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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: DIXIE MINE

ALTERNATE NAMES:
DIXIE QUEEN

SANTA CRUZ COUNTY MILS NUMBER: 15B

LOCATION: TOWNSHIP 21 S RANGE 15 E SECTION 8 QUARTER NE
LATITUDE: N 31DEG 37MIN 43SEC LONGITUDE: W 110DEG 49MIN 41SEC
TOPO MAP NAME: MOUNT WRIGHTSON - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
LEAD
SILVER
COPPER
ZINC
BARIUM BARITE
SILICON MASSIVE QTZ

BIBLIOGRAPHY:
KEITH, S.B., 1975, AZBM INDEX OF MINING PROP.
IN SANTA CRUZ CO., BULL. 191, P. 89
AZBM CLIPPING FILE
AZBM CARD FILE SANTA CRUZ CO.
USGS MT. WRIGHTSON QUAD
ADMMR DIXIE MINE FILE

ABM Bull. 191, p. 89

USGS PP 748, p. 14-15

ABM Card File - Santa Cruz County

MILS Sheet sequence number 0040230163

* GENERAL REFERENCES

REFERENCE 1 F1 < USBM-ABGMT PRODUCTION DATA FILE >

REFERENCE 2 F2 < USBM FILE DATA - CLUSTER #118, DIXIE MINE >

REFERENCE 3 F3 < ABGMT CLIPPINGS FILE DATA; DIXIE MINE >

REFERENCE 4 F4 < KEITH, S.B., 1975, ABM BULL. 191, p. 89 >

L110< HERBERT MC CUTCHEON (1913)

K2A< MONZONITE >
K5< OF MASSIVE QUARTZ CUTTING TRIASSIC MONZONITE INTRUDED BY JURASSIC APLITE >
N5< ALONG CONTACT BETWEEN MONZONITE AND NEARBY RHYOLITE INTRUSIONS >

N70< PYRITE VEINS TO EAST >
N75< IN PYRITIC ZONES; DEHYDRATION PRODUCTS CONTAIN IRON, MANGANESE AND ZINC >

F5< ABGMT FILES STANTON B. KEITH >
F6< ROHRBACHER, ROBERT G., 1964, GEOLOGY OF THE TEMPORAL GULCH-MANSFIELD CANYON AREA, SANTA CRUZ COUNTY, ARIZONA; M.S. THESIS, UNIVERSITY OF ARIZONA, p. 19-70 >
F7< DREWES, H., 1971 USGS MAP I-614 (1:48000) >
F8< DREWES, H., 1972, USGS PROFESSIONAL PAPER 748, p. 14-15 >

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

*RECORD NUMBER B10 < > *RECORD TYPE B20 < X, 1 M > DEPOSIT NUMBER B40 < >

*REPORT DATE G1 < 8,2,0,5 > (YR. MO.) *INFORMATION SOURCE B30 < 1,2 > *FILE LINK IDENT. B50 < USBM-004 023 0163 >

*REPORTER(SUPERVISOR) G2 < LARABA, PETER (last, first, middle initial) (CALDER, SUSAN (last, first, middle initial) >

*REPORTER AFFILIATION G5 < ABGMT > *SITE NAME A10 < DIXIE MINE >

*SYNONYMS A11 < DIXIE QUEEN >

LOCATION

*MINING DISTRICT/AREA A30 < MANSFIELD DISTRICT >

*COUNTY A60 < SANTA CRUZ > *STATE A50 < A,Z > *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, , (1,9,7,9) >

*QUADRANGLE NAME A90 < MT. WRIGHTSON, ARIZ. (1,9,8,1) > *QUADRANGLE SCALE A100 < 2,4,0,0,0 >

SECOND QUAD NAME A92 < MT. WRIGHTSON (1,9,5,8) > SECOND QUAD SCALE A91 < 6,2,5,0,0 >

*ELEVATION A107 < 6,0,0,0 FT >

UTM

*NORTHING A120 < 3,4,9,1,1,0 >

*EASTING A130 < 5,1,6,3,0,0 >

*ZONE NUMBER A110 < +1,2 >

*ACCURACY

ACCURATE (ACC) (circle)

