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Arizona Department of Mines and Mineral Resources Mining Collection

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: STAR

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 197

LOCATION: TOWNSHIP 21 S RANGE 15 E SECTION 36 QUARTER NW
LATITUDE: N 31DEG 34MIN 07SEC LONGITUDE: W 110DEG 46MIN 15SEC
TOPO MAP NAME: MOUNT WRIGHTSON - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
MANGANESE OXIDE
GOLD

BIBLIOGRAPHY:
AZBM CARD FILE SANTA CRUZ CO.
ADMMR STAR FILE
SCHRADER, F.C., 1915, USGS BULL. 582, P. 226
USGS PP 748, P. 14-15

STAR MINE 6/84

SANTA CRUZ COUNTY
IVANHOE DISTRICT (Wrighton)
T21S R15E Sec. 36

MILS Santa Cruz Index #197

USGS Bull. 582, p.226

USGS PP 748, p. 14-15

*GENERAL REFERENCES

GC ?

REFERENCE 1 F1 < USBM FIL , STAR PROSPECT >

REFERENCE 2 F2 < SCHRADER, F.C., 1915, USGS BULL. 582, p. 226 >

REFERENCE 3 F3 < ABGMT CLIPPINGS FILE, STAR GROUP >

REFERENCE 4 F4 < ADMR FILE DATA, STAR 1-2-3 >

F5 < DREWES, H., 1971, USGS MAP I-614 (1:48000) >
F6 < DREWES, H., 1972, USGS PROFESSIONAL PAPER 748, p. 14-15 >

Mts. - 197

K5 < CUTTING ANDESITIC FLOWS >

N5 < S-DIPPING SHEETING STRUCTURES >

N70 < WITH E-W TRENDING FAULT >
N75 < KAOLINIZATION OF ALTERED ANDESITE; METASOMATIC REPLACEMENT OF ANDESITE BY QUARTZ AND ORE MINERALS >

N80 < THROUGH FISSURES AFTER INTRUSION OR ERUPTION OF IGNEOUS ROCKS >

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

*RECORD NUMBER B10 < >
*RECORD TYPE B20 < X, 1, M >
DEPOSIT NUMBER B40 < >
*REPORT DATE G1 < 8,2, , 0,5, > (YR. MO.)
*INFORMATION SOURCE B30 < 1, 2, , , >
*FILE LINK IDENT. B50 < USBM-0040230371 >

*REPORTER(SUPERVISOR) G2 < CALDER, SUSAN R. > ( ) (last, first, middle initial)
*REPORTER AFFILIATION G5 < ABGMT >
*SITE NAME A10 < STAR PROSPECTS >
*SYNONYMS A11 < >

LOCATION

*MINING DISTRICT/AREA A30 < IVANHOE 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 < PATAGONIA (, 1,9,8,1,) >
*QUADRANGLE SCALE A100 < 2,4,0,0,0 >
SECOND QUAD NAME A92 < MT. WRIGHTSON (, 1,9,5,8,) >
SECOND QUAD SCALE A91 < 6,2,5,0,0 >
*ELEVATION A107 < , 4,2,4,0, , F,T, >

UTM
*NORTHING A120 < 3,4,9,2,4,5,0 >
*EASTING A130 < 5,2,1,7,5,0, >
*ZONE NUMBER A110 < +, 1,2 >

*ACCURACY
ACCURATE (ACC) (circle)
ESTIMATED EST < >

GEODETIC
*LATITUDE A70 < 3,1 - 3,4 - 0,7 N, >
*LONGITUDE A80 < 1,1,0 - 4,6 - 1,5 W, >

CADASTRAL
*TOWNSHIP(S) A77 < 0,2,1,S, : , : , : , >
*RANGE(S) A78 < 0,1,5,E, : , : , : , >
*SECTION(S) A79 < 3,6 , : , : , >
*SECTION FRACTION(S) A76 < CENTER OF NW >
*MERIDIAN(S) A81 < GILA AND SALT RIVER >

*POSITION FROM NEAREST PROMINENT LOCALITY A82 < 2 MILES NNW OF PATAGONIA IN GRINGO GULCH >
*LOCATION COMMENTS A83 < ADJACENT ON SOUTH TO GRINGO MINE >

* ESSENTIAL INFORMATION
+ ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

COMMODITIES PRESENT C10 < Mn, Au >
ORE MINERALS C30 < UNKNOWN ; MANGANESE OXIDE >
COMMODITY SUBTYPES C41 <>
GEN. ANALYTICAL DATA C43 < EARLY 1900's ORE VALUES AVERAGED $37/TON Au >
COM. INFO. COMMENTS C50 <>

SIGNIFICANCE

	PRODUCER	NON-PRODUCER
MAJOR PRODUCTS	MAJOR < Au >	MAIN COMMODITIES PRESENT C11 < >
MINOR PRODUCTS	MINOR < >	MINOR COMMODITIES PRESENT C12 < >
POTENTIAL PRODUCTS	POTEN < >	
OCCURRENCES	OCCUR < Mn >	OCCURRENCES OCCUR < >

*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 < 4 >	STATUS AND ACTIVITY A20 < >

DISCOVERER L20 <>
YEAR OF DISCOVERY L10 < > +NATURE OF DISCOVERY L30 < > +YEAR OF FIRST PRODUCTION L40 < > +YEAR OF LAST PRODUCTION L45 <>
PRESENT/LAST OWNER A12 <>
PRESENT/LAST OPERATOR A13 <>
EXPL./DEV.COMMENTS L110 < OWNED AS OF 1916 BY A.H. GLIDEWELL ; PROPERTY INCLUDED CLAIMS OF STAR 1, 2, AND 3 >

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S) C40 < VEIN/SHEAR ZONE >
DEPOSIT FORM/SHAPE M10 < IRREGULAR LENSES >
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 <>
DIRECTION OF PLUNGE M100 < > +PLUNGE M90 <>
DESC. COMMENTS M110 < VEIN HAS CONSIDERABLE HORIZONTAL EXTENT BUT IS ONLY A FEW INCHES WIDE >

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 <>
+OVERALL AREA M210 < > +UNITS M211 <>
DESC. OF WORK. COM. M220 < EXPLORATION PROSPECTS >

GEOLOGY

+AGE OF HOST ROCK(S) K1 < E.CRET. >
+HOST ROCK TYPE(S) K1A < ANDESITIC FLOWS AND INTERCALATED ANDESITIC BRECCIA >
+AGE OF IGNEOUS ROCK(S) K2 < E.CRET. >
+IGNEOUS ROCK TYPE(S) K2A < ANDESITIC AND RHYOLITIC TUFF AND FLOWS >
+AGE OF MINERALIZATION K3 < E.CRET.-PALEO. >
+PERT. MINERALS (NOT ORE) K4 < FLUORITE BANDS; IRON AND MANGANESE STAINING; KAOLIN; MAGNETITE >
+ORE CONTROL/LOCUS K5 < E-W TRENDING, IRREGULAR LENSING QUARTZ-CALCITE FISSURE VEINS >
+MAJ. REG. TRENDS/STRUCT. N5 < E-W TRENDING QUARTZ FISSURE VEINS; ANDESITE CUT BY STEEPLY >
+TECTONIC SETTING N15 < MOUNT WRIGHTSON FAULT BLOCK >
+SIGNIFICANT LOCAL STRUCT. N70 < FINE GOLD ALSO DISSEMINATED IN ANDESITIC WALL ROCK; VEIN ASSOCIATED >
+SIGNIFICANT ALTERATION N75 < OXIDATION TO UNKNOWN DEPTHS; PROPYLITIC ALTERATION; EPIDOTIZATION; >
+PROCESS OF CONC./ENRICH. N80 < HYDROTHERMAL MINERALIZATION OF GOLD-BEARING SILICEOUS SOLUTIONS >
+FORMATION AGE N30 <>
+FORMATION NAME N30A <>
+SECOND FM AGE N35 <>
SECOND FM NAME N35A <>
+IGNEOUS UNIT AGE N50 < E.CRET. >
+IGNEOUS UNIT NAME N50A < BATHTUB FORMATION - MIDDLE MEMBER >
SECOND IG. UNIT AGE N55 <>
SECOND IG. UNIT NAME N55A <>
GEOLOGY COMMENTS N85 <>

GENERAL COMMENTS

GENERAL COMMENTS GEN <>

MS-80

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
MINE OWNER'S REPORT

Date

Mine Star No. 1, 2, and 3.

Location Wrighton Mining Dist. as of record in recorder's office, Nogales, Arizona.

Mining District & County - Wrighton Mining Dist., Santa Cruz Co., near Patagonia.

Former Name

Owner G. E. Amado and A. S. Henderson

Address G. E. Amado
Patagonia, Arizona

Operator - Henrietta E. Miller and N. G. Goodwin

Address Henrietta E. Miller
Ajo, Arizona, Box 953

President, Owning Co.

President, Operating Co.

Gen. Mgr.

Principal Minerals - Manganese Oxide

Mine Supt.

Production Rate

Mill Supt.

Mill: Type and Cap - No mill

Men Employed -2 men - short on capital

Power: Amt. and Type

Operations: Present - This property is not operating at present. Fine setup if one has capital.

Operations: Planned

Number Claims, Title, etc. - 3 claims - Star No. 1, 2, 3

Description: Topography & Geography - This property is located up in the mountains, good government trail.

Mine Workings: Amt. & Condition - Very extensive shipments in 1917, has a shaft and 2 opencuts.

Geology & Mineralization - Manganese vein - No impurities.

Ore: Positive & Probable, Ore Dumps, Tailings - Development work done 200 ft. shaft in ore. 2 opencuts in ore. 1 ft. wide by 1500 ft. long, 200 ft. deep, More depth indicated.

Dimensions and Value of Ore body

Mine, Mill Equipment & Flow-Sheet - Assays 49% manganese
63% manganese - No impurities.

Road Conditions, Route - Good gravel highway to Patagonia station. 12 miles to railroad. 4 mile trail to mine.

Water Supply - Running stream in rainy season. Wells in vicinity.

Brief History - Development work done in 1917 and ore shipped during First World War.

Speicial Problems, Reports Filed

Remarks - This manganese property meets U. S. Government specifications.

If property for sale: Price, terms and address to negotiate - Yes, price open.

(SIGNED) Henrietta E. Miller
Box 953, Ajo, Arizona

Patagonia Ariz
Dec 1st 41

Bob Main
Dept M-R
Phoenix

Dear Bob
I wish to state, (if that will do any good) That I have a manganese property, That will (in my opinion) justify, "some development", or a lot of dev— It has shipping ore in sight now — over 40% needs a short road to be built — Am to old, to work it, see — If not interested might write — & let one know —
If Interested, of course will
Yours
A S Henderson

PS Ref C F Willis
Dep of M.R
Same

5 December 1941

Mr. A. S. Henderson,
Patagonia,
Arizona.

My dear Mr. Henderson:

Replying to your letter of December 1 addressed to MAN-2, I beg to advise that the party who was looking for a manganese property has taken over a mine near Casa Grande and is no longer interested.

However, we have your Mine Owners Report covering STAR NOS. 1, 2 and 3 in Santa Cruz County, and I shall be glad to submit it to anyone making inquiry for manganese properties.

With best wishes, I am

Yours very truly,

Charles F. Willis
Chairman, Board of Governors

CFW-jrf

LETTER of inquiry regarding

MRS. MILLER -

SEE "J" FILE - A. W. Johnson, Kansas City

Patagonia ariz
DEC 1st 41

Box man
Dept M-R
Phoenix

Dear Boy
I wish to state, (If that will do any good) That I have a manganese prospect, That will (in my opinion) justify, "Some development", or a lot of Dev— It has shipping ore in sight now— over 40— needs a short road to be built— am to old, to work it, See— If not interested might write + let one know— If Interested, of course will

Yours
A S Henderson

PS Rec C F Willis
Dept of M.R
Same

MS-80

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
MINE OWNER'S REPORT

Date

1. Mine Star - No - 1 - 2 & 3.
2. Location Wrighton mining dist. as of record - in recorders office. Nogales - Arizona.
3. Mining District & County Wrighton Mining dist - Santa cruz. NEAR - PATAGONIA.
4. Former name
5. Owner G. E. Amado & A. S. Henderson
6. Address (Owner) G. E. Amado Patagonia AR.
7. Operator Henrietta E. Miller & W. G. Goodwin
8. Address (Operator) Henrietta E. Miller ajo - Arizona Box 196
9. President, Owning Co.
9A. President, Operating Co.
10. Gen. Mgr.
14. Principal Minerals Manganese Oxide
11. Mine Supt.
15. Production Rate
12. Mill Supt.
16. Mill: Type & Cap. no mill.
13. Men Employed 2 - Men - short on capital.
17. Power: Amt. & Type
18. Operations: Present This property is not operating at present. Time set hops - if some has capatal.
19. Operations: Planned
20. Number Claims, Title, etc. 3 - claims - Star - No 1 - 2 - 3
21. Description: Topography & Geography This property is located up in the mountains. good horseback trail.
22. Mine Workings: Amt. & Condition Very extensive shipments in 1917 - has a shaft and 2 open cuts.

(over)

23. Geology & Mineralization Manganese Vein - No impurities.

24. Ore: Positive & Probable, Ore Dumps, Tailings Development Work done 200 ft shaft in - Ore - 2 open cuts in ore. 1-ft wide x 1500 ft long. 200 deep - mine depth indicated,

24A. Dimensions and Value of Ore body

25. Mine, Mill Equipment & Flow-Sheet assays, 49% manganese - - - 63% manganese - no impurities,

26. Road Conditions, Route Good grade highway to patagonia station - distant to rail way 12 miles. 4 mile haul to mine.

27. Water Supply running stream in rainy season Wells in vicinity.

28. Brief History Development work done in 1917, and Ore shipped during 1st World war.

29. Special Problems, Reports Filed

30. Remarks This manganese property - meets U. S. Government specifications,

31. If property for sale: Price, terms and address to negotiate. - Yes price open,

32. Signature Henrietta E. Miller.

33. Use additional sheets if necessary. Ajo - Arizona.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
MINE OWNER'S REPORT

Date

Mine Star No. 1, 2, and 3.

Location Wrighton Mining Dist. as of record in recorder's office, Nogales, Arizona.

Mining District & County - Wrighton Mining Dist., Santa Cruz Co., near Patagonia.

Former Name

Owner G. E. Amado and A. S. Henderson

Address G. E. Amado
Patagonia, Arizona

Operator - Henrietta E. Miller and N. G. Goodwin

Address Henrietta E. Miller
Ajo, Arizona, Box 953

President, Owning Co.

President, Operating Co.

Gen. Mgr.

Principal Minerals - Manganese Oxide

Mine Supt.

Production Rate

Mill Supt.

Mill: Type and Cap - No mill

Men Employed -2 men - short on capital

Power: Amt. and Type

Operations: Present - This property is not operating at present. Fine setup if one has capital.

Operations: Planned

Number Claims, Title, etc. - 3 claims - Star No. 1, 2, 3

Description: Topography & Geography - This property is located up in the mountains, good government trail.

Mine Workings: Amt. & Condition - Very extensive shipments in 1917, has a shaft and 2 opencuts.

Geology & Mineralization - Manganese vein - No impurities.

Ore: Positive & Probable, Ore Dumps, Tailings - Development work done 200 ft. shaft in ore. 2 opencuts in ore. 1 ft. wide by 1500 ft. long, 200 ft. deep, More depth indicated.

Dimensions and Value of Ore body

Mine, Mill Equipment & Flow-Sheet - Assays 49% manganese
63% manganese - No impurities.

Road Conditions, Route - Good gravel highway to Patagonia station.
12 miles to railroad. 4 mile trail to mine.

Water Supply - Running stream in rainy season. Wells in vicinity.

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Speicial Problems, Reports Filed

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(SIGNED) Henrietta E. Miller
Box 953, Ajo, Arizona