

#### **CONTACT INFORMATION**

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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

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GEOLOGY  AGE OF HOST ROOKS  AND ESTIC FLOWS AND INTERCALATED ANDESITIC BRECCIA  BY AND ESTIC AND RHYOLITIC TUFF AND FLOWS  AGE OF MINERALIZATION  AGE COMMERCIALOUS  BY AND ESTIC AND RHYOLITIC TUFF AND FLOWS  BY AND ESTIC AND RHYOLITIC TUFF AND FLOWS  BY AND ESTIC AND RHYOLITIC TUFF AND FLOWS  BY AND ESTICE FISSURE STAINING, KAOLIN, MAGNETITE  BY AND ESTICE  BY AND ESTICE  BY AND ESTICE  BY AND ESTIC BY AND E					)	OVERALL	LENGTH M190 <	913			
GEOLOGY  AGE OF HOST ROCK(S)  AGE OF HOST ROCK ROCK(S)  AGE OF HOST ROCK	DEPTH BELOW SURFACE	M160 <	> †ui	INITS M161 <	)	OVERALL  OVERALL	LENGTH M190 <	917.	_> †	UNITS M201	<u> </u>
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AGE OF HOST ROCK (S)  AGE OF MINERALIZATION  MAY AND ESTIC FLOWS AND INTERCALATED ANDESITIC BRECCIA  MAY AND ESTIC AND RHYOLITIC TUFF AND FLOWS  MAY AND HAVE AND HAVE AND RHYOLITIC TUFF AND FLOWS  MAY AND HAVE AND RHYOLITIC TUFF AND FLOWS  MAY AND HAVE AND RHYOLITIC TUF	ENGTH OF WORKINGS	M160 <	> †ui	INITS M161 <		OVERALL  OVERALL	LENGTH M190 <	9 2 2 2	_> †	UNITS M201	<u> </u>
AND ESTIC FLOWS AND INTERCALATED ANDESTIC BRECCIA  AGE OF IGNEOUS ROCK TYPE(S)  KIA ANDESTIC FLOWS AND INTERCALATED ANDESTIC BRECCIA  ANDESTIC FLOWS AND INTERCALATED AND FLOWS  MASKED FRANKE INTO ORE)  MASK CRET. PALEON  KA FLUORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MANGANESE STAINING. KAOLIN; MAGNETITE  MASK FLOORITE BANDS: IRON AND MAN	DEPTH BELOW SURFACE	M160 <	> †ui	INITS M161 <	SPECTS	*OVERALL  > *OVERALL  > OVERALL	LENGTH M190 <	9 2 2	_> †	UNITS M201	<u> </u>
AGE OF IGNEOUS ROCK (5)  CHECK FIGNEOUS ROCK TYPE(S)  AGE OF MINERALIZATION  AGE OF MINERALIZATION  AGE OF MINERALIZATION  AGE OF MINERALIZATION  AGE CONTROL/LOCUS	DEPTH BELOW SURFACE	M160 <	> †ui	INITS M161 <	SPECTS	*OVERALL  > *OVERALL  > OVERALL	LENGTH M190 <		_> †	UNITS M201	<u> </u>
GRECUS ROCK TYPE(S)  AGE OF MINERALIZATION  AGE CONTROL/LOCUS  MAJ. REC. TRENDS/STRUCT.  AND FLOW TRENDS/STRUCT.  AND FLOW TRENDS/STRUCT.  AND FLOW TRENDS/STRUCT.  AND FLOW TRENDS/STRUCT.  AND T	EPITH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK, COM.	M160 < M170 < M220 <exe< td=""><td>PLORATION</td><td>INITS M161 (</td><td><i>GPECTS</i></td><td>OVERALL OVERALL OVERALL</td><td>LENGTH M190 &lt; WIDTH M200 &lt; AREA M210 &lt;</td><td></td><td>→ † → *</td><td>UNITS M2014 UNITS M2114</td><td><u> </u></td></exe<>	PLORATION	INITS M161 (	<i>GPECTS</i>	OVERALL OVERALL OVERALL	LENGTH M190 < WIDTH M200 < AREA M210 <		→ † → *	UNITS M2014 UNITS M2114	<u> </u>
