SEC LONGITUDE: W 110DEG 41MIN 56SEC
TOPO MAP NAME: LOCHIEL - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

ZINC
COPPER
LEAD
SILVER
GOLD

BIBLIOGRAPHY:

AZBM BULL. 191, INDEX OF MINING PROP. IN
SANTA CRUZ CO.
USBM FIELD NOTES
AZBM CARD FILE SANTA CRUZ CO.
ADMMR INDIANA MINE FILE
USGS BULL. 582, P. 321-346
BLM MINING DISTRICT SHEET 726

INDIANA MINE

SANTA CRUZ COUNTY

Duquesne Mine (file)

E&MJ Vol 165 No. 9 Sept. 1964 p. 134

Metal Mining & Processing Feb. 1965 p. 38

ABM Bull. 191, p- 78

USBM "U" File

ABM Card File Santa Cruz County

USGS Bull. 582, p. 321-346

BLM Mining District Sheet 726

MILS Sheet sequence number 0040230229

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA
Santa Cruz County

Washington Camp

Indiana Mine

*MILS # 109B
O-AAA
Indiana mine (file)*

MM 4187

SPHALERITE W/minor amt of

Chalcopyrite

INDIANA MINE

SANTA CRUZ

The Indiana mine, closed at present, expects to continue as soon as new exploratory budget is approved. GWI WR 12/7/73

Rosario Resources shut down the Indiana shaft development but continued drilling. GWI AR 73-74

Mine visit, the Indiana mine; no activity. GWI WR 9/1/76

Ray Roripaugh called to report that Superior Minerals was making a deal with Rosario on the Washington Camp property. GWI WR 9/23/76

Rosario Exploration is continuing drilling at Duquesne mostly near the Indiana shaft.
GWI QR 6/30/71

Mine visit - Rosario Exploration at Duquesne, deepening Indiana shaft. GWI WR 9/9/71

Rosario Exploration started sinking the Indiana shaft another 100' so that deeper exploration and drilling could be done. This appears to be one of their more favorable zones. GWI WR 9/71

Rosario Exploration continues exploration at the Indiana Shaft. GWI QR Oct-Dec '71

Rosario Exploration continues exploration at the Indiana Shaft. GWI QR Jan-March '72

Visited the office and mine of the Indiana mine of Rosario. Men working, no one around that could give out information. As M. Seaward was in Tucson and Manuel Majalca was at home. GWI WR 9/26/72

T. C. Mr. Don Bork, project manager for Rosario, who has replaced Mr. Mike Seaward. Mr. Seaward has been transferred to Canada. GWI WR 10/19/72

Ore is being shipped from the Washington Camp area by Rosario. KP Report 11/15/72 - 11/16/72

Rosario operations at Duquesne, Indiana Mine still doing exploration work. Report that UV industries is drilling near Harshaw. GWI WR 3/19/73

Indiana Mine

Field interview with Joe Wise, Rosario Exploration Company.

Rosario is continuing a drilling program from both the underground and the surface at the Indiana. Approximately 60,000 tons of ore have been blocked out by underground exploration and approximately an additional 60,000 tons have been found by recent surface drilling just south of the Simplot shaft dump. Rosario's present goal is to block out 500,000 tons of ore and then construct a 500 tpd mill. The report by Bob Lenon at the Tombstone ASMOA meeting on November 15, 1972, that Rosario was shipping ore from the Washington Camp area was apparently in error as no ore has been shipped since Rosario has been involved with the venture. KAP Report dated 6/18/73

Visited the Indiana Mine where the watchman said they were just drilling at the present time, but have plans for more holes to the south of the Indiana. One drill was working at the time of the visit. The company has 4 employees working besides the drill contractors crew. GWI WR 9/24/73

Mine visit to Duquesne Camp and talked with Rosario Exploration Geologists. Indiana mine working, Holland down, Rosario evaluating deal with Simplot. GWI WR 9-5-70

The Rosario Exploration Company has joined Simplot in the Duquesne Washington Camp project and have taken over the management of same. Present underground work is confined to the Indiana shaft area. GWI QR 10-1-70

Mine visit. Indiana Mine, Washington Camp & Duquesne Office Rosario Expl. GWI WR 11/22/71

Mine visit. Indiana Mine at Washington Camp. Working. GWI WR 3/9/72

Mine visit. Indiana mine, exploration continuing. Supv. Personal U.G. GWI WR 5/21/72

