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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: KING-EXILE MINE GROUP

ALTERNATE NAMES:
ROSEMONT LEASE

PIMA COUNTY MILS NUMBER: 174

LOCATION: TOWNSHIP 18 S RANGE 15 E SECTION 24 QUARTER NE
LATITUDE: N 31DEG 51MIN 38SEC LONGITUDE: W 110DEG 46MIN 14SEC
TOPO MAP NAME: SAHUARITA - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER OXIDE
COPPER SULFIDE
SILVER
ZINC
LEAD
GOLD LODE
MOLYBDENUM
BERYLLIUM
TUNGSTEN
URANIUM

BIBLIOGRAPHY:

S.B. KEITH, AZBM BULL. 189, P. 126, 1974
US AEC PRR PIMA COUNTY ARIZ, 1955, P. 644
ADMMR KING-EXILE MINE FILE
USGS BULL. 582, P. 38, 52, 115, 130, 131, 139
ADMMR "U" FILE CU 14
USGS BULL. 1027, P 313

04/25/86

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

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COMMODITY:

COPPER-PRIMARY	TUNGSTEN-(M) W03 CONT.-BYPROD.
SILVER-COPRODUCT	URANIUM-BYPRODUCT
ZINC-BYPRODUCT	
LEAD-BYPRODUCT	
GOLD-(M) LODE-BYPRODUCT	
MOLYBDENUM-BYPRODUCT	
BERYLLIUM-RECOVERABLE	

BIBLIOGRAPHY:

S.B. KEITH, AZBM BULL. 189, P. 126, 1974
US AEC PRR PIMA COUNTY ARIZ, 1955, P. 644
ADMMR KING-EXCILE MINE FILE
USGS BULL. 582, P. 38, 52, 115, 130, 131 &
139

KING-EXILE MINE

PIMA COUNTY

T18S R16E Sec 30

MILS King-Exile Mine Group

GJBX 143 1981 Radioactive Occurrences and
Uranium Production in Arizona p. 233
ABG&MT Report
MILS Sheet sequence number 0040190276
USAEC Preliminary Reconnaissance Report p. 644
ABM Bull. 189 p. 126
Rosemont Development Co. (file)
Gunsight Project (file)
Crescent Mining Properties (file) Pima
Narragansett & Daylight (file) Pima
Hilo Consolidated, Daylight and York Group (file)
USGS Bull. 582, p. 38, 52, 115, 130, 131, 139

MINING WORLD - 1-59

MINING WORLD" Sept. 1959

PAY DIRT for JANUARY 20, 1954

NAME OF MINE: *Hung in Exile*

COUNTY: *Pima*

DISTRICT: *✓*

METALS: *Cu, Zn*

OPERATOR AND ADDRESS:

MINE STATUS

DATE:

*11/44 J. S. Maffeo, Box 39
Tuslee*

DATE:

Shipping

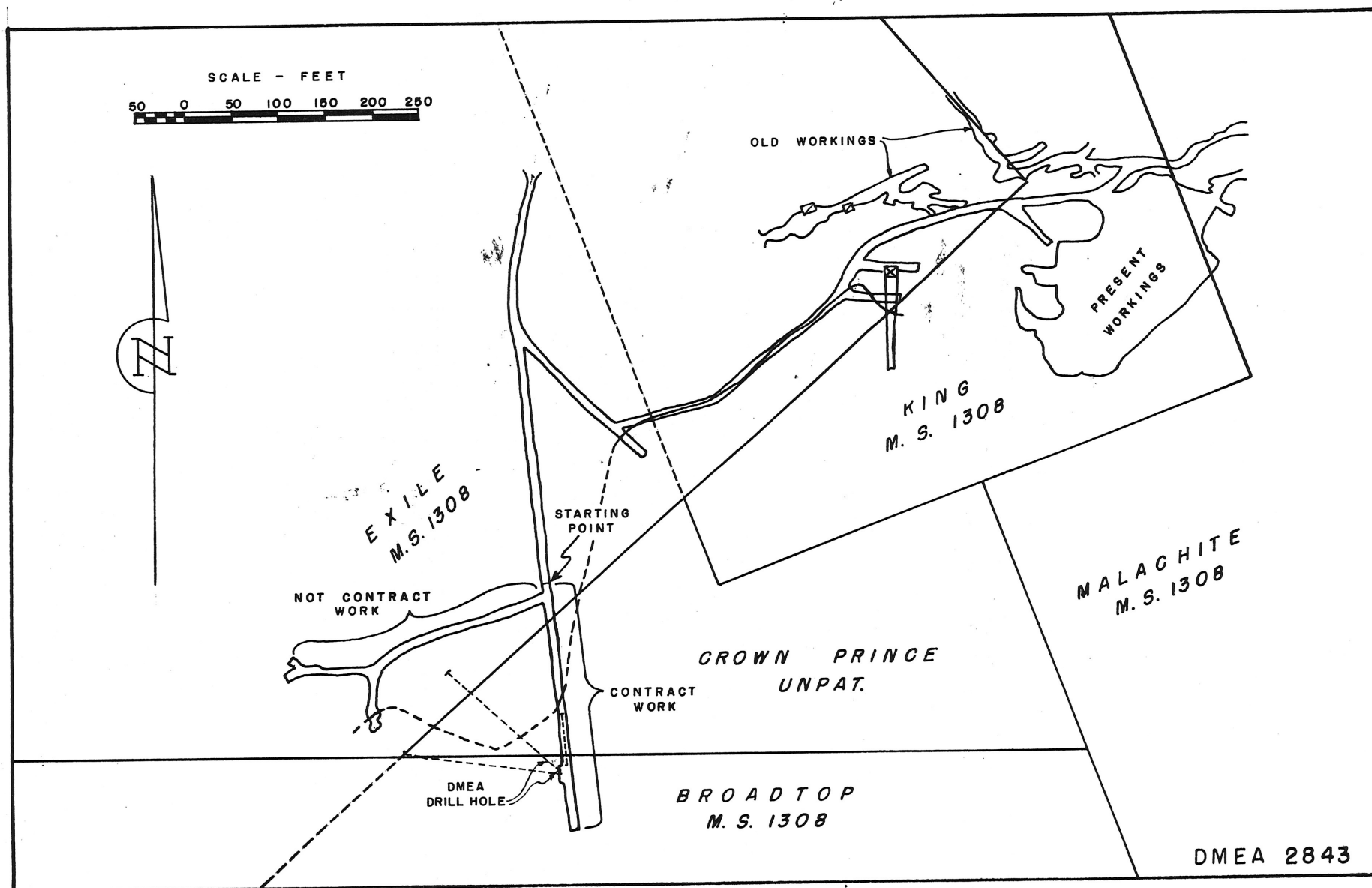


FIGURE 2A

— CLAIM AND MINE MAP —
HELVETIA MINING DISTRICT.

