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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: JANUARY & NORTON MINING GROUP

ALTERNATE NAMES:
PADRES
BLUE FLAG AND RED BIRD
UNCLE GEORGE

SANTA CRUZ COUNTY MILS NUMBER: 58A

LOCATION: TOWNSHIP 22 S RANGE 16 E SECTION 32 QUARTER SE
LATITUDE: N 31DEG 28MIN 21SEC LONGITUDE: W 110DEG 43MIN 45SEC
TOPO MAP NAME: LOCHIEL - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
ZINC
LEAD
SILVER
STONE DIMENSION
GOLD
MANGANESE

BIBLIOGRAPHY:
INDEX TO MINING PROP. IN SANTA CRUZ CO.
AZBM CARD FILE SANTA CRUZ CO.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JANUARY MINE

SANTA CRUZ COUNTY
Hardshaw Mining Dist.

USGS Bull. 582 P. 253-254

Metal Mining & Processing Dec. 1964 p. 36

Hardshell Mine (file)

ABM Bull. 191, Pg. 58, T22S, R16E, Sec. SE 1/4 32 & T23S, R16E, Sec. NE 1/4 5 Protracted.

ABM Bull. 191, p. 59

USGS PP 658-E

Harshaw 7.5 (included in file)

TRENCH MINE

S...TA CRUZ COUNTY

Production from the Trench* mine, Harshaw district, Santa Cruz Co., reported to the U.S. Bureau of Mines:

Production reported during years: 1893, 1897, 1918, 1920-21, 1923-24, 1926, 1928-30, 1936-45, 1965

Cumulative Totals: 204,807 tons of ore treated, yielding:

936,428	pounds of copper
43,754,360	pounds of lead
28,774,110	pounds of zinc
1,774,675	ounces of silver
519	ounces of gold

Cumulative value of silver = $822,245
" " " gold = 17,649

* The Trench mine has been known as the Josephine

M N Greeley
8/3/83

JANUARY MINE SANTA CRUZ COUNTY

Mr. McFarland reports that he is now pumping out the water in the Trench Mine and the January Mine in preparation for starting work on the 500 ft. level (bottom level) of the January mine. He estimated that it will take about 6 weeks to dewater these mines to below the 500 ft. level of the January. These mines were last worked by AS&R about 1949. ALJ 9-2-64

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* GENERAL REFERENCES

REFERENCE 1 F1 < ABGMT-USBM FILE DATA

REFERENCE 2 F2 < USBM FILES, TRENCH MINE

REFERENCE 3 F3 < SCHRADER, FRANK C., 1915, MINERAL DEPOSITS OF THE SANTA RITA AND PATAGONIA MOUNTAINS, ARIZONA; USGS BULLETIN 582, p. 253-254 ✓

REFERENCE 4 F4 < KARTCHNER, WAYNE E., 1944, THE GEOLOGY AND ORE DEPOSITS OF A PORTION OF THE HARSHAW DISTRICT, PATAGONIA MOUNTAINS, ARIZONA; PhD. THESIS, UNIVERSITY OF ARIZONA, p. 88-90

C30 < TETRAHEDRITE; FREIBERGITE; PYRITE; ALABANDITE >

L110 < FARRELL AND MORRISON, AMERICAN SMELTING AND REFINING CO., J. NASH AND E. MCFARLAND, HOY AND COOMBS, TRENCH CONSOLIDATED MINING CO., C.B. WILSON, A.D. SYDENHAM, TRENCH MINING CO., GOLD CANYON MINING CO. (S.F. COX, 1937), F. AHLBERG; JOSEPHINE DEPOSIT WAS DISCOVERED IN THE MID-1870'S BUT WAS NOT WORKED UNTIL ABOUT 1885 >

M110 < DEPTH OF 450 FT.; 2 PRINCIPAL VEINS, TRENCH AND JOSEPHINE, ARE SUB-PARALLEL AND ARE LINKED BY THE CROSS VEIN WHICH STRIKES NE AND DIPS SE >