The Indiana Mine and also the headquarters office, only the miners were around. Mr. Seaward was in Tucson and Mr. Majalca was in Washington camp. It is my understanding that a contractor from Idaho will do some more contract work for the company at the Indiana Mine, but will have to verify that later. GWI WR 9/25/72

Mine visit - Indiana Mine, Washington Camp - Talked with Manuel Majalca and Mrs. Willis Rhea, wife of mine foreman for Simplot Co. GWI WR 11-18-67

New shaft at Indiana mine, down 50 feet, 7 employees, will start another shaft at Empire area soon. GWI WR 1-6-68

The J.R. Simplot Co. continued sinking their Indiana shaft. They were reported to have cut a station at the 100' level and found some ore. GWI QR 4-1968

Mine visit to Washington Camp - Indiana mine, Simplot Co. Will sink deeper as soon as Arthur Burns arrives with his shaft mucker. GWI WR 7-6-68

J.R. Simplot Co. of Boise, Idaho, is continuing work at the Indiana and Holland shafts in the Duquesne area of Santa Cruz County. Pay Dirt 4-28-69

At the Indiana, sinking of the Indiana shaft was started. This is supposed to be continued to the 200' level where another station will be cut. Drilling was being continued from the surface in the vicinity of the Indiana shaft. GWI QR 3-1969

The J.R. Simplot Company has about 28 people employed at the Holland and Indiana shafts in Duquesne and Washington Camp respectively, in Santa Cruz County. Pay Dirt 7-28-69

The Indiana shaft of the J.R. Simplot operations saw resumption of work with lateral development started on the 200' level. GWI QR 9-1969

The J.R. Simplot Company of Boise, Idaho, is continuing work at the Indiana mine at Washington Camp, south of Patagonia. Pay Dirt 11-1969

J.R. Simplot continues with development work at the Indiana and Holland mines. The new mine superintendent is Jim Scardina, and Russell Warren office manager. It appears that the company is thinking of building a flotation mill but the size has not been decided on. GWI QR 2-27-70

J.R. Simplot is still developing at the Holland and the Indiana mines. GWI QR 4-1-70

Visited Washington Camp where Simplot Mining has 26 men working underground at the Indiana mine, however, their Holland property is presently inactive. GWI QR 6-1970

The J.R. Simplot Co. remained active in the Duquesne area. Development work at the Holland was stopped, a new headframe was erected at the Indiana shaft and more effort is being directed here. GWI QR 6-1970

INDIANA MINE

SANTA CRUZ COUNTY

Mr. Manuel Majalca at Washington Camp. Indiana mine has been closed. He and his associates are looking for something else. GWI WR 1-7-67

Mine visit to Indiana mine - new headframe north of old one about 600' starting new shaft. Reported to be starting another shaft near Washington Camp - did not talk to anyone. GWI WR 11-11-67

Indiana mine - adjoining the Maine mine. Talked with a Spanish speaking employee on surface, apparently mechanic and hoistman. Two men underground working through shaft. GWI WR 7-3-65

A. H. Robinson, Patagonia, and Manuel Majalca, Washington Camp, operating the Indiana mine at Washington Camp, have restored the property to full production after a disastrous fire which burned the entire surface plant except the head frame.

Twelve men are now employed at the mine working at the 260-ft. level shipping two cars of lead-zinc-silver ore per week to the smelter. An 8 ft. vein has been opened at depth in the mine. E&MJ Oct. 1965 p. 137

Not active Oct. 1965. GWI

Visited Indiana mine - interviewed Manuel Majalca, hoistman. Operating & shipping to Deming Mill (Am Zn) GWI WR 11-8-65

Mine visit to the Indiana mine at Washington Camp. Mine has not operated for a few days. Only one carload of ore had been shipped the month of December 1965. Had field interviews with Armando Majalca, Carl Sandberg, and Fred Williams at Washington Camp. They leased the Indiana mine to Mr. Fowlkes. GWI WR 1-10-66

Visited the Indiana mine about 1 mile west of Washington Camp. 8 men employed. One man killed the following Friday. GWI WR 3-5-66

According to Mr. Sandberg, he and his partners have made a deal with J. R. Simplot. Simplot has taken over the whole camp and are operating the Indiana. The reasons for the operations are that the former operator was not properly insured when the recent fatality occurred. GWI Note 4-4-66

