



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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10/09/97

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: ILLINOIS

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 66E

LOCATION: TOWNSHIP 24 S RANGE 16 E SECTION 2 QUARTER W2
LATITUDE: N 31DEG 22MIN 14SEC LONGITUDE: W 110DEG 41MIN 14SEC
TOPO MAP NAME: LOCHIEL - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

ZINC
COPPER
LEAD
SILVER
GOLD

BIBLIOGRAPHY:

KEITH, S.B., 1975, AZBM INDEX OF MINING PROP.
IN SANTA CRUZ CO., P. 78
AZBM CARD FILE SANTA CRUZ CO.
ADMMR ILLINOIS MINE FILE
TENNEY, J.B., 1927-29, HISTORY OF MINING IN
ARIZONA, P. 293-300

ILLINOIS MINE

SANTA CRUZ COUNTY

Duquesne Mine (file)
Nash Mines (file)

ABM Bull. 191, p. 78

ABM Card File - Santa Cruz County

Tenney, J. B. 1927-29 - History of Mining in Arizona p. 293-300

MILS Sheet sequence number 0040230228

ILLINOIS MINE

SANTA CRUZ COUNTY

James V. Marino, Washington Camp, Arizona, has leased the Bonanza, Illinois and Estella Louise mines in the Duquesne district of Santa Cruz County, Arizona, from the owner, Nash Mines, Austin, Texas. Since work was started the Bonanza workings have been dewatered and some repair work completed. At present a raise is being driven from the 235 ft. level in an attempt to develop ore in that area. A crew of four men is employed.
Mining World August 1961 p. 47

The holdings of Mr. Nash at Washington Camp were purchased by Mr. Carl Sandberg, 7425 N. Obregon Dr., Tucson and Fred Williams, Jr., 2060 Yandes Street, Indianapolis, Indiana (2)
Memo ALJ 11-12-64

Duquesne Mine (file)

Nash Mines (file)

- REFERENCE 1 F1 < ABGMT- '58 > LE DATA
- REFERENCE 2 F2 < USBM FILES, ILLINOIS MINE
- REFERENCE 3 F3 < ADMR FILE DATA, ILLINOIS MINE
- REFERENCE 4 F4 < BLM DISTRICT MINING SHEET 727

L110 < IN 1899. OWNERS AND OPERATORS INCLUDED DUQUESNE MINING AND REDUCTION CO., NASH MINES (1957), D.C. GILBERT MINING CO. (1958), MAR-PAK CORP. (1959), JAMES V. MARINO (1961), CARL SANDBERG AND FRED WILLIAMS (1964); WORKED BY CHLORIDERS PRIOR TO 1900 >

M110 < BUNCHES IN FAULT ZONE >

K4 < SILICATES >

K5 < BETWEEN PYROMETAMORPHOSED LIMESTONE AND TRI-JUR VOLCANICS >

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 >

N15 < WEST AND DOWNTHROWN DUQUESNE FAULT BLOCK TO EAST >

N70 < HIGH-ANGLE FAULTING >

N75 < TO MARBLE >

N80 < INTRUSION OF VOLCANICS; PARTIAL OXIDATION >

F5 < KEITH, S.B. 1975 ABM BULL. 191 p. 78 >

F6 < ABGMT FILES, STANTON B. KEITH >

F7 < TENNEY, JAMES B. 1927-29, HISTORY OF MINING IN ARIZONA; ARIZONA BUREAU OF MINES, p. 293-300 >

F8 < SIMONS, F.S. 1974 USGS MAP I-762 (1:48000) >

F9 < 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, MAPS >

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < > RECORD TYPE B20 < X, I, M > DEPOSIT NUMBER B40 < >

REPORT DATE G1 < 82.00 > INFORMATION SOURCE B30 < L2 > FILE LINK IDENT: B50 < USBM-CO40230228 >

REPORTER(SUPERVISOR) G2 < CALDER, SUSAN R. > (last, first, middle initial)

