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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BLACKSMITH PROSPECT

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 52A

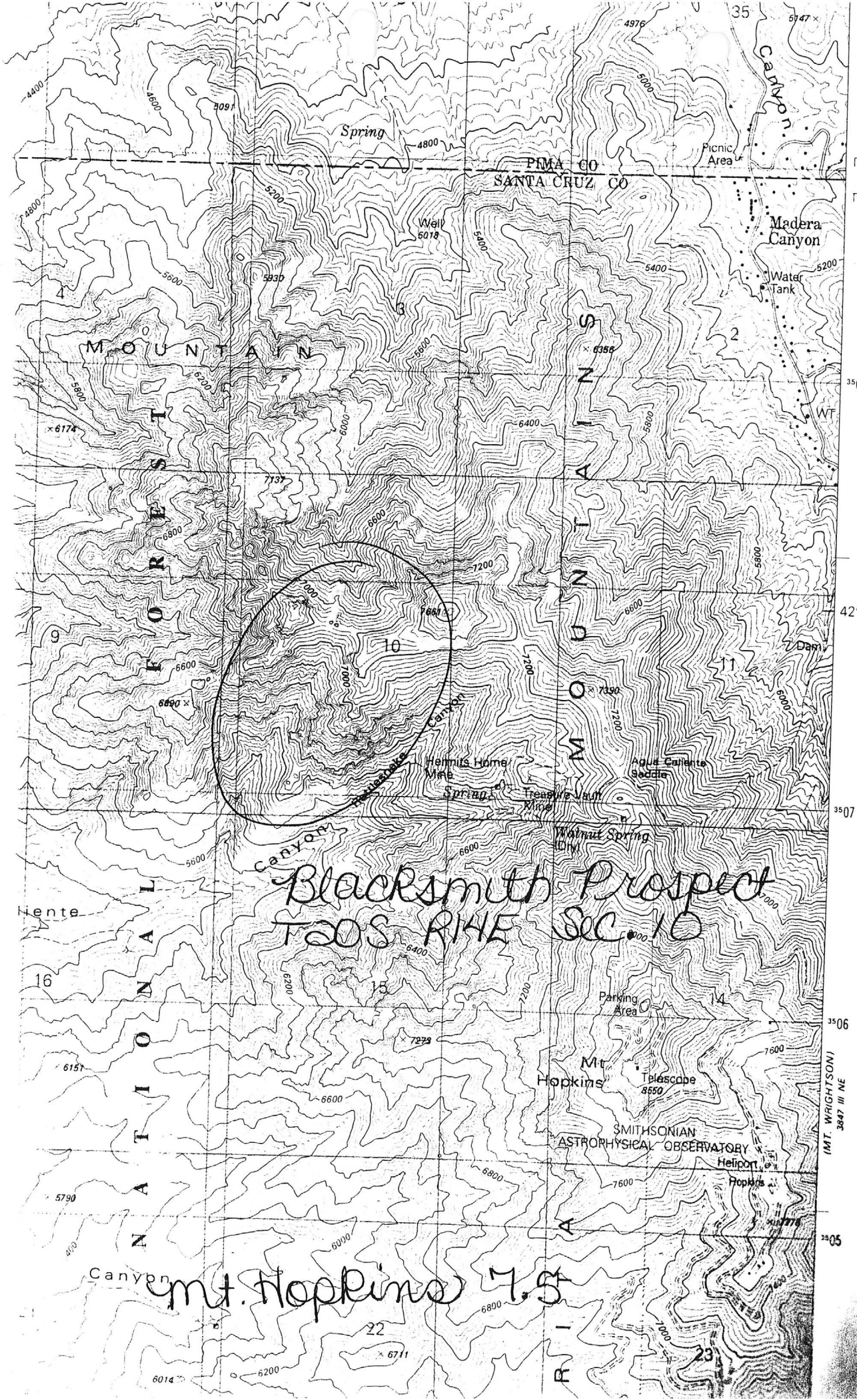
LOCATION: TOWNSHIP 20 S RANGE 14 E SECTION 10 QUARTER SE
LATITUDE: N 31DEG 42MIN 06SEC LONGITUDE: W 110DEG 53MIN 52SEC
TOPO MAP NAME: MOUNT WRIGHTSON - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
- COPPER SULFIDE
- LEAD SULFIDE
- ZINC SULFIDE
- SILVER
- GOLD

BIBLIOGRAPHY:

- USGS MT WRIGHTSON QUAD
- AZBM CARD FILE SANTA CRUZ CO.
- SCHRADER, F.C., 1915, USGS BULL. 582, P. 184
- USGS PP 748, P. 11-12
- ADMMR BLACKSMITH PROSPECT FILE
- ADMMR "U" FILE CU 48 NOT MAPPED