— KING-IN-EXILE MINE —
PIMA COUNTY, ARIZONA

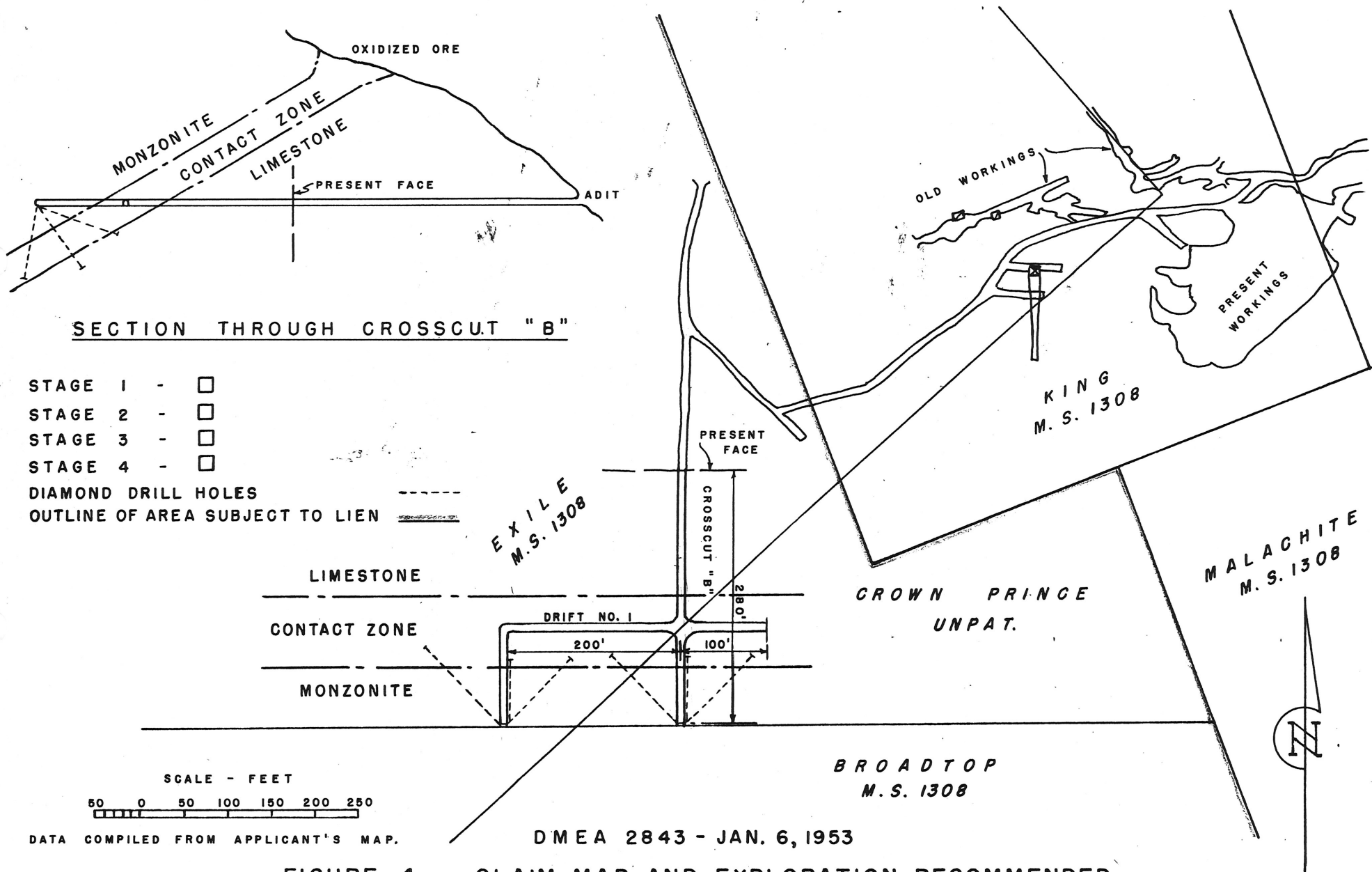
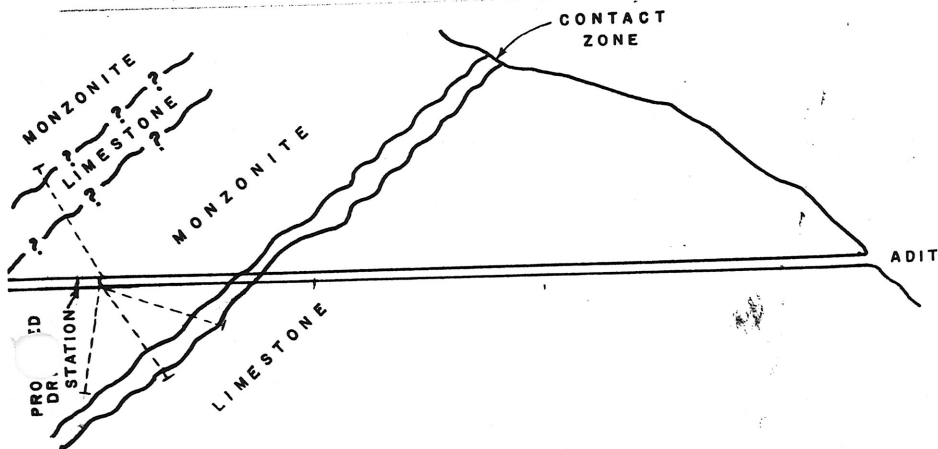
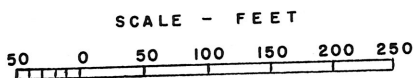


FIGURE 4. - CLAIM MAP AND EXPLORATION RECOMMENDED
 KING-IN-EXILE WORKINGS HELVETIA MINING DISTRICT PIMA COUNTY, ARIZONA

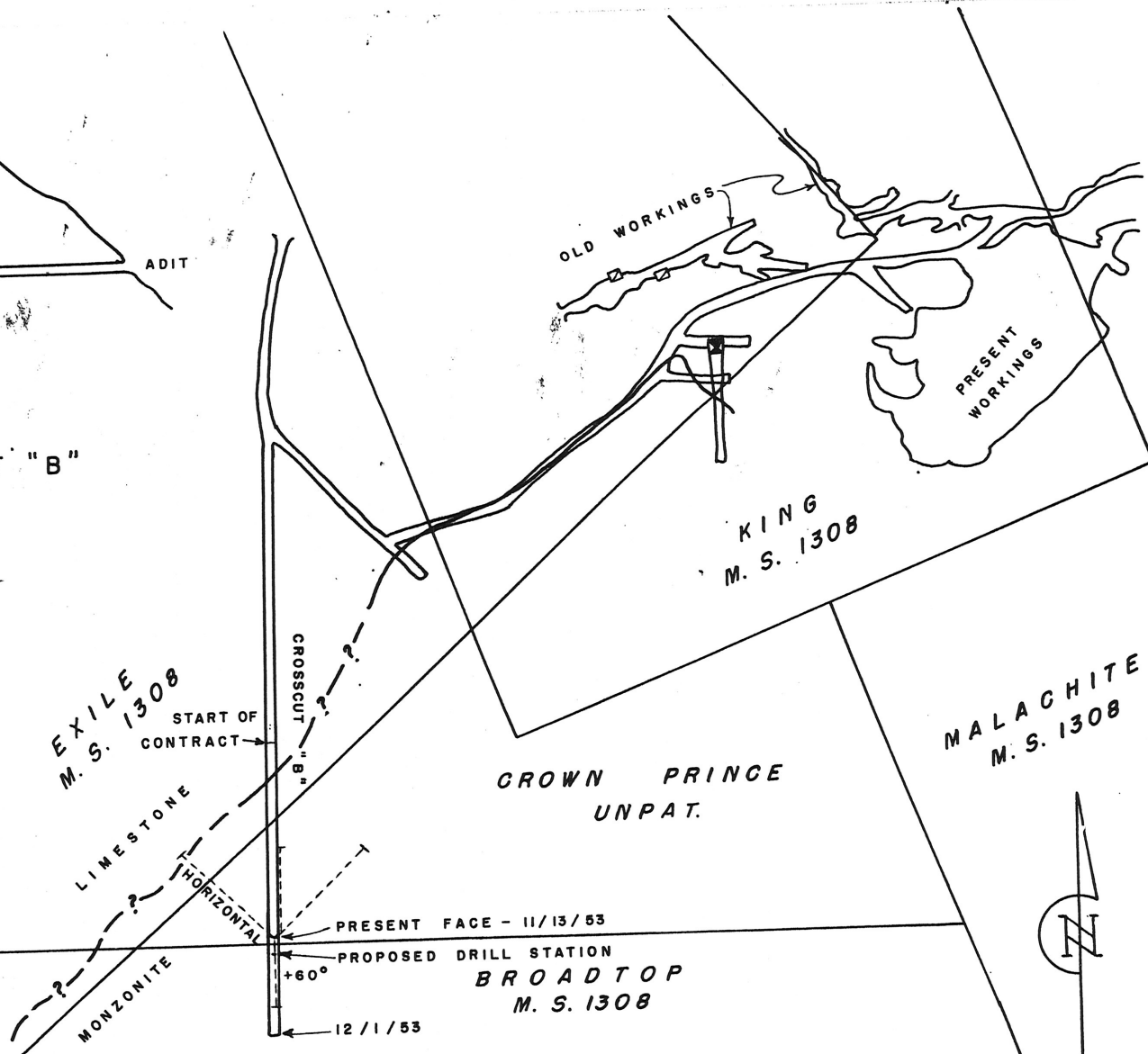


SECTION THROUGH CROSSCUT "B"

DIAMOND DRILL HOLES -----
 OUTLINE OF AREA SUBJECT TO LIEN ———



DATA COMPILED FROM APPLICAT'S MAP



DMEA 2843, 1dm.-E 615 NOV. 17, 1953

CLAIM MAP AND EXPLORATION RECOMMENDED FOR STAGE 2
 KING-IN-EXILE WORKINGS
 HELVETIA MINING DISTRICT

PIMA COUNTY, ARIZONA

FIGURE 2. - CLAIM AND MINE MAP KING-IN-EXILE WORKINGS

HELVETIA MINING DISTRICT - PIMA COUNTY, ARIZ.

DMEA 2843

JAN. 6, 1953

PRESENT OPERATION



APPLICANT'S PROPOSAL:

DRIFTING & CROSSCUTTING

DIAMOND DRILL HOLES



OUTLINE OF AREA SUBJECT TO LIEN

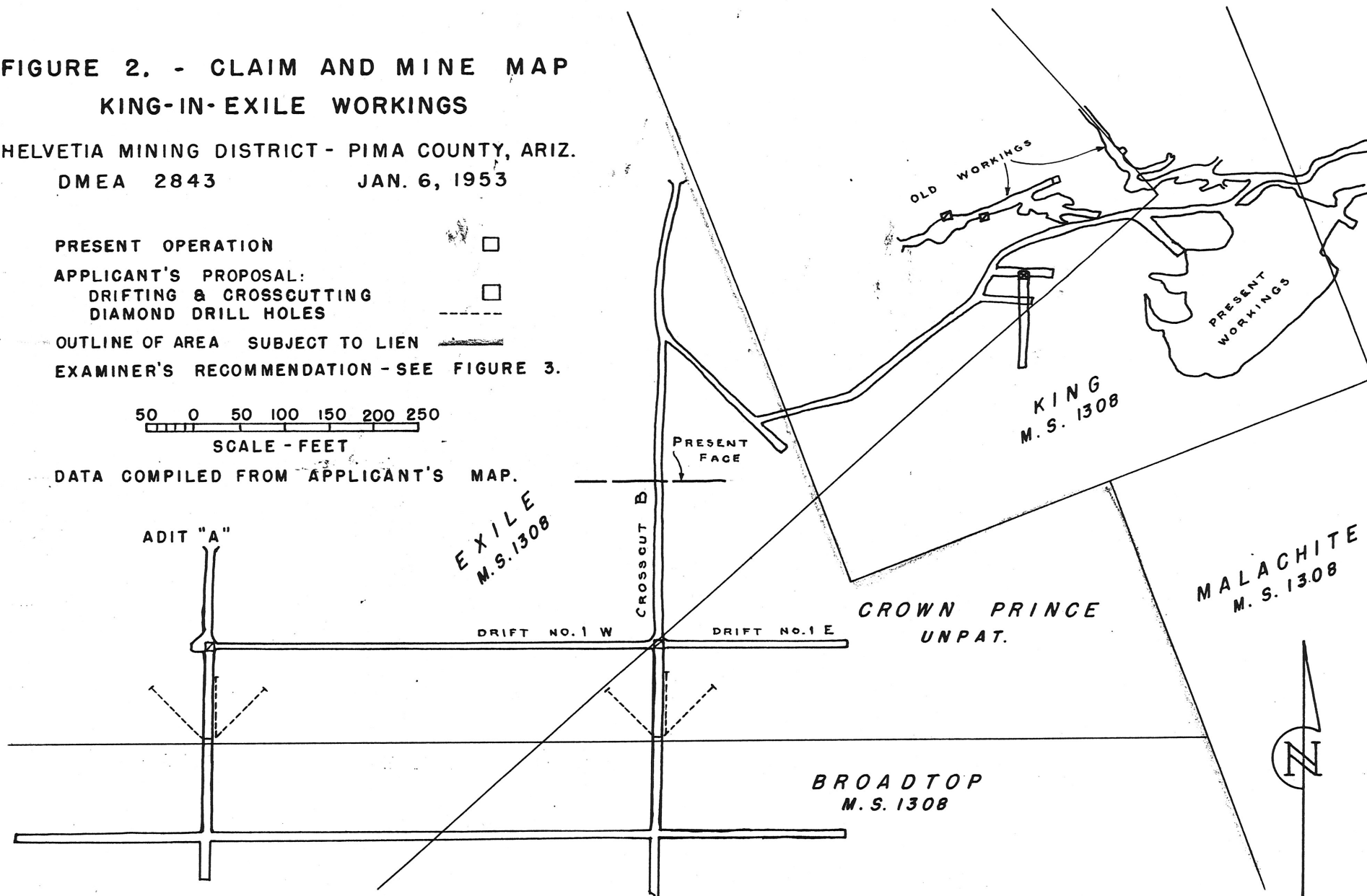


EXAMINER'S RECOMMENDATION - SEE FIGURE 3.

50 0 50 100 150 200 250

SCALE - FEET

DATA COMPILED FROM APPLICANT'S MAP.



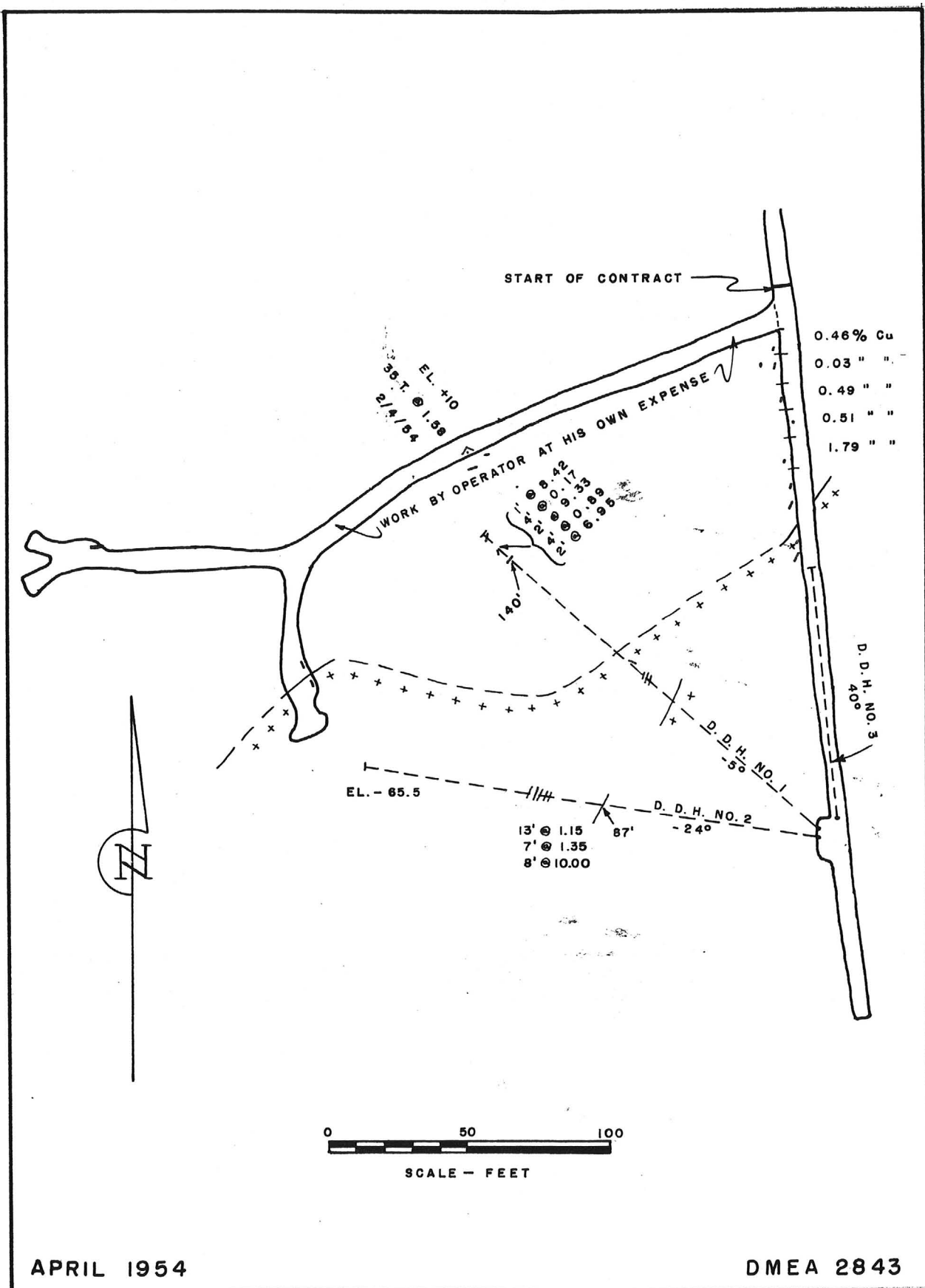
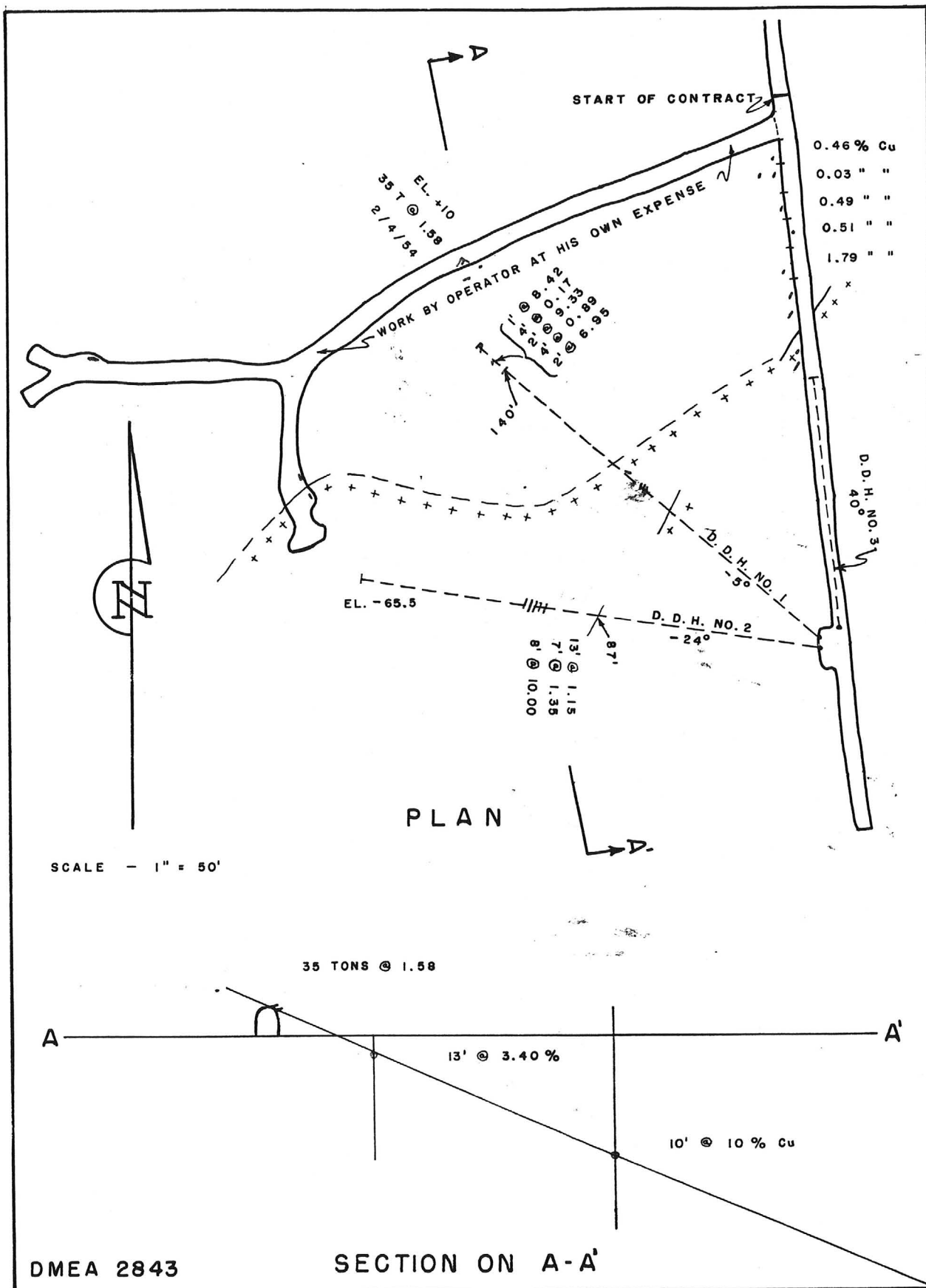


FIGURE 3. - CONTRACT WORK - KING-IN-EXILE MINE
HELVETIA MINING DISTRICT PIMA COUNTY, ARIZONA



KING - IN - EXILE MINE

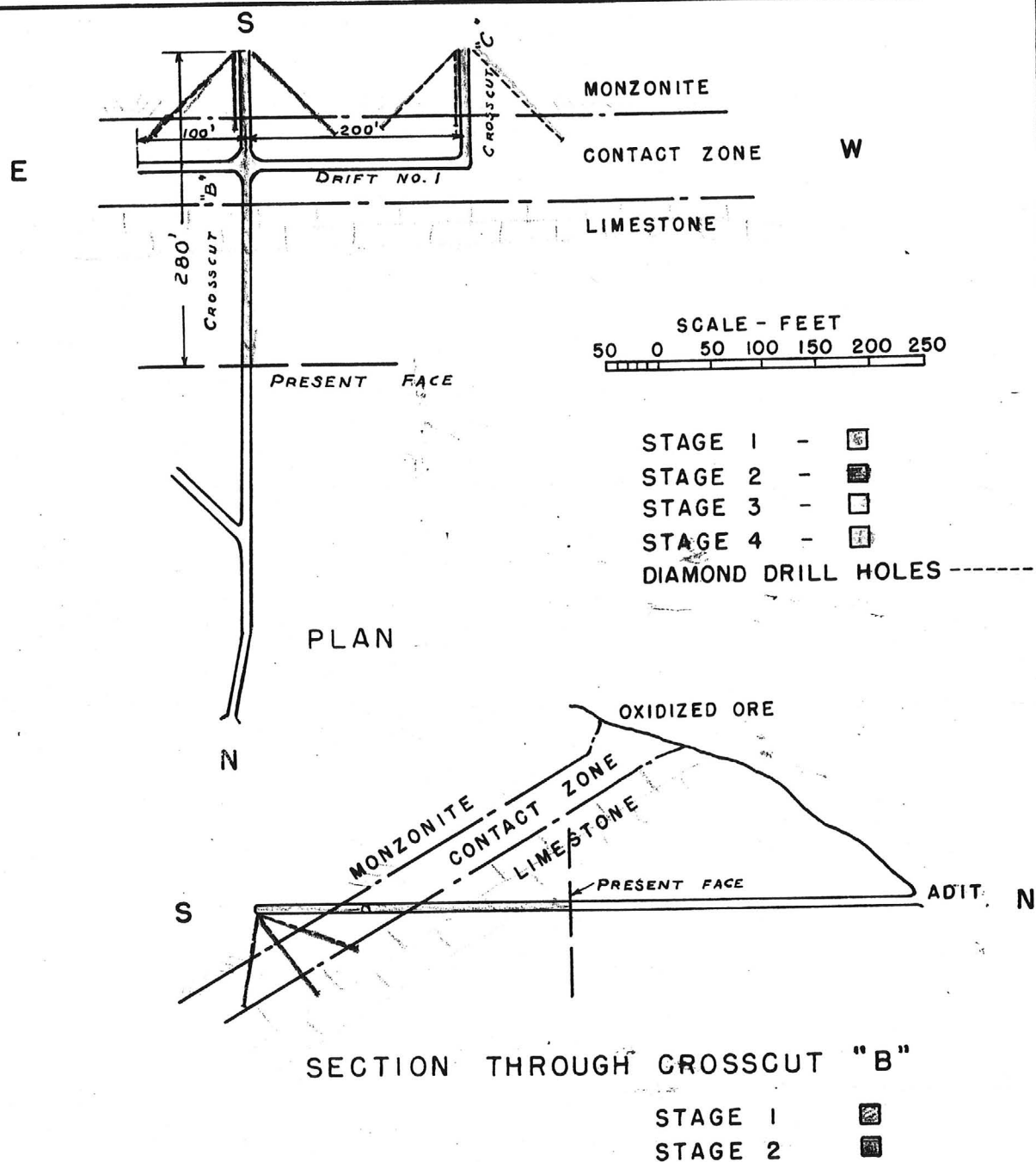


FIGURE 3. - PLAN AND SECTION OF PROPOSED EXPLORATION
 KING-IN-EXILE MINE
 HELVETIA MINING DISTRICT
 PIMA COUNTY, ARIZONA

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine King-Exile Mine Date Sept. 25, 1959
District Helvetia District - Pima County Engineer Axel L. Johnson
Subject: Present Status. Information from Mr. Peterson, Assayer, Sahuarita Mill.

References: Report of April 7, 1959

Present Status: Mine was shut down indefinitely on Sept. 18, 1959.

Banner Mining Co., Box 5605, Tucson, Arizona has option to purchase this property.
9-6-61

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine : King-Exile Mine

Date : April 7, 1959 & April 8, 1959

District : Helvetia District, Pima Co.

Engineer Axel L. Johnson

Subject: Field Engineer's Report

Location: About $2\frac{1}{2}$ miles east of Helvetia.

Number of Claims: 11 claims surveyed for patent plus some additional claims.

Owners: Lewisohn Copper Corp.

Lessee: Richard E. Chilson, P.O. Box 2729, Tucson, Arizona.

Principal Minerals: Copper ores, principally chalcopyrite and bornite.

Present Mining Activity: Stoping ore from underground operations. 12 to 15 men working (2 shifts -- 7 days per week). Shipping about 1 carload of ore per day.

Ore Values: Approximately 10% copper.

Marketing: Shipping some of the ore to the A.S. & R. smelter at Hayden and some to the International smelter at Inspiration.

Additional: Most of the work is now being done on the King, including 3 stopes and drifting. In addition, one stope is being worked on the Exile, according to unofficial information.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine ~~KING-EXILE~~

Date Sept. 12, 1958

District Helvetia District, Pima Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Reed Welch. No visit.

Location: About $2\frac{1}{2}$ miles east of Helvetia.

Owners: Lewisohn Copper Corp., Box 2729, Tucson, Arizona
Richard E. Chilson, President & Manager

Operators: same as above

Principal Minerals: Copper ores, principally chalcopyrite and bornite

Present Mining Activity: Stoping ore from underground operations. 8 to 10 men working.

Marketing Facilities: Shipping the ore to the A. S. & R. Smelter at Hayden, Arizona.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine King Mine (formerly King in Exile Mine) Date Aug. 10, 1955

District Helvetia Mining Dist., Pima County. Engineer Axel L. Johnson

Subject: Mine Report. Personal Visit & Information from Henry Watson, General Foreman.

Location About 2 1/2 miles SE of Helvetia. Sec. 30 -- T 18 S -- R 16 E

Number of Claims 33 patented claims.

Owners Lewisohn Estate

Lessee and Operator Richard E. Chilson, Box 2729, Tucson, Ariz.

Principal Minerals Copper minerals, mostly chalcopyrite and bornite.

Number of Men Employed 18 men (2 shifts). All Mexican labor, living in Tucson.
Non-Union.

Production Rate Production rate has been about 2 1/2 cars per week (about 125 tons).
Operators, at the present time, is doing development work.

Geology See my report of this property under date of Oct. 1, 1952.

Ore Values Mr. Watson stated that the ore has been running from 3 to 5 % in copper, and should average about 4 %.

Ore in Sight and Probable Operator is now doing development work to block out additional ore, as the ore reserves are getting quite low. No estimate of the ore reserves was given to the field engineer. Probable ore may be considerable. (See item 11 of report of Oct. 1, 1955.)

Milling and Marketing Facilities Ore is shipped direct to the International Smelter at Inspiration, Ariz.

Mine Workings See report of Oct. 1, 1952.

Present Operations Operator is now development work (mostly drifting) to block out more ore reserves.

Proposed plans Not stated. Presumably will depend on the results of the development work.

Courtesy of Henry Watson, equipment operator and general foreman---address Box 113, Sahuarita, Arizona.

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



Nov. 1, 1951
By Axel L. Johnson

SOURCE OF INFORMATION / --- Lauren Van Horn
MINE --- King in Exile Mine
DISTRICT --- Helvetia Mining Dist., Pima Co.

Location Near Helvetia Camp--- 17 miles south-east of Sahuarita.

Owners Lewisohn Estates

Operator Richard Chilson, P.O. Box 2729, Tucson, Ariz. leasing from the
Lewisohn Estate.

METALS MINED Copper

Production Rate 1 carload per week.

Market Facilities Shipping ore to El Paso, Tex.

Ore Values Ore runs 5 to 8 % Copper.

Present Operations Has a tunnel in 1200 feet, with a 60 ft. deep inclined winze.

COPY

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine KING IN EXILE

Date October 28, 1942

District Helvetia

Engineer George A. Ballam

Subject: Report of Production Possibilities.

The King in Exile is located about one half mile east of the Leader mine and mill in Helvetia and three hundred feet below the top of the Santa Rita mountains on the west slope. It is leased from the Lewisohn interests by Maffeo and Greenhalgh of Bisbee, and is being operated by Newt Wolcott who has three men working.

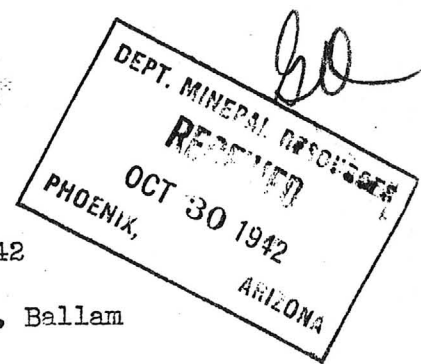
The ore, copper pyrites, is a replacement in limestone bedded planes. The country rock is monzonite. Some molybdenite has been encountered. The mine is developed by a tunnel about 150' back into the new workings. An old winze of unknown depth indicates some work has been done in the past, and numerous surface cuts and workings show evidence of considerable ore having been taken out. The ore is chalcopyrite and runs from 8% to 10% or better.

From the tunnel level the ore is loaded into an aerial tramway bucket of half-ton capacity. It is hoisted to the top of the mountain and loaded into a truck for the very difficult trip down the east side of the mountain to a county road. The property could readily be approached from the Copper World mine of Helvetia Mng. and Milling Co., or from the mill itself, both of which are on the route of the proposed access road, already approved. The distance would be less than one mile, and a practical grade is possible. This extension has been brought to the attention of the Forest Service, and the Supervisor has promised an early examination.

Owing to the recency of operation of this property and the extreme difficulty of working it, it is difficult to estimate production possible. However, the extension of the access road through Helvetia will greatly facilitate production, and bring this mine many miles closer to the railroad.

By: George A. Ballam

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT



Mine King in Exile

Date Oct. 28, 1942

District Helvetia

Engineer George A. Ballam

Subject: Report of Production Possibilities

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George A. Ballam

1987, there has been a moratorium on issuing new mineral leases and renewing existing ones. The uncertainty regarding the future royalty rate has been the cause of consternation for the mining industry, as well as the Department, but there is optimism that the situation will soon be resolved.

Oil and gas rental income has dropped markedly during the past 5 years as a result of the industry slump. If oil or gas were ever discovered on State land, the Trust would receive a minimum of 12 1/2 percent of the market value of the oil or gas produced.

Mineral-material royalties have grown steadily during the past 5 years. Resources in this category include sand, gravel, rock, building stone, riprap, cinders, decomposed granite, topsoil, and any other mineral material used in the construction industry. After the Land Department receives an application to purchase mineral materials, it conducts an appraisal and the material is sold at public auction to the highest bidder. Revenue is guaranteed on each lease be-

cause the company must pay an annual minimum royalty. Rentals from mineral-material operations greatly increased in 1987-88 when the department began basing the rental figure on a percentage of land value. Total revenue from the sale of mineral materials during the past 5 years is only slightly less than that received from mineral-lease royalties.

Total revenues from subsurface leasing for the current fiscal year are expected to surpass those received in 1987-88. The continuing high price of copper has allowed several companies to increase production. This is excellent news for the industry, as well as the beneficiaries of the State Trust.



NEW AZGS PUBLICATION

The following publication may be purchased from the Arizona Geological Survey (AZGS), 845 N. Park Ave., #100, Tucson, AZ 85719. For price information on this and other publications, contact the AZGS office at (602) 882-4795.

Welty, J.W., and Schnabel, Lorraine, 1989, Bibliography for metallic mineral districts in Gila, Maricopa, Pinal, and Yavapai Counties, Arizona: Open-File Report 89-1, 123 p.

This report is the fourth in a series of county bibliographies for metallic mineral districts in Arizona. The others, Circulars 24, 25, and 26, were published by the AZGS in 1986. Nearly 1,600 citations are included in this compilation. The report has been open-filed to permit timely access to the public. After editing and printing, it will be released as a circular.

AZGS Accepts BOM Diamond- Drill Core

In early March 1989, the Arizona Geological Survey accepted a donation of nearly 32,000 feet of diamond-drill core from the U.S. Bureau of Mines (BOM). The core comes from 13 separate properties across the State (Table 1). The core was shipped from the BOM Twin Cities Research Center, where it had been stored, by the Minnesota Air Guard to Davis-Monthan Air Force Base in Tucson and then trucked to the Mission Unit of ASARCO Inc., where it remains in temporary storage. We thank members of the Minnesota Air Guard; Davis-Monthan personnel; Robert Willard, BOM Twin Cities Research Center; Michael Greeley, BOM State mineral specialist; and James Litchenthian, mine superintendent at the Mission Unit; for their generosity in enabling the AZGS to accept and store this drill core. Information about the geologic setting and logs for each drill hole can be found in the references listed in Table 1. For localities with no listed references, no published information is available. Please call our office (602-882-4795) to make an appointment if you wish to examine any of this core.

Table 1. Listing of BOM diamond-drill core localities.

Mineral District	Mine Name	Commodity Sought	Total Footage ¹	Number of Holes	Reference ²
Ajo	Copper Giant	Cu	1,400	2	Romslo and Robinson (1952)
Apache Iron	Apache Iron	Fe	1,200	15	Stewart (1947)
Artillery Peak	Maggie Canyon	Mn	3,700	69	Kumke and others (1957)
Big Bug	Iron King	Cu	600	4	n.a.
Christmas	Christmas	Cu	3,700	7	Tainter (1948)
Cochise	Keystone	Cu, Zn	10,800	18	Romslo (1949)
Helvetia	King in Exile	Cu	100	1	n.a.
Hualapai	Antler	Cu, Zn	2,100	6	Romslo (1948)
Lakeshore	Lakeshore	Cu	200	1	Romslo (1950)
Pima	Esperanza	Cu	1,450	3	Tainter (1947)
Tiger	Crown King	Cu	1,400	3	n.a.
Wallapai	Cerbat	Pb, Zn	2,800	8	n.a.
Wallapai	Civitation	Cu	3,400	6	n.a.

¹ Total footage is rounded off to the nearest 100 feet drilled.

² "n.a." indicates that no references are available for this core.

References

- Kumke, C.A., Ross, C.K., Everett, F.D., and Hazen, S.W., Jr., 1957, Mining investigations of manganese deposits in the Maggie Canyon area, Artillery Mountain region, Mohave County, Arizona: U.S. Bureau of Mines Report of Investigations RI 5292, 87 p.
- Romslo, T.M., 1948, Antler copper-zinc deposit, Mohave County, Arizona: U.S. Bureau of Mines Report of Investigations RI 4214, 14 p.
- 1949, Investigation of Keystone and St. George copper-zinc deposits, Cochise County, Arizona: U.S. Bureau of Mines Report of Investigations RI 4504, 21 p.
- 1950, Investigation of Lake Shore copper deposits, Pinal County, Arizona: U.S. Bureau of Mines Report of Investigations RI 4706, 24 p.
- Romslo, T.M., and Robinson, C.S., 1952, Copper Giant deposits, Pima County, Arizona: U.S. Bureau of Mines Report of Investigations RI 4850, 9 p.
- Stewart, L.A., 1947, Apache Iron deposit, Navajo County, Arizona: U.S. Bureau of Mines Report of Investigations RI 4093, 88 p.
- Tainter, S.L., 1947, Amargosa (Esperanza) molybdenum-copper property, Pima County, Arizona: U.S. Bureau of Mines Report of Investigations RI 4016, 15 p.
- 1948, Christmas copper deposit, Gila County, Arizona: U.S. Bureau of Mines Report of Investigations RI 4293, 58 p.

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

Date Oct. 1, 1952.

1. Mine: King in Exile Mine
2. Location: Sec. 30 Twp. 18 S Range 16 E Nearest Town Helvetia
Distance 2 1/2 mi. Direction S E Road Condition Good
3. Mining District & County: Helvetia Mining Dist. Pima County.
4. Former Name of Mine: None.
5. Owner: Lewisohn Estate
Address: _____
6. Operator: Richard E. Chilson,
Address: Box 2729, Tucson, Arizona.
7. Principal Minerals: Copper minerals, mostly sulphides.
8. Number of Claims: 33 Lode yes Placer _____
Patented Patented Unpatented _____
9. Type of Surrounding Terrain: Mountainous

10. Geology & Mineralization: The ore occurs as replacements in limestone near the
contact of the limestone and a quartz-monzonite sill. The ore horizon is from
2 to 12 ft. wide, and dips from 20 to 50 degrees, with an average dip of about 30
degrees. Ore is principally chalcopyrite.
Ore may average about 6 to 7 % in Copper.
11. Dimension & Value of Ore Body: Ore body has been proved up for about 1400 ft. in
length. Mining activity has been carried out to a depth of 500 ft. on the incline.
The width of the ore horizon is from 2 to 12 ft. --- an average of about 6 ft.

