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PRINTED: 08-23-2012

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SHAMROCK

ALTERNATE NAMES:
GROSS GOLD VEIN

SANTA CRUZ COUNTY MILS NUMBER: 76C

LOCATION: TOWNSHIP 23 S RANGE 15 E SECTION 26 QUARTER NE
LATITUDE: N 31DEG 24MIN 20SEC LONGITUDE: W 110DEG 47MIN 05SEC
TOPO MAP NAME: NOGALES - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
GOLD
SILVER
MANGANESE

BIBLIOGRAPHY:
USGS NOGALES QUAD
ADMMR "U" CARD AU18 (USBM FIELD NOTES)
SCHRADER, F.C., 1915, USGS BULL. 582, P. 311
AZBM CARD FILE SANTA CRUZ CO.
ADMMR SHAMROCK FILE

SHAMROCK MINE 9/84 SANTA CRUZ COUNTY
PATAGONIA DISTRICT
T23S R15E Sec. 26

MILS SANTA CRUZ INDEX #76C

USGS Bull. 582, p. 311

Cumero Canyon 7.5 (included in file)

* GENERAL REFERENCES

REFERENCE 1 F1 < USBM FILE DATA CLUSTER # 22, SHAMROCK MINE

REFERENCE 2 F2 < SCHRADER, F.C., 1915, USGS BULL. 582, p. 311

REFERENCE 3 F3 < SIMONS, FRANK S., 1974, GEOLOGIC MAP AND SECTIONS OF THE NOGALES AND LOCHIEL QUADRANGLES, SANTA CRUZ COUNTY, ARIZONA; USGS MAP I-762 (1:48000)

REFERENCE 4 F4 <

N5 < AT ABOUT RIGHT ANGLES TO AXIS OF RANGE >
N70 < THE FOOTWALL >
N75 < LIMONITE AND MANGANESE OXIDE >

N85 < NORTHWARD FOR 6 MILES >

mtls # 76C

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 < 1, 2 >
+FILE LINK IDENT. B50 < USBM-0040230355 >

*REPORTER(SUPERVISOR) G2 < LARABA, PETER, H. (last, first, middle initial) (CALDER, SUSAN (last, first, middle initial))>
*REPORTER AFFILIATION G5 < ABGMT >
*SITE NAME A10 < SHAMROCK MINE >
SYNONYMS A11 < GROSS GOLD VEIN PROSPECT >

LOCATION

*MINING DISTRICT/AREA A30 < PATAGONIA 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 < NOGALES, AZ. (1, 9, 5, 8,) >
*QUADRANGLE SCALE A100 < 6, 2, 5, 0, 0, >
SECOND QUAD NAME A92 < ( ) >
SECOND QUAD SCALE A91 <>
+ELEVATION A107 < 4, 5, 8, 0 FT. >

UTM

*NORTHING A120 < 3, 4, 6, 9, 4, 5, 0, >
*EASTING A130 < 5, 2, 6, 8, 2, 5, >
*ZONE NUMBER A110 < +1, 2 >

*ACCURACY

ACCURATE (ACC) (circle)
ESTIMATED EST <>

GEODETIC

+LATITUDE A70 < 31, -21, -39, N, >
+LONGITUDE A80 < 111, 0, -43, -05, W, >

CADASTRAL

+TOWNSHIP(S) A77 < 023, S, >
+RANGE(S) A78 < 015, E, >
*SECTION(S) A79 < 26 >
+SECTION FRACTION(S) A76 < C OF N½ OF N½ >
+MERIDIAN(S) A81 < GILA AND SALT RIVER >

+POSITION FROM NEAREST PROMINENT LOCALITY A82 < 4.2 MILES E-SE OF NOGALES INTERNATIONAL AIRPORT >
+LOCATION COMMENTS A83 < UPPER PART OF WILD HOG CANYON, 3/4 OF A MILE NE OF THE GROSS MINE >

* ESSENTIAL INFORMATION
+ ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

*COMMODITIES PRESENT C10 <A.U. A.G.>
*ORE MINERALS C30 <UNKNOWN>
COMMODITY SUBTYPES C41 <>
*GEN. ANALYTICAL DATA C43 <>
COM. INFO. COMMENTS C50 <>

SIGNIFICANCE

PRODUCER		NON-PRODUCER	
MAJOR PRODUCTS	MAJOR < >	MAIN COMMODITIES PRESENT	C11 <A.G. A.U.>
MINOR PRODUCTS	MINOR < >	MINOR COMMODITIES PRESENT	C12 < >
POTENTIAL PRODUCTS	POTEN < >		
OCCURRENCES	OCCUR < >	OCCURRENCES	OCCUR <M.O.>

