DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

Mn

CONTROLLED DOCUMENT Ariz

DMA Docket No. 697X

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

_____

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

To:	Supply Division	Date	10/8/51
To:	Production Expansion Div.	Date	OCT 11 1951
To:	to Selfridge (by act)	Date	1-5-52
To:		Date	
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DO NOT DETACH

CONTROLLED DOCUMENT

Withdrawal

Mr. Carl D. Berry
737 N Michigan Ave.
Chicago, Ill.

Re: Docket No. DMA 697X
War Eagle and War Eagle No. 1 Mining Claims
Yuma County, Arizona

Dear Mr. Berry:

In accordance with your wishes as expressed to this office by telephone on Jan. 14, 1952, and to expedite any future application you may wish to make, we herewith withdraw your present application (DMA 697X) without prejudice.

We wish to thank you for your interest in the Defense Minerals program, and for your patience and effort in this Respect.

Sincerely yours,

Acting Administrator
Defense Minerals Administration.

Jan. 15, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration.

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Withdrawal of exploration project in the amount of $31,500.00
Docket No. DMA697X
Name of Mine: War Eagle and War Eagle No. 1
Yuma County, Arizona

The Subject application was withdrawn for the following Reason:

1. in accordance with the wishes of the Applicant, expressed by him via Long distance telephone on at 1:35 PM on Jan. 14, 1952 to Glenn G. Gentry of this office. (2) The applicant further stated that he had dropped his Leases on the War Eagle and War Eagle No. 1 Mining claims due to the expense of exploration.

Acting Chief
Iron and Ferro-Alloy Division

Files
DMEA-697

Jan. 14, 52:
Telephone Call to Barry in Chicago by Glenn G. Gentry at 1 35 P.M.

Re: Present Status of Lease:

and that Govt does not have Signed Landlords Subordination Agreement on Form MF 202

Answer by Barry:
Talked to Barry in Chicago, at 1 35 PM.
Barry advised that he had temporarily dropped the Lease on the War Eagle and War Eagle No. 1 Claims and Wished to Withdraw the Application at this time. He is Working on other Tungsten and Manganese Claims in the Area and at a Later date may wish to Apply for a Govt. Loan on these.

Glenn G. Gentry.

Letter to Mittenderf: Application Was Withdrawn at Request of the Applicant, due to the expense involved in Prospecting and exploring the manganese deposit on the Claims.

Glenn G Gentry.

Carl D. Barry - 737 N Michigan Ave, Chicago, Ill.

Notes: Jan. 19, 52

Letter from applicant in April, 1951 states:

"intention to obtain additional extension of option for 6 months"

(Note: This would be up on Nov. 1, 51) How did this come out?

War Eagle and War Eagle No. 1 mining Claims:

Agreement entered into on Jan. 10, 1951 between the Curtis family owners and Carl D. Barry, Lessees - Called for 90 day option to purchase mining Claims for $35,000.00

10 year Lease from Jan. 10, 51 to Jan. 10, 61

170 Lease extensions noted

Amended agreement Feb 14, 51

Carl D. Barry Has Right until July 10, 51 to elect to take a lease on said mining Claims, Lease to Run from July 10, 51 to July 10, 61

Require Letter from Barry and owners that Lease agreement dated Jan. 10, 51 is in Effect.

if property is Leased then Gov't Requires Land Lords subordinate agreement to be signed on Form MF 202

D

MAR 7 1952

Mr. J. H. East, Jr.
Executive Officer, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMA 697X - Manganese
War Eagle and War Eagle No. 1
Claims
Yuma County, Arizona

Dear Mr. East:

We note in your monthly report for the period January 21, 1952 to February 20, 1952, that you list DMA 697X - Manganese, Carl D. Berry, Arizona, as "Pending Contract - Washington Office".

Our files show that this docket was withdrawn by the applicant, Mr. Berry, by telephone on January 14, 1952. A letter confirming this was sent Mr. Berry on January 16, 1952.

Sincerely yours,

C. O. Mittenderf

Acting Administrator
Defense Minerals Exploration
Administration

CLBrewer:lm
3/6/52

cc: Admn. Reading File
Docket
N. E. Melcher, USBM
M. D. Crittenden, USGS
Field Team Reg. IV
G. C. Selfridge
Q. L. Brewer

Excerpt from Monthly Report, Region IV, January 21, 1952 to February 20, 1952

DMEA 697 - Carl D. Berry (Manganese), Arizona

Pending contract - Washington Office

JAN 1 5 1952

Mr. Carl D. Berry
737 N. Michigan Avenue
Chicago, Illinois

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War Eagle and War Eagle No. 1
Claims
Yuma County, Arizona

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Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry:lm
1/15/52

cc: Admn. Reading File
Docket
N. R. Melcher
M. D. Crittenden
Field Team Reg. IV
G. C. Selfridge
G. G. Gentry

January 15, 1952

Memorandum

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From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

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George C. Selfridge

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

GGGentry'lm
1/15/52

cc: Admn. Reading File
Docket
✓ G. C. Selfridge
G. G. Gentry

400

FILE COPY
SURNAME:

Brewer
Selfridge
Mitt

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

MAR 7 1952

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C. O. Mittenderf (for) 3/7

Acting Administrator
Defense Minerals Exploration
Administration

QLBrewer'lm
3/6/52

cc: Admn. Reading File
Docket
N. B. Melcher, USBM
M. D. Crittenden, USGS
Field Team Reg. IV
G. C. Selfridge
Q. L. Brewer

for

400

FILE COPY
SURNAME:

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

Gentry
Selfridge.

A.A.

JAN 16 1952

Mr. Carl D. Berry
737 N. Michigan Avenue
Chicago, Illinois

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War Eagle and War Eagle No. 1
Claims
Yuma County, Arizona

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Sincerely yours,

C. O. Mittendorf (for) 1-16-52

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry'lm
1/15/52

cc: Admn. Reading File
✓ Docket
N. B. Melcher
M. D. Crittenden
Field Team Reg. IV
G. C. Selfridge
G. G. Gentry

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

January 15, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Withdrawal of exploration project in the amount of $31,500.00
Docket No. DMA 697X - Manganese
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G. C. Selfridge

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

400

FILE COPY
SURNAME:

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

Selfridge
Gentry

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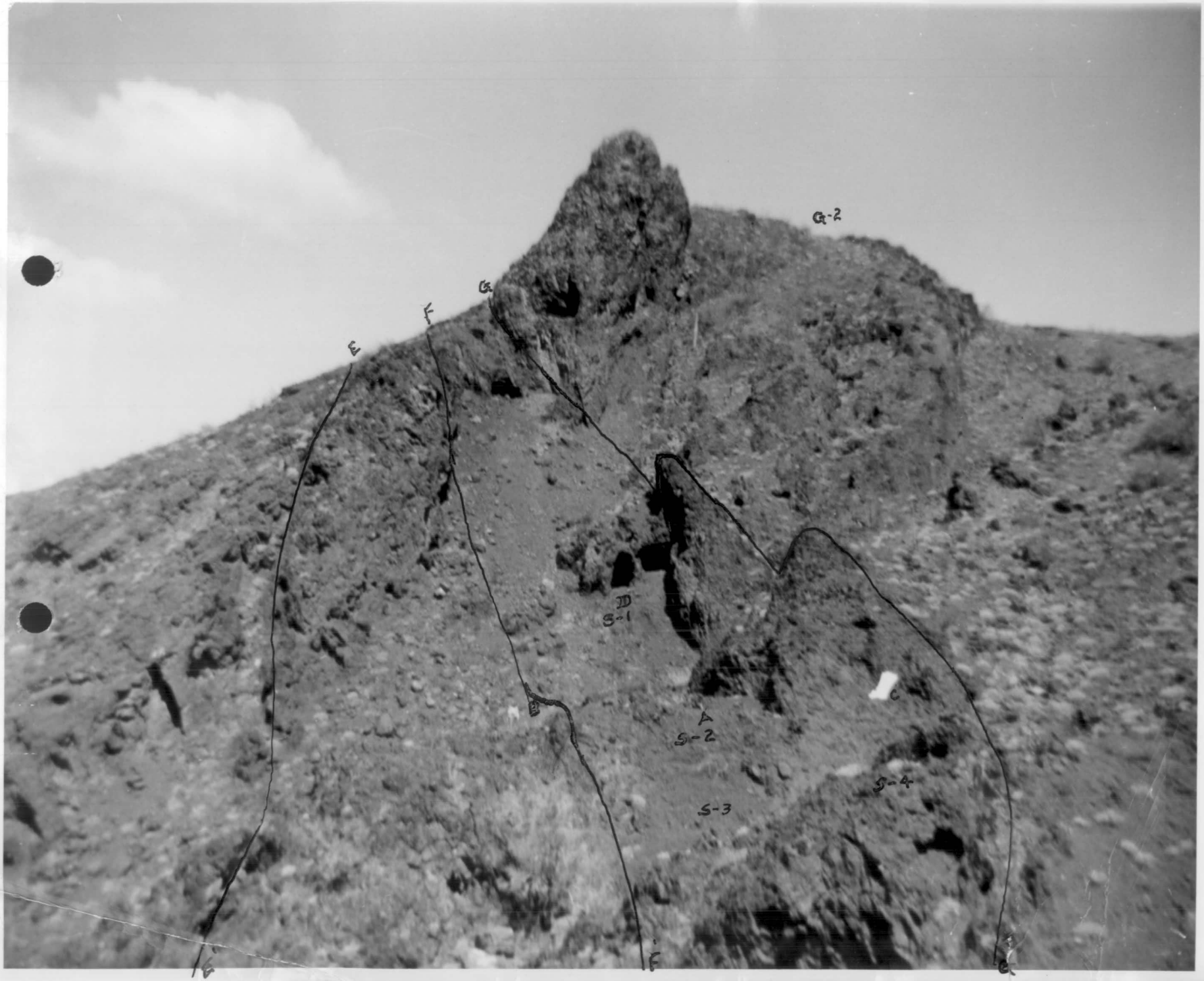
George C. Selfridge 1-16-52

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

GGGentry'lm
1/15/52

cc: Admn. Reading File
Docket
G. C. Selfridge
G. G. Gentry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MN (697X)

$15000 = orig App

Rec'd Ca Mar 1

"Sec 581". ? - DMA 581 - or what?

Malcom's Memo 4/16 - Cites:-

Stops Processing! USGS - 1944 - 20-25% mm & 25,000 tons Reserves

USBM - ? - 10% or, sorting to 30%

Says Denial letter attached - ?- (what happened?)

2,000,000 tons of alleged Reserves, - without factual data

Critenden:- 3/19 - see this on the Original

$14,125,500 opp. Very good. and states that ~~the~~ (the Min Section of the G.S.

is informing the app. of denial

Recall Copy of letter of Denial (no date) by Director of Supply Div. -

4/24 - Malcolm to Oxenhandler. setting up time for Conference

Mel Critenden

4/5 - Evans Rept. stat of Acq - (by Mr. Flagg)

5/17. Memo Critenden to Bradley - Re conversations and

Flaggs Report - & Suggests a small (5000 - 10,000)

project of exploration be undertaken. -

7/9 Oxenhandler to Holdaker

Malony application for Exploratory work -

7/17 - Critenden - on new Exploration project - says ok on phase I and

hold phase II, depending on results of phase I. Necessary to have

plane table map before proceeding -

8/13 - Map received & sent to USGS. by "T.J.R - 8/16-51)

8/27 - to Opp - Map as rec'd N.G. as to phase I - ok as to Ph 2. - "send 7 copies

of trenches, etc on Ph II"

9/8 - Maps sent - will make 10 trenches by hand rather than 20 by Bulldozer

9/14 to App - changes in Ph. 2, by Holden

9/24 - Appointment to meet App on last wk Sept

10/1 - Changes in application, adding Ph 3 + Ph. 4 - (Outlined in letter)

10/11 - memo from Holden, approving 4 ph program

10/12 Blokemore raises the question of amenability of the ore to concentration -

10/24 - note - "called Berry" 10/24 - (why?) (what result?)

(Now what?) - no correspondence since 10/24

George - Shouldn't you call Holden & check as to status?

1/8 called Hilleren office + said ok. to go ahead —

DMA-697X

Carl D. Berry and Associates

See George Holderer about this application.

To:
Geor Selfridge
Rm 3538

~~393 Ohio~~

Opr. 23 - Chemodel.

Carl D. Berry
737 North Michigan Avenue
Chicago, Illinois
Boos, Allen & Hamilton
Management Consultants
Boos, Allen & Hamilton
Management Consultants.

Financial - 61900
Carl D. Berry

Called Berry 9:10 A.M. - Oct. 24, '51

3/8
Del
7214

Legal description

Those two certain unpatented lode mining claims known and been Eagle and Lear Eagle No. 1, situated in the Harquahala Mining District in Yuma County, Arizona, the location notices of which are of record in the office of the County Recorder of said Yuma County in Book 38 of Mines, at Pages 308 and 309

(In the lease)

Option expires - July 10, 1951 but extended?

Copy of lease

Subordination Agreement.

Are you in a position to get a lease if contract is offered? Call them.

Subordination Agreement.

Are other members going to be included in the loan. if not why not?

Who is going to supervise this project? What compensation will be the people

---

A difference in the total cost.

Is this material amenable to concentration? Until this is determined I would question the justification of this

36724

B. A. Lemore
10/12/57

Title

- Sense x

- [illegible]

DMA-697X - Received Oct. 17, 1951 - 3:00 P.M.

Manganese

Carl D. Berry and Associates
737 North Michigan Avenue
Chicago 11, Illinois.

Total Cost - $31,500 - Gov. Participation - $23,625 - 75%
Applicant - $7,875

Phase I - 10 Surface trenches 4'x4'x60' - $3,500.00 —
Contracted

Phase II - 250' @ $4 - 10,500.00
Contracted

Phase III 200' @ $35 - 7,000.00 —
Contracted

Phase IV 300' @ $35 - 10,500.00 —
Contracted. $31,500.00

Costs

Excavating for portal & clean up - $700.00
Furnishing Portal 300.00
Total 1000.00

I - Trenching - $3,775.00 — 3,775.00

II 250' @ $42 10,500.00

III - 200' @ $35 7,000.00

IV 300' @ $35 - $10,500.00

Total - $32,775.00
$31,775.00

Letter of Oct 1 - Steps #1 & #2 - $15,000
Step #3 - 7,000
Step #4 9,500
$31,500

How about the sampling & bagging?
What about the cost of this item?
Supervision - What is the supervision project?
What about salary for supervision?

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

OCT 11 1951

Memorandum

DEPARTMENT OF THE INTERIOR
RECEIVED
OCT 12 1951
Defense Minerals Administration,
Production Expansion Division.

To: Production Expansion Division

Through: Director, Supply Division

From: Chief, Ferro-Alloys Branch

Subject: Carl D. Berry and Associates
737 North Michigan Avenue
Chicago, Illinois
DMA-697X - Manganese
Total Loan $31,500
Government Participation $23,625

Property: War Eagle and War Eagle #1
Harcuvar Mining District
Yuma County, Arizona

Conclusions:

Carl D. Berry and Associates propose to explore the War Eagle and War Eagle #1 manganese claims. This exploration work is to be carried out in four phases. These are:

To be contracted
Geo Lindsay & Co
of Trenching
@ 5.83 per ft = 3500.00

1. Excavating 10 surface trenches across the vein. These trenches are to be 4' X 4' X 60'. This will determine the surface extension and value of the ore. The original proposal contemplated the use of a bulldozer to help dig these trenches. Due to the roughness of the terrain, it will be necessary to dig these by hand. This work will be done by contract.

2. If the first phase is successful then the second phase should be started. This second step will consist of drifting to intersect the downward extension of the vein. This would require 250' of drifting in a brecciated zone at a cost of $42 per foot. If the vein is intersected and shows a grade of ore which warrants additional exploration, the third part of the program should be begun.

3. This stage of the project consists of drifting 100 feet in each direction in the vein. Drifting in the vein will cost slightly less than the phase #2 adit in the brecciated zone. An estimated cost of $35 per foot would give a total cost of $7,000. This phase of work should not be carried beyond the limits of the ore body. If the ore pinches out or becomes so low in grade as to be unsalable to the Deming stockpile exploration work should cease.

4. Step #4 will be drifting 300 feet in the vein and should probably be carried out on the War Eagle claim. If this drifting should reach the limits of the ore body, exploration should cease immediately. The total cost of this work will be $10,500.

The program as outlined above, if successful, may indicate 500,000 tons of 15 to 25% manganese.

D. W. Jaquays and Company of Phoenix, Arizona has submitted bids to the applicant for the proposed exploration work. Although a 20% profit is taken by the contractor, the overall cost of $42 a foot in brecciated ground is probably as cheap as the applicant could do it themselves. There would be no question of labor, competency of the applicant, or the availability of equipment.

Recommendation:

The application is approved.

George B. Holderer, Chief
Ferro-Alloys Branch

Attachment

Approved:

Acting Director, Supply Division

Index of File to Production Expansion Division

DMA-697X Manganese

1. 3 copies of MF-103 w/attached sheets.
2. 3 claim maps
3. 1 Photograph
4. 3 copies of Letter to Holderer from Berry dated 10/1/51
5. 1 copy of Letter to Berry from Holderer dated 9/14/51
6. 1 copy of letter to Holderer from Edgar dated 9/8/51
7. 1 copy letter to Berry from Holderer dated 9/27/51
8. 1 copy of letter to Holderer from Edgar dated 8/13/51
9. 1 copy of letter to Holderer from Berry dated 8/7/51
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11. 1 copy of letter to Berry from Strobel dated 7/12/51
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13. 1 copy of letter to Les from Edgar dated 6/6/51
14. Report by A. L. Flagg dated 6/5/51
15. 1 copy of letter to Oxenhandler from Malcolm. dated 4/24/51
16. 1 copy of letter to Berry from D. S. D. dated 4/16/51
17. 1 copy of Memo. to Strobel from M.C.C. dated 4/16/51
18. 1 copy of letter to Ridgway from Oxenhandler dated 4/2/51
19. 1 copy of letter to Berry from Holderer dated 3/7/51
20. 2 sheets of assays

Mr. Holderer

Memorandum

To: Production Expansion Division

Through: Director, Supply Division

From: Chief, Ferro-Alloys Branch

Subject: Carl D. Berry and Associates
737 North Michigan Avenue
Chicago, Illinois
DMA-697X - Manganese
Total Loan $31,500
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Recommendation:

The application is approved.

George B. Holderer

George B. Holderer, Chief
Ferro-Alloys Branch

Attachment

Approved:

Tom Lyon

Acting Director, Supply Division

CHJacoby:ec
10/5/51

CC: Adm. Reading File
DMA Docket File
Mr. Holderer
Regional Field Team Region IV

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DMA-697X Manganese

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10/5/51

Washington, D. C.
October 1, 1951

Mr. George A. Holderer, Chief
Ferro Alloys Branch
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Holderer:

We agreed with Mr. Jacoby this morning to make the following changes in our proposal to explore the War Eagle manganese claims located near Bouse, Arizona.

To add the following two steps to our proposal as follows:

STEP #3. To drive two drifts from the center crosscut tunnel 100' in each direction following the ore vein. To sample the ore taken from these drifts and if these samples assay to a quality of 15% Mn or better, to proceed with Step #4.

STEP #4. To continue drifting in the direction of the heaviest concentration of the ore body another 300' - sampling as we proceed.

We estimate that these additional steps would add to the cost of the project as follows:

STEP #3. Cost for drifting is estimated at about $30 to $35 a foot. Total cost of this step would therefore be about $7000.

STEP #4. Additional cost would amount to $9500. for 300' of additional drifting.

To summarize our proposal with the above changes now stands as follows:

Steps #1 and #2	$15,000.
Step #3	7,000.
Step #4	9,500.
Total	$31,500.

Yours very truly,

Carl D. Berry

Carl D. Berry & Associates

Washington, D. C.
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STEP #3. To drive two drifts from the center crosscut tunnel 100' in each direction following the ore vein. To sample the ore taken from these drifts and if these samples assay to a quality of 15% Mn or better, to proceed with Step #4.

STEP #4. To continue drifting in the direction of the heaviest concentration of the ore body another 300' - sampling as we proceed.

We estimate that these additional steps would add to the cost of the project as follows:

STEP #3. Cost for drifting is estimated at about $30 to $35 a foot. Total cost of this step would therefore be about $7000.

STEP #4. Additional cost would amount to $9500. for 300' of additional drifting.

To summarize our proposal with the above changes now stands as follows:

Steps #1 and #2	$15,000.
Step #3	7,000.
Step #4	9,500.
Total	$31,500.

Yours very truly,

Carl D. Berry

Carl D. Berry & Associates

CARL D. BERRY
737 N. Michigan
CHICAGO 11, ILL.

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

SEP 26 8 46 AM '51

Chicago Ill.
Sept. 24 1951

DMA 697X
Manganese

SEP 27 1951
Rec'd by
Mr. Hudson

Mr.George Holderer Chief
Ferro-Alloys Branch
Defense Minerals Adminstration
Washington D.C.

Dear Mr Holderer:

I wish to confirm the fact that my associate Mr.Milton Edgar of Phoenix Arizona will meet with you in Washington next Monday Oct.1st. He will call you from New York and arrange hour of the meeting about Thursday or Friday of this week.

I am also trying to arrange to meet with you at the same time, so that possibly we can get this phase of our proposal decided upon with a minimun of delay, in the event that if changes are made in our application I will be present to confirm them.

Yours very truly

Carl D. Berry

Carl D.Berry & Associates

9/28/51
Monday am confirmed by Edgar by phone.
H

FINAL FILE COPY

To	Init.	Date
340	CC	9-26

Carl D. Berry and Associates
737 North Michigan Avenue
Chicago 11, Illinois

In reply please refer to
DMA-697X

Dear Mr. Berry:

In the study of your application we have found that changes, as outlined below, would be of a decided advantage to you. We propose the following as phase #2:

1. That a 100' shaft be sunk in the ore outcrop. The cost of such a shaft might be in the neighborhood of $70/foot or $7,000 as against $8,400 for a 200 foot adit or $10,500 for a 250 foot adit as suggested by Mr. Elgin Holt. An additional advantage to this is the ability to study the ore characteristics; an opportunity to systematically sample the ore body, and production of a small quantity of saleable ore.

2. At the 100 foot level a drift should be driven 100' N. W. and 100' S. E. in the ore. The original proposal was to intersect the ore at the 100 foot level from an adit with no drifting along the strike of the ore. This would mean that no ore would be actually indicated but would merely infer a tonnage. Regardless of whether an adit or shaft is used this drifting in ore on the 100 foot level should be done.

These changes in the original proposed program would increase the total cost by $8,000. Of this amount you would be required to furnish $2,000 which is in addition to the original amount proposed to furnish. If this is agreeable to you, please write us a letter stating that you desire to increase the requested amount to $23,000, of which your participation will be $5,750. There should be four signed copies of the letter.

Very truly yours,

George B. Holderer

George B. Holderer, Chief
Ferro-Alloys Branch

CHJacoby:ec
Sept. 14, 1951

CC: Adm. Reading File
DMA Docket File
Mr. Holderer

Carl D. Perry and Associates
737 North Michigan Avenue
Chicago 11, Illinois

In reply please refer to
DMA-697X

Dear Mr. Perry:

In the study of your application we have found that changes, as outlined below, would be of a decided advantage to you. We propose the following as phase #2:

1. That a 100' shaft be sunk in the ore outcrop. The cost of such a shaft might be in the neighborhood of $70/foot or $7,000 as against $8,400 for a 200 foot adit or $10,500 for a 250 foot adit as suggested by Mr. Elgin Holt. An additional advantage to this is the ability to study the ore characteristics; an opportunity to systematically sample the ore body, and production of a small quantity of saleable ore.

2. At the 100 foot level a drift should be driven 100' N. E. and 100' S. E. in the ore. The original proposal was to intersect the ore at the 100 foot level from an adit with no drifting along the strike of the ore. This would mean that no ore would be actually indicated but would merely infer a tonnage. Regardless of whether an adit or shaft is used this drifting in ore on the 100 foot level should be done.

These changes in the original proposed program would increase the total cost by $8,000. Of this amount you would be required to furnish $2,000 which is in addition to the original amount proposed to furnish. If this is agreeable to you, please write us a letter stating that you desire to increase the requested amount to $23,000, of which your participation will be $5,750. There should be four signed copies of the letter.

Very truly yours,

George T. Holderer, Chief
Ferro-Alloys Branch

CRJacoby:ec
Sept. 14, 1951

CC: Adm. Reading File
DMA Docket File
Mr. Holderer

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

Carl E. Perry and Associates
737 North Michigan Avenue
Chicago 11, Illinois

In reply please refer to
DMA-697X

Dear Mr. Perry:

In the study of your application we have found that changes, as outlined below, would be of a decided advantage to you. We propose the following as phase #2:

1. That a 100' shaft be sunk in the ore out rock. The cost of such a shaft might be in the neighborhood of $70/foot or $7,000 as against $8,400 for a 200 foot adit or $10,500 for a 250 foot adit as suggested by Mr. Alain Holt. An additional advantage to this is the ability to study the ore characteristics; an opportunity to systematically sample the ore body, and production of a small quantity of saleable ore.

2. At the 100 foot level a drift should be driven 100' S. W. and 100' N. E. in the ore. The original proposal was to intersect the ore at the 100 foot level from an adit with no drifting along the strike of the ore. This would mean that no ore would be actually indicated but would merely infer a tonnage. Regardless of whether an adit or shaft is used this drifting in ore on the 100 foot level should be done.

These changes in the original proposed program would increase the total cost by $8,000. Of this amount you would be required to furnish $2,000 which is in addition to the original amount proposed to furnish. If this is agreeable to you, please write us a letter stating that you desire to increase the requested amount to $53,000, of which your participation will be $5,750. There should be four signed copies of the letter.

Very truly yours,

George B. Holderer

George B. Holderer, Chief
Ferro-Alloys Branch

CHJacoby:ec
Sept. 14, 1951

CC: Adm. Reading File
DMA Docket File
Mr. Holderer

Box 983

Scottsdale, Arizona
8 September 1951

Mr. George B. Holderer
Chief, Manganese Branch
Defense Minerals Administration
Department of Interior
Washington, D. C.

Dear Mr. Holderer:

I am sending you under separate cover the revised plane table requested by your office. (Please refer to DMA No. ~~679~~ 697) showing the proposed surface cuts to be made under Schedule 1 of our application. We are only showing ten cuts instead of twenty as the contractor who made the bid to do this work originally thought he could muck the trenches with a bulldozer but it is impossible to get a bulldozer up on top of the deposits. Therefore, it is necessary to do all the mucking by hand and we have only indicated ten open cuts in order to stay within our budget.

I trust this meets with the approval of your office.

Very truly yours,

Milton A. Edgar

Milton A. Edgar

MAE:kc

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
SEP 11 10 48 AM '51

AIR MAIL

Carl D. Berry and Associates
737 North Michigan Avenue
Chicago 11, Illinois

In reply please refer to
DMA-697X Manganese

Gentlemen:

The map you recently sent shows the proposed drifting to be done under phase 2 as discussed with your representatives; however, we should have the locations of the proposed surface trenches to be excavated in phase 1 of the project.

Please forward 7 copies of your map of the War Eagle claims showing the locations of the 20 trenches. This particular part of the project has our tentative approval.

Engineering costs may be added to the project costs after the contract is signed.

Very truly yours,

George B. Holderer

George B. Holderer
Chief, Manganese Branch

TJBallard:ec
August 27, 1951

CC: Adm. Reading File
Reports & Records Unit
Mr. Holderer
Files

340

AUG 15 1951

August 13, 1951

Mr. G. B. Holderer, Chief,
Manganese Branch,
Defense Minerals Administration
Department of Interior
Washington, D. C.

Dear Mr. Holderer:

I am sending you under separate cover, the plane table of proposed underground workings on the War Eagle Group of mining claims under lease to Carl D. Berry & Associates which was requested by your office.

This information is filed under DMA Application #697.

I trust this contains the information that you require.

Yours very truly,

Milton A. Edgar

Milton A. Edgar

MAE/jmp

Recieved & sent to USGS.
JPR. 8/16/51

CARL D. BERRY
737 N. Michigan
CHICAGO 11, ILL.

August 7 1951

Mr.George B.Holderer
Chief Manganese Branch
Defense Minerals Administration
Washington D.C. DMA697X

Dear Mr.Holderer:

My associate Mr.Milton Edgar of Phoenix Arrisona is now preparing the additional data requested in your recent letter of July 24.

This data should be in your hands before the end of this week. Mr.Edgar will send it direct to you. If it not complete or there is additional data you need ,dont hesitate to call on us.

Your letter indicated that you thought the project was worthwhile which was indeed good news to us. I am sure when we make the additional exploration contemplated that we will find a large quantity of good grade manganese in the two claims

Yours very truly

Carl D. Berry

MF-500

AUG 10 1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Recd by Mr. Hedeen

REFERENCE SLIP

DATE AUG 9 1951

REFERRED TO:

1. 340
2.
3.
4.

Rm 3624

FOR:

---------- Action	---------- Recommendation
---------- Approval	---------- Record of ----------
---------- Comment	---------- Referring to ----------
---------- Conference	X Reply for signature of ----------
---------- Consideration	---------- Rewriting
---------- Filing	---------- Signature
---------- Instructions	---------- Suggestions
---------- Investigation	---------- Your information
---------- Initials	
---------- Mailing	
---------- Previous correspondence	

REMARKS: ----------

Check (X) before the items needing attention.

ROBERT E. ADAMS
Initials of sender.

GPO 16—63815-1

FILE COPY
SURNAME:

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

Holderer
Jacoby

July 24, 1951

Carl D. Berry & Associates
~~c/o~~ Carl D. Berry
737 No. Michigan Ave.
Chicago 11, Ill.

In reply please refer to
DMA 697X

Dear Mr. Berry:

After careful consideration of your application we feel that the proposed exploration is worthwhile. In order that we may approve the first phase of your program we would like for you to submit a plane-table map and cross sections of the proposed trenches and underground workings.

Very truly yours,

George E. [illegible]
jain

George E. Holderer
Chief, Manganese Branch

CHJacoby:bl

CC: Adm. Reading File
Reports & Records Unit
Mr. Holderer
Files

Bunker Hill

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : George B. Holderer DATE: July 17, 1951

FROM : M. D. Crittenden

SUBJECT: DMA-697 X

C. D. Berry and Associates have submitted their well-prepared application for $15,000 worth of development work at the War Eagle properties, Yuma County, Arizona. This application was submitted as a result of conferences here with Mr. Segar and Mr. Barry during which the ~~particular~~ plan and scope of this exploration was agreed upon. The present proposal is divided into two phases, the first consisting of 20 surface trenches across the vein at approximately 70' intervals. The second phase ~~is to drive~~ consists of a 200' crosscut at a level about 150' below the high points on the surface.

It is suggested that the proposal be approved for phase 1, and that additional work be tabled pending results of this first stage. In order to lay out satisfactorily a trenching program, such as that indicated above, it will be necessary for the applicant to submit a plane-table map showing the location of the proposed trenches and underground workings.

MDC

Files

George B. Holderer

July 17, 1951

M. D. Crittenden

DMA-697 X

C. D. Berry and Associates have submitted their well-prepared application for $15,000 worth of development work at the War Eagle properties, Yuma County, Arizona. This application was submitted as a result of conferences here with Mr. Segar and Mr. Barry during which the ~~particular~~ plan and scope of this exploration was agreed upon. The present proposal is divided into two phases, the first consisting of 20 surface trenches across the vein at approximately 70' intervals. The second phase consists of ~~[illegible]~~ a 200' crosscut at a level about 150' below the high points on the surface.

It is suggested that the proposal be approved for phase 1, and that additional work be tabled pending results of this first stage. In order to lay out satisfactorily a trenching program, such as that indicated above, it will be necessary for the applicant to submit a plane-table map showing the location of the proposed trenches and underground workings.

MDCrittenden:gt

FILE COPY
SURNAME:

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

July 12, 1951

Mr. C. D. Berry
737 North Michigan Avenue
Chicago 11, Illinois

Subject: DMA-697X
Exploration Loan -
War Eagle and War Eagle 1
Mine

My dear Mr. Berry:

Receipt is acknowledged of your application and attachments of July 9, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-697X and referred to Mr. George Holderer, Chief, Manganese Branch on July 11, 1951.

In any future correspondence relating to your application, kindly refer to DMA-697X.

Sincerely yours,

LANDON F. STROBEL,

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
✓File
Holderer
Lyon

DMA 697

856

July 12, 1951

Mr. C. D. Berry
737 North Michigan Avenue
Chicago 11, Illinois

Subject: DMA-697X
Exploration Loan -
War Eagle and War Eagle 1

My dear Mr. Berry:

Receipt is acknowledged of your application and attachments of July 9, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-697X and referred to Mr. George Holderer, Chief, Manganese Branch on July 11, 1951.

In any future correspondence relating to your application, kindly refer to DMA-697X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
File
Holderer
Lyon

JOE OXENHANDLER
AMBASSADOR BUILDING
SAINT LOUIS, MISSOURI

July 9th, 1951

Mr. George Holderer
Defense Minerals Administration
Bureau of Mines
New Interior Building
Washington 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 10 1951
LANDON F. STROBEL
Executive Secretary

Re: Application For Aid, Etc.,
Carl D. Berry & Associates
Docket No. DMA-697

Dear Mr. Holderer:

I am taking this opportunity of writing to you and enclosing applications in quadruplicate for an Exploration Project in accordance with several conversations you have had with Mr. Carl Berry and Mr. Milton Edgar.

I had planned on being in Washington personally, and Mr. Berry asked me to submit these to you. As matters turned out, I was unable to make it, and so, I am mailing them to you instead.

I was asked to direct your attention to two questions, assuming that this Exploration Project is approved.

1. Is the exploration work we have outlined in this application satisfactory and if it is will the DMA accept the results when it is completed providing of course it tests out as we have stated?

2. If this exploration project turns out satisfactory and the DMA approves the property; then what happens?

Would very much appreciate your acknowledgment and answers, if possible, to the questions above.

Thanking you for your cooperation, I am,

Yours very truly,

Joe Oxenhandler

JO:v

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : P. R. Bradley

DATE: May 17, 1951

FROM : M. D. Crittenden

SUBJECT: DMA-697 C. D. Berry & Associates

With further reference to my memo of March 17 concerning the applicant's proposal to explore, develop and mine manganese ores from the War Eagle claims, Yuma County, Arizona.

On May 9, 1951 conversation was held with Mr. Sagar (associated with Mr. Berry) which was supposed to clarify the difference of opinion regarding ore reserves. A report was being made at that time by the Department of Mineral Resources for the State of Arizona, and it was expected that Mr. Sagar would have that report for our consideration. It was finally received on May 16, and indicates that the work the applicant has done on the property to date is considerably less extensive than either Mr. Berry or Mr. Sagar suspect. Five samples, listed as originally having weighed 50 lbs. are reported; but there is no indication as to what each sample is representative of! The location of the samples is indicated in a photograph, and all of them were taken from a relatively small area in the mineralized zone. It is the same area I observed in 1944, and estimated to contain 25,000 tons of 20 to 25% manganese. The 5 samples listed ranged from 17 to 35% manganese, and averaged 24% manganese.

The report from the State Engineer corroborates the impression originally conveyed that the material of this grade represents only a small fraction of the mineralized zone, and that the average grade of material present in quantities amounting to a million or two tons would undoubtedly be much less.

It is obvious that the present information is insufficient to give favorable action to the original request for a loan of $14,000,000, and on the basis of this information there is probably considerable doubt that the proposal will ever be approved. There is room, however, for additional information concerning the actual grade and distribution of manganese in a mineralized breccia zone at the War Eagle claims and it is suggested that Berry and his associates be encouraged to submit an exploration proposal designed to supply that information. The work should include preparation of a topographic map at perhaps 100 ft. to the inch, and such trenching as may be necessary to expose the breccia zone so that accurate samples can be taken over its entire width. Samples at intervals of 100 ft. would be adequate in the more sparsely mineralized areas but it might prove desirable to sample at intervals of 50 feet in the vicinity of the known ore shoots. The total cost of such a project should not exceed five or ten thousand dollars. Underground exploration, as recommended by the State Engineer, should not be undertaken until the above information has been obtained from surface exposures.

STANDARD FORM No. 14
APPROVED BY THE PRESIDENT
MARCH 10, 1926

TELEGRAM

OFFICIAL BUSINESS—GOVERNMENT RATES

FROM ~~DEPARTMENT OF INTERIOR~~

BUREAU DEFENSE MINERALS ADMINISTRATION

CHG. APPROPRIATION COLLECT

U. S. GOVERNMENT PRINTING OFFICE 10—1723

WASHINGTON, D. C. May 14, 1951

DMA-697

CARL D. BERRY
737 NORTH MICHIGAN AVENUE
CHICAGO, ILLINOIS

Sorry STATLER REPORTS NO MAIL RECEIVED.

GEORGE B. HOLDERER

Referred to W.H.

Copy

May 6

Dear Les:

Inclosed is Flagg's report, it may not be all that you desire but is the best that can be done unless we want to spend some money.

I hope that Earl's statement that we cut over a hundred samples doesn't backfire but there is no way that I can cover for it. Flagg had to see all assay sheets and only stated what he saw.

Cutting a hundred samples of this Mn would be like cutting a hundred samples on the Big Perlite deposit you know the time we and the manpower it takes besides costing $2.75 each for assays, and I just haven't had the money to do it with, the money that George gave me I have used for Options and Attorney fees for drawing contracts and am now down to the well known hole in the donut.

I wish you all kinds of luck in Washington and will be anxious to know the reaction to Flaggs report.

My new address is P. O. Box 983 Scottsdale , Arizona.

Regards,

(S) Milton (Edgar)

Tim + gave him all the forms.

May 29/51

This letter was hand written + attached to Flagg's report. It was not intended for our use.

Cutten, Edgar + I had a long session with Edgar this P.M., we explained to him an exploration program was the only thing to do at this

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine War Eagle Group Date May 5th, 1951.

District Harcuvar District, Yuma county Engineer A.L.Flagg

Subject:

The essential information regarding location, extent and geological features of this property, are embodied in a report by Elgin B.Holt, made for this Department, May 15th, 1941.

This memoranda provides additional information regarding the extent of the main shoot of manganese and puts on record the results of sampling in late 1950 and early 1951.

The estimated tonnage of ore available above the crosscut tunnel recommended in the Holt report is 900,000 tons, distributed over a length of 1100 feet for an average width of 50 feet. Neither the hanging-wall nor the foot-wall breccia has been sampled or measured. The width of these breccia zones varies from 100 to 400 feet and possibly more. The length of these zones is greater than the length of the principal ore shoot. It is possible that this material could be mined profitably, if not as a mass at least by selective mining. The potential value can be determined only by extensive exploration and close sampling. The distribution of manganese minerals in these zones is sufficient to justify a careful exploratory program.

Prospecting should begin with the crosscut tunnel (approximately 200 feet in length) recommended in the Holt report. When the principal manganese ore shoot is reached drifting northwest and southeast should be undertaken to determine the volume and value of the material in this shoot. It would be very desirable to continue this initial crosscut into the foot-wall bredcia for a distance to be determined by what is disclosed. Because the manganese content diminishes, on the surface, from the main shoot into the breccia it is quite impossible to estimate how far this crosscut should be driven. From the drifts other esploratory crosscuts should be made beyond both the foot-wall and the hanging-wall at intervals.

At the extreme northwest of the high-grade shoot there is no further outcrop of high-grade manganese. The shoot may persist below the masking surface features for some distance beyond this known outcrop.

Reference to the attached photograph, taken from a point approximately 300 feet southeast of A, looking in a northwesterly direction along the center line of the two claims, will give a better idea of the situation for a distance of from 700 to 1000 feet along the principal shoot.

A Approximately the center of the common end line between the two claims.

B Boundary between the hanging-wall breccia and ore shoot.

C Boundary between the foot-wall breccia and ore shoot.

B-C Horizontal distance 61 feet.

FILE COPY
SURNAME:

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

April 24, 1951

Mr. Joe Oxenhandler
1005 Ambassador Building
St. Louis, Missouri

In reply please refer to
DMA 697

Dear Mr. Oxenhandler:

This will confirm our telephone conversation this morning regarding the proposed visit of Messrs. Berry and Sagar to this office next Monday, April 30.

Mr. P. R. Bradley has advised that he will be pleased to see these gentlemen and discuss the recent information you have in your possession regarding your manganese property, and Mr. Crittenden of U. S. Geological Survey will also be available at that time, and we suggest that the appointment be made for the afternoon of April 30 rather than the morning.

Very truly yours,

George Malcolm
Manganese Branch

GNMalcolm:mem

cc: Adm. Reading File
Mr. Strobel
Mr. Bradley
F I L E S

Bradley

856

4/16/51

Memorandum

To: Landon F. Strobel, Executive Secretary, DMA

Through: Director, Supply Division

From: Manganese Commodity Committee

Subject: DMA 697 - C. D. Berry and Associates, 737 North Michigan Ave, Chicago 11, Illinois
War Eagle and War Eagle Number 1,
Harcuvar Mining District, Yuma County, Arizona

Copy attached
Inserted from
Outfitters
1st priority

Approved:

Geo. B. Holderness

Director, Supply Division

C. D. Berry and Associates
737 North Michigan Avenue
Chicago 11, Illinois

In reply please refer to DMA-697

Dear Sirs:

Your application for a loan of $14,125,000 to build a mill & treatment plant, purchase mining equipment and other items for your manganese properties in the Harcuvar Mining District, Yuma County, Arizona has been carefully reviewed by the manganese committee of the Defense Minerals Administration and we regret that your application for government aid must be denied. It is not practical to apply high cost chemical metallurgy to process ore reserves less than 1,000,000 tons. Your proposal is based on ore reserves (2,000,000 tons) which we are unable to substantiate. Reserves estimated by both the Bureau of Mines and the U.S. Geological Survey are in the neighborhood of 25,000 tons. Reserves in the entire area outside of Artillery Peak are insufficient to supply an operation of this type.

Very truly yours

Director, Supply Division

Furthermore our records of ore reserves

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : P. R. Bradley DATE: March 19, 1951

FROM : Manganese Section, Geological Survey

SUBJECT: DMA-697, loan to C. D. Berry and Associates

It is recommended that the application for a loan of $14,125,000 to C. D. Berry and Associates be rejected because on general principles it is not practical to apply high cost chemical metallurgy to process ore reserves less than 1,000,000 tons. The present proposal is based on completely unrealistic estimates of ore reserves (2,000,000 tons). Actual reserves, estimated by both the Bureau of Mines and the Geological Survey are in the neighborhood of 25,000 tons. On this basis the present plant would have to be amortized at the fantastic rate of $60.00 per ton of product.

The loan is requested to purchase mining and milling equipment, reducing furnaces, leaching tanks, electrolytic equipment, and buildings. Proposed production is 265,000 tons of metallurgical grade ore per year, and 30,000 tons of metal a year from the War Eagle and War Eagle No. 1 claims in Yuma County, Arizona. Applicant states that production from these two claims may be supplemented by ore from properties that can be acquired in the general area.

The Geological Survey examined the War Eagle claims in 1944 and estimated reserves at 25,000 tons of 20 to 25 percent manganese. Reserve estimates for the War Eagle as given in the "Preliminary Report on Manganese Deposits Investigated by the Bureau of Mines", 1942, by Charles F. Jackson are 25,000 tons of 10 percent manganese which could be sorted to about 30 percent. Reserves of manganese ore in the entire area outside of Artillery Peak are insufficient to supply an operation of this type.

We are informing the applicant that his application has been denied.

MDCrittenden:gt

File Contents

DMA 697 — Manganese (Also DMA 581)
C. D. Berry and Associates
737 North Michigan Ave.
Chicago 11, Illinois
War Eagle & War Eagle No. 1, Yuma Co., Ariz.

1 — — Referral sheet
1 Copy letter acknow. application
1 letter Joe Oxenhandler to R. H. Ridgway, USBM 2/19/51
1 "Business Biography" of Berry Group
application form #146
2 Additional data on domestic manganese
2 Program for development of Domestic Manganese Deposits 11/16/50
Letter Joe Oxenhandler to S. H. Williston 1/31/51

Draft - April 9, 1951

Memorandum:

To: Landon F. Strobel, Executive Secretary, DMA

Through: Director, Supply Division

From: Manganese Commodity Committee

Subject: DMA-697
C.D. Berry and Associates
737 North Michigan Avenue
Chicago 11, Illinois

Commodity: Manganese

Name of property: War Eagle and War Eagle 1
Harcuvar Mining District
Yuma County, Arizona

The applicant has requested a loan of $14,125,000 for the purpose of developing mines and building a treatment plant for the beneficiation of manganese ores.

The application is rejected for the following reason:

1. The proposal is based on estimated reserves of 2,000,000 tons. No information has been submitted to substantiate this figure other than the opinions, hopes and assumptions of the applicant.

   The Geological Survey examined the War Eagle Claims in 1944 and arrived at estimated reserves of 25,000 tons of 20 to 25 percent manganese ore.

   This figure was earlier arrived at by the Bureau of Mines, only the grade was 10 percent which might be sorted to 30 percent. This work is set forth in detail in "Preliminary Report on Manganese Deposits Investigated by the Bureau of Mines, 1942".

Without the reserves to maintain the proposal there is no point in discussing the elaborate metallurgical setup which is described by the applicant.

Attached is a copy of letter advising applicant of the denial decision.

George B. Holderer
Acting Chief, ~~Tungston~~ Manganese Branch

Attachment

GBHolderer:mem

cc: Mr. Strobel
Mr. Lyon
Adm. Reading File
Mr. Bradley
Files Commodity Committee

Approved

Director, Supply Division

4-16-51

FILE CONTENTS

DMA 697 - Manganese (also DMA 581)

C. D. Berry and Associates

737 North Michigan Ave.

Chicago 11, Illinois

War Eagle & War Eagle No. 1, Yuma Co., Ariz.

1	-	Referral Sheet
1	-	Copy letter acknow. application
1	-	Letter Joe Oxenhandler to R.H. Ridgway, USBM - 2/19/51
1	-	"Business Biography" of Berry Group application form #146
2	-	Additional data on domestic manganese
2	-	Program for development of Domestic Manganese Deposits - 11/16/50 Letter Joe Oxenhandler to S.H. Williston - 1/31/51

C O P Y

April 16, 1951

C. D. Berry and Associates
737 North Michigan Avenue
Chicago, Illinois

In reply please refer to
DMA - 697

Gentlemen:

Your application for a loan of $14,125,000 for the purpose of developing mines and build treatment plants for the benefication of manganese ores has been considered by the Defense Minerals Administration.

Loans of this type are made against future production only when there is a reasonable assurance that reserves are sufficient to pay off the loan. Although you have estimated reserves at 2,000,000 tons, you have not furnished any sound data to substantiate this figure other than opinions.

According to the reports of examinations made by United States Geological Survey and Bureau of Mines of the War Eagle Claims in 1942 and 1944, it was estimated that reserves of 25,000 tons of 20 to 25 percent manganese ore could be realized. Based upon these known facts, we regret that your request for a loan has been denied.

It is planned to establish a Government depot at Deming, New Mexico, for the sampling and purchase of manganese ores produced in New Mexico and Arizona. As soon as definite arrangements for this depot are completed the information will be announced throughout the Southwest to allow sufficient time for producers to reopen their mines and begin shipments to this depot when it is ready. Government funds are not available for the type of program outlined in your proposal. It is hoped that funds may become available on a matching basis for exploration only and would not apply of course to the treatment of ores.

In the meantime should you have a mining program more in keeping

with the known reserves we would be glad to give you consideration to new proposal.

Yours very truly,

Director, Supply Division

GNMalcolm:ec

CC: Adm. Reading File
Mr. Lyon
Mr. Stroble
Commodity Committee
Mr. Bradley
Files

April 16, 1951

G. D. Berry and Associates
737 North Michigan Avenue
Chicago, Illinois

In reply please refer to
DMA - 697

Gentlemen:

Your application for a loan of $14,125,000 for the purpose of developing mines and build treatment plants for the beneficiation of manganese ores has been considered by the Defense Minerals Administration.

Loans of this type are made against future production only when there is a reasonable assurance that reserves are sufficient to pay off the loan. Although you have estimated reserves at 2,000,000 tons, you have not furnished any sound data to substantiate this figure other than opinions.

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In the meantime should you have a mining program more in keeping

with the known reserves we would be glad to give you consideration to new proposal.

Yours very truly,

Director, Supply Division

GHMalcolm:ec

CC: Adm. Reading File
Mr. Lyon
Mr. Stroble
~~Commodity Committee~~
Mr. Bradley
Files

COPY

April 16, 1951

Memorandum

To: Landon F. Strobel, Executive Secretary, DMA

Through: Director, Supply Division

From: Manganese Commodity Committee

Subject: DMA-697- C. D. Berry and Associates
737 North Michigan Avenue
Chicago 11, Illinois

Commodity: Manganese

Name of property: War Eagle and War Eagle I
? ? Mining District
Yuma County, Arizona

The applicant has requested a loan of $14,125,000 for the purpose of developing mines and build treatment plants for the benefication of manganese ores.

The application is rejected for the following reason:

1. The proposal is based on estimated reserves of 2,000,000 tons. No information has been submitted to substantiate this figure other than the opinions, hopes and assumptions of the applicant.

The Geological Survey examined the War Eagle Claims in 1944 and arrived at estimated reserves of 25,000 tons of 20 to 25 percent manganese ore.

This figure was earlier arrived at by the Bureau of Mines, only the grade was 10 percent which might be sorted to 30 percent. This work is set forth in detail in "Prelimihary Report on Manganese Deposits Investigated by the Bureau of Mines, 1942".

Without the reserves to maintain the proposal there is no

point in discussing the elaborate metallurgical setup which is described by the applicant.

Attached is a copy of letter advising applicant of the denial decision.

S/ George Malcolm
vcom

George N. Malcolm, Acting
Chief, Manganese Brnch

Attachment

Approved:

Director, Supply Division

GNMalcoln:ec

CC: Adm. Reading File
Mr. Lyon
Mr. Bradley
Coordinating Committee
Mr. Strobel
Files

SALOMON, HANNEGAN, PORTNOY
& ASSOCIATES
2076 RAILWAY EXCHANGE BUILDING
SAINT LOUIS 1, MISSOURI
MAIN 1263

To Files

JOE OXENHANDLER
VICE-PRESIDENT

April 2nd, 1951

Mr. R. H. Ridgway
Bureau of Mines
New Interior Bldg.
Washington 25, D. C.

Dear Mr. Ridgway:

Re: Program For The Development of
Domestic Manganese Deposits

At your suggestion, on February 21st, I sent you loan applications, etc., in connection with the above subject. You advised me when I was in your office, that the Bureau would undertake to make tests for the purpose of determining the accuracy of the representations and the nature and extent of the manganese deposits.

I called you several weeks ago, and you advised that the application was being processed, but that tests had not been made. I am wondering if you would be kind enough to let me know what the status of this matter is at present.

Hoping for a prompt reply, and with kindest regards, I am,

Sincerely yours,

Joe Oxenhandler

Joe Oxenhandler

Answered in letter of March 16th; no reply to this letter necessary

Reply in letter 4/16 — no reply necessary

FILE COPY
SURNAME:

Malcolm

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

March 7, 1951

C. D. Berry & Associates
737 North Michigan Avenue
Chicago 11, Illinois

Docket No. DMA-697

Gentlemen:

Your application dated February 23, 1951, has been received by this Branch of Defense Minerals Administration and given subject docket number.

It is now being reviewed by the U. S. Geological Survey and we should have their recommendations very shortly. Just as soon as we have all the required data for further processing we will advise you accordingly.

Yours very truly,

George B. Holderer

George B. Holderer
Acting Chief, Manganese Branch

GNMalcolm:vwm

cc - Adm. Reading File
Mr. Douglas
Mr. Strobel
Mr. Malcolm
Files

ORIGINAL LETTER RETAINED IN BRADLEY'S OFFICE

Docket 697

896

ARIZONA TESTING LABORATORIES

PHONE 3-6272 ~~823 E. WASHINGTON~~ 817 W. Madison P. O. BOX 1888 · PHOENIX

Chemists . . . Engineers

For M. A. Edgar
Phoenix
Arizona

Date January 4, 1951

Sample of Ore

Received:

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce.

Silver figured at $ 0.90 per ounce.

Lab. No.	Identification	Gold		Silver		Percentages		
		Oz. per Ton	Value	Oz. per Ton	Value	Silica	Manganese	
79862	No Mark #1					34.13	17.16	4
79863	No Mark #2					36.01	21.78	5

REGISTERED ASSAYER CERTIFICATE EXPIRES DEC. 31, 19 CLAUDE E. ARIZONA, U.S.A.

Respectfully submitted,
ARIZONA TESTING LABORATORIES

Claude E. McLean

Charges: $ 11.50 Paid 1-4-51

ARIZONA TESTING LABORATORIES
PHONE 3-6272 823 E. VAN BUREN P. O. BOX 1888 PHOENIX
Chemists ... Engineers

For: M. A. Edgar
Phoenix, Arizona

Date: December 6, 1950

Lab. No.: 79559

Sample: Ore

Marked: No Mark

Received:

Submitted by: Same

Report of Laboratory Tests

Manganese (Mn)	23.10 % 3
Silica (SiO_2)	34.25 %
Phosphorus (P)	None
Zinc (Zn)	None
Copper (Cu)	None

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 1950
ARIZONA, U.S.A.

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean

Charges $13.00 Paid

CHEMICAL • RESEARCH • ASSAY • ORE TESTING • PHYSICAL TESTING

ARIZONA TESTING LAB

PHONE 3-6272 823 E. VAN BUREN

Chemists - Engineers

For Mr. M. A. Edgar
Phoenix, Arizona

Date Sept

Sample of Ore

Received:

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $35.00 per ounce.

Silver figured at $00.90 per ounce.

Lab. No.	Identification	Gold		Silver		Percentages	
		Oz. per Ton	Value	Oz. per Ton	Value	Manganese	
78835	# 1					26.98	1
78836	# 2					32.25	2

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 19[illegible]
ARIZONA, U.S.A.

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean

Charges: $4.50 Paid

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA 697 X

Date received 7-10-51

Participation

Carl D. Berry & Associates
737 No. Michigan Avenue
Chicago 11, Illinois

Name and address of applicant

Date June 14, 1951

FILL IN THIS BLOCK

Date of application June 14, 1950

Estimated cost $15000.00

Mineral or metal Mineral

Percentage of Government participation 75%

Location of mine Bouse, Arizona

Date of filing ~~MF-100~~ NSRB-146 Feb. 17, 1951

DMA Docket Number, if available DMA-697 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 10 1951
LANDON F. STROBEL
Executive Secretary

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
X *4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
X 7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Carl D Berry & Associates
(Name of company)

By Carl D Berry
(Signature of authorized official)

June 14, 1951
(Date)

Partner
(Title)

Title 18, U. S. Code (Crimes), Section 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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Earl D. Berry & Associates
[illegible]7 N. Michigan Avenue
Chicago, Illinois

ANSWERS TO QUESTIONS ON FORM MF-103
(April,1951)

THE APPLICANT

1. Partnership

2. See answer to Question #4

3. Not applicable

4. See summary attached

5. Hold option to lease

6. Not applicable

7. See copy of original option and Amended Agreement extending the option.

   It is the intention of the applicants to obtain an additional extension of the option for six months - thus affording enough time to make the further exploration outlined in this application. We have, of course, the right at any time to exercise the option and obtain a lease with a minimum monthly payment of $200.00.

8. New project not now operating

9. $5,000.00

Carl D. Berry & Associates
73[illegible]. Michigan Avenue
Chicago, Illinois

QUESTION #4

BUSINESS EXPERIENCE OF APPLICANTS

CARL D. BERRY — 737 No. Michigan Avenue, Chicago, Illinois

Age 54

Present Employer:

Bess, Allen & Hamilton - Chicago, Illinois
Management Consultants
Position - Special consultant on merchandising and financial matters.

Past Experience:

Montgomery Ward & Co. - Chicago, Illinois
Position - Comptroller

National Belles Hess Inc. - Kansas City, Missouri
Position - President

General:

Wide experience in organizing, managing and controlling large business enterprises.

LESTER R. SABAR — 47 Salem Lane, Evanston, Illinois

Age 35

Present Employer:

Dearborn Chemical Co. - Chicago, Illinois
Position - Process Manager

Past Experience:

Bess, Allen & Hamilton - Chicago, Illinois
Position - Consulting Chemical Engineer

Corn Products Refining Co. - Chicago, Illinois
Position - Production Superintendent - Special Chemical Division

Manhattan Project
Position - Chemical Engineer - Linde Air Products

International Minerals & Chemicals Co. - Chicago, Illinois
Position - Chemical Engineer - Magnesium Division

General:

Brilliant chemical engineer. Expert in chemical plant development and the handling and treatment of minerals and related chemical products.

QUESTION #4 (Cont'd)

MILTON A. EDGAR

Box 983
Scotsdale, Arizona

Age 40

Director and one of the principal owners of Edgar Brothers, Inc., Metuchen, New Jersey. Large clay mining operators with extensive properties in the South.

General:

Wide experience in mining operations. Has lived in the West for 20 years and has extensive acquaintances and contacts in mining circles throughout that region.

GEORGE H. BEERS

Age 38

Present Employer:

Booz, Allen & Hamilton - Chicago, Illinois
Position - Associate Consultant - Field of Engineering and Industrial Management.

Past Experience:

Carnegie Illinois Steel Co. - Gary, Indiana
Position - Industrial Engineer

Aluminum Company of America - Chicago, Illinois
Position - Assistant Superintendent - Remelters

General:

Broad background in industrial organization and management, engineering. Forceful production man, gets things done.

Carl D. Berry & Associates
7[illegible] No. Michigan Avenue
Chicago, Illinois

QUESTION #7

A G R E E M E N T

THIS AGREEMENT made and entered into this 10th day of January, 1951, between CHARLES R. CURTIS, LOIS MABEL SULLIVAN, EUGENE V. CURTIS, JOHN C. CURTIS, MARION BLANCH RICHARDSON, nee Curtis, JACKSON F. CURTIS and DANIEL R. CURTIS, hereinafter called Owners and MILTON A. EDGAR and CARL D. BERRY, hereinafter called Lessees,

WITNESSETH:

That the owners for and in consideration of the sum of One Hundred Fifty ($150.00) Dollars this day paid to them by Lessees, receipt of which is hereby acknowledged, do hereby give and grant unto said Lessees, their heirs and assigns, an exclusive option to purchase within Ninety (90) days of the date hereof for the sum of Thirty Five Thousand ($35,000.00) Dollars those two certain unpatented lode mining claims known as WAR EAGLE and WAR EAGLE NO. 1, situated in the Harcuvar Mining District in Yuma County, Arizona, the location notices of which are of record in the office of the County Recorder of said Yuma County in Book 37 of Mines, at Pages 308 and 309.

That at any time within said Ninety (90) day period the Lessees shall have the right to elect to take a Lease on said mining claims for a period of Ten (10) years commencing on January 10, 1951, and ending January 10, 1961, upon the terms and conditions as follows:

A rental or royalty of Ten (10%) per cent of the current value of all the ore processed or sold at the nearest railroad point to the processing plant or the nearest railroad shipping point of crude ore sold; if the current value at any time is uncertain then it shall be the endeavor of the parties hereto to reconcile the correct values to Los Angeles delivery points. Such rental or royalty shall not be less than Two Hundred ($200.00) Dollars per month and if the current market values produce a greater royalty then such royalties shall be paid. All royalties shall be payable not later than the 15th day of each and every month for all ores processed or sold during the previous calendar month.

All work done upon said claims shall be done in a good and workmanlike manner and after the fashion of good mining and in compliance with the rules and regulations of the Office of the State Mining Inspector of Arizona.

The Lessees shall at all times, promptly pay for all claims for labor and materials furnished to them and at all times shall keep said claims and the products thereof free from any claims for labor or materials furnished to them and the Lessees shall at all times keep said claims free from any claims for injuries or for death to employees arising out of the employment of their employees and free from all claims for injuries or for death to any person or persons not trespassing upon said property.

The Lessees shall promptly insure their employees under the Workmen's Compensation Act of Arizona and shall promptly pay for the premiums therefor. The Lessees shall also take out public liability and damage insurance on all vehicles operated by them in connections with said operations.

Owners shall be entitled to, at all times, go upon said premises during reasonable working hours and inspect the workings thereof and the records kept by the Lessees including the records of shipments of processed or crude ore shipped by them and the prices received for such ores processed or sold and the Lessees shall furnish the owners copies of all surface and underground maps and diamond drill logs.

The owners of said claims are the sole heirs of the late S. J. Curtis, who by his Will demised said claims to the owners in equal portions of one-seventh undivided interest in and to said claims and they are now the sole owners under a Decree of Disbribution to said claims and the owners represent there are no encumbrances created by them or said S. J. Curtis.

At any time during the life of said Lease, the Lessees shall have the right to purchase said claims for the difference between the amounts paid in by them as rents or royalties and the sum of One Hundred Thousand ($100,000.00) Dollars.

At any time during the life of said option or said Lease and within Six (6) months thereafter, Lessees shall have the right to go upon said claims and to remove all improvements, equipment and supplies placed upon said claims by them but the owners shall not be subject to any liability whatsoever for loss of any of said improvements, equipment and supplies.

All payments herein provided for shall be made into the First National Bank of Yuma, Arizona, to the joint credit of the owners or their heirs and assigns. No owner shall assign more than his or her undivided one-seventh interest in and to said proceeds and no owner shall sell his interest except subject to the terms of this agreement and only after written notice to the Lessees.

The Lessees have the right at any time during the life of this agreement upon Thirty (30) days written notice to either said Jackson F. Curtis or Daniel R. Curtis to quit and surrender the

possession of said claims and the rights hereunder and after payment of all outstanding claims and liens and discharge of the other obligations hereunder and if the Lessees do give such notice they shall execute and deliver to the owners their QUIT CLAIM DEED to said premises.

If the Lessees fail or refuse to make said payments or to comply with any of the other terms or conditions herein imposed upon them they shall peaceably quit and surrender possession of said claims but in any event all royalties then due and unpaid shall be paid to the owners.

The annual assessment work required by law shall be performed by the Lessees and at their expense before May 1 of each year during the life of this Agreement.

No lien notices required by law shall be promptly posted by Lessees at all shafts, tunnels, adits, pits and boarding houses and said Lessees shall keep such notices so continuously posted during the life of this agreement.

All ad valorem taxes and all other taxes arising out of and sales of ores and processed ore from said claims by the Lessees shall be paid by them before they become delinquent.

This agreement shall extend to and be binding upon the heirs and assigns of the parties hereto.

IN WITNESS WHEREOF the owners and the Lessees have hereunto set their hands the day and year first above written.

CHARLES R. CURTIS,
LOIS MABEL SULLIVAN,
EUGENE V. CURTIS,
JOHN C. CURTIS,
MARION BLANCH RICHARDSON, nee CURTIS
By their Attorneys in Fact,

WITNESSES:

_____ JACKSON F. CURTIS

_____ DANIEL R. CURTIS

JACKSON F. CURTIS, Individually

DANIEL R. CURTIS, Individually
Owners.

MILTON A. EDGAR

CARL D. BARRY,
Lessees.

Carl D. Berry & Associates
[illegible] No. Michigan Avenue
Chicago, Illinois

QUESTION #7 (Cont'd)

AMENDED AGREEMENT

THIS AGREEMENT made and entered into this 14th day of February, 1951, by and between CHARLES R. CURTIS, LOIS MABEL SULLIVAN, EUGENE V. CURTIS, JOHN C. CURTIS, MARION BLANCH RICHARDSON, nee Curtis, JACKSON F. CURTIS and DANIEL R. CURTIS, hereinafter called Owners, and MILTON A. EDGAR and CARL D. BERRY, hereinafter called Lessees;

WITNESSETH:

That the parties hereto entered into an Agreement dated January 10, 1951, by the terms of which the Owners granted to the Lessees, an exclusive option to purchase, within 90 days from the date thereof, for the sum of $35,000.00 those two certain unpatented lode mining claims known as WAR EAGLE and WAR EAGLE NO. 1, situated in the Harquvar Mining District in Yuma County, Arizona, the location notices of which are of record in the office of the County Recorder of said Yuma County in Book 37 of Mines, at Pages 308 and 309, and said Agreement further provided that the Lessees should have the right to elect to take a lease on said mining claims for the period of 10 years commencing on January 10, 1951, and ending January 10, 1961, and the Lessees desire additional time in which to exercise said option and to elect to take a lease;

NOW, THEREFORE, this Agreement further WITNESSETH:

That the Lessees shall have the right to exercise the option for a payment of $35,000.00 on or before July 10, 1951 and shall also have the right until said July 10, 1951 to elect to take a lease on said claims for a period commencing on July 10, 1951 and ending July 10, 1961 upon the terms and conditions set forth in the said January 10, 1951 Agreement. Lessees agree that they will perform the assessment work prior to June 1, 1951 or forfeit their rights under the said Agreement of January 10, 1951 and this Agreement. Lessees further agree that they will furnish the Owners with all copies of assay and progress maps made by them or any Agency of the United States Government and all results of assays made by the Lessees or by said Agency.

With the exception of the changes made herein, all of the other provisions of said Agreement dated January 10, 1951 shall remain in full force and effect.

QUESTION #7 (Cont'd)

IN WITNESS WHEREOF, the Owners and the Lessees have hereunto set their hands the day and year first above written.

CHARLES R. CURTIS
LOIS MABEL SULLIVAN
EUGENE V. CURTIS
JOHN C. CURTIS
MARION BLANCH RICHARDSON, nee CURTIS
By their Attorneys in Fact

WITNESSES:

_____ JACKSON F. CURTIS

_____ DANIEL R. CURTIS

JACKSON F. CURTIS, INDIVIDUALLY

DANIEL R. CURTIS, INDIVIDUALLY

OWNERS

MILTON A. EDGAR

CARL D. BERRY

LESSEES

I, PEARL CURTIS, wife of Eugene V. Curtis do hereby approve of the foregoing Agreement and agree if I become the sole heir or devisee of Eugene V. Curtis that I am hereby bound as sole heir and devisee by the terms of the above Agreement.

PEARL CURTIS

Carl D/ Berry & Associates
73[illegible]o. Michigan Avenue
Chicago, Illinois

QUESTION #7

This is to certify that I have personally examined the original contracts and amendments thereto and that these contracts carry the signatures of the parties as indicated on the typed copies.

Carl D. Berry

STATE OF ILLINOIS

COUNTY OF COOK

Subscribed and sworn to before me this 14th day of June, 1951.

Notary Public

My Commission expires
July 16, 1952

C[illegible]l D. Berry & Associates
7[illegible] No. Michigan Avenue
Chicago, Illinois

THE PROPERTY

10. (a) Same area as "b" below

(b) This property consists of two mining claims known as War Eagle and War Eagle Number 1, situated in the Harcuvar Mining District in Yuma County, Arizona. The location notices of these claims are of record in the Office of the County Recorder of Yuma County in Book 37 of Mines on Pages 308 and 309.

11. See Question #10 above

12. The property is located 26½ miles N.E. of Bouse, Arizona. This town is the rail head for the property. The property is located on a direct road to Bouse. Fifteen miles of this road is surfaced and state maintained; eleven miles is well graded and county maintained.

13. No known water supply is available on the property. For purposes of this exploration water for drilling and camp use will be hauled.

Projected exploration will require limited power for drilling, operation of a mucking machine and a 260 cu. ft. compressor. This power will be provided from a mobile unit hauled to the property.

14. None

15. Ore to be trucked to Bouse, Arizona. The applicants have proposed in application to Defense Minerals Administration Form MSRB-146, Docket Number DMA-697 that a leaching and electrolytical plant for beneficiation of the ore be erected at Bouse.

16. (a) A limited amount of exploration work has been performed on the property. Several shallow test pits and adits have been made. In addition, a 50 ft. shaft has been sunk a little south of the center of the deposit.

(b) No known manganese properties contiguous to this property.

(c) Data requested in this sub-question has already been submitted to the Manganese Branch of the DMA and is being held in the office of Mr. George B. Holderer, acting chief of the Branch.

THE PROPERTY (Cont'd)

17. Not in production

18. Not operating

19. The size of the ore shoot is approximately 1200 ft. long with a width varying from 30 ft. to 100 ft. The known depth based on past exploration is 50 ft., with indications of considerable greater depth. The ore assays from 15% to 25% MN.

Carl D. Be.ry & Associates
7[illegible] No. Michigan Avenue
Ch.cago, Illinois

THE EXPLORATION

20. **Manganese**

21. It is proposed to conduct the exploration in two steps. Step One to be undertaken first and if the results of this work indicate that the quality of the ore pretty generally falls between the 15%-25% MN bracket, which the preliminary steps indicate, then we will proceed with Step Two.

The two steps are as follows:

Step No. 1

Excavate 20 surface trenches across the ore vein at approximately 70 ft. intervals. The size of the trenches to be 60'x 4' x 4'; average samples to be taken from each cross cut. Separate assays will be made of each sample to determine the approximate surface valuation of the ore body.

Step No. 2

Drive a 200 ft. cross cut tunnel at about 150 ft. below the surface. This cross cut to be made at about the center of the ore shoot. Size of the cross cut to be 5' x 7'.

The exploration work projected above will prove two things:

(1) Ascertain the quality of the ore
(2) Determine the approximate quantity of ore available in the deposit.

Estimated time to complete Step No. 1 - 30 Days
Estimated time to complete Step No. 2 - 60 Days

22. We submitted a report to the Manganese Branch of the DMA on May 12, 1951, outling the geological basis for the project. This report was prepared recently by the Bureau of the Mineral Resources of the State of Arizona. As extra copies of this report are not immediately available, we suggest that the above copy be referred to.

We are also submitting photostat copies of a Field Engineer's report on the property prepared on May 15, 1941. The report was likewise prepared by the Bureau of Mineral Resources of the State of Arizona.

THE EXPLORATION (Cont'd)

We are further submitting photostat copies of a report by the U.S. Bureau of Mines made on May 19, 1942, in which the quality of the ore as well as its amenability of the ore to leaching is set forth.

Carl D. Berry & Associates
737 No. Michigan Ave.
Chicago, Illinois

COPY

Question #22

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine War Eagle

Date May 15, 1941

District Harcuvar, Yuma County

Engineer Elgin B. Holt
P. O. Box 288
Kingman, Arizona.

Subject:

BRIEF REPORT

OWNER: S. J. Curtis, Bouse, Arizona.

FORMER NAME OF PROPERTY: Iron King Group.

LOCATION: The War Eagle group of 2 manganese claims, located end to end on the vein is in the Harcuvar Mining District, Yuma County, about 26 miles northwesterly from Bouse and 4 miles from the old Planet mine. All surrounding ground is vacant and open for location. The nearest shipping point is Bouse, located on the Santa Fe R. R., which is accessible by a good desert wagon or truck road.

METALS: Manganese: Wad, manganite, hematite, silica and some barite are all constituents of the ore.

TOPOGRAPHY: The deposit occurs in an area of moderate relief marked by ridges and isolated peaks, with elevations a few hundred feet above the surrounding plain, drained by washes that flow north to the Williams River.

WATER: The nearest water supply is the Williams River, 4 miles to the north, with a difference in elevation between river and mine of about 1,000 feet.

GEOLOGY: "The rocks in the vicinity consist of an older series of granite gneiss overlain by bands of limestone and amphibolite, massive limestone, and metamorphosed shales; and a younger series of sandstone, calcareous sandstone, and detritus and wash material. The older rocks are probably pre-Cambrian; the younger rocks range from late Tertiary to Pleistocene. The manganese deposit is contained in sheared rocks along a fault zone, which strikes N. 45 degrees W. and apparently dips southwest. The fault marks the contact between conglomerate and wash material on the northeast or footwall side and silicified and serpentinized limestone and quartzite breccia on the hanging wall, in which manganese minerals occur. Overlying these rocks on the hanging wall side a short distance to the southwest is red sandstone, in part calcareous, which strikes N. 60 degrees W. and dips 30 degrees southwest." (Eldred D. Wilson and G. M. Butler, Arizona Bureau of Mines Bulletin No. 127: Manganese Ore Deposits of Arizona - 1930)

MANGANESE ORE ZONE: The zone of brecciation along the fault mentioned ranges from 100 to 500 feet, and for a distance of about 2,000 feet some manganese is found in outcroppings; but the occurrance of workable manganese consists of a more or less well-defined "shoot" about 1,000 feet in length, which has been superficially explored by shallow test pits and short tunnels. At the middle of this shoot there is an exposure of manganese ore 50 feet in width, assaying more or less as follows: Mr. Curtis, owner, advised me that a number of engineers had sampled the property, obtaining results ranging from 19 to 26 per cent manganese.

Also, during January, 1941, two engineers representing the Mining Division of the U.S. Bureau of Mines, visited property and took a two ton sample which was shipped to the

Carl D. Berry & Associates
737 No. Michigan Ave.
Chicago, Illinois

Metallurgical Division of the Bureau at Salt Lake City, Utah, for testing purposes, in order to determine whether or not a ferrograde manganese concentrate could be made.

At the time this report is being prepared, the said tests have not been completed; but I received a letter from the Chief Engineer, or rather from the Acting Chief Engineer of the said Metallurgical Division stating that the two tons mentioned averaged 19.2 per cent manganese.

DEVELOPMENT WORK on property, as stated consists of shallow test pits and shallow tunnels on main ore shoot of mine; so property is now in the undeveloped state.

ORE RESERVES: There are no positive ore reserves blocked out in the mine due to the lack of development work. Engineers estimate, however, that the mine should produce around 1,000,000 tons of medium grade ore to a depth of 200 feet from surface.

PROPOSED DEVELOPMENT WORK: The following initial work is recommended: First, a crosscut tunnel, 250 feet in length should be driven in order to intersect the main ore shoot at a depth of 100 feet, at which point of intersection, drifts should be run right and left on vein, or in southeasterly and northwesterly directions. The southeasterly drift would attain a maximum depth on vein of about 200 feet and the northwesterly drift about 300 feet on vein. Once this work is carried out, raises could be put through to the surface at intervals and mining started either by shrinkage or by glory hole methods.

REMARKS: This property is recommended for investigation by any individual or company looking for a large low-grade manganese mine, with large reserves of ore indicated, with a view to installing a proper beneficiating plant, so designed to produce a marketable ferrograde product. Apply for terms.

(SIGNED) Elgin B. Holt,
Field Engineer.

Carl D. Perry & Associates
537 No. Michigan Avenue
Chicago, Illinois

QUESTION #22

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

METALLURGICAL DIVISION — INTERMOUNTAIN EXPERIMENT STATION — SALT LAKE CITY, UTAH

May 19, 1942

DEPT. MINERAL RESOURCES
MAY
PHOENIX

Mr. J. S. Coupal, Director
Department of Mineral Resources
413 Home Builders Building
Phoenix, Arizona

Dear Mr. Coupal:

Your letter of May 8, regarding the amenability of the War Eagle Ore to either the SO_2 or NO_2 leaching processes has been referred to me for reply.

We have conducted a number of leaching tests on a sample of ore which was obtained by the Mining Division of the United States Bureau of Mines. The ore had the following analysis:

Mn	SiO_2	Insol.	Fe	CaO	P	MgO	Al_2O_3	Ba
19.2	20.5	28.0	22.6	1.4	0.008	0.3	2.8	5.5

The tests that were made on this particular sample indicated that at least 90 percent of the Mn can be extracted by the SO_2 leaching method used here at the Bureau of Mines in which air is introduced along with the SO_2 to produce the sulfuric acid necessary for dissolving any MnO present. We have not carried out any experiments using NO_2 on this ore.

Yours very truly,

C. Travis Anderson

C. Travis Anderson
Senior Metallurgist

Carl D. Berry & Associates
73[illegible] No. Michigan Avenue
Chicago, Illinois

TIME REQUIREMENTS and COSTS

23. The exploration work outlined in this application will be contracted with a local contractor. Photostat copies of his firm estimates for the two phases of the project are attached.

A summary of the projected cost of the project is as follows:

Step No. 1	$3775.00
Step No. 2	
200 ft. @ $42.00 feet	$400.00
Assay work and miscellaneous expenses	$225.00
Total	$15000.00

24. Step No. 1 can be started within one week after project is approved, and can be completed within 30 days thereafter. As Step No. 1 progresses average samples of the ore will be forwarded to the University of Arizona for assaying. The assay work will thus follow closely behind the trenching on the ore body. At the completion of the trenching the results of the tests will be presented to the Manganese Branch of the DMA.

On consultation with the staff members of that branch, decision will then be made to proceed with Step No. 2.

Step No. 2 will require approximately 60 days to complete after the decision is made to proceed with this phase of the work.

Atlas Explosives

QUESTION #23

CARL D.BERRY & ASSOCIATES
737 No.Mich Ave.
Chicago Ill

D. W. JAQUAYS & CO.
MINING & CONTRACTORS EQUIPMENT
1219 SOUTH 19th AVENUE
PHOENIX, ARIZONA

Estimate on Driving 200 feet of
5' X 7' Crosscut on Edgar Manganese Property Bouse, Arizona

Excavating for portal and clean up of tunnel site	$700.00
Timber on Portal	$300.00
Lump sum bid on Portal and clean up -----	$1000.00

Drifting

Labor 4 men (2 Shifts) @ $15.00/ day-------	$60.00
Insurance and O.A. B. 15% X 60.00	9.00
Compressor Rental and fuel	15.00
Drills and accessary equipment	10.00
Bits and steel	10.00
Explosives and caps	18.00
Rental on Mucking machine	7.00
Rental on mine cars	1.00
Cost per day ----------	$130.00

Advance 7 feet per 2 shifts or $18.55/ foot Labor and supply costs

Misc. costs

Supervision	$2.00 / foot	
Truck Service	4.00 "	
Rail laid	1.50 "	
Pipe Laid	0.75 "	
Move-in and out	2.00 "	
	10.25 / Foot	18.55
		10.25
Total base charge per foot of drift		$28.80
Plus 20% profit and misc. expenses		6.00
Total costs per foot of raw drift		$34.80
Estimated costs on driven timbered drifts $8.00/ foot for timber		$42.00

Signed D. W. Jaquays
D. W. Jaquays Contractor

Atlas Explosives

QUESTION #23

CARL D.BERRY & ASSOCIATES
737 No.Mich.Ave.
Chicago Ill

D. W. JAQUAYS & CO.
MINING & CONTRACTORS EQUIPMENT
1219 SOUTH 19th AVENUE
PHOENIX, ARIZONA

Estimate on Excavation of
20 - 60' X 4' X 4' Trenchs
Edgar Manganese Property Bouse, Arizona

Drilling and blasting equipment and labor Includes 1 - 105 C.F.M. Compressor, Jackhammer Fuel, Labor and 1 Pickup truck	$100.00/ days X 20--	$2000.00
Hand mucking dirt trenchs	Labor	600.00
Bulldozer work on deep dirt trenchs	7 days @ $100.00	700.00
Explosives and electric caps		275.00
Move-in and out		200.00
	Total ----------	$3775.00

Signed D. W. Jaquays
D. W. Jaquays Contractor

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA 697 X

Date received 7-10-51

Participation

Carl D. Berry & Associates
737 No. Michigan Avenue
Chicago 11, Illinois

Name and address of applicant

Date June 14, 1951

FILL IN THIS BLOCK

Date of application June 14, 1950

Estimated cost $15,000.00

Mineral or metal Mineral

Percentage of Government participation 75%

Location of mine Bouse, Arizona

Date of filing ~~MF-100~~ NSRB-146 Feb. 17, 1951

DMA Docket Number, if available DMA-697 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 10 1951
LANDON F. STROBEL
Executive Secretary

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
X *4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
X 7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Carl D. Berry & Associates
(Name of company)

By Carl D. Berry
(Signature of authorized official)

June 14, 1951
(Date)

Partner
(Title)

Title 18, U. S. Code (Crimes), Section 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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Carl D. Perry & Associates
73[illegible]N. Michigan Avenue
Chicago, Illinois

ANSWERS TO QUESTIONS ON FORM MF-103
(April,1951)

THE APPLICANT

1. Partnership

2. See answer to Question #4

3. Not applicable

4. See summary attached

5. Hold option to lease

6. Not applicable

7. See copy of original option and Amended Agreement extending the option.

   It is the intention of the applicants to obtain an additional extension of the option for six months - thus affording enough time to make the further exploration outlined in this application. We have, of course, the right at any time to exercise the option and obtain a lease with a minimum monthly payment of $200.00.

8. New project not now operating

9. $5,000.00

Carl D. Berry & Associates
737 No. Michigan Avenue
Chicago, Illinois

QUESTION #4

BUSINESS EXPERIENCE OF APPLICANTS

CARL D. BERRY
Age 54

737 No. Michigan Avenue
Chicago, Illinois

Present Employer:

Booz, Allen & Hamilton - Chicago, Illinois
Management Consultants
Position - Special consultant on merchandising and financial matters.

Past Experience:

Montgomery Ward & Co. - Chicago, Illinois
Position - Comptroller

National Bellas Hess Inc. - Kansas City, Missouri
Position - President

General:

Wide experience in organizing, managing and controlling large business enterprises.

LESTER R. SAGAR
Age 35

47 Salem Lane
Evanston, Illinois

Present Employer:

Dearborn Chemical Co. - Chicago, Illinois
Position - Process Manager

Past Experience:

Booz, Allen & Hamilton - Chicago, Illinois
Position - Consulting Chemical Engineer

Corn Products Refining Co. - Chicago, Illinois
Position - Production Superintendent - Special Chemical Division

Manhattan Project
Position - Chemical Engineer - Linde Air Products

International Minerals & Chemicals Co. - Chicago, Illinois
Position - Chemical Engineer - Magnesium Division

General:

Brilliant chemical engineer. Expert in chemical plant development and the handling and treatment of minerals and related chemical products.

QUESTION #4 (Cont'd)

MILTON A. EDGAR

Box 983
Scotsdale, Arizona

Age 40

Director and one of the principal owners of Edgar Brothers, Inc., Metuchen, New Jersey. Large clay mining operators with extensive properties in the South.

General:

Wide experience in mining operations. Has lived in the West for 20 years and has extensive acquaintances and contacts in mining circles throughout that region.

GEORGE H. BEERS

Age 38

Present Employer:

Booz, Allen & Hamilton - Chicago, Illinois
Position - Associate Consultant - Field of Engineering and Industrial Management.

Past Experience:

Carnegie Illinois Steel Co. - Gary, Indiana
Position - Industrial Engineer

Aluminum Company of America - Chicago, Illinois
Position - Assistant Superintendent - Remelters

General:

Broad background in industrial organization and management, engineering. Forceful production man, gets things done.

Carl D. Berry & Associates
737[illegible]. Michigan Avenue
Chicago, Illinois

QUESTION #7

A G R E E M E N T

THIS AGREEMENT made and entered into this 10th day of January, 1951, between CHARLES R. CURTIS, LOIS MABEL SULLIVAN, EUGENE V. CURTIS, JOHN C. CURTIS, MARION BLANCH RICHARDSON, nee Curtis, JACKSON F. CURTIS and DANIEL R. CURTIS, hereinafter called Owners and MILTON A. EDGAR and CARL D. BERRY, hereinafter called Lessees,

WITNESSETH:

That the owners for and in consideration of the sum of One Hundred Fifty ($150.00) Dollars this day paid to them by Lessees, receipt of which is hereby acknowledged, do hereby give and grant unto said Lessees, their heirs and assigns, an exclusive option to purchase within Ninety (90) days of the date hereof for the sum of Thirty Five Thousand ($35,000.00) Dollars those two certain unpatented lode mining claims known as WAR EAGLE and WAR EAGLE NO. 1, situated in the Harcuvar Mining District in Yuma County, Arizona, the location notices of which are of record in the office of the County Recorder of said Yuma County in Book 37 of Mines, at Pages 308 and 309.

That at any time within said Ninety (90) day period the Lessess shall have the right to elect to take a Lease on said mining claims for a period of Ten (10) years commencing on January 10, 1951, and ending January 10, 1961, upon the terms and conditions as follows:

A rental or royalty of Ten (10%) per cent of the current value of all the ore processed or sold at the nearest railroad point to the processing plant or the nearest railroad shipping point of crude ore sold; if the current value at any time is uncertain then it shall be the endeavor of the parties hereto to reconcile the correct values to Los Angeles delivery points. Such rental or royalty shall not be less than Two Hundred ($200.00) Dollars per month and if the current market values produce a greater royalty then such royalties shall be paid. All royalties shall be payable not later than the 15th day of each and every month for all ores processed or sold during the previous calendar month.

All work done upon said claims shall be done in a good and workmanlike manner and after the fashion of good mining and in compliance with the rules and regulations of the Office of the State Mining Inspector of Arizona.

The Lessees shall at all times, promptly pay for all claims for labor and materials furnished to them and at all times shall keep said claims and the products thereof free from any claims for labor or materials furnished to them and the Lessees shall at all times keep said claims free from any claims for injuries or for death to employees arising out of the employment of their employees and free from all claims for injuries or for death to any person or persons not trespassing upon said property.

The Lessees shall promptly insure their employees under the Workmen's Compensation Act of Arizona and shall promptly pay for the premiums therefor. The Lessees shall also take out public liability and damage insurance on all vehicles operated by them in connections with said operations.

Owners shall be entitled to, at all times, go upon said premises during reasonable working hours and inspect the workings thereof and the records kept by the Lessees including the records of shipments of processed or crude ore shipped by them and the prices received for such ores processed or sold and the Lessees shall furnish the owners copies of all surface and underground maps and diamond drill logs.

The owners of said claims are the sole heirs of the late S. J. Curtis, who by his Will demised said claims to the owners in equal portions of one-seventh undivided interest in and to said claims and they are now the sole owners under a Decree of Disbribution to said claims and the owners represent there are no encumbrances created by them or said S. J. Curtis.

At any time during the life of said Lease, the Lessees shall have the right to purchase said claims for the difference between the amounts paid in by them as rents or royalties and the sum of One Hundred Thousand ($100,000.00) Dollars.

At any time during the life of said option or said Lease and within Six (6) months thereafter, Lessees shall have the right to go upon said claims and to remove all improvements, euqipment and supplies placed upon said claims by them but the owners shall not be subject to any liability whatsoever for loss of any of said improvements, equipment and supplies.

All payments herein provided for shall be made into the First National Bank of Yuma, Arizona, to the joint credit of the owners or their heirs and assigns. No owner shall assign more than his or her undivided one-seventh interest in and to said proceeds and no owner shall sell his interest except subject to the terms of this agreement and only after written notice to the Lessees.

The Lessees have the right at any time during the life of this agreement upon Thirty (30) days written notice to either said Jackson F. Curtis or Daniel R. Curtis to quit and surrender the

possession of said claims and the rights hereunder and after payment of all outstanding claims and liens and discharge of the other obligations hereunder and if the Lessees do give such notice they shall execute and deliver to the owners their QUIT CLAIM DEED to said premises.

If the Lessees fail or refuse to make said payments or to comply with any of the other terms or conditions herein imposed upon them they shall peaceably quit and surrender possession of said claims but in any event all royalties then due and unpaid shall be paid to the owners.

The annual assesssment work required by law shall be performed by the Lessees and at their expense before May 1 of each year during the life of this Agreement.

No lien notices required by law shall be promptly posted by Lessees at all shafts, tunnels, adits, pits and boarding houses and said Lessees shall keep such notices so continuously posted during the life of this agreement.

All ad valorem taxes and all other taxes arising out of and sales of ores and processed ore from said claims by the Lessees shall be paid by them before they become delinquent.

This agreement shall extend to and be binding upon the heirs and assigns of the parties hereto.

IN WITNESS WHEREOF the owners and the Lessees have hereunto set their hands the day and year first above written.

CHARLES R. CURTIS,
LOIS MABEL SULLIVAN,
EUGENE V. CURTIS,
JOHN C. CURTIS,
MARION BLANCH RICHARDSON, nee CURTIS
By their Attorneys in Fact,

WITNESSES:

_____ JACKSON F. CURTIS

_____ DANIEL R. CURTIS

JACKSON F. CURTIS, Individually

DANIEL R. CURTIS, Individually
Owners.

MILTON A. EDGAR

CARL D. BARRY,
Lessees.

QUESTION #7 (Cont'd)

I, PEARL CURTIS, wife of Eugene V. Curtis do hereby approve of the foregoing Agreement and agree if I become the sole heir or devisee of Eugene V. Curtis that I am hereby bound as sole heir and devisee by the terms of the above agreement.

PEARL CURTIS

Carl D. Berry & Associates
737 No. Michigan Avenue
Chicago, Illinois

QUESTION #7 (Cont'd)

AMENDED AGREEMENT

THIS AGREEMENT made and entered into this 14th day of February, 1951, by and between CHARLES R. CURTIS, LOIS MABEL SULLIVAN, EUGENE V. CURTIS, JOHN C. CURTIS, MARION BLANCH RICHARDSON, nee Curtis, JACKSON F. CURTIS and DANIEL R. CURTIS, hereinafter called Owners, and MILTON A. EDGAR and CARL D. BERRY, hereinafter called Lessees;

WITNESSETH:

That the parties hereto entered into an Agreement dated January 10, 1951, by the terms of which the Owners granted to the Lessees, an exclusive option to purchase, within 90 days from the date thereof, for the sum of $35,000.00 those two certain unpatented lode mining claims known as WAR EAGLE and WAR EAGLE NO. 1, situated in the Harcuvar Mining District in Yuma County, Arizona, the location notices of which are of record in the office of the County Recorder of said Yuma County in Book 37 of Mines, at Pages 308 and 309, and said Agreement further provided that the Lessees should have the right to elect to take a lease on said mining claims for the period of 10 years commencing on January 10, 1951, and ending January 10, 1961, and the Lessees desire additional time in which to exercise said option and to elect to take a lease;

NOW, THEREFORE, this Agreement further WITNESSETH:

That the Lessees shall have the right to exercise the option for a payment of $35,000.00 on or before July 10, 1951 and shall also have the right until said July 10, 1951 to elect to take a lease on said claims for a period commencing on July 10, 1951 and ending July 10, 1961 upon the terms and conditions set forth in the said January 10, 1951 Agreement. Lessees agree that they will perform the assessment work prior to June 1, 1951 or forfeit their rights under the said Agreement of January 10, 1951 and this Agreement. Lessees further agree that they will furnish the Owners with all copies of assay and progress maps made by them or any Agency of the United States Government and all results of assays made by the Lessees or by said Agency.

With the exception of the changes made herein, all of the other provisions of said Agreement dated January 10, 1951 shall remain in full force and effect.

QUESTION #7 (Cont'd)

IN WITNESS WHEREOF, the Owners and the Lessees have hereunto set their hands the day and year first above written.

CHARLES R. CURTIS
LOIS MABEL SULLIVAN
EUGENE V. CURTIS
JOHN C. CURTIS
MARION BLANCH RICHARDSON, nee CURTIS
By their Attorneys in Fact

WITNESSES:

_____ JACKSON F. CURTIS

_____ DANIEL R. CURTIS

JACKSON F. CURTIS, INDIVIDUALLY

DANIEL R. CURTIS, INDIVIDUALLY

OWNERS

MILTON A. EDGAR

CARL D. BERRY

LESSEES

I, PEARL CURTIS, wife of Eugene V. Curtis do hereby approve of the foregoing Agreement and agree if I become the sole heir or devisee of Eugene V. Curtis that I am hereby bound as sole heir and devisee by the terms of the above Agreement.

PEARL CURTIS

Carl D. Berry & Associates
737 N. Michigan Avenue
Chicago, Illinois

QUESTION #7

This is to certify that I have personally examined the original contracts and amendments thereto and that these contracts carry the signatures of the parties as indicated on the typed copies.

Carl D. Berry

Carl D. Berry

STATE OF ILLINOIS

COUNTY OF COOK

Subscribed and sworn to before me this 14th day of June, 1951.

Lucian E. Bigler

Notary Public

My Commission expires
July 16, 1952

Carl D. Berry & Associates
737 N. Michigan Avenue
Chicago, Illinois

THE PROPERTY

10. (a) Same area as "b" below

(b) This property consists of two mining claims known as War Eagle and War Eagle Number 1, situated in the Harcuvar Mining District in Yuma County, Arizona. The location notices of these claims are of record in the Office of the County Recorder of Yuma County in Book 37 of Mines on Pages 308 and 309.

11. See Question #10 above

12. The property is located 26½ miles N.E. of Bouse, Arizona. This town is the rail head for the property. The property is located on a direct road to Bouse. Fifteen miles of this road is surfaced and state maintained; eleven miles is well graded and county maintained.

13. No known water supply is available on the property. For purposes of this exploration water for drilling and camp use will be hauled.

Projected exploration will require limited power for drilling, operation of a mucking machine and a 260 cu. ft. compressor. This power will be provided from a mobile unit hauled to the property.

14. None

15. Ore to be trucked to Bouse, Arizona. The applicants have proposed in application to Defense Minerals Administration Form NSRB-146, Docket Number DMA-697 that a leaching and electrolytical plant for beneficiation of the ore be erected at Bouse.

16. (a) A limited amount of exploration work has been performed on the property. Several shallow test pits and adits have been made. In addition, a 50 ft. shaft has been sunk a little south of the center of the deposit.

(b) No known manganese properties contiguous to this property.

(c) Data requested in this sub-question has already been submitted to the Manganese Branch of the DMA and is being held in the office of Mr. George B. Holderer, acting chief of the Branch.

THE PROPERTY (Cont'd)

17. Not in production

18. Not operating

19. The size of the ore shoot is approximately 1200 ft. long with a width varying from 30 ft. to 100 ft. The known depth based on past exploration is 50 ft., with indications of considerable greater depth. The ore assays from 15% to 25% MN.

Carl D. Berry & Associates
737 No. Michigan Avenue
Chicago, Illinois

THE EXPLORATION

20. Manganese

21. It is proposed to conduct the exploration in two steps. Step One to be undertaken first and if the results of this work indicate that the quality of the ore pretty generally falls between the 15%-25% MN bracket, which the preliminary steps indicate, then we will proceed with Step Two.

The two steps are as follows:

Step No. 1

Excavate 20 surface trenches across the ore vein at approximately 70 ft. intervals. The size of the trenches to be 60'x 4' x 4': average samples to be taken from each cross cut. Separate assays will be made of each sample to determine the approximate surface valuation of the ore body.

Step No. 2

Drive a 200 ft. cross cut tunnel at about 150 ft. below the surface. This cross cut to be made at about the center of the ore shoot. Size of the cross cut to be 5' x 7'.

The exploration work projected above will prove two things:

(1) Ascertain the quality of the ore
(2) Determine the approximate quantity of ore available in the deposit.

Estimated time to complete Step No. 1 - 30 Days
Estimated time to complete Step No. 2 - 60 Days

22. We submitted a report to the Manganese Branch of the DMA on May 12, 1951, outling the geological basis for the project. This report was prepared recently by the Bureau of the Mineral Resources of the State of Arizona. As extra copies of this report are not immediately available, we suggest that the above copy be referred to.

We are also submitting photostat copies of a Field Engineer's report on the property prepared on May 15, 1941. The report was likewise prepared by the Bureau of Mineral Resources of the State of Arizona.

THE EXPLORATION (Cont'd)

We are further submitting photostat copies of a report by the U.S. Bureau of Mines made on May 19, 1942, in which the quality of the ore as well as its amenability of the ore to leaching is set forth.

Carl D. Berry & Associates
737 Michigan Ave.
Chicago, Illinois

COPY

Question #22

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine War Eagle — Date May 15, 1941

District Harcuvar, Yuma County — Engineer Elgin B. Holt, P. O. