



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.

09/18/86

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BLACK ROCK

ALTERNATE NAMES:

BLACK WARRIOR

MARICOPA COUNTY MILS NUMBER: 176

LOCATION: TOWNSHIP 5 N RANGE 9 W SECTION 34 QUARTER NE
LATITUDE: N 33DEG 44MIN 12SEC LONGITUDE: W 113DEG 10MIN 57SEC
TOPO MAP NAME: BIG HORN MTS - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

MANGANESE PSILOMELANE

MANGANESE PYROLUSITE

MANGANESE MANGANITE

BIBLIOGRAPHY:

USGS BIG HORN MTS QUAD
ADMMR WHITTING MILL FILE
FARNHAM L & STEWART L USBM IC 7843 P 19
ADMMR "U" FILE
FLAGG G L VANDIUM REPORT BOOK I
ADMMR BLACK ROCK FILE
WILSON E D AZBM 127 P 68

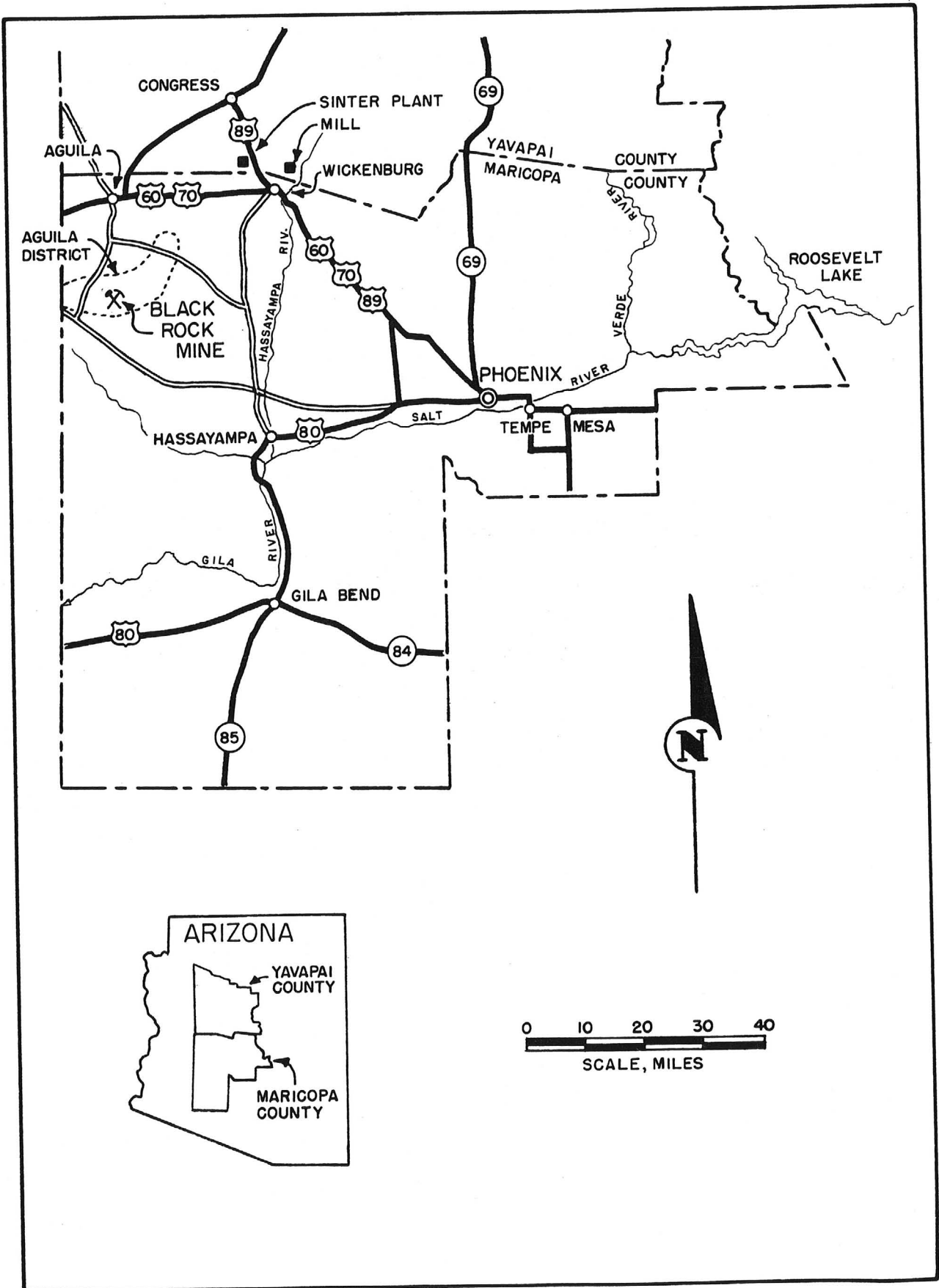


Figure 1.-Location Map, Mohave Mining and Milling Company Operations, Yavapai and Maricopa Counties, Ariz.

BLACK ROCK MINE

MARICOPA COUNTY

IC 7843 p. 19

Victory Nos. 1 & 2 (file) Maricopa Co.

Whiting Mill file

USBM "U" File

Flagg, R. L. Vanadium Report, Book 1

Abm Bul. 127, p. 68

MILS Sheet sequence number 0040130176

IC 8144 Manganese Mining and Milling Methods and Costs, Mohave Mining and
Milling Co., Maricopa County, Az.

See: Mohave Mining & Milling Co (file) Yavapai Co. (Black Rock Mine was the
company's captive mine.)

BLACK ROCK MINE

MARICOPA COUNTY

RRB WR 8/8/86: Visited the Black Rock Open Pit manganese mine in Sec 34, T5N R9W and took some pictures for our files. No activity.