12. Ore "Blocked Out" or "In Sight":..... Approximately 50,000 tons.....

Ore Probable:..... Approximately 200,000 tons.....

13. Mine Workings—Amount and Condition:.....

No.	Feet	Condition
Shafts..... 5	1,000	Poor
Raizes.....		
Tunnels..... 1	1,200	Good
Winzes..... 4	918	Good --- Incline about 30 deg. up to tunnel.
Crosscuts		
Stopes.....		A large number of stopes --- old and new.

14. Water Supply:.....

15. Brief History:.....

Present Operations --- Operator is now working 13 men on 2 shifts --- 8 men on day shift, and 5 men on night shift, and 7 days per week. He ships about 3 carloads of ore per week, shipping to the A. S. & R. smelter at El Paso, Texas. A small quantity of low grade ore, which has been sorted out from the A. S. & R. product, and which is high in silica, is shipped to the Hayden smelter. The ore shipped to El Paso will probably run better than 8 %, while the ore sent to Hayden may run about 4 %. Ore is sorted or handpicked at the surface ore bin.

Operators are now sinking another winze below the main tunnel level, at an incline of 30 degrees. They expect to sink it to a depth of 500 ft.

16. Signature:.....

Art L Johnson, Engineer

17. If Property for Sale, List Approximate Price and Terms:..... To my knowledge, this property is not for sale.....

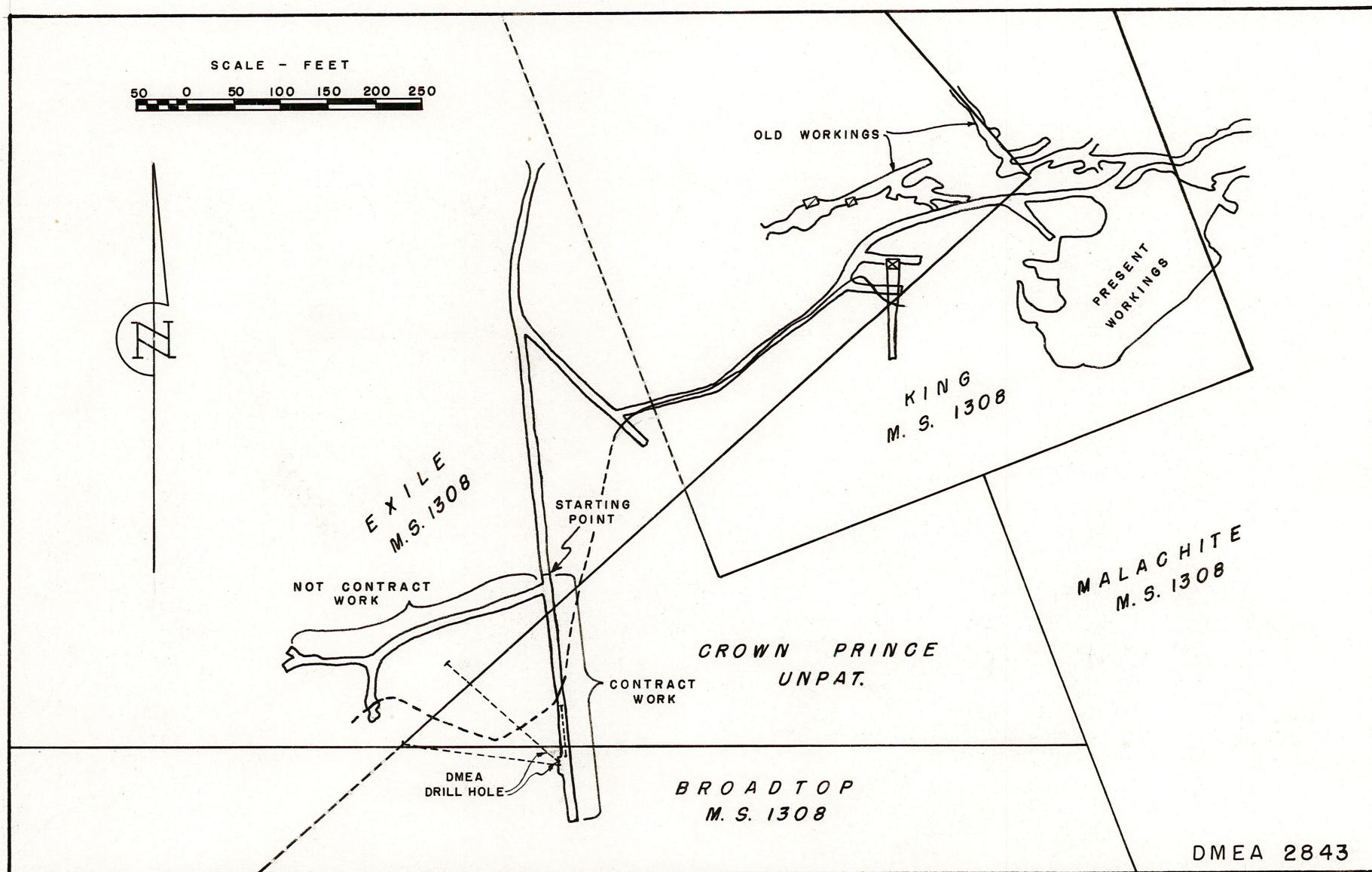
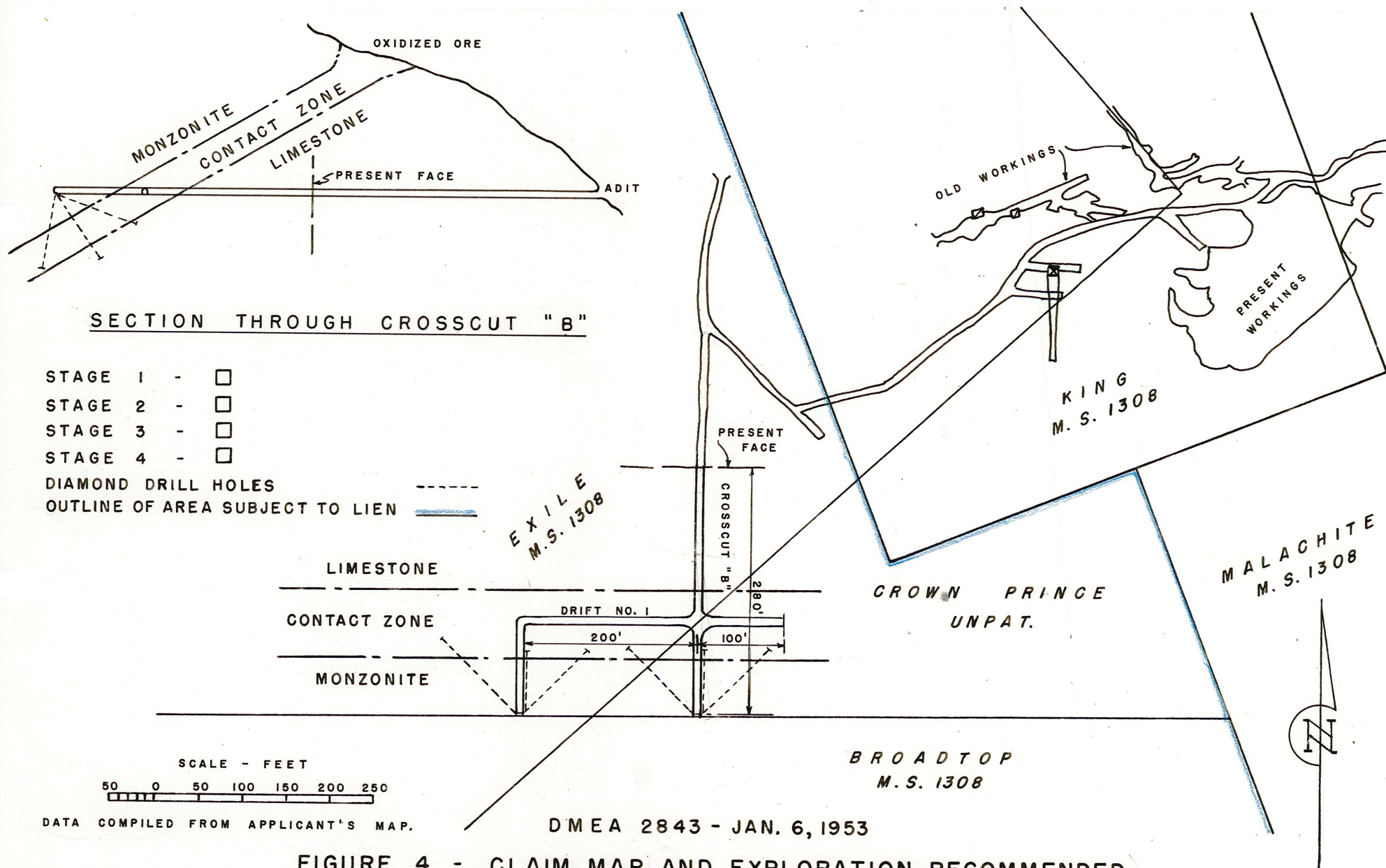
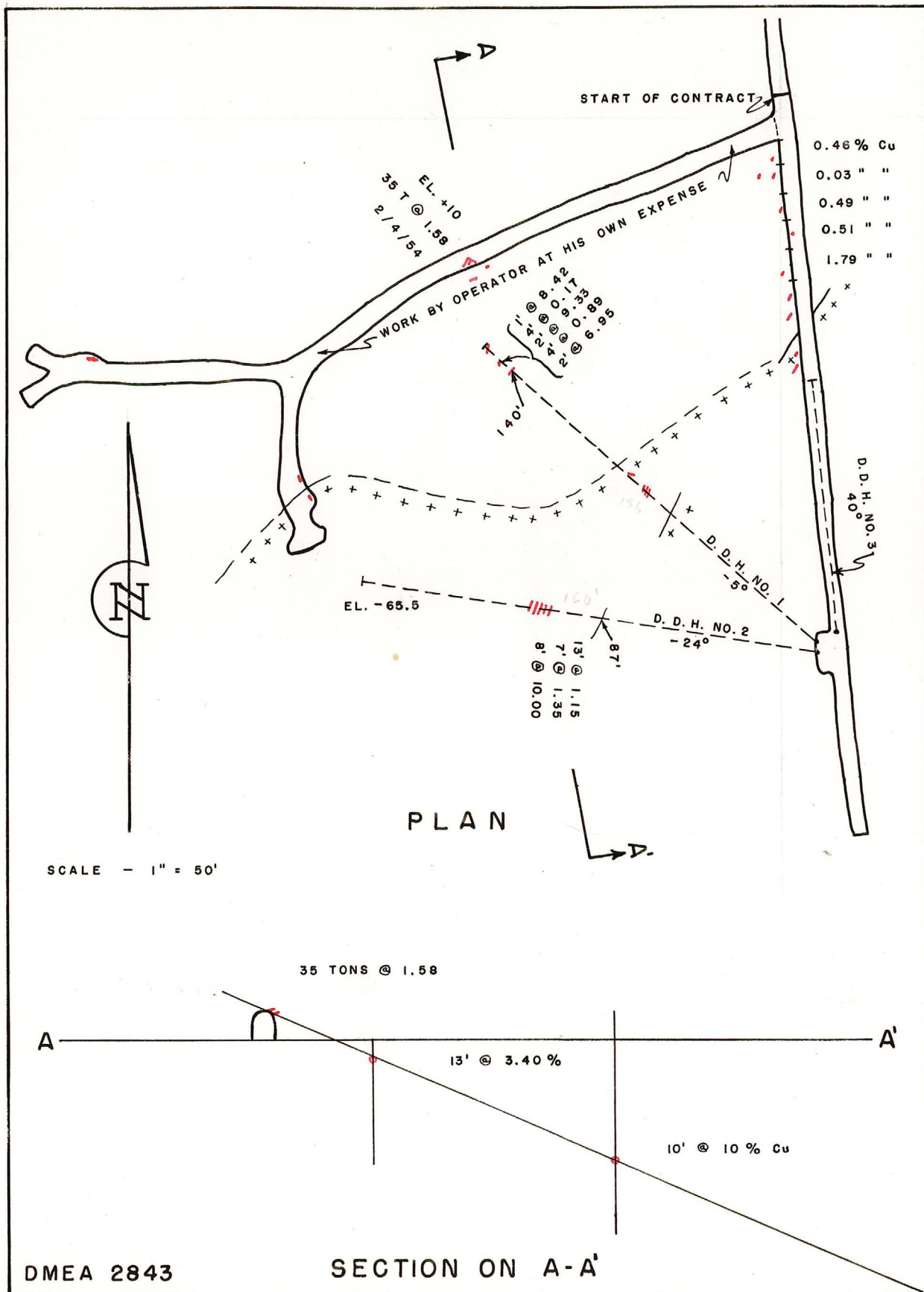