RECONTROLIZATION FOR A PARTICIPAL AND MANGEMENTS STAINING, KAOLIN, MAGNETITE FOR AND THE BANDS: IRON AND MANGEMENTS STAINING, KAOLIN, MAGNETITE FOR CONTROLIZOUS  RECONTROLIZOUS  RECONDER THE BANDS: IRON AND MANGEMENTS CALCITE FISSURE VEINS  RECONDER THE BANDS: IRON AND ENDING THE FISSURE VEINS; ANDESITE CUT BY STEEPLY  RECONDER THE BANDS IN THE BANDS	EPITH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM.  AGE OF HOST ROCK(S)	M160 < M170 < M220 <exe< td=""><td>PLORATION  RET.</td><td>INITS M161 (</td><td><i>GPECTS</i></td><td>OVERALL OVERALL OVERALL</td><td>LENGTH M190 &lt; WIDTH M200 &lt; AREA M210 &lt;</td><td>ic. Bri</td><td>→ † → *</td><td>UNITS M2014 UNITS M2114</td><td><u> </u></td></exe<>	PLORATION  RET.	INITS M161 (	<i>GPECTS</i>	OVERALL OVERALL OVERALL	LENGTH M190 < WIDTH M200 < AREA M210 <	ic. Bri	→ † → *	UNITS M2014 UNITS M2114	<u> </u>
FET. MINERALS (NOT.ORE)  KAY FLUORITE BANDS: IRON AND MANGANESE STAINING; KAOLIN; MAGNETIE  SHE CONTROL/LOCUS  KAY E-W TRENDING; IRREGULAR LENSING QUARTZ-CALLITE FISSURE VEINS  MAJERG, TRENDS/STRUCT. NAS E-W TRENDING QUARTZ FISSURE VEINS; ANDESITE CUT BY STEEPLY  RECTONIC SETTING  MISS (MOUNT WRIGHTSON) FAULT BLOCKS: NAID ASSOCIATED  SECONIFICANT ACTERATION NAS (NICK) FINE GOLD ALSO DISSEMINATED IN ANDESITIC WALL ROCK: VEIN ASSOCIATED  SECONIFICANT ALTERATION NAS (NICK) FINE GOLD ALSO DISSEMINATED IN ANDESITIC WALL ROCK: VEIN ASSOCIATED  SECONIFICANT ACTERATION OF GOLD-BEARING SILICEOUS SOLUTION:  FORMATION AGE  NOO.  SECOND FIN NAME  SECOND FIN NAME  SECOND FIN NAME  SECOND FIN NAME  SECOND IG. UNIT NAME  NOO.  NOO.  SECOND IG. UNIT NAME  NOO.  NOO.  SECOND IG. UNIT NAME  NOO.  NOO.  SECOND IG. UNIT NAME  NOO.  SECOND IG. UNIT NA	EPTH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM.  AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK(	M160 <	RET.	INITS M161 (INITS M171 (INITS	GPECTS GI	OVERALL OVERALL OVERALL OVERALL OVERALL	LENGTH M190 <	ic Bri	→ † → *	UNITS M2014 UNITS M2114	<u> </u>
TRENDING IRREGILAR LENSING QUARTZ CALCITE FISSURE VEINS  MAJERG TRENDS/STRUCT, INS E-W TRENDING QUARTZ FISSURE VEINS; ANDESITE CUT BY STEEPLY  RECTONIC SETTING  INTS MOUNT WRIGHTSON FAULT BLOCK  SIGNIFICANT LOCAL STRUCT, INTS FINE GOLD ALSO DISSEMINATED IN ANDESITIC WALL ROCK. VEIN ASSOCIATED  SIGNIFICANT ALTERATION INTS ONLINE ALSO DISSEMINATED IN ANDESITIC WALL ROCK. VEIN ASSOCIATED  SIGNIFICANT ALTERATION INTS ONLINE ALSO DISSEMINATED IN ANDESITIC WALL ROCK. VEIN ASSOCIATED  RECORDS OF CONC./ENRICH.INBO HYDROTHERMAL MINERALIZATION OF GOLD-BEARING SILICEOUS SOLUTION:  FORMATION NAME  SECOND FM AGE  N356  SECOND FM NAME  GRIEGUS UNIT NAME  N504  N505  SECOND IG. UNIT NAME  N505  N556  SECOND IG. UNIT NAME  N506  N506  N506  N507  N507  N508  N50	DEPTH BELOW SURFACE ENGTH OF WORKINGS DESC. OF WORK. COM.  AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK( IGNEOUS ROCK TYPE(S)	M160 <	RET.  DESITIC	FLOWS	GI AND INTE	OVERALL  OVE	LENGTH M190 (		= CCIA	UNITS M201	
