



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: 09-10-2012

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: TIBBETTS

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 153B

LOCATION: TOWNSHIP 23 S RANGE 16 E SECTION 35 QUARTER SW
LATITUDE: N 31DEG 22MIN 56SEC LONGITUDE: W 110DEG 41MIN 18SEC
TOPO MAP NAME: LOCHIEL - 15 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

ZINC
SILVER
LEAD
COPPER
GOLD

BIBLIOGRAPHY:

USBM FIELD NOTES
AZBM CARD FILE SANTA CRUZ CO.
SCHRADER, F.C., 1915, USGS BULL. 582,
P. 344-345

TIBBETS MINE

REFERENCES

SANTA CRUZ COUNTY

USBM "U" File

ABM Card file - Santa Cruz County

USGS Bull. 582, p. 344-345

MILS Sheet sequence number 0040230383

S 50 W

#2471

1-23¹¹

三

11/07/2014

iron stand

~~Page 3 of 3~~

Psychol, Zns Rho

3/5

20

2

三

1885

18

167

三

21/11/20

60

22

5

23

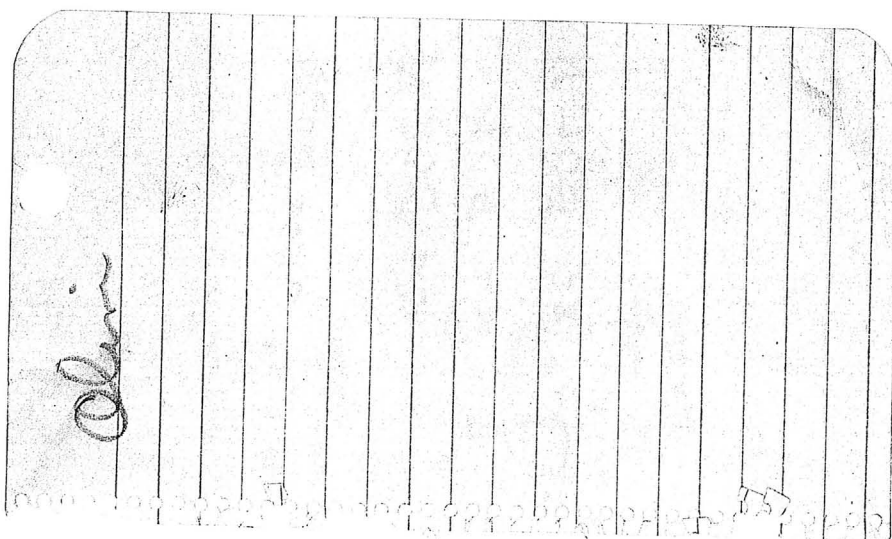
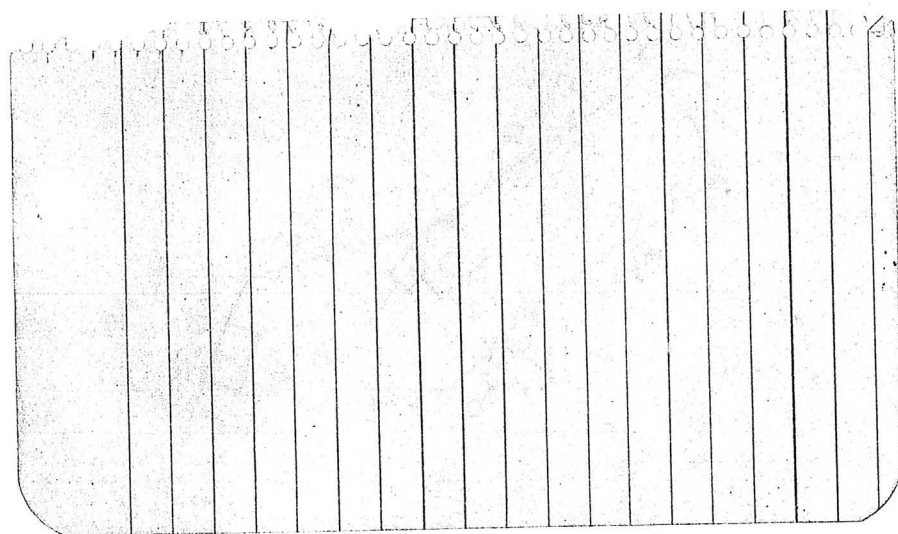
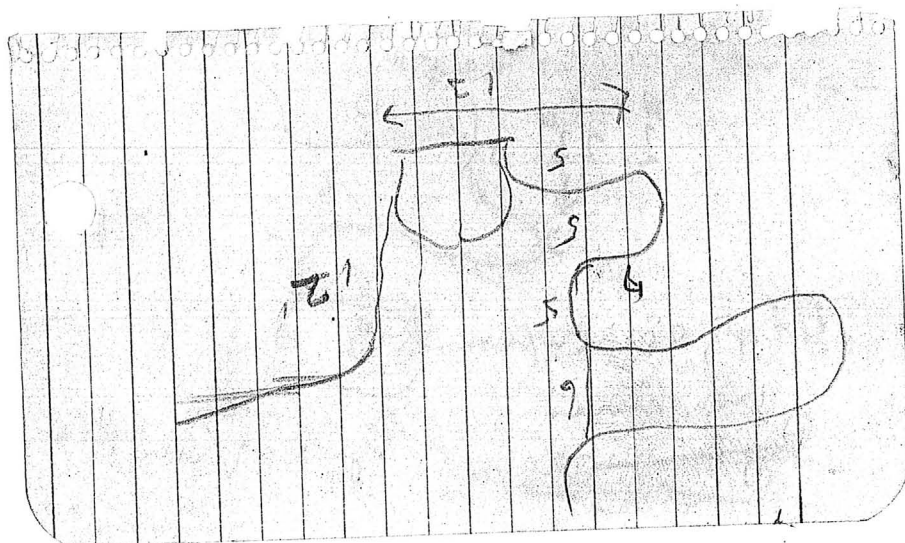
Z
I

2014

3

✓

23



* GENERAL REFERENCES

REFERENCE 1 F1 < USAM FILES, TIBBETTS MINE >
 REFERENCE 2 F2 < SIMONS, F.S., 1974, USGS MAP I-762 (1:48000) >
 REFERENCE 3 F3 < ABGMT FILES, STANTON B. KEITH >
 REFERENCE 4 F4 < SCHRADER, F.C., 1915, USGS BULL. 582, p 344-345 >

F5 < LEHMAN, NORMAN E. 1978 THE GEOLOGY AND PYROMETASOMATIC ORE DEPOSITS OF THE WASHINGTON CAMP-DUQUESNE DISTRICT, SANTA CRUZ COUNTY, ARIZONA. PH.D. DISSERTATION, UNIVERSITY OF ARIZONA, p. 126-143, MAPS >

K5 < JUNCTION WITH A BROAD BRECCIATED FAULT ZONE >
 N5 < SEDIMENT BELT (2.5 MILES LONG AND 1.25 MILES WIDE) SURROUNDED BY IGNEOUS ROCKS WHICH ALSO FORM DETACHED MASSES AND DIKES WITHIN BELT >

N75 < AND MICACEOUS IN UPPER PART OF OXIDIZED ZONE >

N85 < BRECCIA ZONE >

D10 < PRODUCTION DATA NOT AVAILABLE >

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < >
 REPORT DATE G1 < 8.2.05 >
 RECORD TYPE B20 < X, I, M >
 INFORMATION SOURCE B30 < 1, 2 >
 DEPOSIT NUMBER B40 < >
 FILE LINK IDENT. B50 < USAM-0040230383 >
 REPORTER(SUPERVISOR) G2 < CALDER, SUSAN R. >
 (last, first, middle initial) (last, first, middle initial)
 REPORTER AFFILIATION G5 < ABGMT >
 SITE NAME A10 < TIBBETTS MINE >
 SYNONYMS A11 < >

LOCATION

MINING DISTRICT/AREA A30 < WASHINGTON CAMP DISTRICT >
 COUNTY A60 < SANTA CRUZ >
 STATE A50 < AZ >
 COUNTRY A40 < U.S. >
 PHYSIOGRAPHIC PROV A63 < 1, 2 >
 DRAINAGE AREA A62 < 1505030.1, LOWER COLORADO >
 LAND STATUS A64 < 4.1, 1.9, 7.9 >
 QUADRANGLE NAME A90 < LOCHIEL >
 QUADRANGLE SCALE A100 < 1:2500 >
 SECOND QUAD NAME A92 < HARSHAW >
 SECOND QUAD SCALE A91 < 1:24000 >
 ELEVATION A107 < >

UTM
 NORTHING A120 < 3471820 >
 EASTING A130 < 529430 >
 ZONE NUMBER A110 < 18 >

* ACCURACY

ACCURATE ACC (circle)
 ESTIMATED EST < >

GEODETTIC

LATITUDE A70 < 31-22-56N >
 LONGITUDE A80 < 110-41-18W >

CADASTRAL

TOWNSHIP(S) A77 < 023S >
 SECTION(S) A79 < 35 >
 SECTION FRACTION(S) A76 < CENTER OF N2 OF SW >
 MERIDIAN(S) A81 < GILA AND SALT RIVER >

POSITION FROM NEAREST PROMINENT LOCALITY A82 < >
 LOCATION COMMENTS A83 < ADJACENT ON NORTH TO POCAHONTAS MINE >

* ESSENTIAL INFORMATION
 * ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

COMMODITIES PRESENT C10 Zn Pb Ag Cu Ag
ORE MINERALS C30 CERUSSITE, GALENA, MALACHITE, PYRITE
COMMODITY SUBTYPES C41
GEN. ANALYTICAL DATA C43
FORM. INFO. COMMENTS C50 LOW-GRADE ORE

SIGNIFICANCE

MAJOR PRODUCTS MAJOR Pb Ag
MINOR PRODUCTS MINOR Ag Cu Zn
POTENTIAL PRODUCTS POTEN
OCCURRENCES OCCUR

NON-PRODUCER

MAIN COMMODITIES PRESENT C11
MINOR COMMODITIES PRESENT C12
OCCURRENCES OCCUR

*PRODUCTION

PRODUCTION YES (circle) PRODUCTION SIZE SML MED LGE (circle one)

NON-PRODUCER

PRODUCTION UND NO (circle one)

STATUS

EXPLORATION OR DEVELOPMENT

PRODUCER
STATUS AND ACTIVITY A20 4

NON-PRODUCER
STATUS AND ACTIVITY A20

DISCOVERER L20
YEAR OF DISCOVERY L10 1880's NATURE OF DISCOVERY L30 YEAR OF FIRST PRODUCTION L40 1902 YEAR OF LAST PRODUCTION L45
PRESENT/LAST OWNER A12
PRESENT/LAST OPERATOR A13
EXPL./DEV. COMMENTS L110 OWNERS AND OPERATORS INCLUDED M.M. TRICKEY AND PARTNERS (1915)

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S) C40 SHEAR ZONE
DEPOSIT FORM/SHAPE M10 POCKETS; BOULDER-LIKE MASSES OF GALENA
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 DIP M80
DIRECTION OF PLUNGE M100 PLUNGE M90
DESC. COMMENTS M110 3-6 INCH DEPOSITS OF GOUGE ALONG FAULT CONTACT CONTAIN ORE MINERALS; POCKETS OF GALENA AND CERUSSITE FOUND IN SHEETS OF GOUGE AND BRECCIA

DESCRIPTION OF WORKINGS

Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one)
DEPTH BELOW SURFACE M160 200 UNITS M161 FT OVERALL LENGTH M190 UNITS M191
LENGTH OF WORKINGS M170 1600 UNITS M171 FT OVERALL WIDTH M200 UNITS M201
DESC. OF WORK. COM. M220 OPENINGS INCLUDED 144-FT TUNNEL, 60-FT RAISE FROM TUNNEL TO SURFACE, 120-FT DRIFT FROM TUNNEL WITH 15-FT INCLINED WINZE, 63-FT DRIFT FROM TUNNEL FROM WHICH 136-FT INCLINED WINZE IS SUNK, SEVERAL DRIFTS FROM WINZE OVERALL AREA M210 UNITS M211

GEOLOGY

*AGE OF HOST ROCK(S) K1 TERT.-PALEOQ.
*HOST ROCK TYPE(S) K1A PORPHYRITIC BIOTITE GRANODIORITE
*AGE OF IGNEOUS ROCK(S) K2 E.PERM.
*IGNEOUS ROCK TYPE(S) K2A GRAY DOLOMITIC LIMESTONE; CHERTY MARBLE
*AGE OF MINERALIZATION K3 TERT.
*PERT. MINERALS (NOT ORE) K4 SPECULARITE; IRON-STAINED GOUGE
*ORE CONTROL/LOCUS K6 CONTACT OF PORPHYRITIC GRANODIORITE WITH LIMESTONE AT OR NEAR ITS
*MAJ. REG. TRENDS/STRUCT. N5 MINERAL DEPOSITS OF WASHINGTON-DUQUESNE AREA OCCUPY A LIMESTONE -
*TECTONIC SETTING N15 WASHINGTON CAMP FAULT BLOCK
*SIGNIFICANT LOCAL STRUCT. N70 GRANODIORITE-LIMESTONE CONTACT MARKED BY A RED CLAY BRECCIA
*SIGNIFICANT ALTERATION N75 LOCAL SILICIFICATION OF LIMESTONE; PORPHYRITIC GRANODIORITE IS ALTERED
*PROCESS OF CONC./ENRICH. N80
*FORMATION AGE N30 E.PERM.
*FORMATION NAME N30A EPITAPH DOLOMITE
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 NO INDICATION THAT DEPOSITS ARE CONTACT METAMORPHIC; BOULDER-LIKE MASSES OF GALENA FOLLOW SHORT DISCONNECTED FERRUGINOUS STREAKS IN RED CLAY

GENERAL COMMENTS

GENERAL COMMENTS GEN



DOCKET NO. B-ND-4713

TIBBETS' MINE

Santa Cruz Co., Ariz.

Scale: 1" = 20'

60 Ft. Level (Tunnel) 

105 Ft. Level 

120 Ft. Level 

Ore:

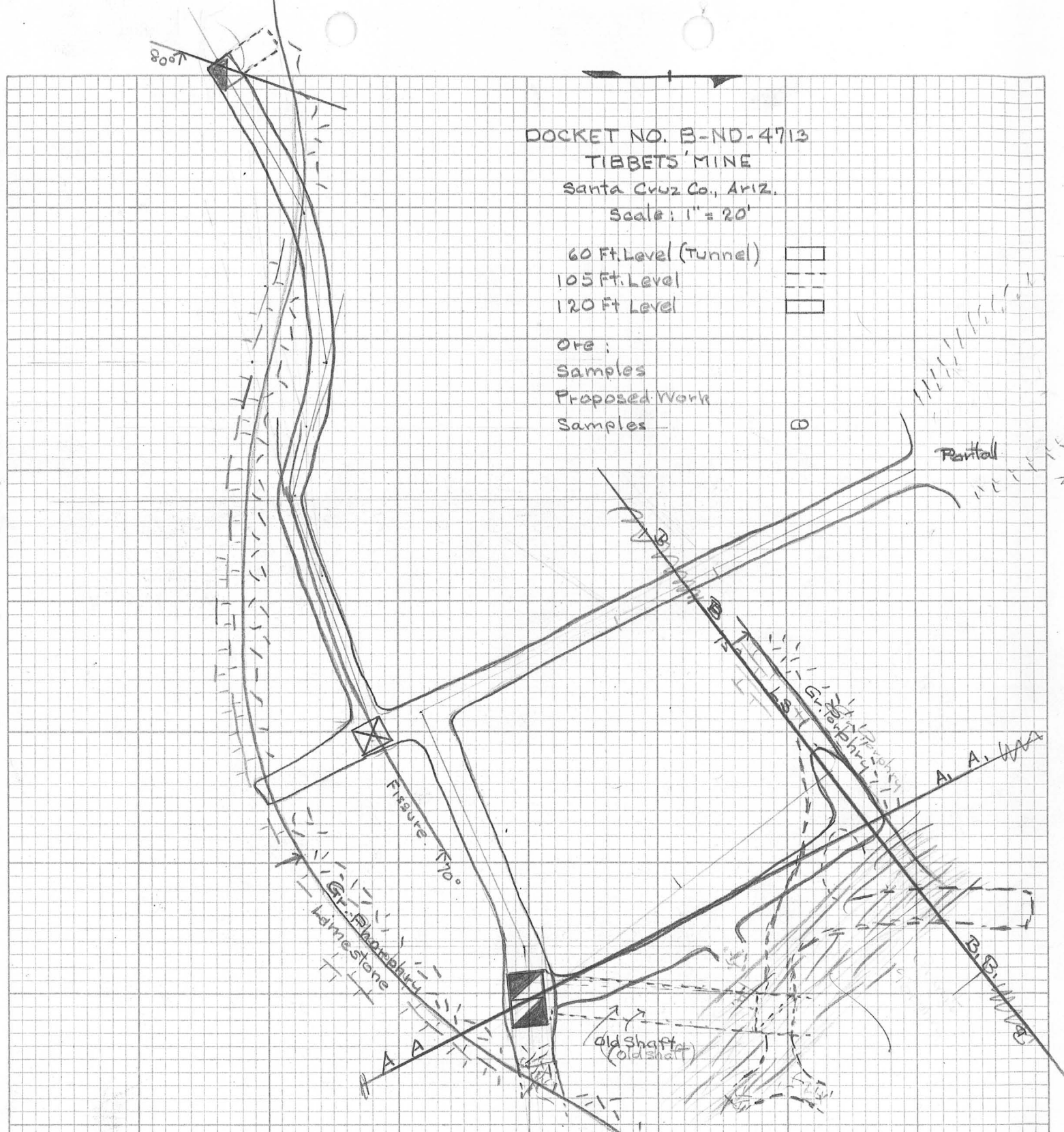
Samples

Proposed Work

Samples

B

Partial



DOCKET NO. B-ND-4713

TIBBETS' MINE

Santa Cruz Co., Ariz.

Scale: 1" = 20'

60 Ft. Level (Tunnel) 

120 Ft. Level 

45 Ft. Level 

Feb. 12, 1943