ESTIMATED EST < >

GEODETIC

*LATITUDE A70 < 3,1 - 3,7 - 4,3 N >

*LONGITUDE A80 < 1,1,0 - 4,9 - 4,1 W >

CADASTRAL

*TOWNSHIP(S) A77 < 0,2,1,S > *RANGE(S) A78 < 0,1,5,E >

*SECTION(S) A79 < 0,8 >

*SECTION FRACTION(S) A76 < NE OF NE >

*MERIDIAN(S) A81 < GILA AND SALT RIVER >

*POSITION FROM NEAREST PROMINENT LOCALITY A82 < 3.5 MILES NE OF SALERO MTN. (ELV. 5494) >

*LOCATION COMMENTS A83 < NORTH SIDE OF PIPER GULCH; 1/4 MILE NW OF AMERICAN BOY MINE; 1.0 MILE EAST OF HOSEY MINE GROUP >

* ESSENTIAL INFORMATION
+ ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

*COMMODITIES PRESENT C10 <PB, AG, ZN, AU>
*ORE MINERALS C30 <GALENA, PYRITE, CHALCOPYRITE, SPHALERITE>
COMMODITY SUBTYPES C41 <MELANTERITE, PISANITE AND OTHER HYDROUS SULFATES>
+GEN. ANALYTICAL DATA C43 <AVERAGE ORE VALUES: 17% PB, 0.5% CU, 7oz/TON AG, MINOR AU>
+COM. INFO. COMMENTS C50 <>

SIGNIFICANCE

		PRODUCER	NON-PRODUCER
MAJOR PRODUCTS	MAJOR	<PB, AG,	MAIN COMMODITIES PRESENT C11 < >
MINOR PRODUCTS	MINOR	<CU, ZN,	MINOR COMMODITIES PRESENT C12 < >
POTENTIAL PRODUCTS	POTEN	<AU,	
OCCURRENCES	OCCUR	< >	OCCURRENCES OCCUR < >

*PRODUCTION

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

*STATUS — EXPLORATION OR DEVELOPMENT

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

+DISCOVERER L20 <>
+YEAR OF DISCOVERY L10 < > +NATURE OF DISCOVERY L30 <B> +YEAR OF FIRST PRODUCTION L40 <1911> +YEAR OF LAST PRODUCTION L45 <1953>
PRESENT/LAST OWNER A12 <>
PRESENT/LAST OPERATOR A13 <LENON AND WILSON (1953)>
EXPL./DEV. COMMENTS L110 <OTHER PAST OPERATORS INCLUDE: G. ELLIOTT (1926), WILLIAM POWERS (1923), J. JOHNSON (1918), MAJOR POWERS (1911 AND 1916); OWNERS INCLUDED JAKE JOHNSON AND ALTAMIRANO AND GOODSELL (1929),>

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S) C40 <VEIN>
DEPOSIT FORM/SHAPE M10 <TABULAR; SHOOTS, STRINGERS, AND SEAMS>
DEPTH TO TOP M20 < > +UNITS M21 < > +MAXIMUM LENGTH M40 < > +UNITS M41 < >
DEPTH TO BOTTOM M30 < > +UNITS M31 < > +MAXIMUM WIDTH M50 <5> +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 < >
DEP. DESC. COMMENTS M110 <VEINS OF MASSIVE QUARTZ CONTAIN ABUNDANT PYRITE, BLADED MASSES OF BARITE, AND SHOOTS AND STRINGERS OF ARGENTIFEROUS>