MAJURES TRENDS/STRUCT. NS. E-W TRENDING QUARTZ FISSURE VEIAS; HNDESITE COT BY STEEPLY RECTONIC SETTING  WISCAMULT WAS ALSO DISSEMINATED IN ANDESITIC WALL ROCK; NEIN ASSOCIATED SIGNIFICANT ALTERATION NTS. OXIDATION TO UNKNOWN DEPTHS; PROPYLITIC ALTERATION; EPIDOTIZATION PROCESS OF CONC./ENRICH.N80 (HYDROTHERMAL MINERALIZATION) OF GOLD-BEARING SILICEOUS SOLUTION: FORMATION NAME SECOND FM AGE SECOND FM NAME INSOA  MISCAMULT AGE INSOA  MISCAMULT AGE INSOA  MISCAMULT NAME	EPTH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM.  AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK( IGNEOUS ROCK TYPE(S) AGE OF MINERALIZATION	KI (E.C.)  KI (E.C.)  KI (A.C.)	RET.  DESITIC	FLOWS	GI AND INTE	OVERALL  OVE	LENGTH M190 (	G- : KA	ECCIA	UNITS M2014 UNITS M2114	DETITE
RECTONIC SETTING  N15 MOUNT WRIGHTSON FRULL BLOCK SIGNIFICANT LOCAL STRUCT.N70 FINE GOLD ALSO DISSEMINATED IN ANDESTTIC 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 NAME PORMATION NAME N304 SECOND FM AGE SECOND FM AGE SECOND FM NAME N356 SECOND FM NAME N504 SECOND GOLD SECOND FM NAME N504 SECOND GOLD SECOND FM NAME N504 SECOND GOLD SECOND FM NAME N504 SECOND FM NAME N504 SECOND GOLD SECOND FM NAME N506 SECOND GOLD SECOND FM NAME N506 SECOND FM NAME N506 SECOND GOLD SECOND FM NAME N506 SECOND GOLD SECOND FM NAME N506 SECOND GOLD SECOND FM NAME N506 SECOND FM NAME N506 SECOND GOLD SEC	EPTH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM.  AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK IGNEOUS ROCK TYPE(S) AGE OF MINERALIZATION PERT. MINERALS (NOT.O)	KI (E.C.)  KI (E.C.)  KI (A.C.)	RETICESITIC ALE	FLOWS	GI AND INTE	OVERALL OVERAL	LENGTH M190 (	G-; KAC	ECCIA DLIN	UNITS M2014 UNITS M2114	DETITE VEINS
SIGNIFICANT ALTERATION N785 OXIDATION TO DURNOUDD DEFINS FROM THE MILLIAM INTERPOLATION OF GOLD BEARING SILICEOUS SOLUTIONS FORMATION AGE N305 N305 SECOND FM AGE N365 SECOND FM NAME N30A SECOND IG. UNIT NAME N50A BATHTUB FORMATION MIDDLE MEMBER.  SECOND IG. UNIT NAME N555 SECOND IG. UNIT NAME N555 SECOND IG. UNIT NAME N555 N855 N855 N855 N855 N855 N855 N85	EPTH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM.  AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK( GNEOUS ROCK TYPE(S) AGE OF MINERALIZATION PERT. MINERALS (NOT.O) GRE CONTROL/LOCUS	K14.E.C.F K14.E.C.F K1A.C.F.A.M (S) K24.E.C.I K2A.C.A.M.I K2A.C.A.M.I K2A.C.A.M.I K2A.C.F.L.I K2A.C.F.L.I K3.C.F.L.I K4.C.F.L.I	RET.  DESITIC  SET.  DESITIC A  D	FLOWS  DE RHY  ANDS: IR	GI AND INTE OLITIC T RON AND REGULAR ARTZ FIS	OVERALL  OVE	LENGTH M190 (	G-; KAC	ECCIA DLIN	UNITS M2014 UNITS M2114	DETITE VEINS
