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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: OLD MAMMON

ALTERNATE NAMES:

MORAND AND PETERSON PROPERTY
PIONEER GOLD
RAZOR BACK
SERPENT
MAMMON

PINAL COUNTY MILS NUMBER: 679

LOCATION: TOWNSHIP 10 S RANGE 4 E SECTION 24 QUARTER SW
LATITUDE: N 32DEG 32MIN 36SEC LONGITUDE: W 111DEG 54MIN 42SEC
TOPO MAP NAME: SILVER REEF MTS - 15 MIN

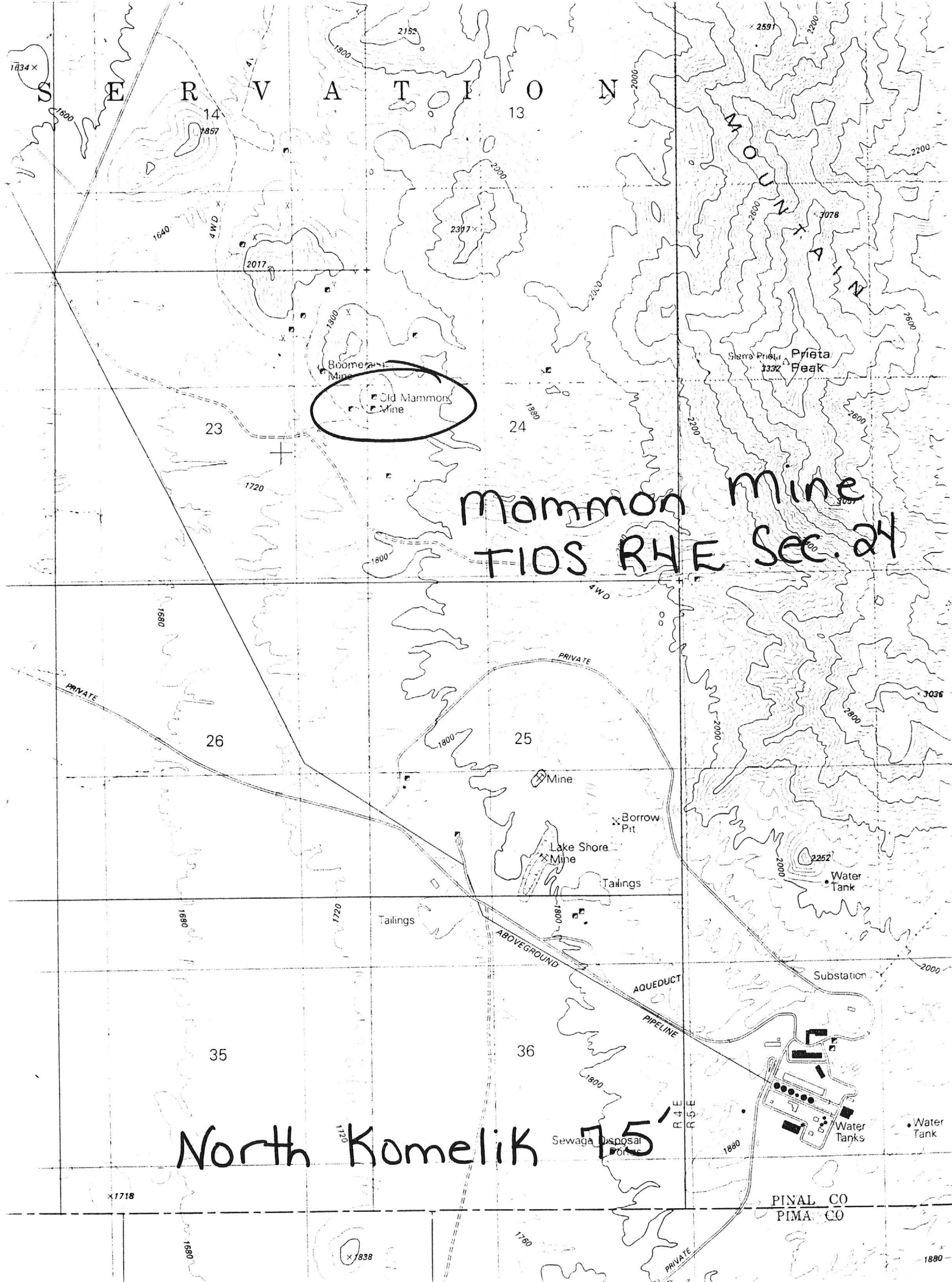
CURRENT STATUS: PAST PRODUCER

COMMODITY:

GOLD
COPPER SULFIDE

BIBLIOGRAPHY:

TENNEY, JAMES HISTORY OF MINING IN AZ 1927-29
P. 339
ADMMR OLD MAMMON MINE FILE
TENNEY, JAMES ECONOMIC GEOLOGICAL RECONN. OF
CASA GRANDE MINING DISTRICT 1933
WILSON, E.D., AZ LODE GOLD MINES AND GOLD
MINING AZBM 137, 1967, P. 175
ADMMR U FILE PINAL AU 14



Mammoth mine
TIOS R4E Sec. 24

