UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

310

REGIONAL DIRECTOR'S OFFICE REGION IV
SEP 21 1951
BUREAU OF MINES
DENVER, COLO.

SEP 14 1951

Memorandum

To: Administrative Management Division

From: Director, Supply Division

Subject: Application for exploration aid of Mr. Henry H. Bruderlin, 257 South Beloit Street, Los Angeles 49, California; Docket DMA-943X; Commodity - Copper

Denial of this application is recommended by Field Team, Region IV for the following reasons:

1. Mineralization is not persistent nor strong.

2. The copper is in the form of carbonates and silicates and below commerical grade.

3. Geological evidence is such that if a body of ore might be found it would be only at great cost.

4. Mining, hauling and treatment of ore would not be economically feasible.

5. Applicant did not outline his proposed exploration nor did he have a project when interviewed by the examining engineer.

6. Applicant has no experience and it is doubtful that he could conduct a true exploration program.

A letter has been prepared notifying the applicant of this denial.

Transmitted herewith for your disposal is the entire file consisting of the following:

1 MSM-146
3 Forms 103 with answer sheets of three pages each
2 DMA Review for Exploration Assistance
1 Form letter from Tom Lyon to Mr. J. H. East, July 11, 1951
1 Geologic map of Whetrock Basin properties
1 Location and Assay map Whetrock Basin Group
1 Field Team Report of Whetrock & Elephant Butte copper

5 Carbon letters to Mr. H. H. Bruderlin from
L. F. Strobel April 9, 1951
J. B. Gowen April 23, 1951 with carbon letter attached from J. H. Hunt to J. Boyd, April 2, 1951
J. B. Gowen June 6, 1951 with carbon letter attached from Bruderlin to Defense Minerals Administration May 20, 1951
L. F. Strobel June 21, 1951
Tom Lyon July 9, 1951 (3 copies)
2 Original letters from H. H. Bruderlin to Defense Minerals Administration
June 9, 1951
June 10, 1951
1 DMA Status Change Notice

Tom Lyon

Tom Lyon, Director
Supply Division

Attachment

RVWaugh:rw
9-12-51

Copy to: Administrator's Reading File
Executive Officer, DMA Field Team IV
J. B. Gowen
C. H. Johnson
D. Maclaren
Files - DMA Docket

224 New Customhouse
Denver 2, Colorado

September 6, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: Application for Serialization, Form MF-100

Enclosed herewith is application for Serialization, Form-MF-100, for the following:

Henry H. Brubaklin
2900 Hatton Drive
Beverly Hills, California

You will note that the application is for serialization for Mr. Brubaklin's Westrock and Elephant Rights groups of copper-tungsten claims near Superior, Pinal County, Arizona, DMA Region 94XX.

R. T. Allmann, for
J. H. Hart, Jr.

Enclosures

FFAlA

cc: Storum
Kosciusko
DMA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Arizona-New Mexico Branch
[redacted]
Box 4097
UNIVERSITY STATION

v MINING DIVISION
REGION IV

Mining Division
Date Rec'd.
SEP 6 1951
BUREAU OF MINES
Denver, Colorado

TUCSON, ARIZONA

September 4, 1951

Memorandum

To : Paul T. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : Application for Serial Number, Henry H. Bruderlin's DMA Docket 943X

Enclosed are original and 3 copies of Form MF-100 from Mr. Henry H. Bruderlin, 2920 Hutton Drive, Beverly Hills, Calif., for a serial number for his Whetrock and Elephant Butte groups of copper-tungsten claims near Superior, Pinal County, Ariz. (DMA Docket 943X).

A report by Grant R. Rubly was submitted on these properties on August 16.

Will you please forward these Forms MF-100 to Washington?

Walter R. Storms

Walter R. Storms

CC P. T. Allsman
DMA-943X
DF

FOR VICTORY
BUY UNITED STATES SAVINGS BONDS AND STAMPS

Mining Division
Region IV

August 21, 1951

Memorandum

To: W. R. Storms

From: Chief, Mining Division, Region IV

Subject: Docket DMA-943-X, Henry J. Bruderlin, Whetrock and Elephant Butte Groups, Copper and Tungsten Project, Pinal County, Arizona.

On pages 5 and 6 of the report on the subject brochure the results of numerous samples are given, but their origin is not stated.

Please advise as to this, and if they were taken by the examining engineer, a list should be submitted to add to the report.

The report is being held here until we have your reply.

Paul T. Allamma

WDM:oj
cc: DMA Files
Subject
Chron.

Mining Division
Date Rec'd.

SEP 6 1951

BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

September 4, 1951

Mr. Henry H. Bruderlin
2920 Hutton Drive
Beverly Hills, Calif.

My dear Mr. Bruderlin:

Thanks very much for your letter of August 31, with a statement of the work that you propose to do and a cost estimate for exploration on your Elephant Butte claims (DMA Docket 943X) in Pinal County, Ariz. Mr. Grant R. Rubly's report on your property has been mailed to our Denver office.

We are forwarding your Form MF-100, application for a serial number, to Washington via our Denver office.

Sincerely yours,

Walter R. Storms, Chief
Arizona-New Mexico Branch

CC P. T. Allsman
DMA-943X
DF

WRStorms;frj

Mining Division
Date Rec'd.

SEP 6 1951

BUREAU OF MINES
Denver, Colorado

v MINING DIVISION
REGION IV

September 4, 1951

Memorandum

To : Paul T. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : Application for Serial Number, Henry H. Bruderlin's DMA Docket 943X

Enclosed are original and 3 copies of Form MF-100 from Mr. Henry H. Bruderlin, 2920 Hutton Drive, Beverly Hills, Calif., for a serial number for his Whetrock and Elephant Butte groups of copper-tungsten claims near Superior, Pinal County, Ariz. (DMA Docket 943X).

A report by Grant R. Rubly was submitted on these properties on August 16.

Will you please forward these Forms MF-100 to Washington?

Walter R. Storms

CC P. T. Allsman
DMA-943X
DF

WRStorms:frj

August 31, 1951

[redacted]

[redacted]

To: [redacted]

From: [redacted] Field Team, Region XV

Subject: Final Report, GMA Project [redacted], Henry J. Brownfield, Shotrock and Ballast Table Upper-Langston Prospects, Pinal County, Arizona

Enclosed herewith is original and two copies of the report as indicated above.

In accord with the conclusions and recommendations of the attending team.

J. H. Ea[illegible]
J. H. Ea[illegible], Jr.

R. H. Hochmann
R. H. Hochmann

oj

[redacted]

cc: DMA Subject and Chron.

Mining Division
Region IV

August 29, 1951

Memorandum

To: BLM Field Term, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, BLM Docket [illegible], Henry J. Rendelide, Vhatcrub and Elephant Butte Copper-Tungsten Prospects, Pinal County, Arizona

The application accompanying the subject docket was for an exploration loan of $[illegible] on a 30-20 basis for the exploration of copper, wolframite and scheelite.

The applicant did not outline his proposed exploration and when interviewed by the consulting engineer he still did not have a definite program.

Mineralization for product is narrow veins, but at no place have the veins been sufficiently exposed to provide a basis for intersting any ton. No samples were taken by the consulting engineer. The six samples mentioned on page one being taken by Lyon Harvey, Consulting Geologist, and the balance by Mr. Rendelide.

The consulting engineer recommends denial of the application, with which we concur.

W. H. King, for
F. T. Allison

Jd

cc: BLM

Lab

Mining Division
Date Rec'd.
AUG 27 1951
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
MINING DIVISION
REGION IV

Arizona-New Mexico Branch
[redacted]
Box 4097
UNIVERSITY STATION
TUCSON, ARIZONA

August 24, 1951

Memorandum

To : Paul T. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : DMA Docket 943X.

In answer to your memorandum of August 21, asking about samples on pages 5 and 6 of the report by Rubly on DMA 943X, Rubly states:

> On page 6, 2nd line, "Another group of 6 samples cut at intervals, etc." These 6 samples were taken by Lynn Hersey, Consulting geologist. The remaining samples were cut by Bruderlin and assayed in Los Angeles. The examining engineer of the Bureau of Mines cut no samples.

After examining the property, Rubly accepted the samples as cut by Hersey and Bruderlin, so didn't take any himself.

Walter R. Storms

Walter R. Storms

CC P. T. Allsman
DMA-943X
DF

FOR VICTORY
BUY UNITED STATES SAVINGS BONDS AND STAMPS

MINING DIVISION
REGION IV

August 24, 1951

Memorandum

To : Paul T. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : BMA Docket 943X.

In answer to your memorandum of August 21, asking about samples on pages 5 and 6 of the report by Rubly on BMA 943X, Rubly states:

> On page 6, 2nd line, "Another group of 6 samples cut at intervals, etc." These 6 samples were taken by Lynn Hersey, Consulting geologist. The remaining samples were cut by Bruderlin and assayed in Los Angeles. The examining engineer of the Bureau of Mines cut no samples.

After examining the property, Rubly accepted the samples as cut by Hersey and Bruderlin, so didn't take any himself.

Walter R. Storms

CC P. T. Allsman
BMA-943X
BF

WRStorms:als

April 2, 1951

Dr. James Boyd
Administrator
Defense Minerals Administration
Interior Building
Washington 25, D. C.

Dear Doctor Boyd:

We are enclosing three copies of form MERB 146 received from Henry H. Bruderlin, 257 South Beloit Street, Los Angeles 49, California.

This is the twenty-first package of reports forwarded to Washington from Region IV.

Sincerely yours,

J. H. East, Jr.
Regional Director

Enclosure
JHe/el
cc-DMA files

April 2, 1951

Mr. Henry H. Bruderlin
257 South Beloit Avenue
Los Angeles 49, California

Dear Mr. Bruderlin:

This will acknowledge receipt of your letter of March 27 with four copies of NSRB 146 attached. We are forwarding this application to Washington today.

We regret that we cannot advise you when action will be taken by the Washington office, but it is my understanding that applicafions for Government aid are given prompt attention.

Sincerely yours,

J. H. East, Jr.

J. H. East, Jr.
Regional Director

JHE/cl
cc-DMA files

257 South Beloit Avenue,
Los Angeles 49, California
March 27, 1951

REGIONAL DIRECTOR'S OFFICE
REGION IV
APR 2 - 1951
BUREAU OF MINES
DENVER, COLORADO

Regional Director, Bureau of Mines,
Region IV,
224 New Customhouse,
Denver 2, Colorado

Gentlemen:

I am submitting herewith four copies of Form NSRB-146, application for government loan.

Development work has already begun on the property but is proceeding very slowly because of capital limitations. Attempts to obtain private or bank capital have been to no avail since there have never been any paying mines in the immediate area.

Please advise if additional information is required and when we may expect some action to be taken on our request.

Very truly yours,

Henry H. Bruderlin

Henry H. Bruderlin

HHB /hs

D S M A

JME

Form NSRB-146
(Nov. 1950)

UNITED STATES GOVERNMENT

APPLICATION FOR GOVERNMENT LOAN UNDER SEC. 302 OF DEFENSE PRODUCTION ACT OF 1950

FORM APPROVED
BUDGET BUREAU NO. 25-R002

AMOUNT OF LOAN REQUESTED

TERMS OF LOAN REQUESTED

DATE OF APPLICATION

NAME AND ADDRESS OF APPLICANT *(Street, City, Zone, State)*

Henry H. Bruderlin,
257 South Beloit Avenue,
Los Angeles 49, California

TO BE FILLED IN BY DELEGATE AGENCY

(DATE RECEIVED)

COMM.

AGRIC.

INT.

D.T.A.

FILE NO.

INSTRUCTIONS

Application should be filed with the Department of Commerce, Department of Agriculture, Department of Interior, or the Defense Transport Administration, whichever has the primary interest in the facilities, products, or processes involved. However, for convenience of the applicant, he may file with any government agency with which he has contract or other pertinent relationships and such agency will arrange for the transmittal of the application to the appropriate office.

Submit four (4) signed copies of the application. Name and address of applicant should be stamped or typed for identification of each sheet of the application and all accompanying papers. When a question is inapplicable, this should be so stated on the form. Additional sheets may be attached in answering any questions or in providing other supporting information.

1. PURPOSE OF LOAN

Give a brief general statement of the purpose of the loan requested, including in the table below estimated amounts for such major purposes as land acquisition, building construction, purchase of plant, purchase of equipment, working capital, repayment of debt, etc. Statement should make clear whether funds will be used for expansion of capacity, development of technological processes, or production of essential materials.

General Statement

Requested funds are to be used for providing facilities for extracting essential minerals, namely copper and tungsten, from two separate deposits which are as yet undeveloped. An undeveloped deposit of chromite is also immediately adjacent to the one location.

NATURE OF EXPENDITURE	AMOUNT
Purchase of Equipment	30,000.00
Working Capital	30,000.00
Total amount applied for	60,000.00

2. PROPOSED METHOD FOR REPAYMENT OF LOAN

State sources of funds, and proposed schedule of repayment

Loan repayment is proposed from mill returns at a rate of 5% of such net returns.

3. NATURE OF BUSINESS AND DESCRIPTION OF PROJECT

Describe fully the business activity for which the funds are intended. In so doing, identify the materials and services to be produced, describe the facilities and processes involved, and explain in detail any research activity and the nature of the results expected. Attach blueprints and specifications, if available, and furnish other technical details to the extent that they are not covered elsewhere in the application.

It is proposed to purchase the necessary equipment to build a road, furnish a small concentrating mill, and actively mine the heretofore undeveloped deposit of copper and tungsten on three claims known as Elephant Butte #1, #2, and #3, Pinal County, Arizona, and to actively mine copper deposits on claims known as Whetrock #1 through #18 inclusively. Both these properties give evidence of being commercially workable.

4. **Relationship to National Defense.** Explain carefully how the expenditure of the funds will contribute to national defense. As a part of such explanation, the following questions should be answered to the extent possible:

(a) What evidence exists as to current shortages of the materials or services to be produced?

Bureau of Mines Bulletin listing critical minerals.

(b) What evidence exists as to future shortages of the materials or services to be produced?

None

(c) Are such shortages, if any, regional or national in scope?

National

(d) In what respects will the use of the funds aid directly in expediting the carrying out of government defense contracts? (A listing of defense contracts, if any, held by applicant is required in item 8 below.)

No known contracts involved.

4. Relationship to National Defense - Continued

(e) In what respects will the use of the funds aid indirectly in expediting the carrying out of government defense contracts or related operations?

The funds will aid in making available critical minerals.

(f) Are there available alternative methods or facilities to accomplish the same purpose as that for which these funds are intended? (For instance, unused capacity, possibility of multiple shift operations, idle facilities, readily convertible equipment, sub-contracting?) If answer is yes, explain why alternatives are not used.

No.

5. Maximum Designed Production

List separately materials or services identified in item 3 (a)	Unit of measure (b)	Maximum designed production with existing facilities (c)	Average percentage of maximum designed production used in quarter preceding filing of application (d)	Maximum designed production including use of funds applied for (e)
Copper	5% ore	none	none	15 tons/day
Tungsten	7% ore	none	none	2 tons/day

6. Employment

(a) Number currently employed at location(s) where funds are to be used. (Use pay period ending nearest 15th of month preceding filing of application.)

one

(b) Maximum feasible employment with existing facilities.

(1) Single shift operation.

one

(2) Multiple shift operation (specify how many shifts).

(c) Estimated additional employees required by the use of the funds applied for.

four

7. Timing

(a) On what date(s) are the requested funds needed?

As soon as practicable.

(b) On what expected date(s) will applicant begin to use such funds and obtain output from the use of such funds? Wherever possible, give planned schedule of output.

Funds will be put to use immediately. Ore shipments will begin approximately two weeks after funds are available.

8. Output from the use of funds applied for will be for the following purposes:

a. For the following principal prime defense contracts (if any) with the United States Government:

Date of contract (a)	Contracting Government Agency (b)	Program symbol (2 digits) or other contract identification (c)	Materials or services (d)	Delivery date(s) (e)	Amount *(Dollars)* (f)

b. For the following subcontracts (if any) with U.S. Government prime defense contractors:

Date of contract (a)	Materials or services (b)	Supplied to *(Give name and address of firm)* (c)	Delivery date(s) (d)	(e) Government agency receiving end product or services (f) Program symbol (2 digits) or other contract identification	Amount *(Dollars)* (g)
				(e) (f)	
				(e) (f)	
				(e) (f)	

c. For the following classes or types of customers not covered by contracts listed above (list materials or services to be provided and, wherever possible, also indicate final product use):

Copper ore will be sold to Magma Copper Co., Superior, Arizona or to Miami Copper Co., Miami, Arizona.