RECORD FOR NAME RECORD FM NAME RECOR	EPTH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM.  AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK (GNEOUS ROCK TYPE(S) AGE OF MINERALIZATION PERT, MINERALS (NOT.O) ORE CONTROL/LOCUS MAJ. REG. (RENDS/STRL	K14ECE K14 ANE K1A ANE K1A ANE K1A ANE K1A ANE K1A ANE K2 ECE K2A ANE K34 CRE K65 E- UCT NOS E-	RET.  DESITIC A  ET- PALE  DORITE BA  W TRENDI	FLOWS  NOTE MITTING  FLOWS  NOTE MITTING  FLOWS  NOTE MITTING  NOTE MITT	GPECTS  GI  AND INTE  OLITIC T  ROAJ AND  REGULAR  ARTZ FI	OVERALL  OVERALL  OVERALL  OVERALL  ECLOGY  ERCALATI  WANGAN  LENSING  ESURE VE	LENGTH M190 ( WIDTH M200 ( AREA M210 ( ) ANDESITE FLOWS  SE STAINING OUTRETZ-  CINIS RNDES	G-; KAC CALCIT SITE CL	ECCIA DLIN E FIS	UNITS M2014 UNITS M2114  MAGA SSURE	DETITE VEINS PLY
FORMATION AGE FORMATION NAME SECOND FM AGE SECOND FM NAME IN364 IN504 SECOND FM NAME IN504 SECOND IG. UNIT AGE IECOND IG. UNIT NAME IN504 SECOND IG. UNIT NAME IN504 IN505 IN5	EPTH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM.  AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK( IGNEOUS ROCK TYPE(S) AGE OF MINERALS (NOT.O) ORE CONTROL/LOCUS MAJ. REG. TRENDS/STRL TECTONIC SETTING SIGNIFICANT LOCAL STR!	K14.E.C.E K14.E.C.E K1A.C.A.M.E (S) K24.E.C.M K1A.C.A.M.E K1A.C.A	RET.  PLORATION  RET.  DESITIC  RET. PALE  WORITE BA  W TRENDI  UNIT WRIG	FLOWS NOTE HAY  ANDS: IN	GPECTS  GI  AND INTE  OLITIC T  ROAJ AND  REGULAR  ARTZ FIS  FAULT IS	OVERALL OVERAL	LENGTH M190 ( WIDTH M200 ( AREA M210 ( ) ANDESITE FLOWS  ESE STAINING ( ) ANDESITE FLOWS  ESE STAINING ( ) ANDESITE FROM ( ) ANDESITE WIDESITIC W	G-; KAK CALCIT SITE CL	DLIN FE FIS	UNITS M2014 UNITS M2114  MAGA SSURE VEINU	DETITE VEINS PLY
SECOND FM AGE SECOND FM NAME N35A  N50A  SECOND IG. UNIT AGE SECOND IG. UNIT NAME N55A  N85A  N85A	EPTH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM.  AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK( GNEOUS ROCK TYPE(S) AGE OF MINERALIZATION TEXT. MINERALS (NOT.O) ORE CONTROL/LOCUS MAJ. REG. (TRENDS/STRL TESTINING TEST	K14 E.C.F K14 E.C.F K1A A.M.F (S) K24 E.C.F K24 A.M.F K44 F.L.F UCT. N754 M.O.I UUCT. N705 E.J.B.R.F.I	PLORATION  PLORATION  RET.  DESITIC A.  ET. PALE.  DORITE BA  W TRENDI  W TRENDI  DIT WRIGHT  DIT WRIG	FLOWS NOTE HAY OF THE STATE OF	GRECTS  GI  AND INTE  OLITIC T  RON AND  REGULAR  ARTZ FIS  FAULT &  SSEMIN OF	OVERALL OVERAL	LENGTH M190 ( WIDTH M200 ( AREA M210 (  FLOWS  SE STAININ  QUARTZ -  CINIS - ANDES	G-; KAK CALCIT SITE CL VALL RI	DLIN TE FIS	UNITS M2014 UNITS M2114  EMAGA  SURE  VEINU	DETITE VEINS PLY ASSOCIATION