REPORTER AFFILIATION G5 < ABGMT > SITE NAME A10 < ILLINOIS MINE >

SYNONYMS A11 < >

LOCATION

MINING DISTRICT/AREA A30 < WASHINGTON CAMP DISTRICT >

COUNTY A60 < SANTA CRUZ > STATE A80 < AZ > COUNTRY A40 < U.S. >

PHYSIOGRAPHIC PROV. A63 < L2 >

DRAINAGE AREA A62 < 15050301.1. LOWER COLORADO >

QUADRANGLE NAME A90 < LOCHIEL > (1958)

SECOND QUAD NAME A92 < DUQUESNE > (1948)

ELEVATION A107 < 5450 FT. >

LAND STATUS A64 < OIL & G. (1979) >

QUADRANGLE SCALE A108 < 62500 >

SECOND QUAD SCALE A98 < 24000 >

UTM

NORTHING A120 < 3470525 >

EASTING A130 < 529750 >

ZONE NUMBER A110 < 12 >

ACCURACY OF ORIGINATOR

ACCURATE ACC (circle)

ESTIMATED (EST) USED USBM FILES, BLM DISTRICT MINING SHEET 727

GEODETC

LATITUDE A70 < 31-22-14 N >

LONGITUDE A80 < 110-41-14 W >

CADASTRAL

TOWNSHIP(S) A77 < 0245 >

SECTION(S) A79 < 02 >

SECTION FRACTION(S) A76 < CENTER OF W2 >

MERIDIAN(S) A81 < GILA AND SALT RIVER >

POSITION FROM NEAREST PROMINENT LOCALITY A82 < 1/2 MILE SE OF WASHINGTON CAMP >

LOCATION COMMENTS A83 < ADJACENT ON SW TO BONANZA MINE AND ON NE TO DUQUESNE MINE >

ESSENTIAL INFORMATION:
ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

COMMODITIES PRESENT C10 < Pb, Cu, Au, Ag >
ORE MINERALS C30 < SPHALERITE, CHALCOPYRITE, GALENA, PYRITE >
COMMODITY SUBTYPES C41 < >
GEN. ANALYTICAL DATA C43 < ORE VALUES AVERAGED ABOUT 9% Zn, 4% Cu, 2% Pb, 4 OZ./TON Ag >
COM. INFO. COMMENTS C50 < >

SIGNIFICANCE

MAJOR PRODUCTS MAJOR < Zn, Cu >
MINOR PRODUCTS MINOR < Ag, Pb >
POTENTIAL PRODUCTS POTEN < >
OCCURRENCES OCCUR < Au >
NON-PRODUCER
MAIN COMMODITIES PRESENT C11 < >
MINOR COMMODITIES PRESENT C12 < >
OCCURRENCES OCCUR < >

*PRODUCTION

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

*STATUS

EXPLORATION OR DEVELOPMENT

STATUS AND ACTIVITY A20 < 4 >
STATUS AND ACTIVITY A20 < >

DISCOVERER L20 < >
YEAR OF DISCOVERY L10 < LATE 1800S > NATURE OF DISCOVERY L30 < B > YEAR OF FIRST PRODUCTION L40 < > YEAR OF LAST PRODUCTION L45 < 1959 >
PRESENT/LAST OWNER A12 < ROSARIO EXPLORATION CO. (1973) >
PRESENT/LAST OPERATOR A13 < >
EXPL./DEV.COMMENTS L110 < PROPERTY COMPRISES 1 FRACTIONAL PATENTED CLAIM; PART OF W.C. DAVIS MINE GROUP (POCAHONTAS, BONANZA, PLUTO, AND ILLINOIS MINES) PURCHASED BY GEORGE WESTINGHOUSE >