DESCRIPTION OF WORKINGS

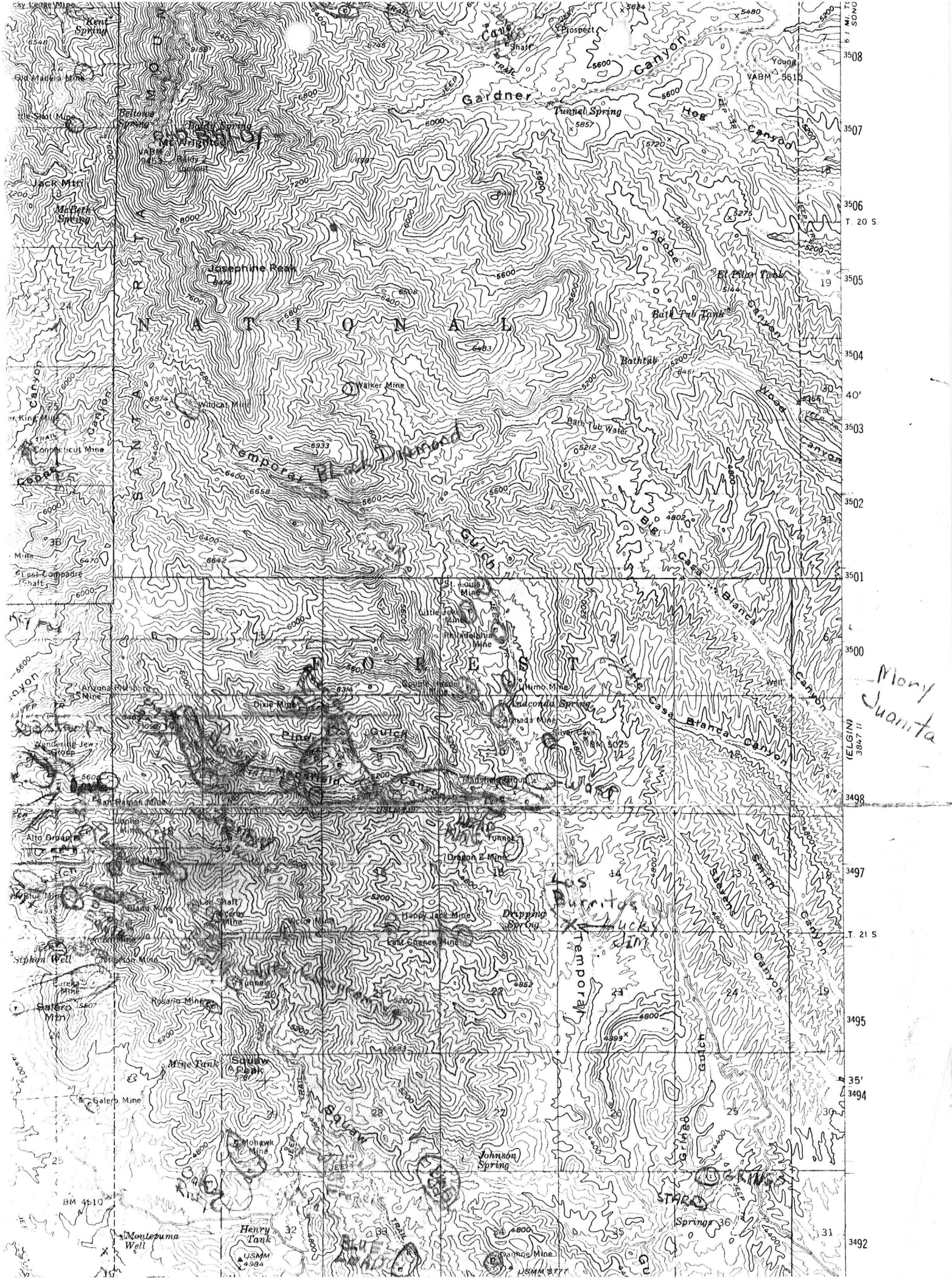
Workings are: SURFACE M120 UNDERGROUND (M130) BOTH M140 (circle one)
DEPTH BELOW SURFACE M160 < > +UNITS M161 < > +OVERALL LENGTH M190 < > +UNITS M191 < >
LENGTH OF WORKINGS M170 <150> +UNITS M171 <FT> +OVERALL WIDTH M200 < > +UNITS M201 < >
DESC. OF WORK. COM. M220 <TUNNEL OPERATIONS> +OVERALL AREA M210 < > +UNITS M211 < >

GEOLOGY

AGE OF HOST ROCK(S) + K1 <TRI, 184 m.y. BY PB-α DATING METHOD (DREWES, H., 1971)>
HOST ROCK TYPE(S) K1A <QUARTZ MONZONITE>
AGE OF IGNEOUS ROCK(S) K2 <JUR, 145 m.y. BY K-AR DATING METHOD (DREWES, H. 1971)>
IGNEOUS ROCK TYPE(S) K2A <APLITIC BODIES ASSOCIATED WITH COARSE-GRAINED GRANITE AND QUARTZ>
AGE OF MINERALIZATION K3 <L. CRET.>
PERT. MINERALS (NOT ORE) K4 <QUARTZ, BARITE, IRON AND MANGANESE STAINING>
ORE CONTROL/LOCUS K5 <ORE SHOOTS, STRINGERS, AND SEAMS IN SERIES OF PARALLEL FISSURE VEINS>
MAJ. REG. TRENDS/STRUCT. N5 <NE-TRENDING QUARTZ FISSURE VEINS CUTTING QUARTZ MONZONITE AND>
TECTONIC SETTING N15 <MOUNT WRIGHTSON FAULT BLOCK>
SIGNIFICANT LOCAL STRUCT. N70 <LOCATED BETWEEN HIGH-GRADE PYRITE VEINS TO WEST AND LOW-GRADE>
SIGNIFICANT ALTERATION N75 <STALACTITIC MELANTERITE, PISANITE, AND OTHER HYDROUS SULFATES OCCUR>
PROCESS OF CONC./ENRICH. N80 <OXIDIZED AND ENRICHED NEAR THE SURFACE>
FORMATION AGE N30 <>
FORMATION NAME N30A <>
SECOND FM AGE N35 <>
SECOND FM NAME N35A <>
GNEOUS UNIT AGE N50 <TRI>
GNEOUS UNIT NAME N50A <PIPER GULCH MONZONITE>
ECOND IG. UNIT AGE N55 <JUR>
OND IG. UNIT NAME N55A <SQUAW GULCH GRANITE>
LOGY COMMENTS N85 <MONZONITE COUNTRY ROCK IS SHEETED IN DIRECTIONS TRENDING N20W AND N40E>

GENERAL COMMENTS

ENERAL COMMENTS GEN <>


Kent Spring
Old Madera Mine
Bellows Spring
Rocky Spring
Mt. Wrightson
Jack Mtn
McBeth Spring
Josephine Peak
Walker Mine
Witdcat Mine
King Mine
Connecticut Mine
East Comadre Shaft
Temporal Gulch
Diamond
Cave
Shaft
Prospect
Gardner Canyon
Young
VABM 5615
Tunnel Spring
Hog Canyon
Adobe Canyon
El Pilar Tank
Bath Tub Tank
Bathtub
Bath Tub Water
Wood Canyon
Blue Casa Blanca Canyon
St. Louis Mine
Little Joker Mine
Philadelphia Mine
Ultimo Mine
Anaconda Spring
Armada Mine
Silver Cave
BM 5025
Well
Dixie Mine
Wandering Jew Group
Magenta Gulch
Mansfield Group
Alto Group
Dragon Z Mine
Los Ocotes
Lucky Tom
Dripping Spring
Happy Jack Mine
Last Chance Mine
Victor Mine
Siphon Well
Eureka Mine
Rosario Mine
Galero Mtn
Mine Tank
Squaw Peak
Galero Mine
Mohawk Mine
Johnson Spring
Grimes Gulch
Springs
Montezuma Well
Henry Tank
USMM 4984
Mariposa Mine
USMM 3777
BM 4610
T. 20 S.
T. 21 S.
(ELGIN) 3847 II
Mary Juanita