SECOND FM AGE SECOND FM NAME GNEOUS UNIT AGE GNEOUS UNIT AGE SECOND IG. UNIT NAME ECOND IG. UNIT NAME SECOND IG. UNIT NAME M554  M656  M86  M86  M86  M86  M86  M86  M8	EPTH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM.  AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK( GRIEDUS ROCK TYPE(S) AGE OF MINERALIZATION FERT. MINERALS (NOT OF BREE CONTROL/LOCUS MAJ.REG. TRENDS/STR.  RECTONIC SETTING SIGNIFICANT LOCAL STR.  SIGNIFICANT ALTERATION ROCESS OF CONC./ENR	K14 E.C. K15	PLORATION  PLORATION  RET.  DESITIC A.  ET. PALE.  DORITE BA  W TRENDI  W TRENDI  DIT WRIGHT  DIT WRIG	FLOWS NOTE HAY OF THE STATE OF	GRECTS  GI  AND INTE  OLITIC T  RON AND  REGULAR  ARTZ FIS  FAULT &  SSEMIN OF	OVERALL OVERAL	LENGTH M190 ( WIDTH M200 ( AREA M210 (  FLOWS  SE STAININ  QUARTZ -  CINIS - ANDES	G-; KAK CALCIT SITE CL VALL RI	DLIN TE FIS	UNITS M2014 UNITS M2114  EMAGA  SURE  VEINU	DETITE VEINS PLY ASSOCIATION
GREOUS UNIT AGE  N50X ECRET	EPTH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM.  AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK GNEOUS ROCK TYPE(S) AGE OF MINERALIZATION FERT. MINERALS (NOT JO) SIRE CONTROL/LOCUS MAJ. REEG. TRENDS/STRL RECTONIC SETTING SIGNIFICANT LOCAL STR: SIGNIFICANT ALTERATION PROCESS OF CONC./ENR FORMATION AGE	K14 E.C. E K14 E.C. E K14 A.M. E K16 A.M. E K16 A.M. E K16 A.M. E K16 E.M. E K16 E	PLORATION  PLORATION  RET.  DESITIC A.  ET. PALE.  DORITE BA  W TRENDI  W TRENDI  DIT WRIGHT  DIT WRIG	FLOWS NOTE HAY OF THE STATE OF	GRECTS  GI  AND INTE  OLITIC T  RON AND  REGULAR  ARTZ FIS  FAULT &  SSEMIN OF	OVERALL OVERAL	LENGTH M190 ( WIDTH M200 ( AREA M210 (  FLOWS  SE STAININ  QUARTZ -  CINIS - ANDES	G-; KAK CALCIT SITE CL VALL RI	DLIN TE FIS	UNITS M2014 UNITS M2114  EMAGA  SURE  VEINU	DETITE VEINS PLY ASSOCIATION
IGNEOUS UNIT NAME  N50A\ BATHTUB FORMATION - MIDDLE MEMBER.  N50A\ BATHTUB FORMATION - MIDDLE MEMBER.  N50A\  ECOND IG. UNIT NAME  N55A\  SECOLOGY COMMENTS  N85A\  N85A\  N85A\  N85A\  N85A\	EPTH BELOW SURFACE ENGTH OF WORKINGS ESC. OF WORK. COM.  AGE OF HOST ROCK(S) HOST ROCK TYPE(S) AGE OF IGNEOUS ROCK( GNEOUS ROCK TYPE(S) AGE OF MINERALIZATION PERT. MINERALS (NOT JO) BRE CONTROL/LOCUS MAJ. REG. TRENDS/STRL TECTONIC STITING SIGNIFICANT ALTERATION PROCESS OF CONC./ENR FORMATION AGE FORMATION NAME	K14 E.C. K14 F.L. K15 F.L. K15 F.L. K16 F.L. K16 F.L. K16 F.L. K16 F.L. K15	PLORATION  PLORATION  RET.  DESITIC A.  ET. PALE.  DORITE BA  W TRENDI  W TRENDI  DIT WRIGHT  DIT WRIG	FLOWS  NOTE MITTING  FLOWS  NOTE MITTING  NO	GRECTS  GI  AND INTE  OLITIC T  RON AND  REGULAR  ARTZ FIS  FAULT &  SSEMIN OF	OVERALL OVERAL	LENGTH M190 ( WIDTH M200 ( AREA M210 (  FLOWS  SE STAININ  QUARTZ -  CINIS - ANDES	G-; KAK CALCIT SITE CL VALL RI	DLIN TE FIS	UNITS M2014 UNITS M2114  EMAGA  SURE  VEINU	DETITE VEINS PLY ASSOCIATION
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Geology & Mineralizati. - Manganese vein - No impuriti