The Indiana mine at Washington Camp is shipping to Deming, New Mexico. Note: Found new road that Idaho Investment Co. has built to their property east of Patagonia. Simplot has put in some drill roads around Washington Camp - were reported to be drilling on a site southwest of the Camp. GWI WR 5-7-66

Telephone call to Ted Hanks, geologist, Simplot Co., 1644 Roller Coaster Rd. (887-4491). Co. still working at Washington Camp. The Indiana mine leased out. Other activity is of exploration nature. GWI WR 7-2-66

Active Mine List Oct. 1966 - 5 men - Manuel Majalca & Emilio Gonzales

Visited the Indiana mine. Manuel Majalca still shipping some lead, zinc to Deming. About 100 tons a month, 18 zinc, 3-4 lead, 1-2 copper, 6 oz. silver. GWI WR 11-5-66

- REFERENCE 1 F1 < ABGMT-USE FILE DATA >
- REFERENCE 2 F2 < USBM FILES, INDIANA MINE >
- REFERENCE 3 F3 < SCHRADER, F.C., 1915, USGS BULL. 582, p. 321-346 >
- REFERENCE 4 F4 < ADMR FILE DATA, INDIANA MINE >

L110 < (64) INDIANA MINING CORP. (1964-66) PEDRO GRAMILLO E. GONZALEZ, CARL SANDBERG AND FRED WILLIAMS, J.R. SIMPLOT CO.; 1 PATENTED CLAIM >

K2A < STUFF >

K5 < SILICIC VOLCANIC ROCKS TO WEST. ORE MINERALS OCCUR IN BUNCHES AND DISSEMINATIONS ALONG FAULT ZONE, OR AS REPLACEMENT BODIES IN LIMESTONE >

N5 < SEDIMENT BELT (2.5 MILES LONG AND 1.25 MILES WIDE) SURROUNDED BY IGNEOUS ROCKS WHICH ALSO FORM DETACHED MASSES AND DIKES WITHIN BELT >

N30 < SUPERGENE AND HYPOGENE ENRICHMENT >

- F5 < KEITH, S.B. 1975, ABM BULL. 191, p. 78 >
- F6 < ABGMT FILES, STANTON B. KEITH >
- F7 < BLM MINING DISTRICT SHEET 727 >
- F8 < SIMONS, F.S. 1974, USGS MAP I-762 (1:48000) >
- F9 < TENNEY, JAMES B. 1927-29, HISTORY OF MINING IN ARIZONA; ARIZONA BUREAU OF MINES, p. 293-300 >
- F10 < LEHMAN, NORMAN E. 1978, THE GEOLOGY AND PYROMETASOMATIC ORE DEPOSITS OF THE WASHINGTON CAMP-DUQUESNE DISTRICT, SANTA CRUZ COUNTY, ARIZONA; Ph.D. DISSERTATION, UNIVERSITY OF ARIZONA, p. 126-143 >

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < _____ > RECORD TYPE B20 < X, I, M > DEPOSIT NUMBER B40 < _____ >
 REPORT DATE G1 < 82, 0, 5 > INFORMATION SOURCE B30 < 1, 2 > FILE LINK IDENT. B50 < USBM-0040230229 >
 (YR. MO.)
 REPORTER(SUPERVISOR) G2 < CALDER, SUSAN R. > (last, first, middle initial) (last, first, middle initial)
 REPORTER AFFILIATION G5 < ABGMT > SITE NAME A10 < INDIANA MINE >
 SYNONYMS A11 < NASH MINE GROUP >

LOCATION

MINING DISTRICT/AREA A30 < WASHINGTON CAMP DISTRICT >
 COUNTY A60 < SANTA CRUZ > STATE A50 < AZ > COUNTRY A40 < U.S. >
 PHYSIOGRAPHIC PROV A63 < 1, 2 >
 DRAINAGE AREA A62 < 1, 5, 0, 5, 0, 3, 0, 1, > LOWER COLORADO LAND STATUS A64 < 4, 1, 1, > (1, 9, 7, 9, >
 QUADRANGLE NAME A90 < LOCHIEL > (1, 9, 5, 8, > QUADRANGLE SCALE A100 < 6, 2, 5, 0, 0, >
 SECOND QUAD NAME A92 < HARSHAW > (1, 9, 4, 8, > SECOND QUAD SCALE A91 < 2, 4, 0, 0, >
 ELEVATION A107 < 5, 6, 0, 0, > FT.