Tungsten will be concentrated in a small mill to be purchased with requested funds, and the concentrate shipped to New York Markets.

9. **Feasibility**

(a) Estimate anticipated requirements for manpower, equipment, raw materials, energy, fuel, transportation facilities, water supply, housing, community facilities, and other factors of production, for (1) preparation of the facilities and (2) actual operation thereof. (The estimates may be limited to those factors of substantial significance to the preparation and operation of the facilities for which the funds are intended.)

With the quantity of ore apparently immediately available, the following requirements are indicated:

Six men will be required. (Two locations)
Temporary housing (tents) must be provided.
Water is available at proposed campsites but additional wells should be dug.
One 2½ ton truck for hauling ore, equipment and supplies.
Two air compressors, four jack hammers, hose, drills, etc.
Caterpiller D-6 with angle dozer and dual power take-off.
Crusher, ball mill, and concentration table.
Powder, fuses, caps, two tons.

(b) Discuss and evaluate the availability of each of the above factors in the area(s) where the funds will be used.

All items identified are available in this area.

10. The following applications for necessity certificates for tax amortization (Under Section 124A of the Internal Revenue Code) for facilities at the location(s) covered by this application have been filed since January 1, 1950.

Date of application (a)	Government file number (b)	(Estimated) Total of facilities in dollars on each application (c)	(d) If final action has been taken, give date of	
			Issuance	Denial
NONE				

11. **Recent Efforts to Obtain Credit**

(a) Banks— List names and addresses of all Banks of Deposit of Applicant within the last 5 years: *(Mark with an asterisk (*) bank or banks in which deposits are now kept)*

Bank of America, Santa Monica Branch.
* Bank of America, Westwood Village Branch.
* Bank of America, Wilshire-Euclid Branch.

11. **Recent Efforts to Obtain Credit** - Continued

(b) State efforts to obtain credit, within 60 days preceding date of application, from banks, the Reconstruction Finance Corporation, or other sources, results, and reasons if refused. (NOTE.- Section 302 of the Defense Production Act of 1950 states that a loan may be extended "only to the extent that it is not otherwise available on reasonable terms." Accordingly, Applicant should show that it has applied to each bank named in (a) above, or explain the reason for not doing so. The fact that a loan of the particular maturity and terms applied for is refused by a bank or banks is not sufficient to comply with the statute, if credit on reasonable terms is available. State whether a bank will participate in the loan, and if so, state name of bank and amount of participation. Full particulars must be given.) List the names and addresses of banks and other lending institutions to which applications for credit have been made, and in each case state date of application, amount of credit available, if any, maximum term for which credit is available, what consideration, if any, was given to possible guarantee of loan under Federal Reserve Regulation V, and reason for refusal or reason loan was not obtained. Indicate whether or not application was definitely refused for further credit on any basis.

I have requested and been refused a loan from all three of the banks identified above, for mining purposes, although my personal credit is good at each.

12. What other forms of government financial assistance, if any, have been received or requested by the applicant in connection with the purposes of the loan herein applied for? If applicant plans to request such assistance in the future, give details.

None.

13. **HISTORY, MANAGEMENT, LEASED AGREEMENTS, INSURANCE, ETC.**

These subjects should be fully covered in statements attached hereto. Outline past management experience or other basis for showing competence of the Applicant to perform in accordance with expressed purpose of the application. If plant was purchased, state price, form and terms of payment, date of purchase, from whom and under what circumstances purchase was made. If it is proposed to construct or acquire new facilities (including equipment), state estimated cost and basis of such estimate, form and terms of payment, and from whom purchases of facilities will be made. State whether Applicant, or the business or plant, has been in receivership, bankruptcy, Chapter X, XI or XII, in hands of creditors, committee, or whether Applicant has effected a compromise with creditors, and if so, discuss fully. Indicate whether business is conducted in leased premises and whether any facilities are leased from others and describe terms of any lease agreements. List type and amount of insurance carried on plant property. Describe briefly any pending or threatened litigation affecting Applicant.

14. NAMES AND ADDRESSES OF OFFICERS, DIRECTORS, OR PARTNERS, AND IN ADDITION THERETO, THE FIVE LARGEST STOCKHOLDERS IF A CORPORATION.

NAME AND ADDRESS (a)	Official title (If officer is also director indicate by "D") (b)	Total of annual salary, commissions, bonuses, etc., received from Applicant and affiliates during last fiscal year (c)	Estimated net worth outside of Applicant (d)	Number of shares held in applicant: Common (e)	Number of shares held in applicant: Preferred (f)	Life insurance carried for benefit of Applicant: Amount (g)	Life insurance carried for benefit of Applicant: Net cash surrender value after loans (h)
NONE							
	Total		X X X X X			X X X	X X X

15. CAPITAL STOCK ISSUES

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par value (c)	Number of shares outstanding (d)	Dividend rate last paid (e)
Common stock	$	$	$		
Preferred stock	$NONE	$	$		

16. PURCHASE AND SALES RELATIONS WITH OTHERS

Does Applicant buy from, sell to, or use the services of, any concern or partnership in which an officer, director, large stockholder, or partner of the Applicant has a substantial interest? If not, so state. If so, give names of such officers, directors, stockholders, and partners, and names of such concerns or partnerships.

No.

Does any officer, director, large stockholder, or partner of Applicant receive any commission, bonus, or other payment in cash or services from any concern or partnership with which Applicant has business dealings? If not, so state. If so, give names of such officers, directors, stockholders, or partners and amounts of such commissions, bonuses, or payments.

No.

17. COMPENSATION SCHEDULE

INSTRUCTIONS: The schedule shall show the amount of compensation being paid to all employees of Applicant receiving compensation at a rate in excess of $10,000 per annum, including employees paid on a part-time basis where the rate of compensation exceeds $10,000 per annum computed on a full-time basis. If Applicant is a corporation, the schedule should show the compensation, regardless of amount, being paid to all officers, directors, and such stockholders as have an interest in Applicant's business of 10 percent or more. If Applicant is a partnership, the schedule should show the compensation being paid to, or being withdrawn by, all partners for their personal use. If Applicant is an individual, the schedule should show the amount being withdrawn by Applicant for his personal use. In each case the listed person's connection with the business should be indicated (i.e., whether an officer, director, stockholder, partner, owner, etc.). The calendar basis for the compensation should likewise be shown. Attorneys or firms of attorneys on a regular retainer or salary basis should be included. The schedule should include a separate notation indicating the source and amount of any compensation being paid by a company or firm directly or indirectly controlling, affiliated with, or controlled by, Applicant. If the space provided herein is insufficient, the schedule should be continued on the reverse side or appropriate continuation sheets should be attached.

17. COMPENSATION SCHEDULE - Continued

The term "compensation", as used herein and such schedule, shall include all salaries, fees, bonuses, commissions, retainers, regular drawing accounts, and other payments, direct or indirect, in money or otherwise, for personal services.

Name (a)	Position (b)	Compensation paid during previous fiscal year (c)	Present compensation (d)
None in excess of $10,000./yr.			

18. COLLATERAL

(a) The applicant offers the following described collateral as security for repayment of the loan applied for.

Description (a)	Date acquired (b)	Cost (c)	Book Value (Net) (d)	Appraised* value (e)
Property now held:				
Lease on Whetrock Claims	Nov. 1950	$8000. plus 10% net mill returns.	-	-
Lease on Elephant Butte Claims.	Feb. 1951	10% net mill returns.	-	-
To be acquired:				

* This column need be filled in only if a recent appraisal has been made. If so, identify appraiser below.

Name (a)	Title (b)	Date (c)

(b) Describe existing liens, if any, on property listed above.

none.

