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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: ELEVATION GROUP

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 224

LOCATION: TOWNSHIP 22 S RANGE 16 E SECTION 16 QUARTER NW
LATITUDE: N 31DEG 31MIN 14SEC LONGITUDE: W 110DEG 43MIN 23SEC
TOPO MAP NAME: ELGIN - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER SULFIDE
LEAD SULFIDE
SILVER

BIBLIOGRAPHY:

USGS ELGIN QUAD
ADMMR "U" FILE CU 29 NOT MAPPED
AZBM CLIPPING FILE
AZBM CARD FILE SANTA CRUZ CO.
SCHRADER, F.C., 1915, USGS BULL. 582,
P. 264-265
ADMMR ELEVATION GROUP FILE
USGS PP 658-E, P. 22



ELEVATION GROUP

9/84

SANTA CRUZ COUNTY
HARSHAW DISTRICT
T22S R16E Sec. 16

MG WR 3/14/80: Visited Elevation Group, Santa Cruz Co., no obvious activity
at this property.

* GENERAL REFERENCES

REFERENCE 1 F1 < SCHRAEDER, FRANK 715 MINERAL DEPOSITS OF THE SANT 7 AND PATAGONIA MOUNTAINS, ARIZONA. USGS BULLE 587, p. 264-265 ✓
 REFERENCE 2 F2 < MOORES, RICHARD C. 1972 THE GEOLOGY AND ORE DEPOSITS OF A PORTION OF THE HARSHAW DISTRICT, SANTA CRUZ COUNTY, ARIZONA; M.S. THESIS, UNIVERSITY OF ARIZONA. ✓
 REFERENCE 3 F3 < SIMONS, FRANK S. 1972 MESOZOIC STRATIGRAPHY OF THE PATAGONIA MOUNTAINS AND ADJOINING AREAS, SANTA CRUZ COUNTY, ARIZONA; USGS PROFESSIONAL PAPER 658-E, p. 22. ✓
 REFERENCE 4 F4 < _____

N80 < PORPHYRY >

mine #221

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < _____ > RECORD TYPE B20 < X, I, M > DEPOSIT NUMBER B40 < _____ >
 REPORT DATE G1 < 82, 10, 3 > INFORMATION SOURCE B30 < 1, 2 > FILE LINK IDENT. B50 < USBM-004023 0177 >
 YR MO
 REPORTER(SUPERVISOR) G2 < CALDER, SUSAN R. > (last, first, middle initial)
 REPORTER AFFILIATION G5 < ABGMT > SITE NAME A10 < ELEVATION MINE GROUP >
 SYNONYMS A11 < _____ >

LOCATION

MINING DISTRICT/AREA A30 < HARSHAW 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, 1, LOWER COLORADO >
 QUADRANGLE NAME A90 < ELGIN > LAND STATUS A64 < 0, 1, 1, 1, 1, 9, 7, 9, 1 >
 SECOND QUAD NAME A92 < MT. HUGHES > QUADRANGLE SCALE A100 < 62, 500 >
 ELEVATION A107 < 5, 000 FEET > SECOND QUAD SCALE A91 < 24, 000 >

UTM ACCURACY GEODETIC
 NORTHING A120 < 3, 4, 8, 7, 1, 7, 5 > ACCURATE ACC (circle) LATITUDE A70 < 31-31-15, N >
 EASTING A130 < 52, 6300 > ESTIMATED EST < _____ > LONGITUDE A80 < 110-43-23, W >
 ZONE NUMBER A110 < 12 >

CADASTRAL

TOWNSHIP(S) A77 < 02, 25 > RANGE(S) A78 < 01, 16, E >
 SECTION(S) A79 < 16 >
 SECTION FRACTION(S) A76 < SW OF NW >
 MERIDIAN(S) A81 < GILA AND SALT RIVER >

POSITION FROM NEAREST PROMINENT LOCALITY A82 < 2.5 MILES SE OF PATAGONIA >
 LOCATION COMMENTS A83 < LOCATED ON NE SLOPE OF RED MOUNTAIN >

* ESSENTIAL INFORMATION
 * ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITIES PRESENT C10 CU, P, B

ORE MINERALS C30 PYRITE, CHALCOPIRITE, GALENA, CHALCOITE, DISSEMINATED SULFIDES

COMMODITY SUBTYPES C41

GEN. ANALYTICAL DATA C43 ASSAY VALUES FOR EARLY 1900'S AVERAGED 16% CU, 10% PB, 30 OZ/TON AG

COM. INFO COMMENTS C50

* SIGNIFICANCE

PRODUCER

	MAJOR	MINOR	POTEN	OCCUR
MAJOR PRODUCTS	[Timeline with 3 major ticks]			
MINOR PRODUCTS	[Timeline with 6 minor ticks]			
POTENTIAL PRODUCTS	[Timeline with 3 major ticks]			
OCCURRENCES	[Timeline with 6 minor ticks]			