UTM ACCURACY GEODETC
 NORTHING A120 < 3, 4, 7, 2, 2, 5, 0 > ACCURATE (ACC) (circle) ESTIMATED EST < _____ > LATITUDE A70 < 3, 1, - 2, 3, - 1, 0, N >
 EASTING A130 < 5, 2, 8, 6, 3, 4 > LONGITUDE A80 < 1, 1, 0, - 4, 1, - 5, 6, W >
 ZONE NUMBER A110 < 1, 2 >

CADASTRAL
 TOWNSHIP(S) A77 < 0, 2, 3, S. > RANGE(S) A78 < 0, 1, 6, E. >
 SECTION(S) A79 < 34 >
 SECTION FRACTION(S) A76 < CENTER >
 MERIDIAN(S) A81 < GILA AND SALT RIVER >

POSITION FROM NEAREST PROMINENT LOCALITY A82 < 1/2 MILE NW OF WASHINGTON CAMP ON NORTH SIDE OF WASHINGTON GULCH >
 LOCATION COMMENTS A83 < WESTERN OF 2 MINE SHAFTS LOCATED BETWEEN KANSAS AND MAINE MINES >

* ESSENTIAL INFORMATION
 - ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

COMMODITIES PRESENT C10 < Zn, Pb, Au, Cu, Ag, ... >
PRE-MINERALS C30 < SPHALERITE, CHALCOPYRITE, GALENA, PYRITE >
COMMODITY SUBTYPES C41 < >
GEN. ANALYTICAL DATA C45 < ORE VALUES AVERAGED ABOUT 17% Zn, 3% Cu, 2% Pb, 4 OZ./TON Ag, MINOR Au >
COM. INFO. COMMENTS C50 < >

SIGNIFICANCE
MAJOR PRODUCTS MAJOR < Zn, Cu, Pb, Au, Ag, ... >
MINOR PRODUCTS MINOR < Ag, Pb, Au, ... >
POTENTIAL PRODUCTS POTEN < >
OCCURRENCES OCCUR < >

*PRODUCTION
PRODUCTION YES (circle) PRODUCTION SIZE SMALL (circle)
NON-PRODUCER PRODUCTION UND (circle) 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 < 1870's >
PRESENT/LAST OWNER A12 < ROSARIO EXPLORATION CO. (1973) >
PRESENT/LAST OPERATOR A13 < ROSARIO EXPLORATION CO. (1973) >
EXPL./DEV. COMMENTS L110 < OWNERS AND OPERATORS INCLUDED DUQUESNE MINING AND REDUCTION CO., CALLAHAN ZINC LEAD CO. (1941-43), NASH MINES (1956-57), ALVAREZ AND MATAJCA (1961) >

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S) C40 < SHEAR ZONE; REPLACEMENT >
DEPOSIT FORM/SHAPE M10 < DISSEMINATED AND IN BUNCHES IN SHEAR ZONE >
DEPTH TO TOP M20 < >
DEPTH TO BOTTOM M30 < >
DEPOSIT SIZE M15 < SMALL >
STRIKE M70 < >
DIRECTION OF PLUNGE M100 < >
DESC. COMMENTS M110 < >

DESCRIPTION OF WORKINGS

Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one)
DEPTH BELOW SURFACE M160 < 130 >
LENGTH OF WORKINGS M170 < >
DESC. OF WORK. COM. M220 < SHAFT AND OPEN CUT OPERATIONS. WORKINGS INCLUDED 130-FT VERTICAL SHAFT 75 FT. DRIFT ON 100 FT LEVEL, 45-DEGREE INCLINED WINZE STARTING FROM END OF 75 FT DRIFT AND EXTENDING OVER 100 FT, 30-FT DRIFT FROM 65-FT LEVEL OF WINZE >