EXHIBIT A - CURRENT FINANCIAL STATEMENT

As of _____

(Date not more than 30 days prior to date of application)

ASSETS

CURRENT ASSETS			
1. Cash			$ 4,000.00
2. Notes receivable		$ 1,500.00	
Less reserve for doubtful notes			
3. Accounts receivable:			
Current	$		
Past due not over 4 months			
Past due over 4 months		$	
Less reserve for doubtful accounts			1,500.00
4. Inventories:			
Raw materials	$		
Work in process			
Finished goods		$	
Less reserve for inventory losses			
5. Other current assets (describe)			
TOTAL CURRENT ASSETS			$ 5,500.00
FIXED AND OTHER ASSETS			
6. Plant used in business:			
Land	$		
Buildings			
7. Machinery			
8. Equipment, furniture, and fixtures		$	
Less reserve for depreciation			
9. Investments—stocks and bonds			
10. Investments in affiliated companies			
11. Receivables due from affiliated companies			
12. Real estate not used in business			81,400.00
13. Due from officers, directors, employees, stockholders			
14. Deferred charges			
15. Other assets			6,000.00
TOTAL ASSETS			$92,900.00

LIABILITIES

CURRENT LIABILITIES			
16. Notes payable (see schedule 1, page 10):			
Banks		$ 3,400.00	
Trade creditors			
Officers, stockholders, relatives			
Insurance companies			$ 3,400.00
17. Accounts payable			
18. Other current liabilities:			
Delinquent taxes	Real estate	$	
	Federal		
Wages and salaries			
Due officers			
Accrued interest, rent, taxes, wages, etc.			
			3,400.00
TOTAL CURRENT LIABILITIES			$
FIXED AND OTHER LIABILITIES			
19. Machinery liens			
20. Mortgage debts (see schedule 2, page 10)			29,000.00
21. Bonds or debentures (see schedule 2, page 10)			
22. Other liabilities			
NET WORTH			
23. Common stock (if Applicant is incorporated)		$	
24. Preferred stock (if Applicant is incorporated)			
25. Surplus (if Applicant is incorporated)			
26. Capital and Surplus Account (if Applicant is partnership or individual)			
TOTAL LIABILITIES			$32,400.00
27. Contingent liabilities (explain)			$

NOTE.— Submit copy of last available audit or of financial statement at close of last fiscal period (if such date differs from date of above statement).

SCHEDULE I - Notes Payable (in detail)

Name and address	Maturity	Amount	State amount and character of collateral	Name of guarantor(s) and/or endorser(s)
Bank of America Wilshire-Euclid Branch	June 1953	$2500.	FHA Title I.	none
Bank of America Wilshire-Euclid Branch	August 1952	$1000.	Automobile	none

SCHEDULE 2 - Mortgage Debt (real estate and/or chattels) or Bond Issue

Names and addresses of holders	Date of maturity	Interest rate	Unpaid principal amount	Date to which interest is paid
Union Federal Sav.& Loan 441 S. Spring St., L.A.	15 yr. loan	5%	$11,000.	April 1, 1951
Equitable Life Assur. Society, L. A.	20 yr. loan	4%	10,000.	" " "
Wilson A. Dobson, Mesa, Arizona	5 yr. loan	6%	3,400.	" " "
Home Sav.& Loan Co., L.A.	June 1952	6%	4,600.	" " "
TOTAL	XXXXXXX	XXXXXX	$29,000.	XXXXXXXXXXXXXXXX

If mortgage secures a bond issue, state whether bonds are principally held by management and/or stockholders or by others, and attach copy of mortgage indenture.

EXHIBIT B - CONDENSED COMPARATIVE STATEMENT OF INCOME AND EXPENSES

For years ended _____
(Insert date of end of fiscal year)
(000.00 omitted)

	(Figures for 3 preceding years) 19	19	19	Current year as of date of Exhibit A
1. Net sales				
2. Cost of goods sold				
3. Gross profit on sales (line 1 minus line 2)				
4. Other income (itemize)				
5. Total (line 3 plus line 4)				
6. Salaries (officers or partners)*				
7. Selling and all other expenses				
8. Total of lines 6 and 7				
9. Profit or loss before depreciation and Federal taxes (line 5 minus line 8)				
10. Depreciation				
11. Federal Income and Excess Profits Taxes				
12. Net profit or loss (line 9 minus lines 10 and 11)				
ANALYSIS OF SURPLUS				
13. Total surplus at beginning of period				
14. Net profit or loss for period				
15. Line 13 plus line 14 if profit; line 13 minus line 14 if loss				
Add:				
16. Surplus paid in during period				
17. Surplus resulting from revaluation of assets				
18. Other additions to surplus (itemize)				
19. Total of lines 15 to 18, inclusive				
Deduct:				
20. Dividends				
21. Other charges to surplus (itemize)				
22. Total of lines 20 and 21				
23. Surplus at end of period (line 19 less line 22), MUST AGREE WITH SURPLUS AS SHOWN IN BALANCE SHEETS				

* To include all payments of any kind (commissions, bonuses, withdrawals) to officers or partners.

NOTE—If years included in the above tables are not adequately representative of applicant's financial experience, information may be submitted for additional years.

EXHIBIT C - CONDENSED COMPARATIVE STATEMENT OF CONDITION

For years ended _____

(Insert date of end of fiscal year)

(000.00 omitted. Use figures to nearest thousand. For instance, the figure $3,489.36 should be written as 3; the figure $3,689.36 should be written as 4)

ASSETS	(Figures for 3 preceding years) 19	19	19	Current year as of date of Exhibit A
CURRENT ASSETS:				
1. Cash				
2. Receivables (after deducting reserves)				
3. Inventories				
4. Other current assets:				
TOTAL CURRENT ASSETS				
FIXED AND OTHER ASSETS:				
5. Plant accounts (before depreciation):				
Machinery, equipment, etc.				
Delivery equipment				
Real estate and buildings used in business				
6. Other assets (as investments, real estate not used in business, etc.):				
TOTAL ASSETS				
LIABILITIES				
CURRENT LIABILITIES:				
8. Notes payable				
9. Accounts payable				
10. Accrued liabilities				
11. Other current liabilities:				
TOTAL CURRENT LIABILITIES				
FIXED AND OTHER LIABILITIES:				
12. Mortgage debts				
13. Debentures				
14. Other fixed liabilities:				
RESERVES:				
15. Reserve for depreciation				
16. Other reserves:				
NET WORTH:				
17. Common stock (issued) (if Applicant is incorporated)				
18. Preferred stock (issued) (if Applicant is incorporated)				
19. Surplus (if Applicant is incorporated)				
20. Capital and surplus account (if Applicant is partnership or individual)				
TOTAL LIABILITIES				

NOTE— If years included in the above table are not adequately representative of applicant's financial experience, condition statements may be submitted for additional years.

EXHIBIT D

AGREEMENT AS TO COMPENSATION FOR SERVICES RENDERED OR TO BE RENDERED TO APPLICANT IN CONNECTION WITH APPLICATION AND/OR LOAN

To induce the United States Government and its agencies to make a loan under Sec. 302 of the Defense Production Act of 1950 to _____ (hereinafter called "Applicant") and in consideration of the making of a loan to Applicant, the undersigned, having been retained by Applicant for the purpose of rendering professional or other services in connection with its application for a loan or loans, hereby represents, warrants, and agrees that the undersigned has not been paid, has not made any agreement with the Applicant to be paid, and has not procured any person to pay or agree to pay, and will not, directly or indirectly, charge or receive any bonus, fee, or commission in any form in connection with the said application for, or the obtaining of, the loan applied for by the Applicant, or any compensation in any form for services rendered or to be rendered in connection therewith except for the services and in the amounts stated below:

Name	Description of services	Amount paid	Amount to be paid
No compensation to anyone in connection of loan.		$ with procurement	$

To induce the making of the loan and the employment of the undersigned by Applicant, the undersigned hereby further warrants, covenants and agrees, upon the consideration herein specified, and in consideration of the employment of the undersigned by Applicant, as above recited, that if the amount of compensation stated above for any such services shall not be deemed reasonable by any agency of the United States Government, the undersigned will reduce the charge for such services to such amount as shall be deemed reasonable by such agency, and will not, directly or indirectly, charge or collect from the Applicant or any other person, any sum in excess of the amount so deemed reasonable; and that if the undersigned has heretofore collected, from the Applicant or any other person, as compensation for any such services, any amount deemed by such agency to be unreasonable, the undersigned will refund to Applicant or such other person such sums as are in excess of the amount deemed reasonable. The undersigned further warrants, covenants and agrees that if the amount of the compensation for any such services is not determinable at the date of application, or is not stated above, it will not collect or charge any sum as compensation for such services without the prior written approval of the Government agency with which this application is officially filed as to the nature of the services for which such compensation is to be paid and the amount of such compensation.

Witness: _____ _____

Address of witness: _____ _____

Dated _____, 19____ _____

NOTE—Corporations must execute foregoing certificate in corporate name, by duly authorized officer, and seal must be affixed and duly attested; partnerships must execute in firm name, together with signature of a general partner. If no compensation is paid or to be paid for services rendered in connection with application or loan, this should be so stated and the Applicant should sign this Exhibit.