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#### DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA MINE OWNER'S REPORT Ore: Positive & Probable, Ore Dumps, Tailings

Date

Star No. 1; 2; and 3. Mine

wide by 1500 ft. long, 200 ft. deep,

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

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

Former Name

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

G. E. Amado Address

Patagonia, Arizona

Dimensions and Value of Ore body

Operator - Henrietta E. Miller and Address W Henrietta E. Miller N. G. Goodwin Bankadan W33

Ajo, Arizona, Box 953

President, Operating Co.

President, Owning Co.

Principal Minerals - Manganese Oxide Hoad Conditions, Route - Co d gravel highway to Patagonia station.

Mine Supt.

Gen. Mgr.

entm of light elim A becaller Production Rate

Mill Supt.

Mill: Type and Cap - No mill

Men Employed -2 men - short on capital Water Supply - Running stream in rainy season, Wells in vicinity.

Power: Amt. and Type

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

Brief History - Development work done in 1917 and one shipped during First

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

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

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.

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

Geology & Mineralization - Manganese vein - No impurities.

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA MITE OVNER'S REPORT

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.

record in recorder's office,

Mining District & County - Wrighton Mining Nogales, Arizona.

Dimensions and Value of Ore body .sinogesta Tsen ... CO suro stage ... taid

Former Name

Owner G. E. Amado and A. S. Henderson Address G. E. Amado
Patagonia, Arizona

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

Principal Minerals - Manganese Oxide

Con. Mar.

Road Conditions, Route - Good gravel highway to Patagonia station.

12 miles to railroad. 4 mile trail to mine.

Mill: Type and Cap - No mill

Mill Supt.

Men Employed -2 men - short on capital Fower: Amt. and Type

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

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

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

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

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

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

Aulagonia a B Dof Main Dock M-R Anormy I wish to state, It that live do any soud, That I have a mangonese fusting, That will (in my going) lot of Dec, It has shipping on in sight non- of 40 Treeds a short road to les times (am to old, to work it, Ele-I not inimien might wine I led one /snow, I Intristed, of course wice Joien Handerson Ry C7 Willes DEF of M. R. Samo

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

Hilagonea ans DESL DI-R Thorny do any good, That have a mongonese Fronty, That wice (in my gring fustify, som developmen, or a lot of Der I has shipping needs a shoot road to lee times (am to old, to work it, Ele Ig not inimien might wine I led one /snew-Intrisled, of Course wice Journ Astendarion RS Ry C7 Willes DEG of M. R. Samo

# DEPARTMENT OF MINERAL RESOURCES MOMENTA VIGOROUS VIGOROUS

MINE OWNER'S REPORT Date 1. Mine Star - 20-1-2+3, 2. Location Wheghton muning chest. as of reford in recording 3. Mining District & County Wrighton Mening office, Trogales - augo dist- Santa eng. nEgr- PATAGONIA. 5. Owner G. C. amado. 7 a. S. Henderson 6. Address (Owner) J. E. Amaelo Valagone 7. Operator Venuetta & Miller & M. G. Godwin 8. Address (Operator) Venuetta & Mill 9A. President, Operating Co. 9. President, Owning Co. 14. Principal Minerals Manganese Ofide 10. Gen. Mgr. 11. Mine Supt. 15. Production Rate 12. Mill Supt. 16. Mill: Type & Cap. Zo mill. 13. Men Employed - Men-short m capital. 17. Power: Amt. & Type 18. Operations: Present This property is not operating at present. Him set bujo - if fore has capitale. Operations: Planned 20. Number Claims, Title, etc. 3- claims - Slav - No 1-2-3 21. Description: Topography & Geography This property is Tocated up in od gloresternful trail, about of

in 1917 - has a Thatt and I open cuts.