GEOLOGY

*AGE OF HOST ROCK(S) K1 < EPERM >
*HOST ROCK TYPE(S) K1A < FINE-GRAINED LIMESTONE >
*AGE OF IGNEOUS ROCK(S) K2 < T.R.I.-JUR >
*IGNEOUS ROCK TYPE(S) K2A < RHYOLITIC, ALKALI RHYOLITIC, AND QUARTZ LATIC LAVA, TUFF, AND WELDED >
*AGE OF MINERALIZATION K3 < LGRET.-TERT. >
*PERT. MINERALS (NOT ORE) K4 < QUARTZ-GARNET GANGUE, TREMOLITE >
*ORE CONTROL/LOCUS K5 < N-S TRENDING FAULT CONTACT ZONE BETWEEN LIMESTONE TO EAST AND >
*TECTONIC SETTING N15 < WASHINGTON CAMP FAULT BLOCK >
*SIGNIFICANT LOCAL STRUCT. N70 < N-S TRENDING KANSAS FAULT >
*SIGNIFICANT ALTERATION N75 < PYROMETAMORPHOSED AND SILICIFIED LIMESTONE; SURFACE OXIDATION >
*PROCESS OF CONCL./ENRICH. N80 < METASOMATIC REPLACEMENT OF LIMESTONE AND SECONDARY ENRICHMENT >
*FORMATION AGE N30 < EPERM >
*FORMATION NAME N30A < CONCHA LIMESTONE >

GENERAL COMMENTS

GENERAL COMMENTS GEN < SEE ALSO: SIMPLOT MINE, KANSAS MINE, MAINE MINE >

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Indiana Mine Date March 3, 1965
District Duquesne District - Santa Cruz County Engineer Axel L. Johnson
Subject: Field Engineer's Report. Information from Fred Fowlkes

References: Report of Nov. 5, 1964

Number of Claims: 1 patented claim.

Owners: Carl Sandberg, 7425 N. Obregon Drive, Tucson &
Fred Williams, Jr., 2060 Yandes St., Indianapolis, Indiana

Lessee & Operator: Fred Fowlkes, Box 41, Patagonia, Arizona (Mr. Fowlkes reported that he is buying out the interests of Louise G. Miller and Dorothy A. Smith of Lordsburg, New Mexico).

Principal Minerals: Zinc, copper, lead, & silver.

Present Mining Activity: Stoping ore from the bottom of an inclined winze and shipping to the American-Peru Mining Co. mill at Deming, New Mexico. Production is about 140 tons per month at present with an increase in production planned. 9 men working, with operations on 2 shifts. Winze is reported to be down to a depth of 196 ft. and to be about 6' x 12' in cross section.

Ore Values: Last shipment ran viz:

Zinc	23.60%
Copper	4.38%
Lead	1.67%
Silver	4.75 oz.

amounting to a value of \$41.51 per ton

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Indiana Mine

Date Sept. 2, 1964

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Armando Majalca.

References Report of Mar. 4, 1964

Present Mining Activity Stopping ore from the bottom of an inclined winze, and shipping to the Peru Mining Co. mill at Deming, N. Mex. Production is about 50 tons per month. 4 men are working at the mine. Last shipment was made on Aug. 7.

Ore Values Reported by Mr. Majalca as follows:

Lead --- 2.5 %
Zinc --- 18 to 20 %
Copper - 3 to 4 %
Silver - 5 oz.

Marketing Same as Mar. 4, 1964 report.

Review of Operations Operators are continuing to sink the inclined winze (inclined 45d), mentioned in the Sept. 4, 1963 report, and shipping the ore removed from the winze. The winze is now down to a depth of 105 ft. on the incline, and has been following an ore chimney. Mr. Majalca reports that the winze, or ore stope, has increased considerably in size recently, and is now from 8 to 9 ft. in height, and 40 ft. in width. He states that the footwall is limestone and the hanging wall is garnet.

The ore is hoisted up the 45 degree inclined winze in a 1/2 ton bucket with an air tugger, and is dumped into a bin at the top of the winze, being at the end of the 75 ft. drift on the 100 ft. level. Ore from the bin is then dumped into a 1 ton bucket, and this bucket is trammed to the shaft and hooked on the shaft cable and hoisted to the surface. At the surface, it is dumped into an ore car and trammed a short distance to the surface ore bin. It is hauled to the Nogales loading ramp by Strong and Harris for shipment to Peru Mining Co.

Mine Workings

- 1 vertical shaft ---- 130 ft. deep
- 1 drift, 75 ft. long on the 100 ft. level.
- 1 drift from the 65 ft. level of the winze described below -- 30 ft. long.
- 1 inclined winze (incl. 45 deg.) starting from the end of the 75 ft. drift.

This winze is now down to a depth of 105 ft. on the incline, and is going ahead.

Additional Mr. Majalca reports that they have not received any lead-zinc subsidy yet from the General Services Administration, although they have been eligible from the start, have filled in the required applications, and their claims have not been turned down.

Holdings of Mr. Nash have been purchased by Carl Sandberg, 7425 N. Obregon, Tucson and Fred Williams, Jr., 2060 Yandes Street, Indianapolis, Indiana (2)

See complete report in the Nash Mines file.

ALJ MEMO Nov. 12, 1964

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Indiana Mine

Date Mar. 4, 1964

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Armando Majalca.

References Report of Sept. 4, 1963

Present Mining Activity Stoping out ore from bottom of inclined winze, and shipping ore to the Peru Mining Co. mill at Deming, N. Mex. Production is about 50 tons per month. 3 men working. Last shipment of ore was made to Deming on Feb. 4

Ore Values Reported by Mr. Majalca as follows:

Lead ----- 2.0 %
Zinc ----- 20.0 %
Copper ----- 3.0 %
Silver ----- 5 oz.

Now, the ore is all sulphides.

Marketing Peru Mining Co., Deming, N. Mex. charges \$ 5.00 per ton for milling, and pays for 85 % of the Zinc, and for 70 % of the copper. The charge for hauling the ore to the ramp N. of Nogales is \$ 2.75 per ton, and the railroad freight charge to Deming is \$ 5.66.

Visited Arizona Mine 2 men working.

ALJ WR 6/1/64

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ⁶ Indiana Mine Date Sept; 4, 1963
District Duquesne District, Santa Cruz Co. Engineer Axel L. Johnson
Subject: Field Engineers Report. Information from Armando Majalca.

References Report of March 6, 1963 and previous reports.

Present Mining Activity Sinking inclined winze (incl. 45 deg.) below the 100 ft. level, and shipping the ore removed from this winze. The winze is now down to a depth of 90 ft. The winze has followed an ore vein which is about 3 ft. wide, dipping at an angle of about 45 degrees. The size of the winze is about 25 ft. long x about 4 ft. in width. Consequently, about 70 to 75 % of the material removed from the winze has been ore.

Ore Values Reported by Mr. Majalca as follows:

Lead	---	18.0	4.5 %
Zinc	-----		18.0 %
Copper	-----		5.0 %
Silver	-----		8 oz.

Marketing Facilities Operators are shipping the ore to the Peru Mining Co. mill at Deming, N. Mex. The last shipment was made the first week in August.

Active October 1963

Rafael Murillo, Montezuma Hotel, Nogales - in regard to lead-zinc subsidies for Indiana Mine (A. Majalca & A. Alvarez). Mr. Murillo informed field engineer that the Government will pay them subsidies from April 1, 1962 to date (1961 & 1st quarter of 1962 was disallowed). Delay was caused by sending application back to be certified.

ALJ Weekly Report Jan 11, 1964



DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Indiana Mine

Date March 6, 1963

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Alvaro Álvarez & personal visit.

References Report of Sept. 5, 1962 and previous reports.

Principal Minerals Zinc, copper, lead, and silver

Present Mining Activity Sinking winze(incl) below the 100 ft. level, and shipping the ore removed from the winze. 3 men working. Production about 60 tons per month.

Ore Values Reported by Mr. Alvarez as follows:

Zinc	---	22.0 %
Lead	---	4.0 %
Copper	---	5.0 %
Silver	---	4.0 oz.

Marketing Facilities Operators are shipping the ore to the Peru Mining Co. mill at Deming, N. Mex. The last shipment was made on Feb. 16, and operators expect to make another shipment on March 11.

Present Mining Operations The drift which was started from the bottom of the 65 ft. winze below the 100 ft. level(as reported in the Sept. 5, 1962 report) was driven to a length of 30 ft. and then abandoned when it hit wall rock. The inclined winze was then continued, and this winze is now down to a depth of 80 ft. The ore vein at that depth is about 4 ft. wide.

The ore is hoisted up the 65 degree inclined winze in a 1/2 ton bucket with an air tugger, and is dumped into a bin at the top of the winze, being at the end of the 75 ft. drift on the 100 ft. level. Ore from the bin is dumped into a 1 ton bucket, and the bucket is trammed to the shaft and hooked on the shaft cable and hoisted to the surface. At the surface, it is dumped into an ore car and trammed a short distance to the surface ore bin. It is hauled to the Nogales loading ramp by Strong and Harris for shipment to Peru Mining Co.

