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PRINTED: 01/31/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MARK TWAIN

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 1155A

LOCATION: TOWNSHIP 12 N RANGE 2 W SECTION 4 QUARTER NW
LATITUDE: N 34DEG 24MIN 53SEC LONGITUDE: W 112DEG 28MIN 41SEC
TOPO MAP NAME: GROOM CREEK - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
SILVER
LEAD

BIBLIOGRAPHY:

USGS GROOM CREEK QUAD
YAVAPAI MAGAZINE MAY 1918 P 4-5, SHARLOT HALL MUSEUM PRESCOTT, AZ
LINDGREN, W. ORE DEPTS JEROME & BRADSHAW MTNS QUADS USGS BULL 782 1926 P 117-118
WEED, W.H. MINES HANDBOOK VOL 13 1918 P 516 SEE LOOKOUT
ADMMR MARK TWAIN FILE
AZ. MINING JOURNAL DEC. 1919, P 30
USGS CRIB INFORMATION

Yavapai Magazine May 1918, p. 4-5; Sharlot Hall Museum, Prescott.
(ADMR also has a copy)

USGS Bul. 782, P. 29, 40, ~~113~~, 117-118

Mines Handbook Vol. 13, 1918, p. 516 - see Lookout

Arizona Mining JOurnal December 1919 p. 30

Yavapai Magazine 1921, VII, number 6, p. 10

MARK TWAIN YAVAPAI COUNTY

GI WR 8/23/77: Jeff Dawson, 4664 N. Pamona, 85705 phone 887-9615, asked about the Mark Twain Mine in Yavapai County. The only information available was pages 117 - 118, USGS Bul. 782, mailed him a copy.

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* GENERAL REFERENCES

Make file MILS p. 9061

REFERENCE 1 F1 <USBM-ABGA FILE DA → Data

REFERENCE 2 F2 <ABGMT CLIPPINGS FILE DATA

REFERENCE 3 F3 <U.S.G.S. BULL 782, p.118

REFERENCE 4 F4 <YAVAPAI MAG. 1918, V. VI, #5, p. 4-5

F5 <YAVAPAI MAG. 1921, V II, #6, p. 10 >

F6 <USGS GR MAP GR 997 >

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

*RECORD NUMBER B10 <>

*RECORD TYPE B20 <X,1,M>

DEPOSIT NUMBER B40 <>

*REPORT DATE G1 <8,1,/,1,2> (YR. MO.)

*INFORMATION SOURCE B30 <1,2>

*FILE LINK IDENT. B50 <USBM-004 025 1364>

*REPORTER(SUPERVISOR) G2 <LARABA, PETER (DEWITT, ED> (last, first, middle initial) (last, first, middle initial)

*REPORTER AFFILIATION G5 <ABG MT>

*SITE NAME A10 <MARK TWAIN MINE>

SYNONYMS A11 <>

LOCATION

*MINING DISTRICT/AREA A30 <HASSAYAMPA DISTRICT>

*COUNTY A60 <YAVAPAI>

*STATE A50 <A,Z>

*COUNTRY A40 <U.S.>

*PHYSIOGRAPHIC PROV A63 <1,2,/>

*DRAINAGE AREA A62 <1,5,0,7,0,1,0,3,/>

*LAND STATUS A64 <0,0,/, /,( )>

*QUADRANGLE NAME A90 <GROOM CREEK (1,9,7,4,)>

*QUADRANGLE SCALE A100 <2,4,0,0,0>

SECOND QUAD NAME A92 <( )>

SECOND QUAD SCALE A91 <>

*ELEVATION A107 <6,5,0,0,/,F,T>

UTM

*NORTHING A120 <3,9,0,8,0,0>

*EASTING A130 <3,6,4,2,4,5>

*ZONE NUMBER A110 <+,1,2>

*ACCURACY

ACCURATE ACC (circle)

ESTIMATED EST <>

GEODETIC

*LATITUDE A70 <- - N>

*LONGITUDE A80 <- - W>

CADASTRAL

*TOWNSHIP(S) A77 <0,1,2,N,:,/,:,/,:,/>

*RANGE(S) A78 <0,0,2,W,:,/,:,/,:,/>

*SECTION(S) A79 <04,:,/,:,/,:,/>

*SECTION FRACTION(S) A76 <NW OF SE OF NW>

*MERIDIAN(S) A81 <GILA AND SALT RIVER>

*POSITION FROM NEAREST PROMINENT LOCALITY A82 <4.3 MILES W OF THE MT. UNION LOOKOUT TOWER>

*LOCATION COMMENTS A83 <THE MARK TWAIN ADJOINS THE BLUE DICK ON THE WEST SIDE>

* ESSENTIAL INFORMATION

+ ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

*COMMODITIES PRESENT C10 < C, U, B, W, A, U, W, W, B, W, W, W >
*ORE MINERALS C30 < PYRITE, ARSENOPYRITE, SPHALERITE, GALENA, CHALCOPYRITE, TETRAHEDRITE
COMMODITY SUBTYPES C41 < W
*GEN. ANALYTICAL DATA C43 < AG
COM. INFO. COMMENTS C50 <

* SIGNIFICANCE

	PRODUCER		NON-PRODUCER	
MAJOR PRODUCTS	MAJOR < AG, W, W, W >		MAIN COMMODITIES PRESENT C11 < W, W, W >	
MINOR PRODUCTS	MINOR < A, U, W, P, B, W, C, U, W >		MINOR COMMODITIES PRESENT C12 < W, W, W >	
POTENTIAL PRODUCTS	POTEN < W, W, W >			
OCCURRENCES	OCCUR < W, W, W >		OCCURRENCES	OCCUR < W, W, W >

*PRODUCTION

PRODUCER	NON-PRODUCER
PRODUCTION (YES) (circle) PRODUCTION SIZE (SML) MED LGE (circle one)	PRODUCTION UND NO (circle one)

*STATUS — EXPLORATION OR DEVELOPMENT

PRODUCER	NON-PRODUCER
STATUS AND ACTIVITY A30 < 4 >	STATUS AND ACTIVITY A30 < >

*DISCOVERER L20 <
*YEAR OF DISCOVERY L10 < > *NATURE OF DISCOVERY L30 < B > *YEAR OF FIRST PRODUCTION L40 < 1906 > *YEAR OF LAST PRODUCTION L45 < 1949
*PRESENT/LAST OWNER A12 < FRANK MURPHY (1921) LOOKOUT COPPER CO. (1918)
*PRESENT/LAST OPERATOR A13 < MARK TWAIN MNG. CO.
EXPL./DEV. COMMENTS L110 < 4 CLAIMS. (1921)

DESCRIPTION OF DEPOSIT

*DEPOSIT TYPE(S) C40 < VEIN
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 < NORTH > *DIP M80 < EAST, STEEPLY
*DIRECTION OF PLUNGE M100 < > *PLUNGE M90 <
*DEP. DESC. COMMENTS M110 < THE MARK TWAIN VEIN IS PARALLEL TO THE VEIN IN THE BLUE DICK

DESCRIPTION OF WORKINGS

*Workings are: SURFACE M120 UNDERGROUND (M130) BOTH M140 (circle one) *OVERALL LENGTH M190 < > *UNITS M191 <
*DEPTH BELOW SURFACE M160 < > *UNITS M161 < > *OVERALL WIDTH M200 < > *UNITS M201 <
*LENGTH OF WORKINGS M170 < > *UNITS M171 < > *OVERALL AREA M210 < > *UNITS M211 <
DESC. OF WORK. COM. M220 < MARK TWAIN VEIN IS DEVELOPED BY TUNNELS ON THE WEST SIDE OF THE RIDGE

GEOLOGY

*AGE OF HOST ROCK(S) K1 < P, R, O, T, T, E, R, T, W, U/PB ZIRCON GREATER THAN 1760 MILLION YEARS; UNDATED
*HOST ROCK TYPE(S) K1A < AMPHIBOLITE, SLATE, RHYOLITE
*AGE OF IGNEOUS ROCK(S) K2 < P, R, O, T, T, E, R, T, W, U/PB ZIRCON GREATER THAN 1760 MILLION YEARS
*IGNEOUS ROCK TYPE(S) K2A < META-BASALT; RHYOLITE
*AGE OF MINERALIZATION K3 < C, R, E, T, -, P, A, L, E, O, W, UNDATED, PROBABLY PALEOCENE - MIOCENE; POSSIBLY PRECAMBRIAN
*PERT. MINERALS (NOT ORE) K4 < QUARTZ, PYRITE
*ORE CONTROL/LOCUS K5 < FAULTING, SHEARING
*MAJ. REG. TRENDS/STRUCT. N5 < FOLIATION IN PRECAMBRIAN ROCKS TRENDS NJOE TO N 10 W
*TECTONIC SETTING N15 <
*SIGNIFICANT LOCAL STRUCT. N70 < DIKES AND VEINS PARALLEL FOLIATION
*SIGNIFICANT ALTERATION N75 < NONE
*PROCESS OF CONC./ENRICH. N80 < OXIDATION AT NEAR SURFACE
*FORMATION AGE N30 < P, R, O, T, W, U/PA ZIRCON GREATER THAN 1760 MILLION YEARS
*FORMATION NAME N30A < UNDIFFERENTIATED GREEN GULCH VOLCANICS
SECOND FM AGE N35 < W
SECOND FM NAME N35A <
*IGNEOUS UNIT AGE N50 < C, R, E, T, -, T, E, R, T, W
*IGNEOUS UNIT NAME N50A < UNNAMED RHYOLITE DIKES
SECOND IG. UNIT AGE N55 < W
SECOND IG. UNIT NAME N55A <
GEOLOGY COMMENTS N85 < DEPOSIT IS VEIN WHICH CUTS PRECAMBRIAN METAVOLCANIC AND METASEDIMENTARY ROCKS. RHYOLITE PORPHYRY DIKES OF PROBABLE (CRET-TERT AGE ASSOCIATED WITH VEINS

GENERAL COMMENTS

GENERAL COMMENTS GEN <