CERTIFICATION

The Applicant hereby certifies that the statements made in the foregoing application, and all exhibits and documents submitted in connection therewith, are true and correct statements to the best of Applicant's information and belief and are submitted as a basis for credit. The Applicant agrees to reimburse any agency of the United States Government upon demand for any expenses incurred in connection with or arising out of this application or any loan made pursuant hereto.

Dated 3-27, 19 51

Witness: (For individual applicants)

Helen S. Bruderlin — Henry H Bruderlin (Signature)

Witness: (For partnership applicants)

_____ _____ (Full name of firm)

By _____, a general partner. (Signature)

(For corporate applicants)

(CORPORATE SEAL)

_____ (Full corporate name of Applicant)

Attest: By _____ (Signature) (Title)

_____, _____ (Signature) (Title)

The United States Criminal Code, 18 U.S.C., Sec. 1001, makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE: 1950 O - 916171

224 New Customhouse
Denver 2, Colorado

July 16, 1951

Memorandum

To: W. R. Storms (with brochure)

(Through Chief, Mining Division)

Charles Anderson

From: DMA Field Team, Region IV

Subject: DMA 943X, Henry J. Bruderlin, Pinal County, Arizona

We are forwarding you the brochure on the above captioned docket.

You will note that the original application was on MMMB 146 for a direct loan, and it is proposed that you change this application to an Exploration Loan if it is agreeable with the operator.

Please return the brochure after you have made the investigation.

J. H. Eccott, Jr.

A. H. Koschmann

Enclosure

cc: Allman
Koschmann
DMA Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

REGIONAL DIRECTOR'S OFFICE
REGION IV
JUN 11 1951
BUREAU OF MINES
DENVER, COLORADO

June 6, 1951

Re: Docket DMA-943

Mr. Henry H. Bruderlin
257 South Beloit Street
Los Angeles 49, California

Dear Mr. Bruderlin:

Thank you for your letter of May 20, 1951 in which you suggest doubt as to your eligibility for an exploratory project as suggested in our letter of April 23.

Lacking the additional information requested in the final paragraph of our April 23, letter, it is impossible for us to evaluate your proposal from the stand point of what tonnage of copper and tungsten is now available for the expansion program, and whether or not the tonnage so indicated is sufficient to warrant a loan of $60,000.

A course you might follow would be to apply for the exploration assistance, indicating very definitely the areas to be explored so that you could mine the other area without a loan. The only such new ore as you might discover would be tied to the exploration contract. When the newly discovered ore plus the unmined part of what you now have should indicate sufficient reserves we could take up for consideration your present proposal. In other words, if you will file an exploratory application on MF-103, and send us copies of such location maps, assay maps, geological maps if available, and any other pertinent data as may be available, showing location, tonnage and grade of ore blocks or reserves, we will then be in a position to advise you more properly just what type of assistance will most benefit the Defense Production Program, and best fits your needs.

The final date for filing new applications under the present law is May 30. However, you are protected on that score by virtue of having an application on file for a loan, and your MF-103 will be considered as a request for ammendment of application.

Only those questions circled in red on the enclosed form need be answered, as you have already supplied the other information. For your help and guidance we are enclosing a copy of press release dated May 14, 1951.

Very truly yours,

J. B. Gowen

J. B. Gowen, Acting Chief
Copper Branch, DMA

JBGowen:ba
Copy to J. H. East, W.C.I.
Executive Secretary, W.C.I.
Copper Branch, W.C.I.
Enclosure
Files

May 20, 1951
257 South Beloit Avenue
Los Angeles 49, California

United States Department of the Interior
Defense Minerals Administration
Washington 25, D. C.

Attention of Mr. J. B. Gowen, Acting
Chief, Copper Branch, DMA
Re: Docket No. DMA-943

Gentlemen:

This will acknowledge receipt of your letter of April 23rd. While it is true, as you state in your letter, that we do not have on our groups of claims developed or measured ore reserves and are unable to estimate with any satisfactory degree of accuracy the quantity of ore which may be available for shipment from these claims, it is also true that there is enough medium and high grade ore in sight to warrant immediate commencement of mining and shipping operations on both properties involved. It therefore does not appear to us that our project will comply with regulations outlined in MO-5, with specific reference to section 8A, which specified that this work shall not go beyond a reasonable delineation in sampling of the ore and shall not include work prosecuted primarily for mining or preparation for mining. It is apparent that the ore we have found on both properties as it is now exposed is of shipping quality and has already been carefully and thoroughly sampled although as previously stated with the small amount of development work which has already been done it is impossible to determine the extent of the valuable deposits.

We would appreciate your advice as to whether or not we are mistaken in our interpretation of MO-5, section 8A and whether it would be advisable for us to discontinue the present application and reapply under the mineral exploration program.

Please advise also the latest date upon which application for Government aid in defense exploration projects may be filed according to present regulations.

Very truly yours,

Henry H. Bruderlin

COPY

REGIONAL DIRECTOR'S
OFFICE
REGION IV
APR 26 1951
BUREAU OF MINES
DENVER, COLORADO

April 23, 1951

Re: Docket No. DMA-943

Mr. Henry W. Bruderlin
957 South Beloit Street
Los Angeles, California

Dear Mr. Bruderlin:

Your application for a loan to provide equipment and working capital for the extraction of copper and tungsten from two separate deposits on the Elephant Butte and Whetrock groups of claims in Pinal County, Arizona, has been referred to the Copper Branch for consideration.

From a study of the application, it appears that the project is one of exploration of undeveloped deposits rather than for the expansion of production from developed or measured ore reserves.

A program of aid for mineral exploration on a matching fund basis has just been put into effect and is described in the enclosed copies of a press release dated April 11, 1951 and Form MO-5 (Regulations). We are also enclosing two sets each of Forms MF-100 (General Technical Data) and Form MF-103 (Application for Aid for an Exploration Project).

It is to be noted that the percentage of Government participation is different for copper and tungsten so you may wish to file separate applications in case you decide to take advantage of this program. In case the two operations are inseparable it might be advisable to estimate the proportion of the funds to be utilized in the exploration of the tungsten in order to take advantage of larger government share.

If you wish your application to remain as it now is, we will require considerable more detailed information concerning the deposits. Such information should include location maps, geological and assay maps and any other pertinent data showing the exact location, tonnage and grade of the ore blocks or reserves from which will come sufficient production to liquidate the loan on the terms set forth in your application.

Very truly yours,

J. R. Gowen

J. R. Gowen, Acting Chief
Copper Branch, DMA

Copy to Executive Secretary,
W.C.I.
Copper Branch, W.C.I.
J. H. East, 224 New Customhouse
Denver 2, Colorado, MXE
F i l e s

Enclosures

April 2, 1951

943

Mr. Henry H. Bruderlin
257 South Beloit Avenue
Los Angeles 49, California

Dear Mr. Bruderlin:

This will acknowledge receipt of your letter of March 27 with four copies of NSRB 146 attached. We are forwarding this application to Washington today.

We regret that we cannot advise you when action will be taken by the Washington office, but it is my understanding that applicafions for Government aid are given prompt attention.

Sincerely yours,

J. H. East, Jr.

J. H. East, Jr.
Regional Director

JHE/al
cc-DMA files

April 2, 1951

Dr. James Boyd
Administrator
Defense Minerals Administration
Interior Building
Washington 25, D. C.

Dear Doctor Boyd:

We are enclosing three copies of form MRR 146 received from Henry H. Bruderlin, 257 South Beloit Street, Los Angeles 49, California.

This is the twenty-first package of reports forwarded to Washington from Region IV.

Sincerely yours,

J. H. East, Jr.

J. H. East, Jr.
Regional Director

Enclosure
JHe/el
cc-DMA files

March 16, 1951

Memorandum

To: W. R. Storms

From: Chief, Mining Division, Region IV

Subject: Henry R. Bruderlin tungsten deposits, Pinal County, Ariz.

Enclosed is a copy of a letter from Mr. Bruderlin on the above subject and our reply. We are asking you to give him the requested information as we do not have it here.

W. D. McMillan
for P. T. Allsman
Chief, Mining Division

Enclosure

WDM:
cc-DMA files

March 16, 1951

Mr. Henry H. Bruderlin
257 South Beloit Avenue
Los Angeles 49, California

Dear Mr. Bruderlin:

This will acknowledge receipt of your letter of March 12, 1951, relating to your tungsten deposits in Pinal County, Arizona.

