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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: NEW HOPE MINE GROUP

ALTERNATE NAMES:

DONA MARIA ELENA
NATIVE SILVER PROSP.

SANTA CRUZ COUNTY MILS NUMBER: 37C

LOCATION: TOWNSHIP 22 S RANGE 15 E SECTION 35 QUARTER N2
LATITUDE: N 31DEG 28MIN 33SEC LONGITUDE: W 110DEG 47MIN 03SEC
TOPO MAP NAME: NOGALES - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER SULFIDE
SILVER
ZINC SULFIDE
LEAD SULFIDE
GOLD

BIBLIOGRAPHY:

AZBM BULL. 191, P. 74
USGS BULL. 582, P. 291-292

NEW HOPE MINE GROUP

REFERENCES

SANTA CRUZ COUNTY

ABM Bull. 191, p. 74

USGS Bull 582, p. 291--292

MILS Sheet sequence number 0040230298

*GENERAL REFERENCES

REFERENCE 1 F1 < USBM-A MT PRODUCTION FILE DATA >
 REFERENCE 2 F2 < USBM FILE DATA -CLUSTER #54, NEW HOPE MINE GROUP >
 REFERENCE 3 F3 < KEITH, S.B., 1975, ARM BULL. 191, p. 74 >
 REFERENCE 4 F4 < SCHRADER, F.C., 1915, USGS BULL. 582, p. 291-92 >

F5 < ABGMT FILES STANTON B. KEITH >
 F6 < SIMONS, F.S., USGS MAP I-762 (1:48000) >

L110 < MAINLY FOR LEACHING ORE FROM 1957 THROUGH 1969 >

K1A < GRIT >

K5 < ASSOCIATED WITH QUARTZ ON FRACTURES AND JOINTS IN SILICIFIED TRIASSIC SEDIMENTS >

N5 < JURASSIC GRANITIC INTRUSIVE >

N85 < (COVELLITE OR CHALCOCITE); VEINS ARE PSEUDO-BANDED, DUE TO ALTERATION OR REPLACEMENT OF PRIMARY ROCK CONSTITUENTS >

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < >
 REPORT DATE G1 < 82.405 >
 YR. MO.
 REPORTER(SUPERVISOR) G2 < LARABA PETER >
 (last, first, middle initial)
 REPORTER AFFILIATION G5 < ABGMT >
 SYNONYMS A11 < DONA MARIA ELENA >
 NC
 DEPOSIT NUMBER B40 < >
 INFORMATION SOURCE B30 < 12 >
 FILE LINK IDENT. B50 < USBM-0040230298 >
 (CALDER SUSAN)
 (last, first, middle initial)
 SITE NAME A10 < NEW HOPE MINE GROUP >

LOCATION

MINING DISTRICT/AREA A30 < PALMETO DISTRICT >
 COUNTY A60 < SANTA CRUZ >
 PHYSIOGRAPHIC PROV. A63 < 12 >
 DRAINAGE AREA A62 < 1505030.1 >
 QUADRANGLE NAME A90 < CUERO CANYON, ARIZ >
 SECOND QUAD NAME A92 < NOGALES >
 ELEVATION A107 < 4400 FT >
 STATE A50 < AZ >
 COUNTRY A40 < U.S. >
 LAND STATUS A64 < 41 >
 QUADRANGLE SCALE A100 < 24000 >
 SECOND QUAD SCALE A91 < 62500 >

UTM
 NORTHING A120 < 3482230 >
 EASTING A130 < 520510 >
 ZONE NUMBER A110 < 12 >
 ACCURACY
 ACCURATE ACC (circle)
 ESTIMATED EST < >
 GEODETIC
 LATITUDE A70 < 31-28-33 N >
 LONGITUDE A80 < 110-47-03 W >

CADASTRAL
 TOWNSHIP(S) A77 < 0225 >
 SECTION(S) A79 < 35 >
 SECTION FRACTION(S) A76 < NE OF SW >
 MERIDIAN(S) A81 < GILA AND SALT RIVER >
 RANGE(S) A78 < 015E >

POSITION FROM NEAREST PROMINENT LOCALITY A82 < 5 MILES NE OF NOGALES INTERNATIONAL AIRPORT >
 LOCATION COMMENTS A83 < ON THE NORTH SIDE OF THREE R CANYON, ABOUT 0.3 MILES NE OF LOOKOUT MINE >

ESSENTIAL INFORMATION
 ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITIES PRESENT	C10	Cu, Ag, Zn, Pb, Au
ORE MINERALS	C30	Pyrite, Chalcopyrite, Galena, Sphalerite
COMMODITY SUBTYPES	C41	
GEN. ANALYTICAL DATA	C43	ORE AVERAGED ABOUT 1.7% Cu, 1.6 OZ/TON Ag, MINOR Zn, Pb AND Au
COM. INFO. COMMENTS	C50	

	SIGNIFICANCE	PRODUCER
MAJOR PRODUCTS	MAJOR	C.W. A.G. B.
MINOR PRODUCTS	MINOR	Z.N. P.B. B.D.
POTENTIAL PRODUCTS	POTEN	
OCCURRENCES	OCCUR	