Mine Workings

- 1 vertical shaft ---- 130 ft. deep
- 1 drift, 75 ft. long on the 100 ft. level.
- 1 drift from the 65 ft. level of the winze described below, ---- 30 ft. long.
- 1 inclined winze about 80 ft. on the incline, starting from the end of the 75 ft. drift. Winze is inclined about 65 degrees.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Indiana Mine

Date Nov. 9, 1961

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Alvaro Alvarez.

References Report of May 4, 1961

Principal Minerals Zinc, copper, lead, and silver

Present Mining Activity Sinking a winze below the 100 ft. level. Hoisting and shipping the ore removed from the winze. 1 man (Alvarez) working full time, and 1 man (Majalca) working part of the time. Production about 60 tons per month.

Ore Values Reported by Mr. Alvarez to be viz:

Zinc -- 22.0 %
Lead -- 9.1 %
Copper - 5.95 %
Silver - 11 oz.

Marketing Facilities Operators are shipping the ore to the Peru Mining Co. (American Peru Mining Co.) mill at Deming, N. Mex. According to Mr. Alvarez, they will be paid for the zinc, as well as the copper, lead and silver. The first shipment to this mill was made last Thur. Nov. 2, and no returns have been received as yet. Shipment was 60 tons of the analysis shown above. Previously, the ore had been trucked to the Trench mill for milling.

Present Mining Operations The winze, being sunk, is about 6 ft. x 15 ft., and is inclined about 65 degrees to the SW. It is sunk below the 100 ft. level, and about 75 ft. SW of the shaft. Winze is now down to a depth of about 50 ft., and operators plan to sink an additional 20 ft. to a depth of 70 ft., and then drift SE and NW on the ore vein. The winze is sunk in the ore vein, which is about 6 ft. wide. Consequently, nearly all the material removed from the winze is shipping grade ore.

This property active Feb. 1962 - 2 men working.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Indiana Mine

Date May 4, 1961

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Alvaro Alvarez and personal visit.

References Reports of July 12, 1957 and March 15, 1957.

Location Near Washington Camp.

Number of Claims 1 patented claim.

Owners Nash Mines, 406 Nash Bldg., Austin, Texas.

Lessees & Operators Alvaro Alvarez, Washington Camp
Armando Majalca, " "

Principal Minerals Zinc, Copper, Lead, Silver

Present Mining Activity Sinking a winze below the 100 ft. level (Mr. Alvarez calls it the 115 ft. level). Hoisting and shipping the ore removed from the winze. 1 man (Alvarez) working full time. 1 man (Majalca) working part of the time. Production from 20 to 30 tons per month. Ore shipped to the Trench mill for concentration.

Ore Values Reported by Mr. Alvarez to be viz:

Zinc --- 21 %
Copper -- 6 %
Lead --- 5 %
Silver --11 oz.

Milling and Marketing Facilities Ore is being sent to the Trench mill for milling. Hauling is done by Strong and Harris.

Mine Workings 1 vertical shaft -- 100 ft. deep (Mr. Alvarez says 115 ft.)
About 400 ft. of drifts on the 100 ft. level.

Present Mining Operations Mr. Alvarez reports that they are sinking a winze below the main level, and that the winze is now 35 ft. deep. He reports that the winze is sunk in an ore lens about 5 1/2 ft. wide, nearly all of the material removed from the excavation being shipping ore. He reports 52 tons being shipped to the Trench mill on March 24, and he states that they now have about 40 tons of broken ore ready to be shipped, and will accumulate another 15 tons before making the next shipment. He states that he is working in the mine full time, and that his partner, Armando Majalca, is working part time (evenings and week ends), as he is employed as a boss at the Flux Mine.

Active October 1961

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Indiana Mine

Date July 12, 1957

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Mine Report. Information from D. C. Gilbert, Nash Mines. No visit.

References Report of Mar. 15, 1957

Location Near Washington Camp.

Number of Claims 1 patented claim.

Owners Nash Mines, 406 Nash Bldg., Austin, Texas.

Lessees & Operators Peter Granillo, Washington Camp (note change from last report.)

Principal Minerals Copper and Zinc.

Present Mining Activity Mining ore and shipping to the Trench mill for milling.
Production from 50 to 60 tons per month. 4 men working.

Ore Values Reported by Mr. Gilbert as Copper 6%; Zinc 12%; Lead 1 to 2%.

Milling and Marketing Fac. Shipping to the Trench mill.

Mine Workings 1 vertical shaft --- 100 ft. deep.
400 ft. of drifting on the 100 ft. level.

Present Mining Operations Operators are doing underhand stoping below the 100 ft.
level, the only level in the mine.

Proposed Plans Future operating plans will depend on the continuation of the
present milling facilities.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Indiana Mine ✓

Date March 15, 1957 ✓

District Duquesne District -- Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Mine Report. Personal Visit & Information from Manuel Majalca, Jr., Foreman.

Location Near Washington Camp.

Number of Claims 1 patented claim.

Owners Nash Mines, ✓ 406 Nash Bldg., Austin, Texas.

Operators Same as above.

Officers ✓ D. C. Gilbert, Manager, Patagonia, Ariz.
Manuel Majalca, Jr., Mine Foreman.

Principal Minerals Copper & Zinc.

Number of Men working 7

Production Rate About 100 tons per month. Ore shipped to the A. S. & R. mill at
Deming, N. Mex.

Ore Values About 6 % Copper and 12 % Zinc.

Present Operations About 1/2 explorations and development and 1/2 stoping in small
stopes.

Past Work Started work at the mine in Jan. 1956. Put up headframe on old 91 ft.
vertical shaft. Retimbered the old shaft. Drifted north and south from the shaft.

References None.

August 19, 1942

W

MEMORANDUM

INDIANA MINE

To: Director, Dept. Mineral Resources
From: George A. Ballam

This property is now being operated by Sherman and Newcomer Jr., but the latter is expecting to be called to the service at any time. Newcomer Sr., and Cummings are no longer working. Sherman has been taking out ore on a small scale, not more than ten tons in the past months since his partners left. He has a new partner in mind, and wishes to apply for a B loan. I instructed him re material to get together to support application.

Geo



SURVEY OF OPERATING MINES

DEPT. MINERAL RESOURCES
RECEIVED
JUN 13 1942
PHOENIX, ARIZONA

INDIANA

To: Director, Dept. Mineral Resources
From: George A. Ballam

Washington Dist.
June 10, 1942

24

✓ The Indiana mine is located about $1\frac{1}{2}$ miles west of Washington Camp. E. E. Sherman and three associates are drifting on the 40' level, hauling the ore to the Duquesne mill of Callahan Lead-Zinc, Co. At present the ore assays about 20% zinc and 4% copper.

These men are protesting the non-receipt of premium payments. The difficulty is of a complex nature. First, Callahan is itself, a lessee, the property being owned by one named Bird, who objects to ore from off the property being milled unless he can participate in the premium price; Second, Callahan originally had 100% quota which was successively reduced until at present it is believed to be a zero quota; these conditions, although being remedied, have led to a delay, or a failure, to receive premium payments by the operators.

George A. Ballam

DEPARTMENT OF GENERAL RESOURCES

News Items

Date 10/24/42

Mine INDIANA MINE ✓

Location WASHINGTON CAMP VIA PATAGONIA

Owner - NEWCOMER LEASE ✓

Address NOGALES -

LEASED TO

Operating Co. RAY L GLASSBROOK ✓

Address Box 877

AND 3 PARTNERS - E SANDAU

Pres. CARL REUTERSHAW ✓

Genl. Mgr. & EARL D SHERMAN ✓

Mine Supt.

Mill Supt. 4 MEN.

Principal Metals PL & ZN. ✓

Men Employed HAVE SHIPPED 3 CARS

Production Rate TO CALLAHAN ZINC-LEAD

Mill, Type & Capacity MILL - 25% ↑

COMBINED METAL

Power, Amt. & Type (ARIZ. CORP)

Signed J.R.C.

(Over)

DEPARTMENT OF MINERAL INDUSTRIES

Present Operations
Name of Mine
Date

Mine
Location

New Work Planned
Owner
Address

Operating Co.
Address

Misc. Notes

CONSIDERING TAKING LEASE
ON PART OF EMPIRE GROUP
AT PARKER - from -
ROYER & HARRIETT

Principal Metals

Men Employed

Production Rate

Mill Type & Capacity

Power Cost & Type

Signed