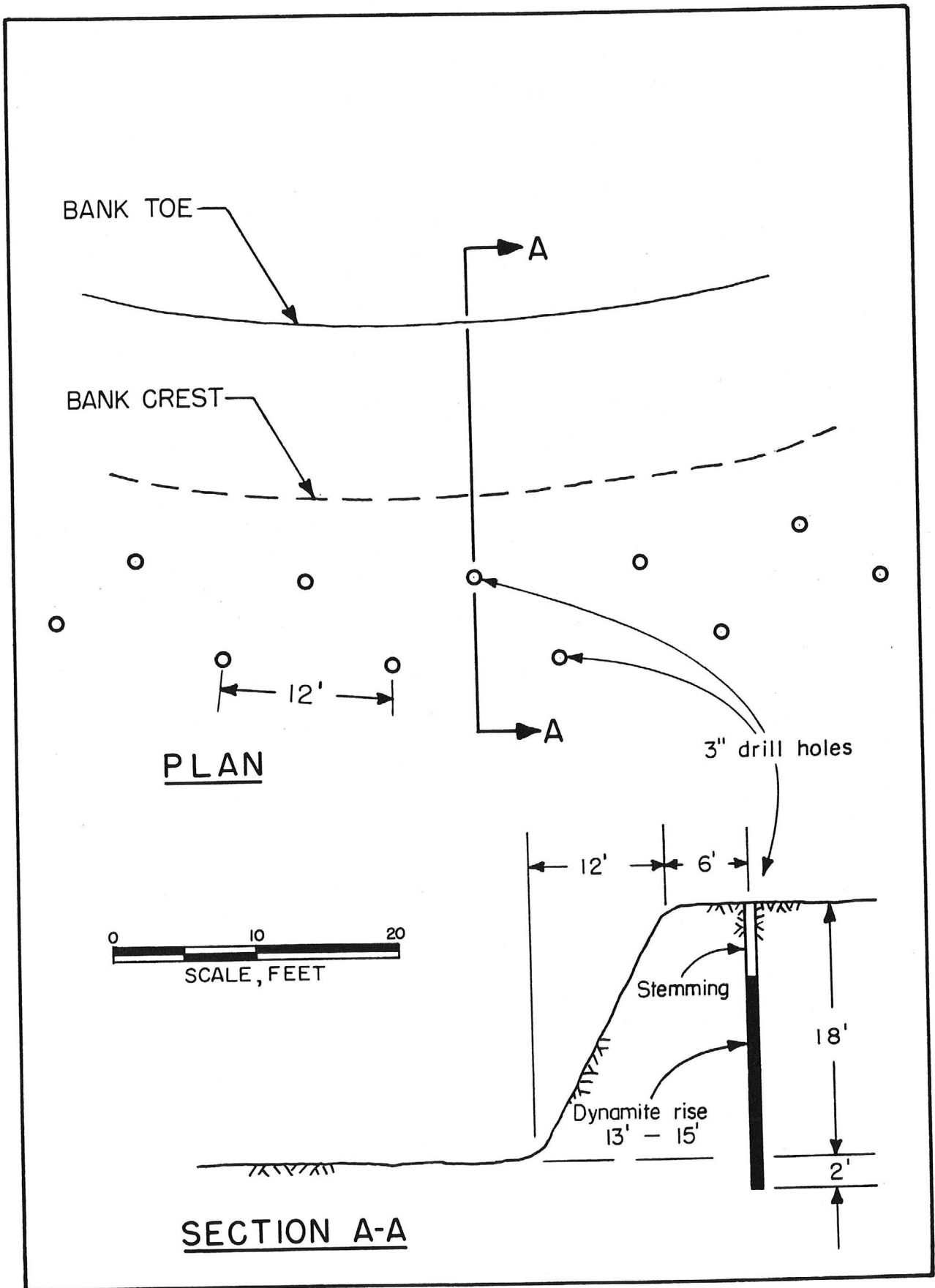


Figure 4.-Plan and Section of Surface Drilling Pattern.

FV15.1

Arizona Department of Mines and Mineral Resources

Field Visit

May be Reproduced

1. Information from: **Field Visit**
2. Mine: **Black Rock Mine** 3. ADMMR Mile File: **Black Rock Mine**
4. County: **Maricopa** 5. AzMILS No: **176**
6. Township Range Sec(s)
7. Location:
8. No. of Claims - Patented Unpatented
9. Owner (if different from above) **R.J. Cheeseman & V. McGowan** 3/88
10. Address: **3003 Adam, N.E., J-11, Albuquerque, NM 87110**
11. **Big Horn Mountains NM Group**
12. Pertinent People and/or Firm:
13. Commodities: **Manganese**
14. Operational Status: **Past producers**
15. Summary of information received, comments, etc.:

Two black & white pictures, one color picture overview of pit looking SSW, Color & BW of west pit wall showing listric faults.
The open pit is impressive, extensive room and pillar mining evidenced in south and west wall of pit. Room and pillar stopes are standing well. Twenty rooms open into the walls at the floor of the pit. The pit of the rooms dip off to the southwest.

The manganese mineralization is hosted in Tertiary volcanics.

Date: February 8, 1990

Signature

Ken Phillips & Nyal Niemuth

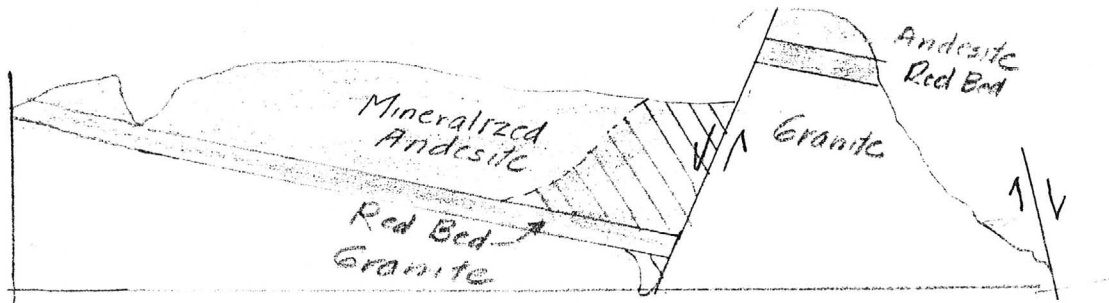
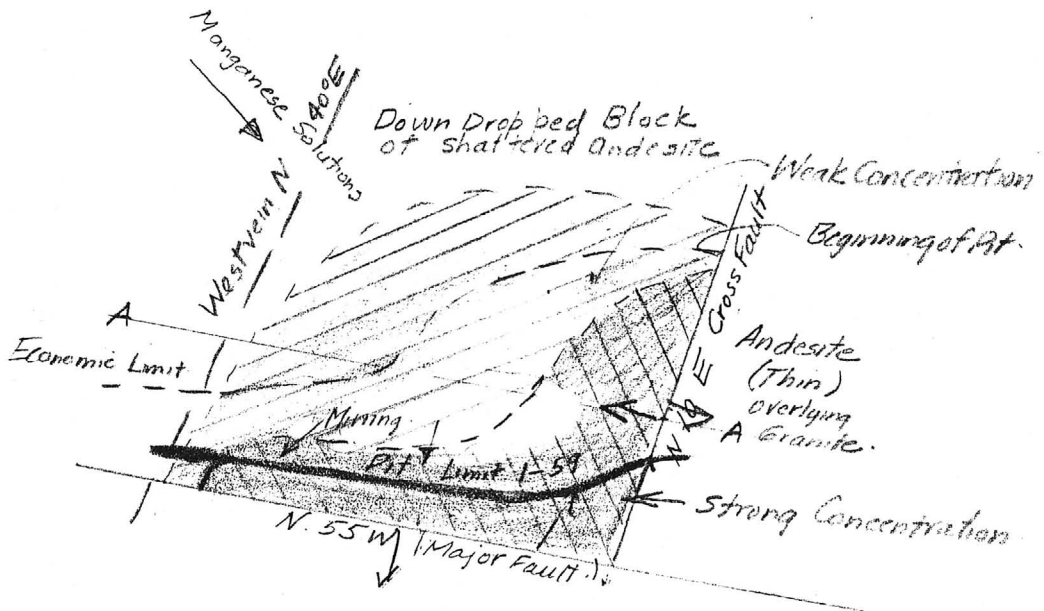
ADMMR

STATE OF ARIZONA
 DEPARTMENT OF MINERAL RESOURCES
 MINERAL BUILDING, FAIRGROUNDS
 PHOENIX, ARIZONA



Black Rock Mine
 Big Horn Mtns. District
 Maricopa Co.

COPY



DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine: Manganese Properties Date: Feb. 20, 1954
To: R.I.C. Manning, Director Engineer: Mark Gemmill
Subject: Present Activities

A. R. Buell - Black Rock Mine - 18 miles south of Aguila

This property continues to operate successfully making regular shipments to the depot. It was reported that the ore runs from 25 to 30%. μ_0 ?

Information from MINE INSPECTOR'S OFFICE - August 15, 1957

✓ BLACK ROCK MINE - "Aguila (12-19-56) Big Horn Dist., N. MARICOPA CO.

✓ Mohave Mining & Milling Co., Wickenburg, Ariz.

✓ H. F. Lynn, Wickenburg, Pres. - dec'd 5-1962

✓ Paul Pellegrini, " , Supt.

✓ M. L. Pate " , Agent

✓ Rod Easley " , Mgr.

✓ MANGANESE - 3000 tons per month

L.A.S.

USGS DDS 20
PRINTED 6/98

RECNO M001971
REC_TYPE S
REP_DATE 81 01
FIL_LINK USBM 0040130024
REP HARNER, JOY L. (PETERSON, JO)
REP_AFF USGS
SYN BLACK WARRIOR , BLACK ROCK NOS. 1, 2, & 3
DIST AGUILA DISTRICT
COUNTY MARICOPA
STATE_CODE AZ
CTRY_CODE US
PHYS 12 BASIN AND RANGE
DRAIN 15070104 LOWER COLORADO
LAND_ST 49
QUAD_I BIG HORN MTS
Q1_SCALE 62500
ELEV 2400 FT
UTM_N 37352000
UTM_E 2984000
UTM_Z +12
TOWNSHIP 005N
RANGE 009W
SECTION 34
SECT_FRACT NE 1/4 OF SECTION 34
MERIDIAN G&SR
POSITION NINE MILES NNW OF BIG HORN PEAK SUMMIT.
LOCATION 20 MILES S OF AGUILA. ; INFO FROM LAND.ST :(1978)
SITE BLACK ROCK GROUP
LAT 33.7394
LONG -113.1761
CTRY_NAME UNITED STATES
COMMOD MN
ORE_MAT PSILOMELANE, PYROLUSITE, MANGANITE, MN OXIDES
MAJOR MN
PROD S
STATUS 6
YR_DISC 1916
OWNER BIG HORN MINING CO. (1960)
EXPL_COM OPERATORS INCLUDED: A. R. BUELL, (1952), MOHAVE MINING AND
MILLING CO. (1957-1958). PROPERTY CONSISTS OF 3 CLAIMS.
DEP_TYPE REPLACEMENT
DEP_FORM WEDGE
MAX_LEN 625
M_L_U FT
MAX_WID 25
M_W_U FT
STRIKE NW-SE
DIP 45 DEGREES E
DDESC_COM THE ORE BODY IS WEDGE SHAPED AND ROUGHLY L-SHAPED. THE AREA
OCCUPIES A DOWN DROPPED FAULT BLOCK.
QUAD250 PHOENIX
DEPTH_WK 340
D_W_U FT
LEN_WK 900
L_W_U FT
OV_LEN_WK 100
O_L_U FT
OV_WID_WK 4
O_W_U FT
DWORK_COM OPEN PIT, MANY ADITS

MIN AGE TERT
 NORē MINS CALCITE, QUARTZ
 ORE CNTL ORE OCCURS NEAR CONTACT OF VOLCANIC WITH BASEMENT. SOME
 MOVEMENT HAS OCCURRED ALONG THIS CONTACT
 REG STRUCT LITTLE HORN PEAK FAULT
 HRU AGE CRET
 HRU NAME BASALT, ANDESITE, TUFFS, FLOW BRECCIA
 NAME HARNER, JOY L. (PETERSON, JO)|BOLM, KAREN S.
 DATE 01/01/81|11/01/90
 ED COM |
 CONT CODE NA
 GEOL COM ORE FOUND IN N-TRENDING FRACTURE ZONES, 2-8 FT WIDE.
 GEN COM INFO.SRC : 1 PUB LIT; 2 UNPUB REPT
 REF FARNHAM, L.L. AND STEWART, L.A., 1958, MN DEPOSITS OF
 WESTERN ARIZONA, U.S.B.M. INFORMATION CIRCULAR 7843.|ADMR
 BLACK ROCK FILE|USBM-FILE DATA-CLUSTER NUMBER 604-BLACK ROCK
 MINE|ALLEN, G.B., 1985, ECONOMIC GEOLOGY OF THE BIG HORN
 MOUNTAINS OF WEST-CENTRAL ARIZONA: ARIZONA BUREAU OF
 GEOLOGY AND MINERAL TECHNOLOGY OPEN-FILE REPORT 85-17, 140 P