22. Mine Workings: Amt. & Condition Very extension shepments

23 Geology & Minaralization Man caner View- 7/10 in for
23. Geology & Mineralization Manganese Vein-710 impunties,
Date
24. Ore: Positive & Probable, Ore Dumps, Tailings Charlofament Work done I au fr
shaft in Ore - I open cufts in ore.
Shaft in- Ore - I open cufts in ore. 1- Huticle X 1500 ft Tong. 200 deep-more depth indicated,
244 Dimensions and Value of Our Lada
24A. Dimensions and Value of Ore body
7. Operator Simulate & Willey To Stratum 8. Address (Operator) The color of the series
9. President, Owging Co.
25. Mine, Mill Equipment & Flow-Sheet Assays, 49 % manganese. In simple willies,
63 /8 mangunese - mo impenilias,
26. Road Conditions, Route Good grand highway to palagonia
station- distant to Junie was 12 Juniles. Hundle
Mare & mene.
27. Water Supply running stream in rainy season
Wells in vicinity,
28. Brief History Developement Work done en 1919, and
One shipports during 1 st 1/20-1 1/101
Ore shipped during 1st World war.
29. Special Problems, Reports Filed
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30. Remarks This Manganed property - Miles
I. S. government specialismo
30. Remarks This Manganed property- Mitales M. S. Journment Specifications,
31. If property for sale: Price, terms and address to negotiate _ The love to the contract of the sale of the contract of the sale of the contract of the sale of the contract
31. If property for sale: Price, terms and address to negotiate. — Just frue of serve,
32. Signature Structla 6. Miller.
33. Use additional sheets if necessary.
la 1 0 4 - 3

2 7 5 F

## Geology & Mineralization - Manganese vein - No impurities. DEPARTMENT OF MINERAL RESOURCES

## STATE OF ARIZONA MINE OWNER'S REPORT

Ore: Positive & Probable, Ore Dumps. Tailings - Development work done 200 pate

wide by 1500 it. long, 200 ft. deep, Mine ' Star No. 1, 2, and 3.

.Jl . erc ni sjuenege S . erc ni

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

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

Address G. E. Amado

Patagonia, Arizona

Dimensions and Value of Ore body

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

Henrietta E. Miller Address Ajo, Arizona, Box 953

President, Owning Co.

President, Operating Co.

Gen. Mgr.

Principal Minerals - Manganese Oxide

Mine Supt.

Productions, Rate Production Rate

Mill Supt.

Mill: Type and Cap - No mill

World Nar.

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.

Brist History - Development Work done in HMLV and one shipped during Pirst

Remarks - This manganese property meets 0. S. Covernment specifications.

Operations: Planned

Speicial Problems, Reports Wiled

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.

> (SICMED) Henrietta E. Miller ancs FrA gtA, A50, xoE

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

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

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. "en lik

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

Mining District & County - Wrighton Mining

Dimensions and Value of Ore body

Dist .. Senta Craz Co., near Patagonia. Former Name

G. E. Amado Address G. E. Amado and A. S. Henderson Patagonia, Arizona and the second second

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

Frincipal Minerals - Manganese Oxide

Cen. Mer.

Road Conditions, Route - Good gravel highway to Patagonia station.

12 miles to railroad. 4 mile trail to mine.

Mine Supt. 

Mill: Type and Cap - No mill

Mill Supt.

Men Employed -2 men - short on depitel Power: Amt. and Type

Water Supply - Running stream in rainy season. Wells in vicinity. if one has capital.

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

Speicial Problems, Reports Filed

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

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

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

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

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

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