K4 < DERIVED FROM PYRITE >

N15 < AREA >
N70 < IN PLACES >

N85 < CONGLOMERATE; WIDTH AND GRADE OF TRENCH VEIN DIMINISH TOWARD SE >

F5 < ADMR FILES, TRENCH MILL >
F6 < ABGMT CLIPPINGS FILE, TRENCH MINE >
F7 < SIMONS, FRANK S., 1974, GEOLOGIC MAP AND SECTIONS OF THE NOGALES AND LOCHIEL QUADRANGLES, SANTA CRUZ COUNTY, ARIZONA; USGS MAP I-762 (1:48000) >
F8 < KEITH, STANTON B., 1975, INDEX OF MINING PROPERTIES IN SANTA CRUZ COUNTY, ARIZONA; ARIZONA BUREAU OF MINES BULLETIN 191, p. 59 > ✓
F9 < ABGMT FILES, STANTON B. KEITH >
F10 < SIMONS, FRANK S., 1972, MESOZOIC STRATIGRAPHY OF THE PATAGONIA MOUNTAINS AND ADJOINING AREAS, SANTA CRUZ COUNTY, ARIZONA; USGS PROFESSIONAL PAPER 658-E, p. 21-22 > ✓

mile #140 B

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < >
REPORT DATE G1 < 82 ✓ 03 > (YR. MO.)
*RECORD TYPE B20 < X 1 M >
*INFORMATION SOURCE B30 < 1 2 >
DEPOSIT NUMBER B40 < >
*FILE LINK IDENT. B50 < USBM-004023 0083 >

REPORTER(SUPERVISOR) G2 < CALDER, SUSAN R. (last, first, middle initial) (last, first, middle initial) >
REPORTER AFFILIATION G5 < ABGMT >
*SITE NAME A10 < TRENCH AND JOSEPHINE MINE GROUP >
SYNONYMS A11 < JOSEPHINE MINES; LUNCH CANS PROSPECT >

LOCATION

*MINING DISTRICT/AREA A30 < HARSHAW DISTRICT >
*STATE A50 < A2 >
*COUNTRY A40 < U S >
*COUNTY A60 < SANTA CRUZ >
*PHYSIOGRAPHIC PROV A63 < 12 ✓ >
*LAND STATUS A64 < 41 ✓ 01 ✓ (1979) >
*DRAINAGE AREA A62 < 15050301 ✓ LOWER COLORADO >
*QUADRANGLE SCALE A100 < 62500 >
*QUADRANGLE NAME A90 < LOCHIEL (1958) >
SECOND QUAD SCALE A91 < 24000 >
SECOND QUAD NAME A92 < HARSHAW (1948) >
*ELEVATION A107 < 5000 ✓ FT >

UTM
*NORTHING A120 < 3481000 >
*EASTING A130 < 525750 >
*ZONE NUMBER A110 < + 12 >

*ACCURACY
ACCURATE (ACC) (circle)
ESTIMATED EST < >

GEODETIC
*LATITUDE A70 < 31-27-55 N >
*LONGITUDE A80 < 110-43-44 W >

CADASTRAL
*TOWNSHIP(S) A77 < 023S ✓ >
*RANGE(S) A78 < 016E ✓ >
*SECTION(S) A79 < 05 ✓ >
TION FRACTION(S) A76 < SE OF NE >
IDIAN(S) A81 < GILA AND SALT RIVER >

*POSITION FROM NEAREST PROMINENT LOCALITY A82 < 1 1/4 MILE WEST OF HARSHAW, ON AN EASTERN TRIBUTARY OF ALUM GULCH >
*LOCATION COMMENTS A83 < AT TRENCH CAMP; JOSEPHINE MINE IS LOCATED 1/4 MILE NW OF TRENCH MINE >

* ESSENTIAL INFORMATION
+ ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

*COMMODITIES PRESENT C10 < Pb, Ag, Au, Zn, Cu, Mn >
*ORE MINERALS C30 < CERUSSITE; PYROMORPHITE; GALENA; RHODOCHROSITE; SPHALERITE; PEARCEITE;
COMMODITY SUBTYPES C41 <
*GEN. ANALYTICAL DATA C43 < ASSAY VALUES AVERAGED 6% Pb, 5% Zn, 6 oz./TON Ag, MINOR Cu AND Au
COM. INFO. COMMENTS C50 < JOSEPHINE MINE ORE CONSISTS PRIMARILY OF SULFIDES