*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 < >	STATUS AND ACTIVITY A20 <2>

*DISCOVERER L20 <>
*YEAR OF DISCOVERY L10 < > *NATURE OF DISCOVERY L30 <B> *YEAR OF FIRST PRODUCTION L40 < > *YEAR OF LAST PRODUCTION L45 <>
*PRESENT/LAST OWNER A12 <GEORGE GROSS (1915)>
*PRESENT/LAST OPERATOR A13 <>
EXPL./DEV.COMMENTS L110 <>

DESCRIPTION OF DEPOSIT

*DEPOSIT TYPE(S) C40 <VEIN / SHEAR ZONE>
DEPOSIT FORM/SHAPE M10 <TABULAR>
*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 <E-W> *DIP M80 <60 SE>
DIRECTION OF PLUNGE M100 < > *PLUNGE M90 < >
DEP. DESC. COMMENTS M110 <VEIN IS SAID TO HAVE YIELDED VERY RICH GOLD-SILVER ORE NEAR SUREACE>

DESCRIPTION OF WORKINGS

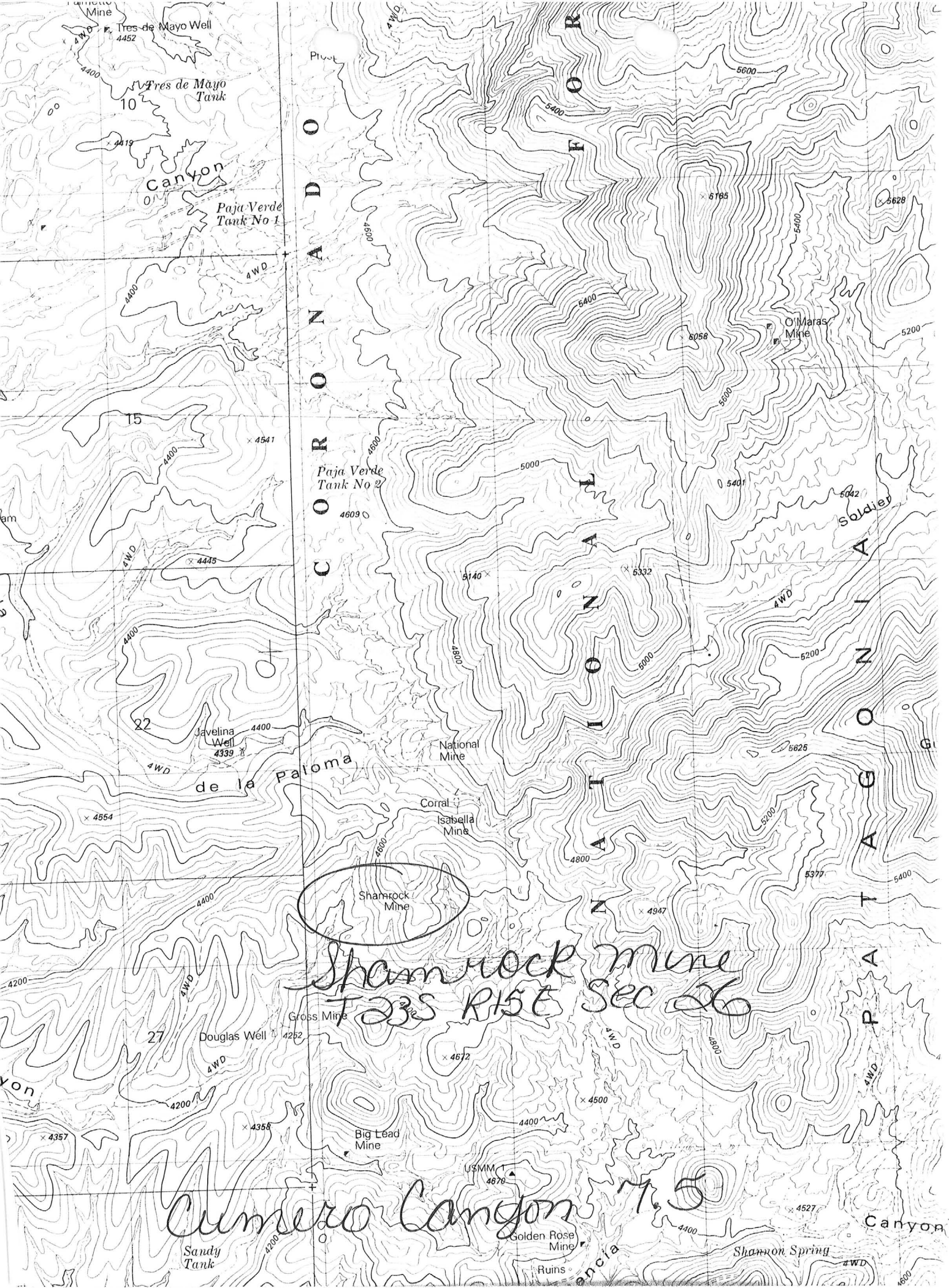
*Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one) *OVERALL LENGTH M190 < > *UNITS M191 < >
*DEPTH BELOW SURFACE M160 <40> *UNITS M161 <FT> *OVERALL WIDTH M200 < > *UNITS M201 < >
*LENGTH OF WORKINGS M170 <140> *UNITS M171 <FT> *OVERALL AREA M210 < > *UNITS M211 < >
DESC. OF WORK. COM. M220 <OPENED BY A 140-FOOT TUNNEL, A DRIFT, AN UPRAISE, AND A 40-FOOT SHAFT.>

GEOLOGY

*AGE OF HOST ROCK(S) K1 <J.U.R. LEAD-ALPHA AGE ON ACCESSORY ZIRCON IS 160±20 m.y. (SIMONS, F.S., 1974)>
*HOST ROCK TYPE(S) K1A <COARSE-GRAINED EQUIGRANULAR GRANITE PORPHYRY>
*AGE OF IGNEOUS ROCK(S) K2 <P.REC. PRECAMBRIAN AGE UNCERTAIN (SIMONS, F.S., 1974)>
*IGNEOUS ROCK TYPE(S) K2A <HORNBLENDE-RICH METAMORPHIC AND IGNEOUS ROCKS; DIORITE>
*AGE OF MINERALIZATION K3 <L.CRET.-T.E.R.T. (?)>
*PERT. MINERALS (NOT ORE) K4 <LIMONITE, MANGANESE OXIDE>
*ORE CONTROL/LOCUS K5 <E-W TRENDING QUARTZ VEIN BETWEEN INTRUSINE GRANITE PORPHYRY AND DIORITE>
*MAJ. REG. TRENDS/STRUCT. N5 <DEPOSITS IN REGION ARE MAINLY LEAD-SILVER QUARTZITIC VEINS WHICH STRIKE E-W>
*TECTONIC SETTING N15 <N-S TRENDING PIEDMONT FAULT; PATAGONIA RANGE UPLIFTED ON EAST>
*SIGNIFICANT LOCAL STRUCT. N70 <DEPOSIT OCCURS CHIEFLY IN GRANITE PORPHYRY. DIORITE IS EXPOSED AT PLACES IN>
*SIGNIFICANT ALTERATION N75 <VEIN CONTAINS QUARTZ AND CRUSHED ALTERED ROCK STAINED REDDISH WITH>
*PROCESS OF CONC./ENRICH. N80 <MINERALIZATION ALONG GRANITE PORPHYRY-DIORITE CONTACT>
*FORMATION AGE N30 <>
*FORMATION NAME N30A <>
SECOND FM AGE N35 <>
SECOND FM NAME N35A <>
*IGNEOUS UNIT AGE N50 <J.U.R.>
*IGNEOUS UNIT NAME N50A <COMORO CANYON GRANITE>
SECOND IG. UNIT AGE N55 <>
SECOND IG. UNIT NAME N55A <>
EOLOGY COMMENTS N85 <PROSPECT LOCATED IN GROSS BELT; BELT AND FOOTHILLS SEPARATED FROM STEEP SLOPES OF RANGE BY PIEDMONT-LIKE VALLEY ALONG WHICH PIEDMONT FAULT RUNS; EXTEDS>

GENERAL COMMENTS

GENERAL COMMENTS GEN <>


Tres de Mayo Well
4452
Tres de Mayo Tank
10
Canyon
Paja Verde Tank No 1
CORONADO FOR
15
Paja Verde Tank No 2
4609
4541
4445
22
Javelina Well
4339
de la Paloma
National Mine
Corral
Isabella Mine
4554
Shamrock Mine
4947
Shamrock Mine
T23S R15E Sec 26
27
Gross Mine
Douglas Well
4252
4672
4500
4358
4357
Big Lead Mine
USMM
4670
Cumero Canyon 7.5
Golden Rose Mine
Ruins
Sandy Tank
Shannon Spring
4527
Canyon
O'Maras Mine
6195
5628
6058
5401
5042
5332
5140
5625
5377
Soldier
PATAGONIA