North Komelik 75'

PINAL CO
PIMA CO

MAMMON MINE

T10 S. R4E Sec. 24

PINAL COUNTY
MAMMON DISTRICT
T10S R4E Sec. 24

ABM Bull. 137 p. 175

USGS Bull. 1355 p. 45

MILS Pinal County Index #679

AKA: Morand and Peterson Property, Pioneer Gold, Razor Back, Serpent

"U" Files

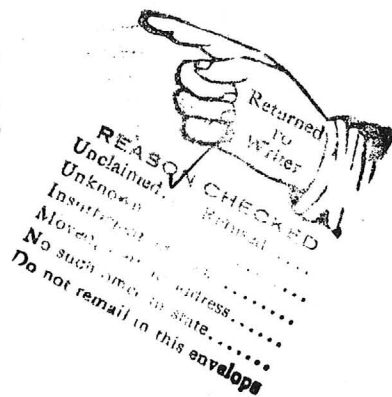
Tenney, James "History of Mining in AZ " 1927-1929 p. 339 - Geo file

Tenney, James "Economic Geological Reconnaissance of Casa Grande Mining District" 1933 - Geo

North Komelik 7.5' Topo (included in file)

*

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
Mineral Building, Fairgrounds
PHOENIX, ARIZONA



MR. H. ELLIOTT

CASA GRANDE, ARIZONA

MAMMON MINE

At

Pinal County 11 - 5 Sec. 24, 25 T 10 S, R 4 E

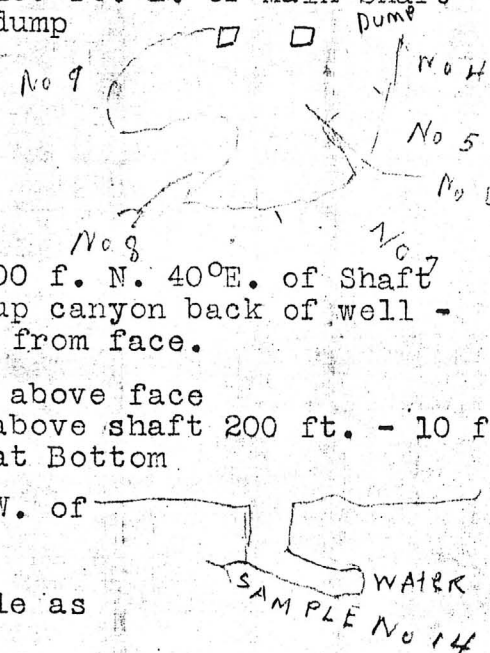
Mrs. Elizabeth Elliott, Casa Grande

'33

1938(?)

Mammon ♦ 28 M. S. Casa Grande

Samples Tripod S. 30 E. 1/4 M. of House

- No. 1 S 80 E. of Tripod 400 F. Ord. dump
about 20 tons
- No. 2 S. 20 E. of Tripod 450 F Cut in bank
of Wash 63"W.
- No. 3 Hole 14' DE. 150 ft. E. of Main Shaft
- No. 4 E. Side Main dump
- No. 5 Dump
- No. 6 Dump
- No. 7 Dump
- No. 8 Dump
- No. 9 Dump
- No. 10 50 Open Cut 500 f. N. 40°E. of Shaft
and workings up canyon back of well -
First ten ft. from face.
- No. 11 10 to 20 from above face
- No. 12 No. 40°E. of above shaft 200 ft. - 10 ft.
Hole cut 25' at Bottom
- No. 13 200 F S. 75° W. of
House - Dump
- No. 14 36' Cut in Hole as
above.
- 

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine **MAMMON MINE**

Date **January 13, 1959**

District **CASA GRANDE DISTRICT, PINAL COUNTY**

Engineer **Lewis A. Smith**

Subject: **MINE VISIT**

This property was last worked in 1940 by the lessees H. Elliott, Casa Grande and H. F. Freeman, Rialto Apts., Tucson, Ariz.

The property is well described by J. B. Tenney in his paper on the Economic Geology of the Casa Grande District, January, 1933.

Little is left of the surface plants, but evidence of the re-working of dumps and tailings was seen.

The vein material consists of spongy quartz stained by iron oxides and contains free gold, cerargyrite, vanadinite, wulfenite (two rare crystal forms), malachite and chrysocolla. A hexagonal mineral with a double flat pinacoid termination has not been determined. Some of the schistose gangue rock shows epidote and chlorite and patches of specularite (usually accompanied by copper minerals). Some vugs show limonite which has been derived pyrite. Crystals of an olive green mineral resembling pyromorphite were found on some fracture surfaces. The tailings are red colored from iron oxides. No sulphides were seen in the dump material.

Study of the outcrop disclosed a sill near the veins, which is closely related to diorite similar to the diorite porphyry sill which lies next to the old deposit $1\frac{1}{2}$ miles to the north. It is probable that the mineralization is associated with the sills of diorite porphyry, since the contact metamorphism appears to spread out from them along the bedding.

*

*GENERAL REFERENCES

REFERENCE 1 F1 <USBM- GMT PRODUCTION FILE DATA>
 REFERENCE 2 F2 <ARIZONA DEPARTMENT OF MINERAL RESOURCES FILE DATA>
 REFERENCE 3 F3 <ABGMT CLIPPINGS FILE DATA>
 REFERENCE 4 F4 <ABM, BULL 137, p. 175>

F5 <USGS MISCELLANEOUS FIELD STUDIES MAP MF-934, 1978>

N5 <AGE IS 1 MILE S AND E OF MINE>

N85 <PRECAMBRIAN OR LORET-TERT, WHICH IS AGE OF GRANODIORITE>

#679

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < > RECORD TYPE B20 <X, I, M> DEPOSIT NUMBER B40 < >
 REPORT DATE G1 <82, 403> INFORMATION SOURCE B30 <1, 2, > FILE LINK IDENT. B50 <USBM-0040210919>
 YR. MO.
 REPORTER(SUPERVISOR) G2 <LABARA, PETER> (last, first, middle initial) G2 <GEST, DON> (last, first, middle initial)
 REPORTER AFFILIATION G5 <ABGMT> SITE NAME A10 <MAMMON MINE>
 SYNONYMS A11 <OLD MAMMON MINE>

LOCATION

MINING DISTRICT/AREA A30 <MAMMON DISTRICT>
 COUNTY A60 <PINAL> STATE A60 <A, Z> COUNTRY A40 <U, S>
 PHYSIOGRAPHIC PROV A63 <1, 2, >
 DRAINAGE AREA A62 <1, 5050, 306, >
 QUADRANGLE NAME A90 <SILVER REEF MOUNTAINS> (1, 94, 2, >
 SECOND QUAD NAME A92 <North Koppelik 7.5> (1, >
 ELEVATION A107 <1, 950, >
 LAND STATUS A64 <4, 7, > (1, 9, 7, 8, >
 QUADRANGLE SCALE A100 <6250, 0, >
 SECOND QUAD SCALE A91 < >