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S) C40 < REPLACEMENT-SHEAR ZONE >
DEPOSIT FORM/SHAPE M10 < BUNCHES, DISSEMINATIONS, ORE PIPES >
DEPTH TO TOP M20 < > UNITS M21 < > MAXIMUM LENGTH M40 < 8 > UNITS M41 < FT >
DEPTH TO BOTTOM M30 < > UNITS M31 < > MAXIMUM WIDTH M50 < 6 > UNITS M51 < FT >
DEPOSIT SIZE M15 < SMALL > M15 < MEDIUM > M15 < LARGE > (circle one) MAXIMUM THICKNESS M60 < > UNITS M61 < >
STRIKE M70 < > DIP M80 < >
DIRECTION OF PLUNGE M100 < > PLUNGE M90 < >
DESC. COMMENTS M110 < NEARLY VERTICAL ORE PIPE EXTENDING ABOVE AND BELOW 235-FT MINE LEVEL AND AVERAGING 5 FT BY 8 FT IN SIZE; MINERALIZATION IS DISSEMINATED AND IN IRREGULAR >

DESCRIPTION OF WORKINGS

Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one)
OVERALL LENGTH M190 < > UNITS M191 < >
DEPTH BELOW SURFACE M160 < > UNITS M161 < >
OVERALL WIDTH M200 < > UNITS M201 < >
LENGTH OF WORKINGS M170 < > UNITS M171 < >
OVERALL AREA M210 < > UNITS M211 < >
DESC. OF WORK. COM. M220 < DEVELOPMENTS INCLUDED ABOUT 600 FT OF OLD DRIFTS CONNECTED WITH BONANZA MINE; MAIN LEVEL OF ILLINOIS MINE CONNECTS WITH 235-FT. LEVEL OF BONANZA MINE >

GEOLOGY

AGE OF HOST ROCK(S) K1 < EPERM >
HOST ROCK TYPE(S) K1A < SILTY MARBLE, CHERTY LIMESTONE >
AGE OF IGNEOUS ROCK(S) K2 < TRI-JUR >
IGNEOUS ROCK TYPE(S) K2A < VOLCANICS, RHYOLITE AND TRACHYTE TUFFS OF DUQUESNE VOLCANICS >
AGE OF MINERALIZATION K3 < LCRET-TERT >
PERT. MINERALS (NOT ORE) K4 < GANGUE CONSISTS OF GARNET SILICATED LIMESTONE QUARTZ CALCIUM >
ORE CONTROL/LOCUS K5 < IRREGULAR DEPOSITS AND ORE PIPES ALONG N-S TRENDING FAULT CONTACT >
MAJ. REG. TRENDS/STRUCT. N5 < MINERAL DEPOSITS OF WASHINGTON-DUQUESNE AREA OCCUPY A LIMESTONE- >
TECTONIC SETTING N15 < N-S TRENDING BONANZA FAULT ZONE; WASHINGTON CAMP FAULT BLOCK TO >
SIGNIFICANT LOCAL STRUCT. N70 < LIMESTONE NEAR CONTACT SHOWS EVIDENCE OF SHEETING OR INCONSPICUOUS >
SIGNIFICANT ALTERATION N75 < COARSELY CRYSTALLINE LIMESTONE HAS BEEN CONTACT METAMORPHOSED >
PROCESS OF CONC./ENRICH. N80 < METASOMATIC REPLACEMENT AND SECONDARY ENRICHMENT FOLLOWING >
FORMATION AGE N30 < EPERM >
FORMATION NAME N30A < EPITAPH DOLOMITE >
SECOND FM AGE N35 < >
SECOND FM NAME N35A < >
IGNEOUS UNIT AGE N50 < >
IGNEOUS UNIT NAME N50A < >
SECOND IG. UNIT AGE N55 < >
SECOND IG. UNIT NAME N55A < >
GEOLOGY COMMENTS N85 < >

GENERAL COMMENTS

GENERAL COMMENTS GEN < >

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Illinois Mine

Date Jan. 27, 1960

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from K. L. Erickson.

Mar-Pak Corporation suspended operations on Dec. 31, 1959. Mine is now idle.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine " Illinois Mine

Date Dec. 2, 1959

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from Fernando De La Ossa. Not visited.

References Report of Oct. 7, 1959 & previous reports.

Lessees & Operators Mar-Pak Corporation

Principal Minerals Lead, Zinc, Copper & Silver.

Present Mining Activity Mining ore and shipping same to the Sahuarita mill for milling.
10 men working --- 6 on day shift and 4 on night shift. Production about 20 tons per day.

Milling & Marketing Facilities The ore is trucked to Patagonia, and from there shipped by rail to the Sahuarita mill, operated by McFarland & Hullinger. The zinc concentrates are then shipped to Amarillo, Texas, and the copper concentrates are stockpiled.

Feb. 18, 1960

Axel L. Johnson

Mine closed January 1, 1960

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Illinois Mine

Date Oct. 7, 1959

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from A. A. Green, chief clerk

References Reports of June 4, 1959 and Sept. 18, 1959

Lessees and Operators : Mar-Pak Corporation

Principal Minerals Lead, zinc, copper and silver.

Present Mining Activity Mining ore and stockpiling same. 10 men working ---
6 on day shift and 4 on night shift. Production about 20 tons per day.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Illinois Mine

Date June 4, 1959

District Duquesne District, Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Edward Eisenbrey. No visit.

References Report of Dec. 4, 1958

Location T 24 S -- R 16 E. Unsurveyed. About 1 1/2 miles S. of Washington Camp.

Number of Claims One patented claim (fractional). This adjoins the Bonanza.

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

Lessees & Operators Mar-Pak Corporation, Mining Division, Painesville, Ohio.
✓ Joe Martin, Pres., Painesville, Ohio.
✓ O. D. Terry, Vice-Pres., 2644 S. Alvernon, (Box 15012, Tucson
✓ Robert A. Fogle, Mines Manager, 3808 E. 25th St., Tucson.
✓ Edward Eisenbrey, Geologist, Washington Camp.

Principal Minerals Lead, Zinc, Copper, Silver.

Present Mining Activity Exploration by means of long hold drilling. Operations in conjunction with the Bonanza Mine. 9 men working in the Bonanza & Illinois.

Ore Values Following assays from samples taken on the long hole drilling done on the Illinois are as follows:

- | | | | | | | | | |
|-----|--------|-----------|--------|----------|------|---------|------|---------|
| (1) | Silver | 34.0 oz.; | Copper | 3.72 %; | Lead | 12.8 %; | Zinc | 16.5 %. |
| (2) | Silver | 34.5 oz.; | Copper | 2.80 %; | Lead | 12.7 %; | Zinc | 15.4 %. |
| (3) | Silver | 5.7 oz.; | Copper | 11.86 %; | Lead | 1.0 %; | Zinc | 15.9 %. |

Milling & Marketing Facilities Same as for the Bonanza. See report for the Bonanza.

Mine Workings The main level on the Illinois Mine is the 235 ft. level. This is connected with the Bonanza Mine. All the ore mined will be trammed through the 235 ft. level of the Bonanza, and hoisted up the Bonanza shaft.

JULY 9, 1958

SANTA CRUZ COUNTY

DUQUESNE MINING DIST.

✓
ILLINOIS MINE

✓
See: Report on the DUQUESNE MINING

AND REDUCTION COMPANY

By- Franklin Wheaton Smith
April 15, 1916

In- "DUQUESNE" (file)

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Illinois Mine Date December 4, 1958
District Duquesne District, Santa Cruz Co. Engineer Axel L. Johnson
Subject: Mine Report. Information from D. C. Gilbert.

References: Report of July 12, 1957.

Number of Claims: 1 patented claim (fractional)

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

Lessee & Operator: D. C. Gilbert, Washington Camp

Principal Minerals: Copper, lead, zinc, silver

Present Mining Activity: Mining ore for milling at the Trench mill. Operations started on Nov. 1 and 170 tons were produced in November. This is expected to be increased to 250 tons per month soon. 5 men working, day shift - 6 days per week.