Blacksmith Prospect
T20S R14E Sec 10
Mt. Hopkins 7.5
PIMA CO
SANTA CRUZ CO
Madera Canyon
Picnic Area
Water Tank
Spring
Well 5018
Hermits Home Mine
Agua Caliente Saddle
Treasure Vault Ring
Walnut Spring (Dry)
Parking Area
Mt Hopkins
Telescope 8550
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
Helipon
Hopkins
Dam
WT
MOUNTAIN
SANTA RITA MOUNTAINS
NATIONAL FOREST
(MT. WRIGHTSON) 3847 III NE
T 19 S
T 20 S
42'30"
3509
3507
3506
3505

BLACKSMITH PROSPECT

9/84

SANTA CRUZ COUNTY
TYNDALL DISTRICT
T20S R14E Sec. 10

MILS Santa Cruz Index #52A

USGS Bull. 582, p. 184

USGS PP 748, p. 11-12

Mt. Hopkins 7.5 (included in file)

* GENERAL REFERENCES

REFERENCE 1 F1 < USBM FILES, BLA. SMITH

REFERENCE 2 F2 < SCHRADER, F.C., 1915, USGS BULL. 582, p. 184

REFERENCE 3 F3 < DREWES, H., 1971, USGS MAP I-614 (1:48000)

REFERENCE 4 F4 < DREWES, H., 1972, USGS PROFESSIONAL PAPER 748, p. 11-12

K4 < CALCITE >

N5 < DIKES RANGE IN COMPOSITION FROM RHYOLITE TO DIORITE >
N70 < CONCENTRATED >

N75 < QUARTZ >

mdw# 52 A

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < >
*RECORD TYPE B20 < X 1 M >
DEPOSIT NUMBER B40 < >
REPORT DATE G1 < 82 04 > (YR. MO.)
*INFORMATION SOURCE B30 < 12 >
*FILE LINK IDENT. B50 < USBM-004023 0122 >
REPORTER(SUPERVISOR) G2 < CALDER, SUSAN R. (last, first, middle initial) ((last, first, middle initial) >
REPORTER AFFILIATION G5 < ABGMT >
*SITE NAME A10 < BLACKSMITH PROSPECT >
SYNONYMS A11 < >

LOCATION

MINING DISTRICT/AREA A30 < TYNDALL DISTRICT >
COUNTY A60 < SANTA CRUZ >
*STATE A50 < AZ >
*COUNTRY A40 < U S >
PHYSIOGRAPHIC PROV A63 < 12 >
DRAINAGE AREA A62 < 15050301 LOWER COLORADO >
*LAND STATUS A64 < 41 (1979) >
QUADRANGLE NAME A90 < MT. HOPKINS (1981) >
*QUADRANGLE SCALE A100 < 24000 >
SECOND QUAD NAME A92 < MT. WRIGHTSON (1958) >
SECOND QUAD SCALE A91 < 62500 >
ELEVATION A107 < 6400 FT >

UTM
*NORTHING A120 < 3507100 >
*EASTING A130 < 510200 >
*ZONE NUMBER A110 < +12 >

*ACCURACY
ACCURATE ACC (circle)
ESTIMATED (EST) < USED SCHRADER (1915), p. 184 >

GEODETIC
+LATITUDE A70 < 31-42-03 N >
+LONGITUDE A80 < 110-53-33 W >

CADASTRAL
+TOWNSHIP(S) A77 < 0205 >
+RANGE(S) A78 < 014E >
+SECTION(S) A79 < 10 >
+SECTION FRACTION(S) A76 < SE OF SE >
+MERIDIAN(S) A81 < GILA AND SALT RIVER >

+POSITION FROM NEAREST PROMINENT LOCALITY A82 < 1.0 MILE NW OF MT HOPKINS NEAR WALNUT SPRING >
+LOCATION COMMENTS A83 < JUST WEST OF TREASURE VAULT AND HERMIT HOME MINES, ON NW SIDE OF RATTLESNAKE CANYON >

* ESSENTIAL INFORMATION
+ ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

*COMMODITIES PRESENT C10 <Cu, Pb, Zn, Au>
*ORE MINERALS C30 <CHALCOPYRITE, GALENA, TETRAHEDRITE, SPHALERITE>
COMMODITY SUBTYPES C41 <>
*GEN. ANALYTICAL DATA C43 <>
COM. INFO. COMMENTS C50 <>

* SIGNIFICANCE

	PRODUCER	NON-PRODUCER
MAJOR PRODUCTS	MAJOR <Cu, Pb, Zn>	MAIN COMMODITIES PRESENT C11 <>
MINOR PRODUCTS	MINOR <Ag, Au>	MINOR COMMODITIES PRESENT C12 <>
POTENTIAL PRODUCTS	POTEN <>	
OCCURRENCES	OCCUR <>	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 <4>	STATUS AND ACTIVITY A20 <>

*DISCOVERER L20 <>
*YEAR OF DISCOVERY L10 <> *NATURE OF DISCOVERY L30 <> *YEAR OF FIRST PRODUCTION L40 <> *YEAR OF LAST PRODUCTION L45 <>
*PRESENT/LAST OWNER A12 <>
*PRESENT/LAST OPERATOR A13 <>
EXPL./DEV.COMMENTS L110 <GREAT DEAL OF ORE WAS REPORTEDLY SHIPPED FROM SHAFT SINKING OPERATIONS IN EARLY 1900's; NO EXPLORATION OR PRODUCTION DATA AVAILABLE>

DESCRIPTION OF DEPOSIT

*DEPOSIT TYPE(S) C40 <VEIN/SHEAR ZONE>
DEPOSIT FORM/SHAPE M10 <POCKETS; STRINGERS; DISSEMINATIONS>
*DEPTH TO TOP M20 <> *UNITS M21 <> *MAXIMUM LENGTH M40 <> *UNITS M41 <>
*DEPTH TO BOTTOM M30 <> *UNITS M31 <> *MAXIMUM WIDTH M50 <> *UNITS M51 <>
DEPOSIT SIZE M15 (SMALL) M15 (MEDIUM) M15 (LARGE) (circle one) *MAXIMUM THICKNESS M60 <> *UNITS M61 <>
STRIKE M70 <N75E> *DIP M80 <VERTICAL>
DIRECTION OF PLUNGE M100 <> *PLUNGE M90 <>
DEP. DESC. COMMENTS M110 <DEPOSIT MIGHT BE ON VEIN PARALLEL TO THAT OF TREASURE VAULT MINE 20 FT TO SOUTH, BUT IS PROBABLY ON SAME VEIN (SCHRADER, 1915)>

DESCRIPTION OF WORKINGS

Workings are: SURFACE M120 UNDERGROUND (M130) BOTH M140 (circle one)
*DEPTH BELOW SURFACE M160 <80> *UNITS M161 <FT>
*LENGTH OF WORKINGS M170 <> *UNITS M171 <>
*OVERALL LENGTH M190 <> *UNITS M191 <>
*OVERALL WIDTH M200 <> *UNITS M201 <>
*OVERALL AREA M210 <> *UNITS M211 <>
DESC. OF WORK. COM. M220 <DEVELOPMENTS INCLUDED 80 FT DEEP SHAFT>

GEOLOGY

*AGE OF HOST ROCK(S) K1 <L.CRET.>
*HOST ROCK TYPE(S) K1A <ALTERED PORPHYRITIC DIORITE AND DIORITE DIKES>
*AGE OF IGNEOUS ROCK(S) K2 <L.CRET.>
*IGNEOUS ROCK TYPE(S) K2A <FINE-GRAINED OR APLITIC QUARTZ MONZONITE; GRANITE PORPHYRY INTRUSIVE>
*AGE OF MINERALIZATION K3 <L.CRET.>
*PERT. MINERALS (NOT ORE) K4 <ANDESINE, HORNBLENDE, ORTHOCLASE; MINOR AMOUNTS OF QUARTZ, BIOTITE, MAGNETITE,>
*ORE CONTROL/LOCUS K5 <NE-TRENDING FISSURE VEIN CUTTING PORPHYRITIC DIORITE>
*MAJ. REG. TRENDS/STRUCT. N5 <NE-TRENDING QUARTZ VEINS AND DIKES IN MADERA-AGUA CALIENTE CANYONS;>
*TECTONIC SETTING N15 <SALERO FAULT BLOCK>
*SIGNIFICANT LOCAL STRUCT. N70 <FISSURE FILLING SEPARATED FROM WALL ROCK BY THIN SELVAGE IN WHICH ORE IS>
*SIGNIFICANT ALTERATION N75 <FISSURE FILLING CONSISTS MAINLY OF HARD SHEARED AND ALTERED DIORITE AND>
*PROCESS OF CONC./ENRICH. N80 <MINERALIZATION ALONG FISSURE VEINS AND ASSOCIATED GRANITIC DIKES>
*FORMATION AGE N30 <>
*FORMATION NAME N30A <>
SECOND FM AGE N35 <>
SECOND FM NAME N35A <>
*IGNEOUS UNIT AGE N50 <L.CRET.>
*IGNEOUS UNIT NAME N50A <JOSEPHINE CANYON DIORITE>
SECOND IG. UNIT AGE N55 <L.CRET.>
SECOND IG. UNIT NAME N55A <ELEPHANT HEAD QUARTZ MONZONITE>
GEOLOGY COMMENTS N85 <ORE OCCURS MAINLY AS POCKETS OR STRINGERS IN SELVAGE, AND IS ONLY SPARINGLY DISSEMINATED IN MAIN FISSURE FILLING>

GENERAL COMMENTS

GENERAL COMMENTS GEN <>