FIGURE 2A — CLAIM AND MINE MAP — KING-IN-EXILE MINE
 HELVETIA MINING DISTRICT PIMA COUNTY, ARIZONA





KING - IN - EXILE MINE

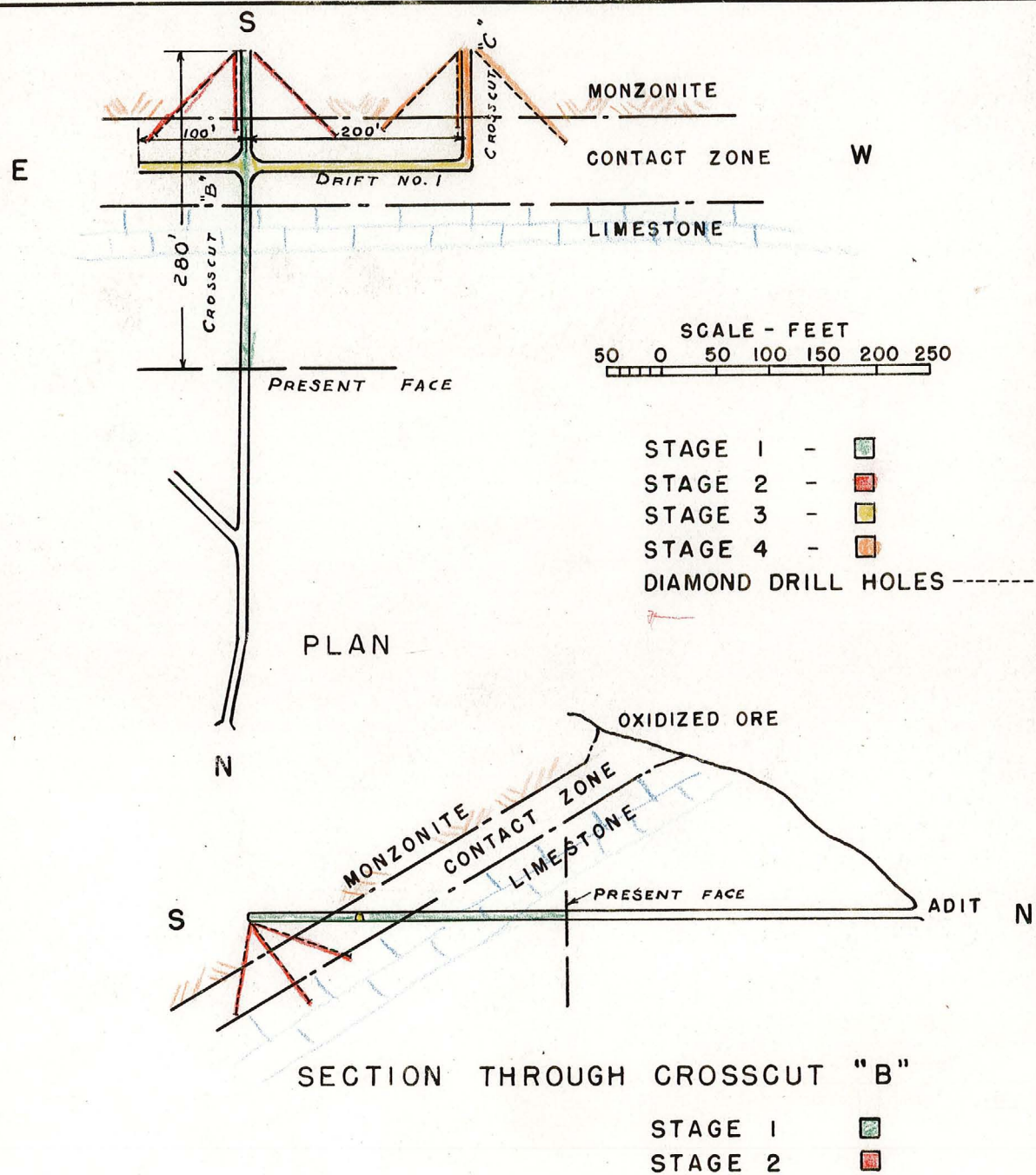


FIGURE 3. - PLAN AND SECTION OF PROPOSED EXPLORATION
 KING-IN-EXILE MINE
 HELVETIA MINING DISTRICT
 PIMA COUNTY, ARIZONA

FIGURE 2. - CLAIM AND MINE MAP KING-IN-EXILE WORKINGS

HELVETIA MINING DISTRICT - PIMA COUNTY, ARIZ.

