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PRINTED: 10/16/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: TREASURE VAULT MINE

ALTERNATE NAMES:

PRINTED: 10/16/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: TREASURE VAULT MINE

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 52C

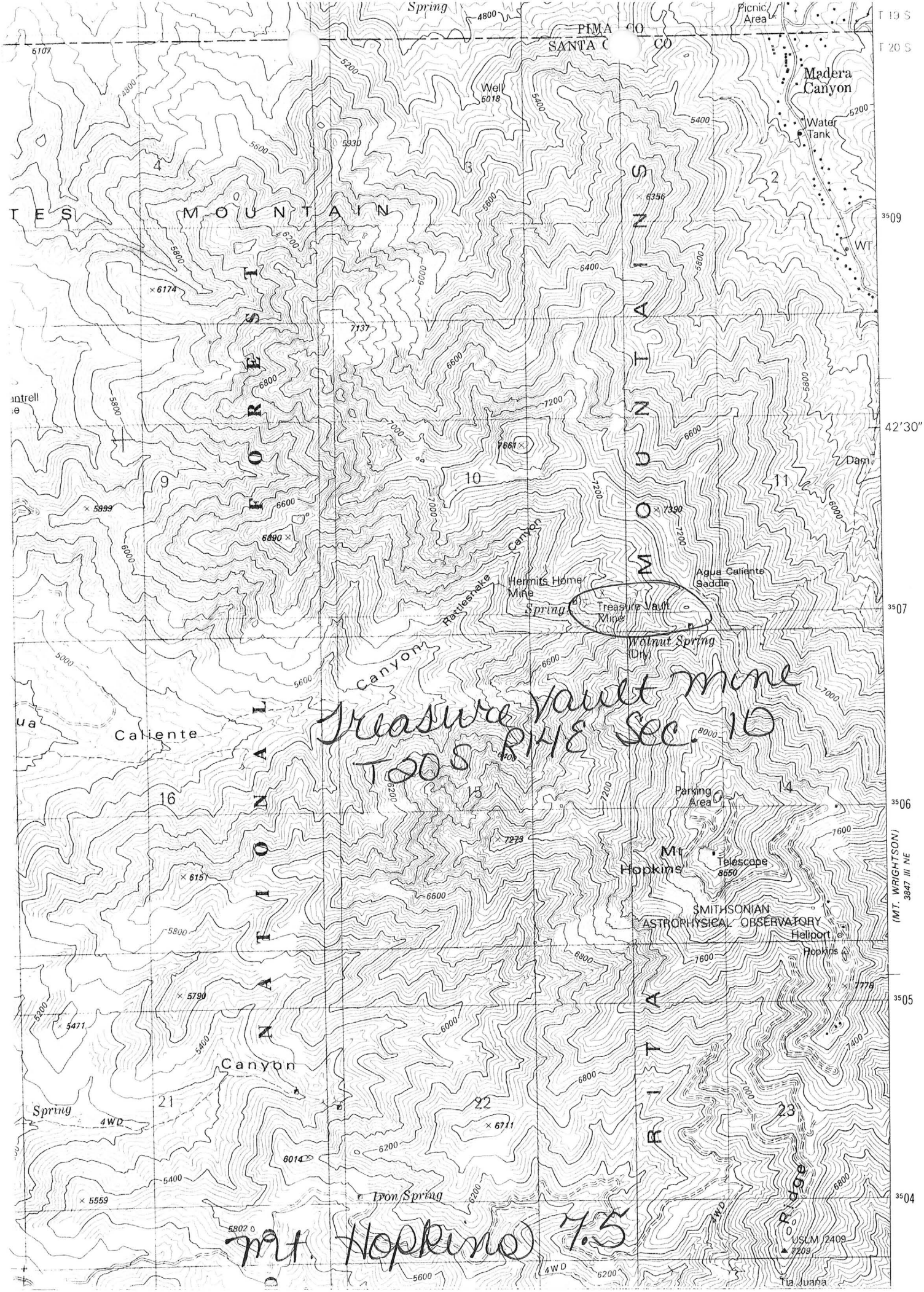
LOCATION: TOWNSHIP 20 S RANGE 14 E SECTION 10 QUARTER SE
LATITUDE: N 31DEG 42MIN 05SEC LONGITUDE: W 110DEG 53MIN 28SEC
TOPO MAP NAME: MOUNT WRIGHTSON - 15 MIN

CURRENT STATUS: PAST PRODUCER

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

BIBLIOGRAPHY:

ADMMR TREASURE VAULT MINE FILE
ADMMR "U" FILE CU 50 NOT MAPPED
AZBM CARD FILE SANTA CRUZ CO.
SCHRADER, F.C., 1915, USGS BULL. 582,
P. 183-184


Spring
PIMA CO
SANTA CRUZ CO
Picnic Area
T 19 S
T 20 S
Madera Canyon
Well 6018
Water Tank
WT
TES MOUNTAIN
FOREST
MOUNTAIN
Dam
Hermits Home Mine
Spring
Treasure Vault Mine
Agua Caliente Saddle
Walnut Spring (Dry)
Rattlesnake Canyon
Canyon
Caliente
Treasure Vault mine
T20S R14E Sec. 10
Parking Area
Mt Hopkins
Telescope
8550
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
Heliport
Hopkins
(MT. WRIGHTSON) 3847 III NE
Canyon
Spring
4WD
Iron Spring
Ridge
USLM 2409
Tia Juana
Mt. Hopkins 7.5
42'30"
3509
3507
3506
3505
3504

TREASURE VAULT MINE 9/84 SANTA CRUZ COUNTY
TYNDALL DISTRICT
T20S R14E Sec. 10

MILS Santa Cruz Index #52C

USGS Bull. 582, p. 183-184

USGS PP 748, p. 11-12

History of Mining in Arizona, ABM p. 319-320

Mt. Hopkins 7.5 (included in file)

* GENERAL REFERENCES

REFERENCE 1 F1 < USBM FILES, TREAS. VAULT MINE

REFERENCE 2 F2 < SCHRADER, F.C., 1915, USGS BULL. 582, p. 183-184

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

F5 < TENNEY, JAMES B., 1927-29, HISTORY OF MINING IN ARIZONA; ARIZONA BUREAU OF MINES, p. 319-320 >

N5 < DIKES RANGE IN COMPOSITION FROM RHYOLITE TO DIORITE >

N70 < CONCENTRATED >

N75 < QUARTZ >

mlw# 52C

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 4 > (YR. MO.) *INFORMATION SOURCE B30 < 1 2 > *FILE LINK IDENT. B50 < USBM-004023 0386 >

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

REPORTER AFFILIATION G5 < ABGMT > *SITE NAME A10 < TREASURE VAULT MINE >

SYNONYMS A11 < >

LOCATION

MINING DISTRICT/AREA A30 < TYNDALL 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 (1 9 5 8) > *QUADRANGLE SCALE A100 < 6 2 5 0 0 >

SECOND QUAD NAME A92 < MT. HOPKINS (1 9 8 1) > SECOND QUAD SCALE A91 < 2 4 0 0 0 >

ELEVATION A107 < 6 6 5 0 ✗ F T >

UTM

*NORTHING A120 < 3 5 0 7 1 2 5 >

*EASTING A130 < 5 1 0 3 5 0 >

*ZONE NUMBER A110 < + 1 2 >

***ACCURACY**

ACCURATE (ACC) (circle)

ESTIMATED EST < >

GEODETIC

+LATITUDE A70 < 3 1 - 4 2 - 0 2 N >

+LONGITUDE A80 < 1 1 0 - 5 3 - 2 7 W >

CADASTRAL

+TOWNSHIP(S) A77 < 0 2 0 S : ✗ : ✗ : ✗ > +RANGE(S) A78 < 0 1 4 E : ✗ : ✗ : ✗ >

+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 AT HEAD OF AGUA CALIENTE CANYON >

+LOCATION COMMENTS A83 < JUST NORTH OF WALNUT SPRING AND EAST OF HERMIT'S HOME MINE >

* ESSENTIAL INFORMATION

\+ ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

*COMMODITIES PRESENT C10: AU, PB, ZN, AG
*ORE MINERALS C30: CHALCOPYRITE, GALENA, TETRAHEDRITE, SPHALERITE, SULF-ANTIMONIDES
COMMODITY SUBTYPES C41:
*GEN. ANALYTICAL DATA C43: EARLY 1900'S VALUES AVERAGED 18% CU, 100 OZ./TON AG, $20/TON AU
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: PRODUCTION (YES) (circle) PRODUCTION SIZE (SML) MED LGE (circle one)

NON-PRODUCER: PRODUCTION UND NO (circle one)

EXPLORATION OR DEVELOPMENT

*STATUS

PRODUCER: STATUS AND ACTIVITY A20: 4

NON-PRODUCER: STATUS AND ACTIVITY A20:

*DISCOVERER L20:
*YEAR OF DISCOVERY L10: 1899 *NATURE OF DISCOVERY L30: B *YEAR OF FIRST PRODUCTION L40: *YEAR OF LAST PRODUCTION L45:
*PRESENT/LAST OWNER A12:
*PRESENT/LAST OPERATOR A13:
EXPL./DEV.COMMENTS L110: OWNERS INCLUDED SANTA RITA MINING CO. (1915); PRODUCTION DATA NOT 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: 4 *UNITS M51: FT
*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: BLACKSMITH PROSPECT, LOCATED LESS THAN 1/4 MILE TO NORTH, IS PROBABLY ON SAME VEIN

DESCRIPTION OF WORKINGS

Workings are: SURFACE M120 UNDERGROUND (M130) BOTH M140 (circle one)
*OVERALL LENGTH M190: *UNITS M191:
*OVERALL WIDTH M200: *UNITS M201:
*OVERALL AREA M210: *UNITS M211:
*DEPTH BELOW SURFACE M160: 180 *UNITS M161: FT
*LENGTH OF WORKINGS M170: 346 *UNITS M171: FT
DESC. OF WORK. COM. M220: MINE IS OPENED BY 2 TUNNELS AND A SHAFT; TUNNELS ARE 80 FT. APART VERTICALLY; LOWER TUNNEL IS 135 FT LONG WITH A 30-FT CROSSCUT AT ITS END; UPPER TUNNEL IS 80 FT LONG; SHAFT IS 100 FT DEEP AND IS LOCATED 100 FT ABOVE UPPER TUNNEL.

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: QUARTZ, CALCITE, LIMONITE, HORNBLENDE, BIOTITE, MAGNETITE
*ORE CONTROL/LOCUS K5: NE-TRENDING FISSURE VEIN IN FAULT CUTTING ALTERED 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: