CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

PRINTED: 11-22-2011

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: GRAND PACIFIC

ALTERNATE NAMES:
SANDAL GROUP
PACIFIC GROUP
CLIMAX
GRAND PACIFIC CU CO. OF AZ PRO

PINAL COUNTY MILS NUMBER: 78B

LOCATION: TOWNSHIP 2 S RANGE 12 E SECTION 12 QUARTER S2
LATITUDE: N 33DEG 16MIN 11SEC LONGITUDE: W 111DEG 04MIN 13SEC
TOPO MAP NAME: SUPERIOR - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
COPPER SULFIDE
COPPER OXIDE
MANGANESE
IRON FERRIC OXIDE

BIBLIOGRAPHY:
SHORT, M.N., ET.AL., AZBM BULL. 151, P. 158
JONES, E.L., JR. & F.L. RANSOME, USGS 710-D, P. 165
ADMMR MAGMATIC COPPER MINES FILE, MAP
ADMMR MAGMA COPPER CO. MISCELLANEIUS #1 FILE
FARNHAM, L.L., ET.AL., USBM IC 7990, 1961, PP 124, 126 & 141
ADMMR U FILE PINAL CU 5
ADMMR U CARD PINAL MN 18
CLAIMS EXTEND INTO SEC. 24
ADMMR GRAND PACIFIC MINE FILE
ARIZ MINING JOUR. JULY 1922, P. 35

GRAND PACIFIC MINE

PINAL COUNTY
PIONEER DISTRICT
T2S R12E Sec. 12

MILS Pinal County Index #78B

AKA: Sandal Group, Pacific Group, Climax, Grand Pacific Copper Co. of AZ Prop.

USGS 710Dp. 165

ABM Bull. 151, p. 158

Magmatic Copper Mines (f), map

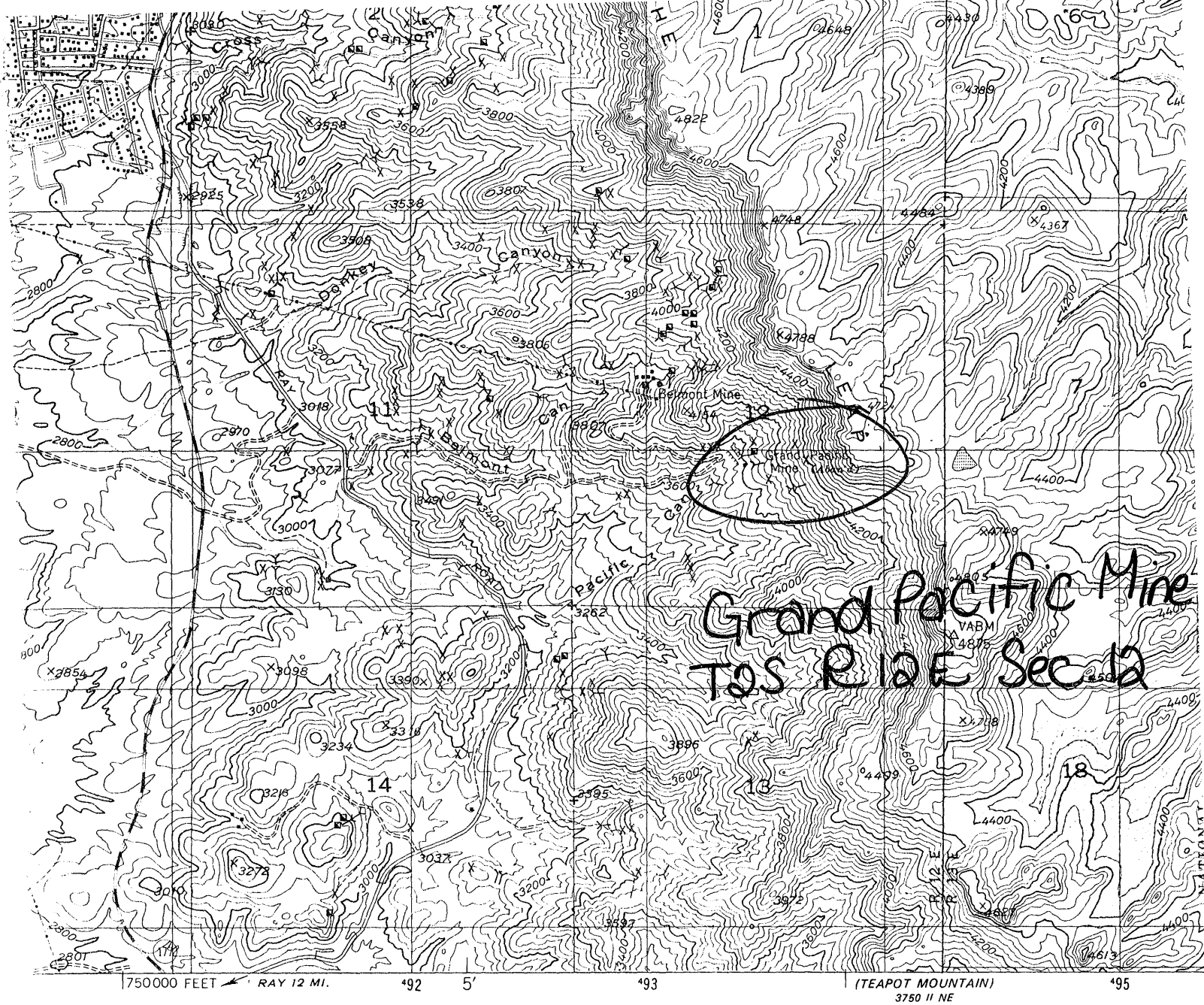
Magma Copper Co. Misc #1 file

USBM IC 7990, p. 124, 126, 141

AMJ July 1922, p. 35

"U" Files

Superior 7.5' Topo (included in files)



rvey

SCALE 1:24 000

1 ½ 0

1000 0 1000 2000 3000 4000 5000 6000

1 .5 0 1 KILOM

ate
grid,
ted
south

GN MN
0°02′ 1 MIL
12½° 222 MILS

UTM GRID AND 1981 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, V
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQ

Superior 7.5′

* GENERAL REFERENCES

REFERENCE 1 F1 < ABGMT CLIPPINGS FILES >

REFERENCE 2 F2 < ABGMT - USBM FILE DATA >

REFERENCE 3 F3 < USBM FILES >

REFERENCE 4 F4 < SHORT, M.N., GEOLOGY AND ORE DEPOSITS OF THE SUPERIOR MINING AREA, ARIZONA, 1943, ABM BULLETIN 151, P. 158 >

F5 < FARNHAM, L.L., MANGANESE DEPOSITS OF EASTERN ARIZONA, 1961, USBM IC 7990, P 124, 126, 141 >

F6 < RANSOME, F.L., DEPOSITS OF MANGANESE ORE IN ARIZONA, 1919, USGS 710 P 165 >

#78B

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, 3 > (YR. MO.)
*INFORMATION SOURCE B30 < 1, 2 >
+FILE LINK IDENT. B50 < USBM-004 021 0485 >

*REPORTER(SUPERVISOR) G2 < Roth, FRANCES A. (last, first, middle initial) (GEST, DON E. (last, first, middle initial))>
*REPORTER AFFILIATION G5 < ABGMT >
*SITE NAME A10 < GRAND PACIFIC MINE >
*SYNONYMS A11 < PACIFIC MINE, PACIFIC GROUP >

LOCATION

*MINING DISTRICT/AREA A30 < PIONEER DISTRICT >
*COUNTY A60 < PINAL >
*STATE A50 < A2 >
*COUNTRY A40 < U, S, >
*PHYSIOGRAPHIC PROV A63 < 1, 2, ¥ >
*DRAINAGE AREA A62 < 1, 5, 0, 5, 0, 1, 0, 0, ¥ >
*LAND STATUS A64 < 0, 1, ¥, ¥, (1, 9, 7, 9,) >
*QUADRANGLE NAME A90 < SUPERIOR (1, 9, 4, 9,) >
*QUADRANGLE SCALE A100 < 2, 4, 0, 0, 0, >
SECOND QUAD NAME A92 < ( ) >
SECOND QUAD SCALE A91 <>
*ELEVATION A107 < 3, 8, 0, 0, ¥, F, T, >

UTM

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

*ACCURACY

ACCURATE ACC (circle)
ESTIMATED EST <>

GEODETIC

+LATITUDE A70 < - - N, >
+LONGITUDE A80 < - - W, >

CADASTRAL

*TOWNSHIP(S) A77 < 0, 0, 2, S, ¥ >
+RANGE(S) A78 < 0, 1, 2, E, ¥ >
*SECTION(S) A79 < 12, ¥ >
*SECTION FRACTION(S) A76 < C OF N2 OF S2 >
*MERIDIAN(S) A81 < GILA AND SALT RIVER >

*POSITION FROM NEAREST PROMINENT LOCALITY A82 < ABOUT 0.4 MILES BELOW APACHE LEAP IN PACIFIC CANYON >
*LOCATION COMMENTS A83 <>

* ESSENTIAL INFORMATION
+ ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

NEW

COMMODITY INFORMATION

OMMODITIES PRESENT C10 < CU, AG, AU, MN >
RE MINERALS C30 < CUPRITE >
OMMODITY SUBTYPES C41 <
EN. ANALYTICAL DATA C43 <
OM. INFO. COMMENTS C50 <

GNIFICANCE

	PRODUCER	NON-PRODUCER
AJOR PRODUCTS	MAJOR < CU >	MAIN COMMODITIES PRESENT C11 < >
INOR PRODUCTS	MINOR < AG, AU, MN >	MINOR COMMODITIES PRESENT C12 < >
OTENTIAL PRODUCTS	POTEN < >	
CCURRENCES	OCCUR < >	OCCURRENCES OCCUR < >

*PRODUCTION

PRODUCER	NON-PRODUCER
RODUCTION 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 < JOHN SANDAL >
YEAR OF DISCOVERY L10 < c.1900 > +NATURE OF DISCOVERY L30 < B > +YEAR OF FIRST PRODUCTION L40 < 1916 > +YEAR OF LAST PRODUCTION L45 < 1955 >
PRESENT/LAST OWNER A12 < FREDRICKS, SMITH (1951) >
PRESENT/LAST OPERATOR A13 < JUAN ORTEGA (1955) >
EXPL./DEV.COMMENTS L110 < INCLUDES 35 CLAIMS; OTHER PREVIOUS OWNERS/OPERATORS INCLUDE GRAND PACIFIC COPPER CO., GRAND PACIFIC MINING CO. >

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S) C40 < SHEAR ZONE >
DEPOSIT FORM/SHAPE M10 < LENTICULAR >
DEPTH TO TOP M20 < > +UNITS M21 < > +MAXIMUM LENGTH M40 < 100 > +UNITS M41 < FT >
DEPTH TO BOTTOM M30 < > +UNITS M31 < > +MAXIMUM WIDTH M50 < > +UNITS M51 <
DEPOSIT SIZE M15 < SMALL > M15 < MEDIUM > M15 < LARGE > (circle one) +MAXIMUM THICKNESS M60 < 10 > +UNITS M61 < FT >
STRIKE M70 < E-W N50E > +DIP M80 < 70SW >
DIRECTION OF PLUNGE M100 < > +PLUNGE M90 <
DEP. DESC. COMMENTS M110 < ORE DEPOSITS IN E-W FAULT ZONES >

DESCRIPTION OF WORKINGS

*Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one) +OVERALL LENGTH M190 < 1900 > +UNITS M191 < FT >
+DEPTH BELOW SURFACE M160 < 250 > +UNITS M161 < FT > +OVERALL WIDTH M200 < > +UNITS M201 <
+LENGTH OF WORKINGS M170 < 5400 > +UNITS M171 < FT > +OVERALL AREA M210 < > +UNITS M211 <
DESC. OF WORK. COM. M220 < MAIN DEVELOPMENT BY 3 TUNNELS WHICH INTERCONNECT; THERE IS ALSO A SHAFT; MAIN WORKINGS ARE ON SANDAL FAULT >

GEOLOGY

+AGE OF HOST ROCK(S) K1 < MISS >
+HOST ROCK TYPE(S) K1A < LIMESTONE >
+AGE OF IGNEOUS ROCK(S) K2 < CAMB >
+IGNEOUS ROCK TYPE(S) K2A < DIABASE >
+AGE OF MINERALIZATION K3 < CRET-PALEO >
+PERT. MINERALS (NOT ORE) K4 < QUARTZ, PYRITE, CALCITE >
+ORE CONTROL/LOCUS K5 < NE TRENDING FAULTS CROSSING ESCABOSA LIMESTONE, FAULT INTERSECTIONS >
+MAJ. REG. TRENDS/STRUCT. N5 < NW TRENDING FAULT SYSTEMS, NE TRENDING FAULT SYSTEMS >
+TECTONIC SETTING N15 <
+SIGNIFICANT LOCAL STRUCT. N70 < NW TRENDING IRON CAP FAULT, NE TRENDING SANDAL FAULT >
+SIGNIFICANT ALTERATION N75 < NEAR SURFACE OXYDATION >
+PROCESS OF CONC./ENRICH. N80 <
+FORMATION AGE N30 < MISS >
+FORMATION NAME N30A < ESCABOSA LIMESTONE >
SECOND FM AGE N35 < DEV >
SECOND FM NAME N35A < MARTIN LIMESTONE >
+IGNEOUS UNIT AGE N50 <
+IGNEOUS UNIT NAME N50A <
SECOND IG. UNIT AGE N55 <
SECOND IG. UNIT NAME N55A <
GEOLOGY COMMENTS N85 < ALTHOUGH THERE ARE NO INTRUSIVES AT THE SURFACE HERE, MINERALIZATION IS ASSOCIATED WITH CRET-PALEO INTRUSIVE AND FAULTING EPISODES. >

GENERAL COMMENTS

GENERAL COMMENTS GEN <