NON-PRODUCER

MAIN COMMODITIES PRESENT C11 < Cu Pb | | | |

MINOR COMMODITIES PRESENT C12 < Ag | | | |

OCCURRENCES OCCUR < | | | |

* PRODUCTION

PRODUCTION YES (circle) PRODUCTION SIZE **SMALL** **MED** **LGE** (circle one)

NON-PRODUCER
PRODUCTION UND NO (circle one)

• STATUS

EXPLORATION OR DEVELOPMENT

PRODUCER

STATUS AND ACTIVITY A20< >

NON-PRODUCER

STATUS AND ACTIVITY A20<2>

DISCOVERER L20< WEATHERWAY 24
 YEAR OF DISCOVERY L10< 1890 > NATURE OF DISCOVERY L30< LS > YEAR OF FIRST PRODUCTION L40< _____ > YEAR OF LAST PRODUCTION L45< _____ >
 PRESENT/LAST OWNER A12< _____ >
 PRESENT/LAST OPERATOR A13< _____ >
 EXPL./DEV.COMMENTS L110< NO AVAILABLE RECORDS OF DEVELOPMENT AFTER 1915 - NO RECORDS OF PRODUCTION >

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S)	C40 <u>SHEAR ZONE; DISSEMINATED</u>									
DEPOSIT FORM/SHAPE	M10 <u>IRREGULAR</u>									
DEPTH TO TOP	M20 <u> </u>	UNITS M21 <u> </u>	MAXIMUM LENGTH	M40 <u>50</u>	UNITS M41 <u>FT</u>					
DEPTH TO BOTTOM	M30 <u> </u>	UNITS M31 <u> </u>	MAXIMUM WIDTH	M50 <u>25</u>	UNITS M51 <u>FT</u>					
DEPOSIT SIZE	M15 <u>SMALL</u>	M15 <u>MEDIUM</u>	M15 <u>LARGE</u> (circle one)	MAXIMUM THICKNESS	M60 <u> </u>					
STRIKE	M70 <u>E-W</u>			DIP	M80 <u>VERTICAL</u>					
DIRECTION OF PLUNGE	M100 <u> </u>			PLUNGE	M90 <u> </u>					
DEP. DESC. COMMENTS	M110 <u>DISSEMINATED COPPER MINERALS OCCUR IN 50-FT. SECTION OF GRAY-WHITE SOFT ALTERED ANDESITE; (WITHIN) SHEAR ZONE, MINERALIZATION OCCURS IN 5 FT. BAND OF BRECCIA AND</u>									

GOLGE >

DESCRIPTION OF WORKINGS

Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one) *OVERALL LENGTH M190 () *UNITS M191 ()
DEPTH BELOW SURFACE M160 (50) *UNITS M161 (FT) *OVERALL WIDTH M200 () *UNITS M201 ()
LENGTH OF WORKINGS M170 (900) *UNITS M171 (FT) *OVERALL AREA M210 () *UNITS M211 ()
DESC. OF WORK. COM. M220 (DEVELOPMENTS INCLUDED A 600-FT CROSSCUT TUNNEL, 50-FT SHAFT, 100 FT OF
DRIFTS, 200 FT OF CROSSCUTS)

GEOLOGY

* AGE OF HOST ROCK(S)	K1< TERT.
* HOST ROCK TYPE(S)	K1A< FLOW-BANDED RED RHYOLITE; ALTERED RHYOLITE PORPHYRY
* AGE OF IGNEOUS ROCK(S)	K2< TERT.
* IGNEOUS ROCK TYPE(S)	K2A< ANDESITE INTRUSIONS
* AGE OF MINERALIZATION	K3< TERT.
* PERT. MINERALS (NOT ORE)	K4< GANGUE CONSISTS OF DENSE CHERT-LIKE QUARTZ AND HIGHLY SILICEOUS RHYOLITE
* ORE CONTROL/LOCUS	K5< E-W TRENDING VERTICAL FAULT OR SHEAR ZONE
* MAJ. REG. TRENDS/STRUCT.	N5< E-W AND N-S TRENDING FAULTS IN TERTIARY VOLCANICS
* TECTONIC SETTING	N15< RED MOUNTAIN FAULT BLOCK; DOWNTHROW TO NORTH
* SIGNIFICANT LOCAL STRUCT.	N70< THICK-BEDDED VERY FINE-GRAINED VOLCANICS ASSOCIATED WITH RED MOUNTAIN
* SIGNIFICANT ALTERATION	N75< ANDESITE AND RHYOLITE HIGHLY ALTERED; SURFACE OXIDATION TO UNKNOWN DEPTHS
* PROCESS OF CONC./ENRICH.	N80< MINERALIZATION CONCENTRATED ALONG SHEAR ZONE IN ANDESITE AND RHYOLITE
* FORMATION AGE	N30<
* FORMATION NAME	N30A<
* 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< VOLCANIC ROCKS OF RED MOUNTAIN ARE HIGHLY ALTERED AND LOCALLY MINERALIZED

GENERAL COMMENTS

GENERAL COMMENTS GEN < _____