CONT NAME NORTH AMERICA
 STATE NAME ARIZONA
 WORK TYPE B
 AP ITEM 15.76% HN|ORE MN|ORE MN|ORE MN
 AP ACC |ACC|ACC|ACC
 AP AMT 55.770|55.165|23.502|24.129
 AP U TONS|TONS|TONS|TONS
 AP YEAR 1956|1957|1958|1959
 AP GRADE |17.69 % MN|28.20 % MN|25.94 % MN
 CP ITEM ORE MN
 CP ACC EST
 CP AMT 3.00000
 CP U TONS
 CP YEAR 1952-1954
 CP GRADE 30 TO 35 PERCENT MN
 AP COM IN 1954 PRODUCTION WAS 250 TONS PER MONTH . UNRECORDED SMALL
 PRODUCTION PRIOR TO 1952
 UPD DATE 90 11
 UPDATER BOLM, KAREN S.
 COMMOD TYP M
 DATE ISSUE 95/5/18
 UPD AFF USGS
 PROF ID 100
 PROF LOC 100
 PF COMMOD 100
 PROF EXPL 75
 PFDESC DEP 50
 PFDESC WRK 100
 PROF GEOL 50
 PROF REF 100
 PPROD RESV 40
 PROF ALL 79
 HR AGE MV CRET
 HR TYPE MV TUFFACEOUS HATRIX OF AGGLOMERATE
 AR AGE MV PREC
 AR TYPE MV GNEISS
 TYPE R|U
 AFFIL USGS|USGS
 DEP CODE 10100
 HUC 15070104

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Black Rock Mine (old Black Warrior)

Date Jan. 9, 1959

District Big Horn (Aguila) Dist., Maricopa Co.

Engineer Lewis A. Smith

Subject: Mine Visit

Location: 19.5 miles south of Aguila (Sec. 26, T. 5 N., R. 9 W.)

History: Located probably as Black Warrior in 1916. Relocated by J. N. House of Aguila as Black Rock 1, 2, & 3. During 1952 A. R. Buell acquired the claims 1 & 2 and began work on them in March 1952. By March 1954, 3000 tons of ore containing 30-35% Mn was produced from No. 1 Claim. In April 1954 production amounted to 250 tons per month. All was sent to Wenden. Past two years (1957-1958) Mohave Mining & Milling Co. has operated the mine periodically to obtain 10,000 tons each year. Now operating it (3-2-59).

The mineral area is about 400 x 400 feet and next to the fault on the SW side, it has been mined down to a depth of about 125 feet. The cross fracture which terminates the ore to the east trends NE-SW at about 40°. The rich ore zone is 2-8' wide along this fracture and dips flatly west at about 20°. The west vein dips 45° E. The ore body is largely concentrated between the veins and along the NW-SE major fault with a bulge, which is thicker along the E fault (see plan & section).

The ore consists of brecciated andesite coated by psilomilane and containing localized pyrolusite and manganite. Some calcite and manganiferous calcite are common in the ore area. The ore body is wedge shaped and roughly L shaped, sloping from north to south (the thick part). The area occupies a down dropped fault block.

A fairly large reserve of 10-17% ore still remains.

Sampling

110 ft level starting at east end of ore

- ① at intersection x cut + shaft 4' east of drift chutes 31"
- ② $\frac{1}{2}$ way between chutes 43" hanging wall still in ore
- ③ 5' W of E wing 30"
- ④ Bottom of wing E side 23"
- ⑤ 15' E of ϕ of shaft 27"
- ⑥ 9' from W Face 41"
- ⑦ Not qtz but overlaid silicified granite a foot wall
44" wide 12' above water in W side shaft
- ⑧ In vein at #7 18" of qtz vein good H.W

60 ft level

- ⑨ 13' W of ϕ shaft 30"
- ⑩ Composite of end of E drift 30"
- ⑪ 21' from ϕ shaft W drift 28"
- ⑫ Face of W drift 26"

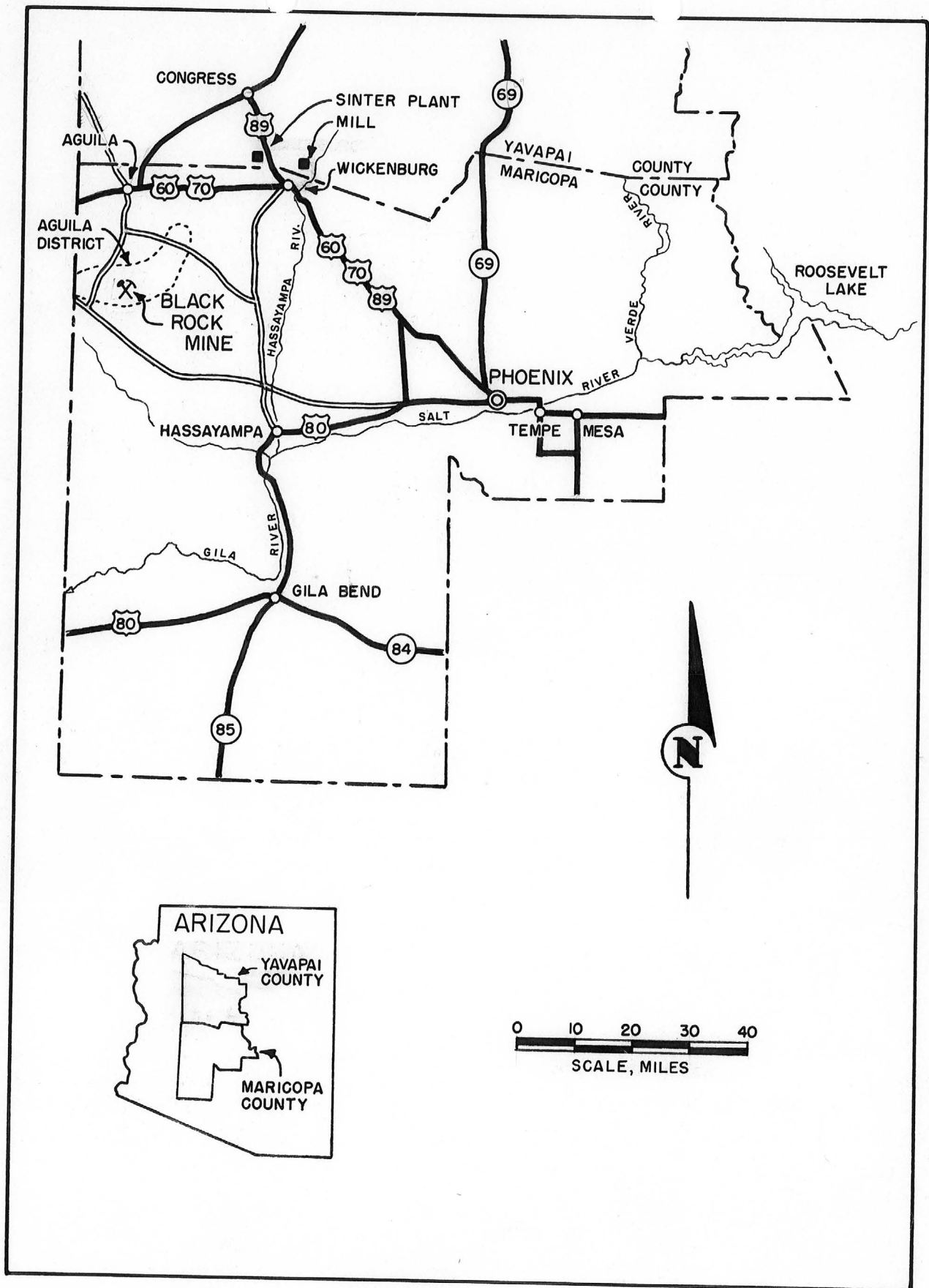


Figure 1.-Location Map, Mohave Mining and Milling Company Operations, Yavapai and Maricopa Counties, Ariz.