DMEA 2843

JAN. 6, 1953

PRESENT OPERATION



APPLICANT'S PROPOSAL:

DRIFTING & CROSSCUTTING
DIAMOND DRILL HOLES



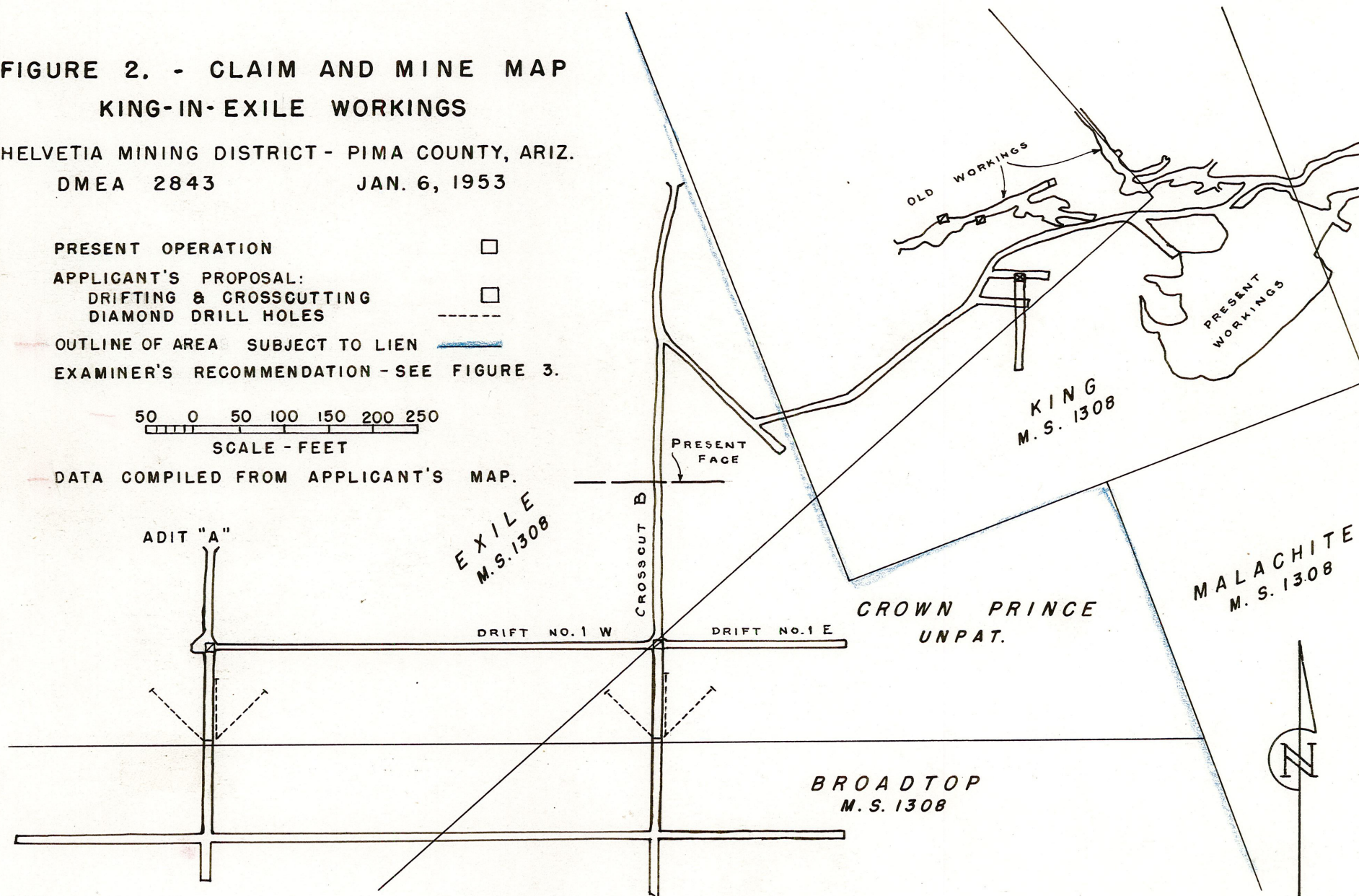
OUTLINE OF AREA SUBJECT TO LIEN



EXAMINER'S RECOMMENDATION - SEE FIGURE 3.

50 0 50 100 150 200 250
SCALE - FEET

DATA COMPILED FROM APPLICANT'S MAP.



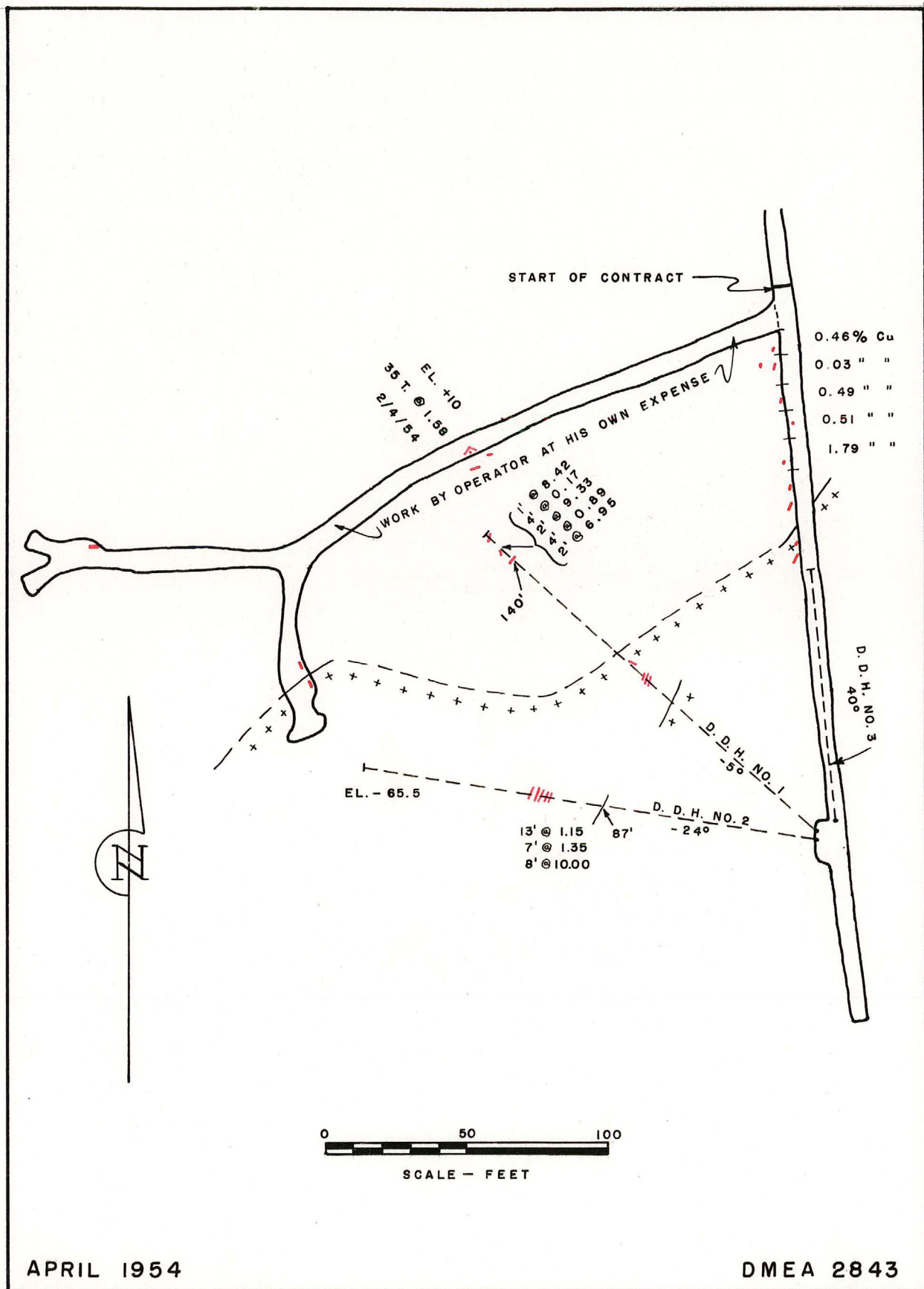
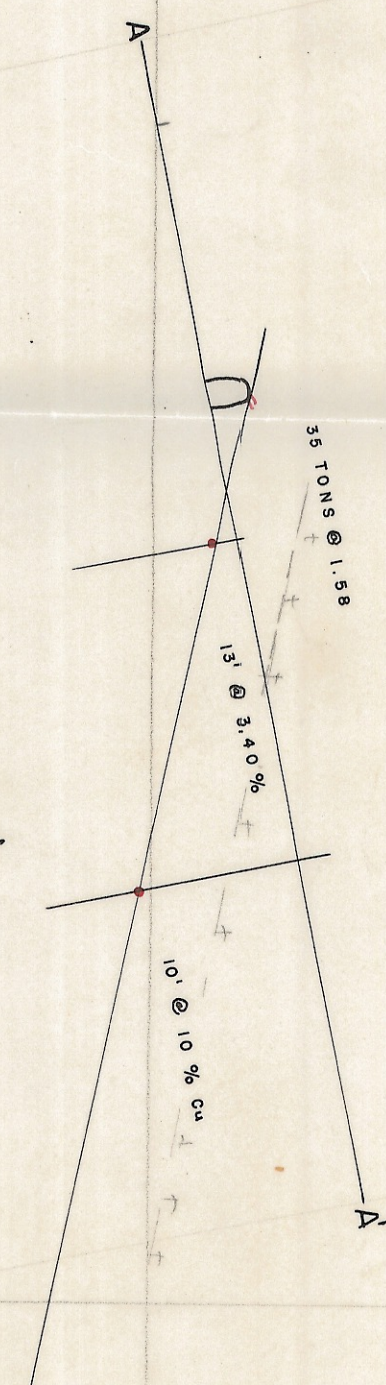


FIGURE 3. - CONTRACT WORK - KING-IN-EXILE MINE
HELVETIA MINING DISTRICT PIMA COUNTY, ARIZONA



SCALE 1" = 50'

SECTION ON A-A'



DMEA 2843

KING - IN - EXILE MINE