UTM
 NORTHING A120 <36, 009, 00, >
 EASTING A130 <41, 445, 0, >
 ZONE NUMBER A110 <1, 1, 2, >
 ACCURACY
 ACCURATE ACC (circle) QUAD HAS
 ESTIMATED EST ON QUADRANGLE, BUT NO UTM
 COORDINATES ARE ON MAP
 GEODETIC
 LATITUDE A70 < > N
 LONGITUDE A80 < > W

CADASTRAL
 TOWNSHIP(S) A77 <0, 10, 5, > RANGE(S) A78 <0, 0, 4, E, >
 SECTION(S) A79 <24>
 SECTION FRACTION(S) A76 <SW OF NW>
 MERIDIAN(S) A81 <GILA AND SALT RIVER>

1 MILE

POSITION FROM NEAREST PROMINENT LOCALITY A82 <1/2 WEST OF PRIETA PEAK, SLATE MOUNTAINS>
 LOCATION COMMENTS A83 < >

COMMODITY INFORMATION

*COMMODITIES PRESENT C10 <C.U. G. MAU >
 *ORE MINERALS L30 <CHRYSOLOLLA, MALACHITE, FREE GOLD, CERARITE, WULFENITE, VANADINITE
 *COMMODITY SUBTYPES C41 <
 *GEN. ANALYTICAL DATA C43 <
 *COM. INFO. COMMENTS C50 <

* SIGNIFICANCE

PRODUCER
 MAJOR PRODUCTS MAJOR <A.U. >
 MINOR PRODUCTS MINOR <A.G. >
 POTENTIAL PRODUCTS POTEN <
 OCCURRENCES OCCUR <

NON-PRODUCER

MAIN COMMODITIES PRESENT C11 <
 MINOR COMMODITIES PRESENT C12 <
 OCCURRENCES OCCUR <

*PRODUCTION

PRODUCER
 PRODUCTION (YES) (circle) PRODUCTION SIZE (SMALL) MED LGE (circle one)

NON-PRODUCER

PRODUCTION UND NO (circle one)

*STATUS

EXPLORATION OR DEVELOPMENT

PRODUCER
 STATUS AND ACTIVITY A20 <H>

NON-PRODUCER
 STATUS AND ACTIVITY A20 <L>

*DISCOVERER L20 <JOHN MORAND AND PETERSON
 *YEAR OF DISCOVERY L10 <1892> *NATURE OF DISCOVERY L30 *YEAR OF FIRST PRODUCTION L40 <1893> *YEAR OF LAST PRODUCTION L45 <1934
 *PRESENT/LAST OWNER A12 <MORAND AND PETERSON (1892), MRS. H. ELLIOT (1930), FREE MAN AND PATERSON (1938)
 *PRESENT/LAST OPERATOR A13 <H. ELLIOT (1930), MAMMON MNG. CO., F.H. RODGERS (1931), WICHITA MINING CO. (1938)
 *EXPL./DEV. COMMENTS L110 <5 UNPATENTED CLAIMS.

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 <3> *UNITS M51 <FT
 *DEPOSIT SIZE M15 <SMALL> M15 <MEDIUM> M15 <LARGE> (circle one) *MAXIMUM THICKNESS M60 <> *UNITS M61 <>
 *STRIKE M70 <N 60 E> *DIP M80 <70 NW
 *DIRECTION OF PLUNGE M100 <> *PLUNGE M90 <>
 *DEP. DESC. COMMENTS M110 <NUMEROUS VEINS OF QUARTZ THAT CUT PRECAMBRIAN SLATES (SLATES STRIKE N20W AND DIP 50NE).

DESCRIPTION OF WORKINGS

*Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one)
 *DEPTH BELOW SURFACE M160 <> *UNITS M161 <> *OVERALL LENGTH M190 <> *UNITS M191 <>
 *LENGTH OF WORKINGS M170 <> *UNITS M171 <> *OVERALL WIDTH M200 <> *UNITS M201 <>
 *DESC. OF WORK. COM. M220 <270 FT. INCLINED SHAFT CONNECTED WITH SEVERAL HUNDREDFEET OF DRIFTS, RAISES AND STOPS. STOPPING EXTENDS TO A DEPTH OF 250 FT. AND FOR A LENGTH OF ABOUT 80 FT. SOME TRENCHING, 7 SHAFTS NEARBY (1772)
 *OVERALL AREA M210 <> *UNITS M211 <>

GEOLOGY

*AGE OF HOST ROCK(S) K1 <P.R.E.C. >
 *HOST ROCK TYPE(S) K1A <SLATE, SCHIST
 *AGE OF IGNEOUS ROCK(S) K2 <>
 *IGNEOUS ROCK TYPE(S) K2A <>
 *AGE OF MINERALIZATION K3 <>
 *PERT. MINERALS (NOT ORE) K4 <QUARTZ, EPIDOTE, CHLORITE, PYRITE
 *ORE CONTROL/LOCUS K5 <ALONG QUARTZ VEINS
 *MAJ. REG. TRENDS/STRUCT. N6 <NW TRENDING NORMAL FAULTS APPROXIMATELY 200 M E OF SHAFTS. QUARTZ DIORITE OF CRET-PALEO
 *TECTONIC SETTING N15 <>
 *SIGNIFICANT LOCAL STRUCT. N70 <SCHISTOSITY N20W 50NW
 *SIGNIFICANT ALTERATION N75 <>
 *PROCESS OF CONC./ENRICH. N80 <>
 *FORMATION AGE N30 <P.R.E.C. >
 *FORMATION NAME N30A <PINAL SCHIST
 *SECOND FM AGE N35 <>
 *SECOND FM NAME N35A <>
 *IGNEOUS UNIT AGE N50 <>
 *IGNEOUS UNIT NAME N50A <>
 *SECOND IG. UNIT AGE N55 <>
 *SECOND IG. UNIT NAME N55A <>
 *GEOLOGY COMMENTS N85 <NW TRENDING GRANODIORITE DIKE MAPPED APPROXIMATELY 200 M S OF MAIN SHAFT. OTHER GRANODIORITE DIKES ARE NE TRENDING IN SLATE MOUNTAINS. AGE OF MINERALIZATION IS EITHER

GENERAL COMMENTS

GENERAL COMMENTS GEN <

Excerpt from: Economic Geological Reconnaissance
of Casa Grande Mining District
By J. B. Tenney
January 1933

OLD MAMMON MINE

History and Production

This old gold property is the only property now producing in the district. It was discovered by John Morand and Peterson in 1892 and a company was shortly organized to exploit the find. By 1893, a well had been sunk to water, a pipe line had been laid to the mine, and a twenty stamp amalgamation mill had been built. The vein was opened up and the mill was operated intermittently until the middle of 1897. A total of about 2500 tons was treated of ore netting about \$14 in gold which yielded about \$35,000 from an ore shoot 80 feet long and two feet thick stoped to a depth of 250 feet, at which depth the shoot was bottomed.

Little work was done after 1897 until late in 1932 when the property was bonded by Mrs. Elizabeth Elliot of Casa Grande, the present owner, to Mr. Minor. Surface trenching near the old workings uncovered a parallel vein from which a test shipment of two tons made in January, 1933, returned over \$30 a ton in gold.

Location and Mining Property

The mine is on the western slope of the ridge about midway of its length in a shallow basin cut by a northwestward flowing arroya. It is reached from the county highway between Casa Grande and Covered Wells by about a mile of fair desert road. The total distance from Casa Grande is about 33 miles.