We are forwarding a copy of your letter to Mr. W. R. Storms, Chief, Arizona-New Mexico Branch, Bureau of Mines, Tucson, Arizona, who will advise you about the disposition of your sorted ore and concentrates.

Referring to our letter of February 15, 1951, we have received copies of form NSRB 146 and are enclosing five copies to be used in your application for Government assistance.

Sincerely yours,

W. D. McMillan
for J. H. East, Jr.
Regional Director

Enclosure

WDM/cl
cc-DMA files
Storms
McMillan

REGIONAL DIRECTOR'S
OFFICE
REGION IV
MAR 14 1951
BUREAU OF MINES
DENVER, COLORADO

March 12, 1951
257 S. Beloit Ave.,
Los Angeles 49, Calif.

United States Department of the Interior
Bureau of Mines,
224 New Customhouse,
Denver 2, Colorado

Attention of Mr. J. H. East, Jr., Regional Director

Gentlemen:

With reference to your letter of February 15, 1951, we wish to advise you that pending action upon our loan request we are proceeding to develop the property in a small way and would like to know where is the most advantageous place to dispose of A. The sorted ore. B. The concentrate. Our sorted Scheelite averages a little over seven per cent Tungsten Oxide according to sampling assays.

Very truly yours,

Henry H. Bruderlin

Henry H. Bruderlin

HHB/hs

cc- Stevens

February 15, 1951

Mr. Henry H. Bruderlin
257 South Beloit Avenue
Los Angeles 49, California

Dear Mr. Bruderlin:

With reference to your letter of February 14, we are enclosing a copy of a press release, dated December 5, describing the type of assistance that can be given mining enterprises, and an outline indicating the type of information you should furnish with your application.

We do not have copies of NSRB 146 available at this time, but will forward five copies to you as soon as a supply is received. You should forward four copies of the application to this office or to Dr. James Boyd, Administrator, Defense Minerals Administration, Interior Building, Washington 25, D. C.

Sincerely yours,

J. H. East, Jr.

J. H. East, Jr.
Regional Director

Enclosures

/al
cc to DMA files

From Eng. to
and DMM
forms + letter

Mining Division
Date Rec'd.

FEB 15 1951

BUREAU OF MINES
Denver, Colorado

February 14, 1951
Henry H. Bruderlin,
257 South Beloit Avenue,
Los Angeles 49, California

United States Department of the Interior,
Bureau of Mines

Attention of Mr. Paul T. Allsman, Chief, Mining Division
Re: Your letter of November 21, 1950

Dear Mr. Allsman:

Since my previous communication acknowledged in the reference letter I have not heard from Mr. Storms. We are proceeding with our activities on this property but require equipment in order to exploit it properly.

In the meantime we have discovered two additional deposits of critical materials, one of Chromite and one of Scheelite. The Chromite deposit is fairly extensive and of good grade, and on the Scheelite deposit we have four outcrops within one-quarter mile along a vein of Chromite bearing Prophyry. The Chromite runs about one and one-half per cent, and the Scheelite, after sorting, approximately three per-cent WO_2. All deposits are of easy access but will require concentrating equipment.

Please advise as to what immediate steps I should take to obtain aid in developing these properties.

Very truly yours,

Henry H. Bruderlin

Henry H. Bruderlin

HHB/hs

REGIONAL DIRECTOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

August 31, 1951

Mr Neal

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 9431, Henry J. Brunderlin, Westrock and Elephant White Copper-Tungsten Prospects, Pinal County, Arizona

Enclosed herewith is original and two copies of the report as indicated above.

We concur with the conclusions and recommendations of the examining team.

J. H. Hunt, Jr.

A. H. Vesselowsky
A. H. Vesselowsky

enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

August 29, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 943X, Henry J. Bruderlin, Whetrock and Elephant Butte Copper-Tungsten Prospects, Pinal County, Arizona

The application accompanying the subject docket was for an exploration loan of $70,000 on a 50-50 basis for the exploration of copper, chromite and scheelite.

The applicant did not outline his proposed exploration and when interviewed by the examining engineer he still did not have a definite program.

Mineralization is present in narrow veins, but at no place have the veins been sufficiently exposed to provide a basis for inferring any ore. No samples were taken by the examining engineer, the six samples mentioned on page six being taken by Lynn Hersey, Consulting Geologist, and the balance by Mr. Bruderlin.

The examining engineer recommends denial of the application, with which we concur.

W. H. King, for
P. T. Allsman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Arizona-New Mexico Branch
[redacted]
Box 4097
UNIVERSITY STATION

MINING DIVISION
REGION IV

Mining Division
Date Rec'd.
AUG 20 1951
BUREAU OF MINES
Denver, Colorado

TUCSON, ARIZONA

August 16, 1951

Memorandum

To : Paul T. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : Henry J. Bruderlin's Whetrock and Elephant Butte Groups, Copper and Tungsten Project, Pinal County, Ariz.

Enclosed are original and 7 copies of the section on Summary Conclusions and Recommendations, and the section on Engineering for the above report, both by Grant R. Rubly of the Bureau of Mines. No separate geological report will be submitted.

This report has my approval.

The original brochure is enclosed.

Walter R. Storms

Walter R. Storms

CC P. T. Allsman (7)
C. A. Anderson
DMA 943X
DF

FOR VICTORY
BUY UNITED STATES SAVINGS BONDS AND STAMPS

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-943X, Henry J. Bruderlin's Whetrock and Elephant Butte Groups

Copper and Tungsten Project

Pinal County, Arizona

Grant R. Rubly, Mining Engineer
U. S. Bureau of Mines

August 1951

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By Grant R. Rubly[1/]

In May 1951, Henry J. Bruderlin applied for aid for an exploration project pursuant to Mineral Order No. 5, under the Defense Production Act of 1950. The application requested aid in the amount of $70,000 to be shared on a 50-50 basis for the exploration of copper, chromite and scheelite on the Whetrock and Elephant Butte groups of claims in Pinal County, Ariz. These claims are about 8 miles northwest of Superior, Ariz.

The Whetrock group was located some years ago by the Mullins brothers. The area was prospected in the early part of the century but there is no known production. The present owners are George Morton and Hart Mullins. The Elephant Butte claims were located recently. They are owned by Jess and Hart Mullins. There has been no production from these claims. Both groups are leased to the applicant.

The veins in the Whetrock group are in or adjacent to a quartz monzonite porphyry stock. There is a set of north-south trending veins dipping steeply to the west which are linked by a minor set of east-west to N. 60° W. fractures. Mineralization is found on both sets of fractures with some concentration at the junctions of the veins. This mineralization is erratic as to tenor and quantity. Associated rocks besides the quartz monzonite porphyry are a granitic

1/ Mining Engineer, Bureau of Mines

type of intrusive, diabase sills, felsite dikes, schist, and quartzite. Some Barnes conglomerate overlying the quartzite may serve to identify the latter as a member of the Pioneer shale formation.

The minerals making up the exposed portions of the veins in the Whetrock group are malachite, azurite, some chrysocolla, and a few specks of bornite and chalcopyrite. Assays indicate varying amounts of silver but it is impossible at the present time to determine the form in which it occurs. It may be associated with hematite and limonite. The chromite is of no interest as it occurs very sparsely in the rock.

In the vein on the Elephant Butte group the principal minerals are an impure scheelite, copper carbonates and silicates, and some chalcocite. This vein is in steeply tilted Pinal (?) schist and is made up of quartz, chlorite and feldspar with minor amounts of the valuable minerals.

The applicant is devoting his efforts to the Whetrock claims because of their supposed copper and silver content. The work is largely of a prospective nature, uncovering and sampling veins and faults and opening a cut on one of the cross fractures near the One-Two vein where some concentration of mineralization appears. No work is presently being done on the Elephant Butte vein. There is no definite program for exploration set up by the applicant.

Although there is a system of mineralized veins occurring in the porphyry of the Whetrock area, the mineralization in those veins is very erratic as to metallic content and occurrence. Silver and

copper are found in varying amounts in small isolated bodies. Very little of the material can be considered as commercial ore. The possibility of finding bodies of economic size and tenor is very small.

The Elephant Butte vein carries some impure scheelite and about 2 percent copper. Values are spotty and in addition to probable high mining costs can be added the cost of a complicated metallurgical problem. Any ore that might be found would not be economically feasible.

It is recommended that the application for aid in exploring the Whetrock and Elephant Butte claims be denied because the project does not seem to be geologically nor economically feasible.

HENRY J. BRUDERLIN'S WHETROCK AND ELEPHANT BUTTE GROUPS
COPPER AND TUNGSTEN PROJECTS
PINAL COUNTY, ARIZONA
DMA DOCKET 943X

Engineering Report

By Grant R. Rubly, Mining Engineer
U. S. Bureau of Mines

AUGUST 1951

HENRY J. BRUEBERLIN'S WHETROCK AND ELEPHANT BUTTE GROUPS
COPPER AND TUNGSTEN PROJECT
PINAL COUNTY, ARIZONA
RMA DOCKET 943X

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ILLUSTRATIONS

Figure		Following page
1	Location map of Whetrock and Elephant Butte claims	1

INTRODUCTION

An application for a Government loan in the amount of $60,000 under Sec. 302 of the Defense Production Act of 1950 was made by Henry J. Bruderlin in March 1951. Apparently upon the advice of the Government in Washington this application was dropped and an application for aid for an exploration project pursuant to Mineral Order 5 under the Defense Production Act of 1950 was substituted. This latter application requested aid in the total amount of $70,000 to be shared on a 50-50 basis, to explore lode claims in Pinal County, Ariz. The commodities claimed were copper, scheelite and chromite. The claims were the Whetrock and Elephant Butte groups.

ACKNOWLEDGMENTS

The writer is indebted to Henry J. Bruderlin for his time and efforts in assisting in making the examinations, as well as for other courtesies.

LOCATION, TOPOGRAPHY AND CLIMATE

The Whetrock group of claims is situated in Pinal County, Ariz. 1 mile south of the JF ranch, as shown on the Iron Mountain, Arizona, Quadrangle of the U. S. Geological Survey, and about 8 miles northwest of Superior. The group may be further located at 33° 32' 45" north latitude and 111° 13' 15" west longitude (see fig. 1).

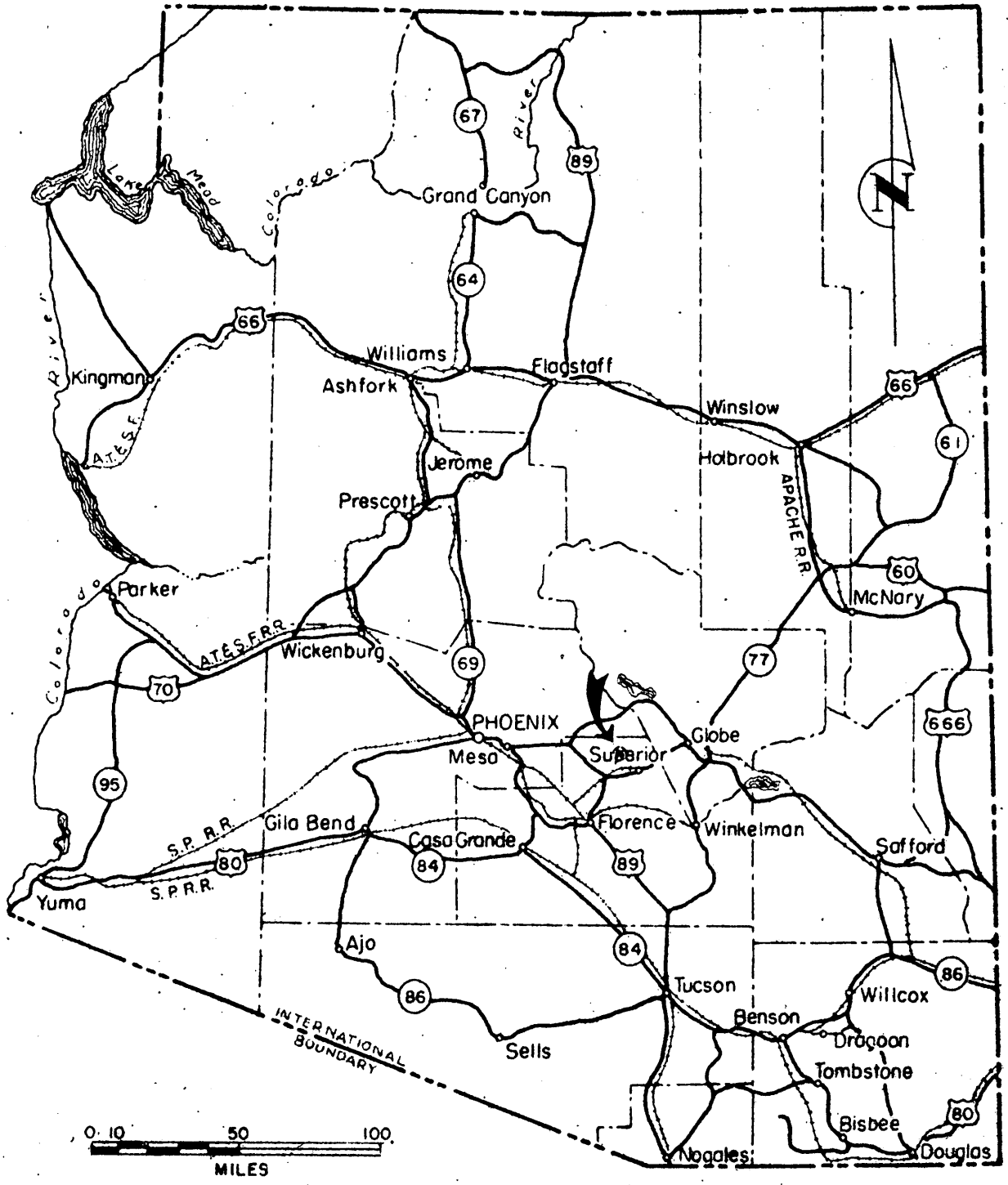

FIG. I - LOCATION MAP
OF WHETROCK AND
ELEPHANT BUTTE CLAIMS

DMA 943X AUG. 1951

The claims are reached by travelling up the Hewitt Canyon road, which leaves the old Queen Creek stage road about 1/2 mile northeasterly from Hewitt Station, a distance of about 7.5 miles, then turning left on a road up the side of the mountain for an additional 2.5 miles. The road up Hewitt Canyon lies in the bed of the canyon for almost its entire distance and therefore is impassable during flood conditions. The new road built by the applicant is very steep and is negotiable only by 4-wheel-drive vehicles.

The Elephant Butte group of claims is situated about 3.5 miles southwest of the Whetrock group at approximately 33° 22' 45" north latitude and 111° 16' 30" west longitude. The mass of rock rising out of Whitlow Canyon about 3/4 of a mile to the west and bearing a faint resemblance to an elephant gives the name to the claims.

These claims are reached by travelling up the Milk Ranch road, which leaves the old Queen Creek stage road near Whitlow's Ranch, a distance of about 6 miles. This road is in very poor condition but can be travelled by car.

The terrain in the vicinity of both groups of claims is extremely rugged. At the Whetrock group altitudes vary from 3,200 to more than 4,000 feet above sea level, and at the Elephant Butte group from 2,500 to 3.500 feet. Steep mountain slopes are characteristic of the area.

The climate is typical of the lower mountain areas of Arizona. Summers are hot and dry, and winters are mild. Some snow is found on the higher elevations during the winter. Rainy seasons send water tumbling down the normally dry washes and canyons, and make the roads impassable.

Desert vegetation predominates in the area but hackberry trees occur in some of the washes, and scrub oaks and junipers are found at the higher elevations.

There is no water presently available at either group of claims. A shaft sunk for a depth of 20 feet in Millsite Canyon near the Whetrock group of claims is dry. This shaft is at the so-called Hackberry campsite. It is possible that sufficient water for camp purposes could be developed at both groups of claims by drilling.

HISTORY AND PRODUCTION

The Whetrock group of lode mining claims was located some years ago by the Mullins brothers. The Elephant Butte claims were located very recently. There are 20 unpatented lode mining claims in the Whetrock group and 3 such claims in the Elephant Butte group. The latter are located end to end along a vein structure.

No recorded production is known but some ore is said to have been shipped from the Whetrock claims many years ago. If this is so, the ore was probably shipped for its silver content. Several old tunnels are on the property but the dumps, for the most part, have been washed away.

OWNERSHIP AND EXTENT

The 20 unpatented lode mining claims of the Whetrock group of claims are owned by George Morton and Hart Mullins. The 3 unpatented lode mining claims of the Elephant Butte group of claims are owned by Jess Mullins and Hart Mullins. Both groups are leased to Henry J. Bruderlin, the applicant.

DESCRIPTION OF DEPOSITS

A preliminary geologic map of a portion of the Whetrock Basin has been prepared by Dion L. Gardner, Geologist and Engineer, of Orange, Calif. This map was made on a base map which was enlarged from a portion of the Iron Mountain, Arizona, quadrangle sheet. U. S. Forest Service aerial photographs were used in preparing the map, as well as field work by Gardner. No mapping has been done in the Elephant Butte area.

The rocks cropping out in the Whetrock basin area are, in part, Pinal schist, Pioneer(?) shale, Barnes conglomerate, diabase, quartz monzonite porphyry, a granitic or syenitic rock, and felsite dikes. The Pinal schist as exposed in the area is a coarsely micaceous variety trending in a northeasterly direction and dipping steeply to the north. In exposures in Hewitt Canyon the schist is highly contorted and coarsely laminated with numerous lenses and veinlets of quartz. A quartzite which has been tentatively identified as a member of the Pioneer shale occurs as islands in the intrusive diabase, usually at the top of or near the tops of the higher hills. Some Barnes conglomerate appears to overlie the quartzite and may serve to identify the formation stratigraphically.

The quartz monzonite porphyry is generally a fine textured rock composed of quartz, and pink and white feldspars. It grades from a bleached whitish variety into dark grayish-green types. It is possible that this rock is similar to the quartz monzonite porphyry of the Silver King area near Superior. A granitic type of rock containing coarse feldspar crystals crops out in several areas. This rock may be genetically related to large masses of a similar rock to the east of the property. Intruded into the monzonite porphyry and the granite are a series of disjointed felsitic dikes having a general northerly trend.

A series of faults and veins having a general northerly strike occur in the Whetrock area. Other cross-fractures, which trend from east-west to N. 50° W., occur between the north-south breaks and form a linked or ladder-like system. Mineralization appears on both sets of faults with some concentration at the junctions. While the north-south fractures can be traced for perhaps 1,000 feet or more, mineralization is very irregular and inconsistent.

The copper minerals making up the exposed portions of the veins consist of the carbonates, malachite and azurite, and small amounts of the silicate, chrysocolla. No gold has been found but silver occurs in erratic amounts. The silver apparently is associated with hematite and limonite and does not vary uniformly with the copper.

Assay values of samples taken on the Whethrock claims vary from a trace to 3.2 percent copper and 0.10 to 106.40 ounces silver per ton of ore. These samples were cut at widely separated points and on

different vein systems. The arithmetical average of 19 samples taken is 18.2 ounces of silver and 0.9 percent copper. Another group of 6 samples cut at intervals across one vein have an average grade of 2.63 ounces silver and 0.5 percent copper.

Due to certain similarities of the Whetrock area to those of the old Silver King mine and to the Magma mine in Superior, there is always the possibility of discovering a shoot of ore. Such a discovery would probably be the result of a long and patient search, and would require the expenditure of sums of money in excess of any hoped for returns.

The Elephant Butte area has had no geological study beyond the observations of the writer. A vein varying from 1 foot to 3 feet in width is traceable for some 3,000 feet. This vein occurs in steeply tilted Pinal (?) schist striking northeasterly. The vein filling is primarily quartz, chlorite and feldspar, in places assuming a pegmatitic character. An impure scheelite, copper carbonates and silicates, and some chalcocite occur in pockets of varying quantity and quality.

Hand-sorted ore from the Elephant Butte No. 1 claim assayed 1.84 percent WO_3, 2.2 percent copper and 0.78 ounces of silver. A similar sample from a 6-foot deep test pit on the Elephant Butte No. 2 claim assayed 7.18 percent WO_3. Some of this latter ore was concentrated by jigging and the concentrates assayed as follows:

Tungstic acid	46.82	percent
Iron	9.88	"
Copper	2.85	"
Lead	0.50	"
Zinc	0.61	"
Molybdenum	0.48	"
Sulfur	0.11	"
Phosphorous	0.03	"
Silica	28.30	"

This test was performed by Ed Eisenhaver, Jr. of Los Angeles, Calif.

Bruderlin stated in his original loan application that there was an undeveloped body of chromite ore immediately adjacent to one location. When questioned about this in the field he stated that it was nothing to be concerned about, it was merely of small mineralogical interest and could never be considered as a deposit of commercial interest.

ORE RESERVES

There are no reserves of ore at either the Whetrock or Elephant Butte group of claims. Mineralization is present in veins but at no place have the veins been exposed sufficiently to provide a basis for inferring any tonnage. The Whetrock veins have spots of silver-copper ores but no economical quantities or grades. Some tungsten mineralization is indicated in the Elephant Butte vein but the quantity of associated copper would make clean extraction costly.

PRESENT STATUS

At the present time the applicant is prospecting the Whetrock group. Major activity is concentrated on the One-Two vein where a cross fracture indicates some improved mineralization. Two men are engaged in this work. A third man operating a D-6 tractor with bulldozer blade is building roads to likely-looking areas, and trenching outcrops. These three men have a rude camp close to the work. In addition to the D-6 dozer, a 210-cfm Ingersoll-Rand Compressor, a 1½-ton Army truck with winch, a jeep, jackhammers, steel, hose and other miscellaneous items are in use at the Whetrock group.

PROPOSED EXPLORATION

Although the applicant did not outline his proposed exploration program when submitting his application, the writer questioned him at length in the field. It appears that he still has no definite program in mind that can be classified as exploration. What he does propose is a prospecting venture, uncovering outcrops with the bulldozer, chasing down small fractures, and mapping. None of this work would delineate any ore, and in view of both the geologic and economic factors, would be wasted effort.

While the Elephant Butte vein has not been thoroughly prospected, indications are that any ore that might be found could not be economically mined and treated, and therefore no further exploration need be done.

ESTIMATED COST OF PROJECT

Inasmuch as the conclusions regarding this application are adverse there is no need to discuss either the estimated cost of the project or the proposed financing.

CONCLUSIONS

Although there are several persistent north-south structural breaks in the Whetrock area, as well as a series of cross fractures in the quartz monzonite porphyry, mineralization is not persistent nor strong. Some localization takes place at intersections or joining of fractures but the areas involved are small. The copper content is in the form of carbonates and silicates and below commercial grade. Since silver is not essential nor pertinent to the commodity program it need not be considered. The geologic evidence is such that a body of ore may be found but only at great cost and such ore would probably not be of commercial proportions.

An estimate of the value of the ore at prevailing market prices is about $25 per ton. Mining, hauling and treatment charges under optimum conditions would be $25 or more. All ore mined would have to be direct shipping ore. Since no profit can be realized even on direct costs the venture would not be economically feasible.

The applicant already has spent considerable money on this project and indicated his intention to continue with his prospecting work in order to satisfy his own curiosity. As stated in the brochure, he has

had no previous mining experience, but has been indirectly connected with prospecting and mining operations for a number of years. He has owned, operated and profitably sold a chain of radio and electric appliance stores in the Los Angeles area. He is a "backyard" geologist and as such can envision structures extending for miles across the country, and huge ore bodies at depth indicated by hairline mineralized streaks in the rock. It is doubtful that he could conduct a true exploration program.

The Whetrock group of claims are neither geologically nor economically feasible.

While it is true that some hand sorted ore from the Elephant Butte No. 2 claim assayed 7.18 percent WO_3 it is not likely that such a grade can be maintained. Another similar sample on the same vein assayed 1.84 percent WO_3. Assuming that an average grade of 5 percent WO_3 could be maintained in sorted ore it would have a market value of $315 per ton. This ore would represent about one ton in every 15 tons of vein mined. On the basis of a production of 1.5 tons mined per man shift the direct mining cost would be about $15 per ton of rock or $225 per ton of sorted ore. Assuming a recovery of 60 percent of the contained values, the sorted ore would be worth only about $189. There is a loss on direct mining charges alone without adding hauling, milling, marketing or any other expenses.

The chromite deposit claimed by the applicant is of very minor importance.

RECOMMENDATIONS

It is recommended that the application for aid in exploring the Whetrock group of claims be denied onthe grounds that geological evidence of substantial ore bodies at depth are lacking and that ore of the grade presently indicated is not economically workable.

It is recommended that the application for aid in exploring the Elephant Butte group of claims be denied on the grounds that any ore that might be discovered could not be economically mined, treated and marketed.