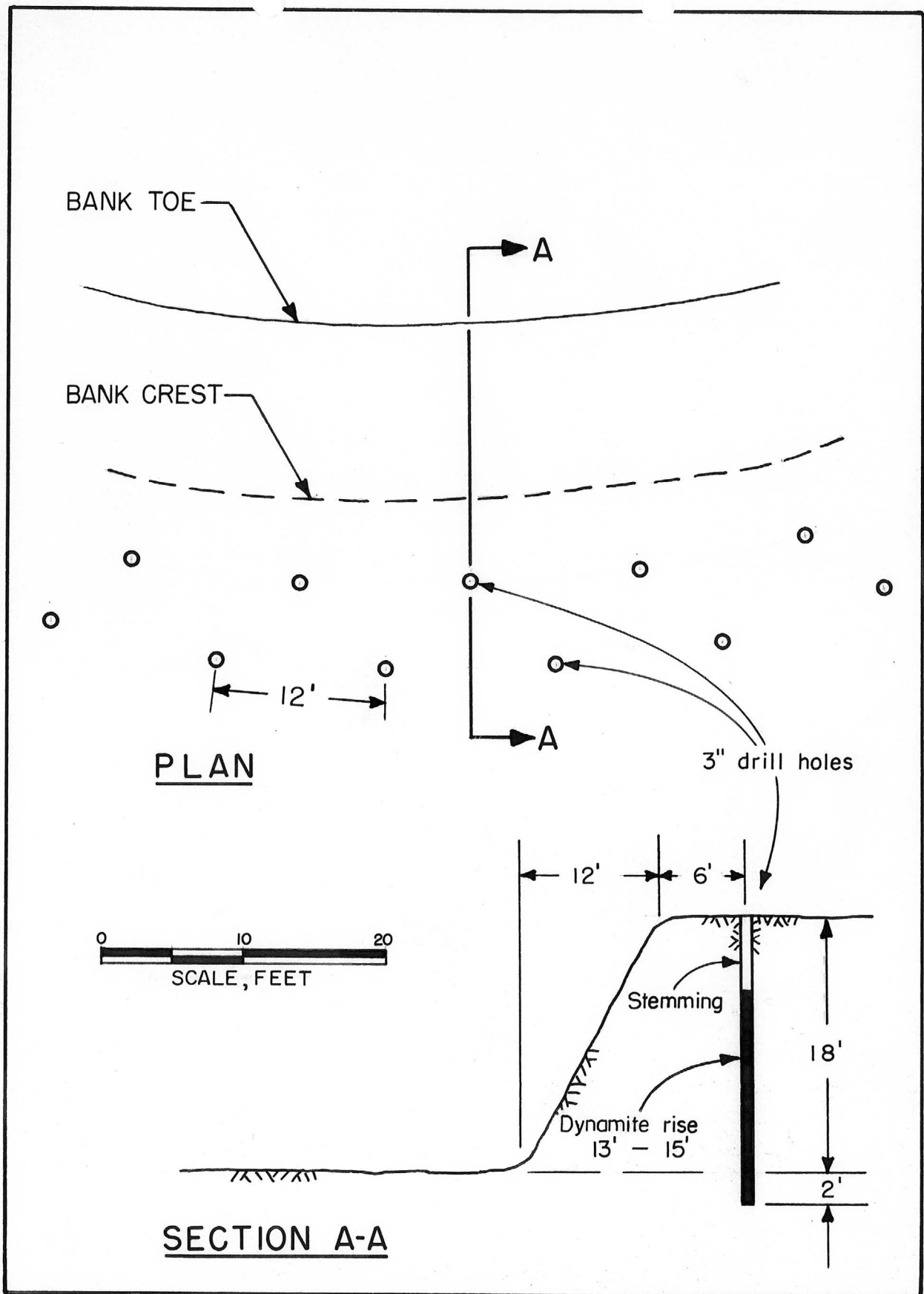


Figure 4.-Plan and Section of Surface Drilling Pattern.