SIGNIFICANCE

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

*PRODUCTION

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

EXPLORATION OR DEVELOPMENT

*STATUS

PRODUCER	NON-PRODUCER
STATUS AND ACTIVITY A20 < H >	STATUS AND ACTIVITY A20 < >

*DISCOVERER L20 < INDIANS AND MEXICANS
*YEAR OF DISCOVERY L10 < 1850's > *NATURE OF DISCOVERY L30 < B > *YEAR OF FIRST PRODUCTION L40 < 1893 > *YEAR OF LAST PRODUCTION L45 < 1965
*PRESENT/LAST OWNER A12 < J. NASH AND E. McFARLAND (1954-?)
*PRESENT/LAST OPERATOR A13 <
EXPL./DEV. COMMENTS L110 < OWNERS AND OPERATORS INCLUDED COL. TITUS (1859), J.B. HAGAN (PATENTED CLAIMS PRIOR TO 1872), PADREZ (1870'S), HEARST ESTATE (1880-?), POWERS AND ASSOCIATES (1889), W.A. CLARK (1915)

DESCRIPTION OF DEPOSIT

*DEPOSIT TYPE(S) C40 < VEIN/SHEAR ZONE
DEPOSIT FORM/SHAPE M10 < POCKETS; LENSES
*DEPTH TO TOP M20 < > *UNITS M21 < > *MAXIMUM LENGTH M40 < 1200 > *UNITS M41 < FT
*DEPTH TO BOTTOM M30 < 1000 > *UNITS M31 < FT > *MAXIMUM WIDTH M50 < 5 > *UNITS M51 < FT
*DEPOSIT SIZE M15 (SMALL) M15 < MEDIUM > M15 < LARGE > (circle one) *MAXIMUM THICKNESS M60 < > *UNITS M61 <
*STRIKE M70 < N57W > *DIP M80 < 60 NNE >
*DIRECTION OF PLUNGE M100 < SE > *PLUNGE M90 <
*P. DESC. COMMENTS M110 < FISSURE VEIN ON TRENCH CLAIM DIPS 60 NNE AND AVERAGES 1-5 FT. IN WIDTH; JOSEPHINE MINE IS ON NW CONTINUATION OF TRENCH VEIN; FAIRLY HIGH-GRADE MATERIAL EXTENDS TO

DESCRIPTION OF WORKINGS

*Workings are: SURFACE M120 UNDERGROUND (M130) BOTH M140 (circle one) *OVERALL LENGTH M190 < > *UNITS M191 <
*DEPTH BELOW SURFACE M160 < 800 > *UNITS M161 < FT > *OVERALL WIDTH M200 < > *UNITS M201 <
*LENGTH OF WORKINGS M170 < 13000 > *UNITS M171 < FT > *OVERALL AREA M210 < > *UNITS M211 <
DESC. OF WORK. COM. M220 < JOSEPHINE MINE IS DEVELOPED BY ABOUT 3500 FT OF WORK, TO A DEPTH OF 500 FT; 200-TON FLOTATION PLANT; TRENCH MINE WORKINGS INCLUDED 700 FT VERTICAL SHAFT

GEOLOGY

*AGE OF HOST ROCK(S) K1 < L.C.R.E.T.
*HOST ROCK TYPE(S) K1A < COARSE RHYOLITE INTRUSIVE DIKES, PORPHYRY AND OVERFLOWS
*AGE OF IGNEOUS ROCK(S) K2 < L.C.R.E.T. 72.1 ± 3 m.y. (SIMONS, F.S. 1974)
*IGNEOUS ROCK TYPE(S) K2A < GRANO-PORPHYRY AND QUARTZ DIORITE; PORPHYRITIC TRACHYANDESITE
*AGE OF MINERALIZATION K3 < L.C.R.E.T.-T.E.R.T.
*PERT. MINERALS (NOT ORE) K4 < GANGUE CONSISTS OF QUARTZ, RHODOCHROSITE AND SPECULAR IRIDESCENT HEMATITE
*ORE CONTROL/LOCUS K5 < NW-TRENDING VEIN SYSTEMS IN FRACTURED MASS OF INTRUSIVE DIABASE
*MAJ. REG. TRENDS/STRUCT. N5 < RHYOLITE SIMILAR TO THAT OF RED MOUNTAIN
*TECTONIC SETTING N15 < MEADOW VALLEY TRACHYANDESITE FLOW; THICK LAVA FLOWS OF HARSHAW-TRENCH CAMP
*SIGNIFICANT LOCAL STRUCT. N70 < VEIN AND ORE ARE BANDED, POROUS, AND DRUSY; ORE ZONE IS NARROW AND PINCHES OUT
*SIGNIFICANT ALTERATION N75 < PYRITE GOSSAN
*PROCESS OF CONC./ENRICH. N80 < SECONDARY ENRICHMENT; MINERALIZATION IS NOT UNIFORM AND ORE BEDS ARE INTERMITTENT
*FORMATION AGE N30 <
*FORMATION NAME N30A <
SECOND FM AGE N35 <
SECOND FM NAME N35A <
*IGNEOUS UNIT AGE N50 < L.C.R.E.T.
*IGNEOUS UNIT NAME N50A < JOSEPHINE CANYON DIORITE
SECOND IG. UNIT AGE N55 <
SECOND IG. UNIT NAME N55A <
GEOLOGY COMMENTS N85 < FRACTURES IN INTRUSIVE DIABASE APPEAR TO HAVE LOCALIZED ORE DEPOSITS IN TRENCH AREA; VEINS BECOME UNPRODUCTIVE AS SOON AS THEY PASS FROM DIABASE INTO UNDERLYING TUFFACEOUS

GENERAL COMMENTS

GENERAL COMMENTS GEN < SEE ALSO: JANUARY AND NORTON MINE GROUP

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine: January Mine - Trench Mill Date: May 5, 1965

District: Harshaw District, Santa Cruz Co. Engineer: Axel L. Johnson

Subject: Mine Visit. Information from E. W. McFarland.

References: File on January-Trench Mines.
U. S. G. S. Bull. # 582, "Mineral Deposits of the Santa Rita and Patagonia Mts." by Schrader, pages 253 and 254.

Location: Approx. Sec. 5 - T 23 S - R 16 E. (unsurveyed). 1 1/2 miles W. of Harshaw.

Owners: Mines are owned by American Smelting & Refining Co., 1150 N. 7th Ave., Tucson
Mill is owned by Nash-McFarland, E. W. McFarland, Mgr., Box 172, Nogales.

Lessees: Nash - McFarland, E. W. McFarland, Mgr., Box 172, Nogales ---a straight leas

Principal Minerals: Lead, Zinc, and Silver

Present Mining Activity: Mining ore in the January Mine, and stockpiling the ore in the ore bins, preparatory to milling it in the Trench Mill (mill will be ready for operations about May 10)

The ore is stoped above the 500 ft. level of the January Mine , dropped through ore chutes and then into ore cars, which are trammed on an average of 2,000 ft. on the 500 ft. level, which connects the January and Trench mines, and dumped in the ore pocket at the Trench shaft. Storage battery locomotives are used for hauling the ore cars to the ore pocket. The ore is then hoisted up the Trench shaft; at present, being dumped into storage bins, but, after May 10, trucked to the Trench mill.

21 men are working in the mine , the mine being operated on 2 shifts. Also 6 men will be working in the mill -- 3 men on each shift. Total ---- 27 men.

Milling: The mill is being repaired and operators expect to have it ready for operation about May 10. The mill will be operated 2 shifts, with 3 men on each shift.

Past History: The January and Trench mines are reported to have been operated by American Smelting and Refining Co., who started operations in 1938 or 1939, and operated for 10 or 11 years, closing down the mines in 1949.

Review of Recent Operations

(1) Dewatering the January and Trench mines was started about Sept. 1, 1964, and by Nov. 5, 1964, the mines had been dewatered to a few feet below the 500 ft. level.

(2) Cleaning out and repairing the drift on the 500 ft. level was started about Nov. 10, 1964, and finished about Mar. 10, 1965.

(3) Mining in the January Mine above the 500 ft. level was started about April 1, 1965. Ore will be stockpiled until the mill starts up about May 10.

Additional Information on ~~Adjoining~~ Properties Near By

(1) Mr. McFarland reported that the Hardshell Mine is not working now. He stated that he expects to do development work in the Hardshell later on.

(2) American Smelting and Refining Co. is reported to be drilling with a Down the hole drill near the Hardshell Mine. This work was started last week. This last information was received from Robert Lenon, who is doing some of the engineering work for A. S. & R. Co.