The property is composed of five claims none of which are patented. The camp consists of one large adobe cabin and several smaller frame cabins.

Mine Development

The principal work on the property has been done from an inclined stull-timbered shaft sunk to a depth of 270 feet, off of which are several hundred feet of drifts and raises, all connected with partly filled stopes in an ore shoot in a vein striking north 60 degrees east dipping 70 degrees to the northwest. The stoping extends on both sides of the shaft and has an average length of about 80 feet and a thickness of ore varying from a foot to three feet. The stopes were broken to a width of about three feet and the waste was used as back fill. In addition to the main workings the property has been prospected by numerous trenches, open cuts and shallow pits. The present work consists of trenching on a second parallel vein about twenty feet southeast of the older worked vein.

Geology and Ore Occurrence

The property is located on pre-Cambrian schist composed essentially of sandy slates. The schistosity has been developed parallel to the bedding and strikes north 20 degrees West and dips 50 degrees to the Northeast. Cutting the schist are many white quartz veins, some of which cut across the schistosity

and others of which occur as lenses in the schist. These veins are slightly stained with limonite and occasional chrysocolla and malachite. Free gold is erratically distributed in them.

The principal vein worked in the past strikes North 60 degrees East and dips 70 degrees to the Northwest throughout most of its course and where stopped. About 200 feet northeast of the shaft, it makes a sharp bend to the right and at about 50 feet from the bend changes its strike to conform with the schistosity, south 20 degrees east. The thickness of the vein varies from a few inches to a maximum of three feet with an average of about 20 inches.

A parallel vein now being exposed by trenching, the outcrop of which was masked by detritus, occurs about 20 feet southeast of the older vein. Its thickness, exposed over a length of about 50 feet of trench, averages about 20 inches. Two tons shipped in January, 1933, returned over \$30 a ton. Development work on this vein is now in progress.

Possibilities

The existence of high grade gold ore shoots in the veins cutting the schist in this area, of sufficient size to warrant limited mine equipment has been demonstrated by past operations. The shoots are small but rich enough to warrant considerable expenditure in trenching and sampling, and the ore is rich enough to stand haulage and freight charges to custom smelters.

DEPARTMENT OF MINERAL RESOURCES
News Items

Date 7/24/40

Mine Mammon

Location 28 mi. S. of Casa Grande

Owner ^XH. Elliott & H. F. Freeman

Address Casa Grande Rialto Apts., Tucson

Lessee
Operating Co. Tom Puryear

Address

Pres. No corp

Genl. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Gold

Men Employed 2

Production Rate Not established

Mill, Type & Capacity None

Power, Amt. & Type 1 Hoist Gaso

1 40 HP. Eng. 1 Buick Eng.

Signed M. M. C.

(Over)

DEPARTMENT OF MINERAL INVESTIGATION
Present Operations

News Items

Date 7/24/40

Mine Location

Location 28 mi. S. of Casa Grande

Owner H. Elliott & H. W. Elliott

Address Casa Grande, Arizona

Lessee

Operating Co. Not Known

Address

Miscellaneous Notes

Pres. E. L. Patterson, Tucson

Genl. Mgr. Casa Grande

Mine Supt. Earl Sherwood

Mil. Supt. Casa Grande

Principal Metals Gold

Men Employed 2

Production Rate Not Estimated

Mill Type & Capacity None

Power Amt. & Type 1 Motor Casa

1 40 HP. Elec. 1 Buick Truck

Signed H. W. Elliott

(Over)

DEPARTMENT OF MINERAL RESOURCES

News Items

Date Dec. 2, 1940

Mine Mammon

Location

Owner Elliot & Freeman

Address

Watchman

Operating Ger: Earl Sherwood

Address Casa Grande

Lessee: Tom Puryear

Pres.

Genl. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Gold

Men Employed

Production Rate

Mill, Type & Capacity

Trying to mill C Jack Rabbit-Jan 1, '41

Power, Amt. & Type

Signed M. M. C.

(Over)