MAIN COMMODITIES PRESENT C11 < >

MINOR COMMODITIES PRESENT C12 < >

OCCURRENCES OCCUR < >

PRODUCTION YES (circle) PRODUCTION SIZE SML MED LGE (circle one)

PRODUCTION UND NO (circle one)

NON-PRODUCER

STATUS AND ACTIVITY A20 (4)

STATUS AND ACTIVITY A20 ☐

DISCOVERER L20 _____
 YEAR OF DISCOVERY L10 _____ NATURE OF DISCOVERY L30 (B) YEAR OF FIRST PRODUCTION L40 (1957) YEAR OF LAST PRODUCTION L45 (1969)
 PRESENT/LAST OWNER A12 _____
 PRESENT/LAST OPERATOR A13 (CONLEY, KECK COPPER CO. (1969))
 EXPL./DEV. COMMENTS L110 (OTHER PAST OPERATORS INCLUDE: PAUL CONLEY (1957-59, 1964-65),
 P. CONLEY AND NELSON (1962). PROSPECTED ORIGINALLY IN THE LATE 1800'S ; MINED)

DEPOSIT TYPE(S)	C40 <u>DISSEMINATED / SHEAR ZONE</u>									
DEPOSIT FORM/SHAPE	M10 <u>TABULAR - POCKETS; IRREGULAR</u>									
DEPTH TO TOP	M20 <u> </u>	*UNITS M21 <u> </u>	*MAXIMUM LENGTH		M40 <u> </u>	*UNITS M41 <u> </u>				
DEPTH TO BOTTOM	M30 <u> </u>	*UNITS M31 <u> </u>	*MAXIMUM WIDTH		M50 <u> </u>	*UNITS M51 <u> </u>				
DEPOSIT SIZE	M15 <u>SMALL</u>	M15 <u>MEDIUM</u>	M15 <u>LARGE</u>	(circle one)		*MAXIMUM THICKNESS		M60 <u> </u>	*UNITS M61 <u> </u>	
STRIKE	M70 <u> </u>					*DIP		M80 <u> </u>		
DIRECTION OF PLUNGE	M100 <u> </u>					*PLUNGE		M90 <u> </u>		
DEP. DESC. COMMENTS	M110 <u> </u>									

Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one)

*DEPTH-BELOW SURFACE M160 < > *UNITS M161 < >

*LENGTH OF WORKINGS M170 < > *UNITS M171 < >

DESC. OF WORK. COM. M220

*OVERALL LENGTH M190 < > UNITS M191 < >

*OVERALL WIDTH M200 < > UNITS M201 < >

*OVERALL AREA M210 < > UNITS M211 < >

SHAFT AND OPEN CUT OPERATIONS

* AGE OF HOST ROCK(S) K1<TR.I. ✓

* HOST ROCK TYPE(S) K1A<RHYOLITIC TO LATITIC LAVA AND TUFF. SOME SILICIFIED, TUFFACEOUS SANDSTONE OR

* AGE OF IGNEOUS ROCK(S) K2<JUR. ✓ 120 ± 60 m.y. (SIMON'S F.S. 1974)

* IGNEOUS ROCK TYPE(S) K2A<COARSE-GRAINED GRANITE OF COMORO CANYON

* AGE OF MINERALIZATION K3<LCRET-TERT. ✓

* PERT. MINERALS (NOT ORE) K4<QUARTZ

* ORE CONTROL/LOCUS K5<N-S TRENDING FRACTURE SYSTEM; DISSEMINATED PYRITE AND CHALCOPYRITE

* MAJ. REG. TRENDS/STRUCT. N15<N-S TRENDING GROUPS OF ROUGHLY PARALLEL QUARTZ FISSURE VEINS CUTTING-

* TECTONIC SETTING N15<NNW-TRENDING PATAGONIA BATHOLITH

* SIGNIFICANT LOCAL STRUCT. N70<

* SIGNIFICANT ALTERATION N75<TRIASSIC SEDIMENTS ARE EPIDOTIZED, SHEARED, AND SILICIFIED

* PROCESS OF CONC./ENRICH. N80<SOME SUPERGENE ENRICHMENT; OXIDATION NEAR SURFACE

* FORMATION AGE N30< ✓

* FORMATION NAME N30A<

* SECOND FM AGE N35< ✓

* SECOND FM NAME N35A<

* IGNEOUS UNIT AGE N50<TR.I. ✓

* IGNEOUS UNIT NAME N50A<MOUNT WRIGHTSON FORMATION

* SECOND IG. UNIT AGE N55< ✓

* SECOND IG. UNIT NAME N55A<

* GEOLOGY COMMENTS N85<ALONG JOINTS AND FRACTURES IN REGION OF COX GULCH, ARE FOUND 1/2-INCH
VEINS OF PYRITE CHALCOPYRITE, AND A BLACK IRIDESCENT COPPER-BEARING SULFIDE

GENERAL COMMENTS GEN <