Geology & Mineralization: Mr. Gilbert reports a nearly vertical pipe of ore, extending both above and below the 235 ft. level, being about 4' x 8' in size above the level and 6' x 8' below the level, with the vertical extent not yet determined. This pipe is on the contact between the limestone and the garnet and about 50 ft. from the granite porphyry intrusion.

Ore Values: Ore values reported by Mr. Gilbert viz:

Copper 3.9%; Lead 2.0%; Zinc 16.0%; Silver 6 oz.,
based on first 85 tons shipped.

Milling & Marketing Facilities: Ore is trucked to the Trench mill by Strong & Harris at \$1.25 per wet ton. Ore is milled at the Trench mill by Nash and McFarland and paid for at the same schedule of rates formerly used by the A.S. & R. Co.

Present Mining Operations: Stopping is being done from the 235' level. The ore is trammed through the Bonanza 235' level, and hoisted up the Bonanza mine shaft.

Proposed Plans: Exploration work by means of diamond or long hole drilling is being considered.

Additional Remarks: Mr. Gilbert also has a lease on the Estelle-Louise claim, which adjoins the Illinois on the south side.

Phoenix, Arizona
October 4, 1957

TO: ARIZONA LEAD-ZINC PRODUCERS

The Emergency Lead-Zinc Committee filed a formal petition with the Tariff Commission on September 27th and it needs the support of all producers of these metals.

Mr. C. E. Schwab, Chairman of this industry committee has requested the information listed on the questionnaire below, which we ask you to fill in and return to us as soon as possible. Your very prompt answer is urged because the information must be assembled and forwarded for use within the next few weeks.

We thank you for your immediate attention.

Yours very truly,

Frank P. Knight

FRANK P. KNIGHT, Director

LEAD-ZINC QUESTIONNAIRE

October 8 1957.

Do you approve of the Emergency Lead-Zinc Committee's seeking relief for the lead-zinc industry and has it your authorization to speak for you? Yes

What Arizona Mines and Mills in the lead-zinc class do you control?

(1) Bonanza, Estrella, Holland, Maine, Indiana & Venados mines.

(2) No mill.

Which ones are operating? (1) None (2) _____

If not operating, when shut down? (1) Sept. 30, 1957 (2) _____

Number employed, prior to shut-down, in mine, mill or sections thereof producing lead or zinc ores? (1) 20 employees (2) _____

Number so employed on January 1, 1957? (1) 20 leasers (2) _____

Number so employed on October 1, 1957? (1) 2 (2) _____
Oct. 15, 1957 → 0

Remarks _____

RECEIVED
OCT 10 1957
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

Nash Mines

Company

By: _____

Signature

Please fill in NOW, tear off, and mail to:

Arizona Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Illinois Mine Date July 12, 1957
District Duquesne District, Santa Cruz Co. Engineer Axel L. Johnson
Subject: Mine Report. Information from D. C. Gilbert, Manager, Nash Mines.

References None. New project.

Location T 24 S - R 16 E. Unsurveyed. About 1 1/2 miles S. of Washington Camp.
Just S. of the Bonanza Mine, adjoining same.

Number of Claims 1 patented claim (fractional).

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

Operators Same as above.

Principal Minerals Copper, Lead, Zinc, Silver.

Present Mining Activity Mining ore and shipping to the Trench Mill. Production
about 200 tons per month. 8 men working.

Ore Values Ore values reported by Mr. Gilbert as follows: Copper 4.16 %;
Lead 2.85 %; Zinc 5.11 %; Silver 3.32 oz.

Milling & Marketing Fac. Ore trucked to the Trench mill for milling.

Old Mine Workings Reported by Mr. Gilbert as having about 600 ft. of old drifts,
connected with the Bonanza Mine, adjacent to same.

Present Mining Operations Company is making a Raise, and sinking a Winze from a
level connecting up with the Bonanza 235 ft. level. The ore obtained from these
operations is trammed through the Bonanza Mine level, and hoisted up the Bonanza shaft.
Operations were started in June, 1957.

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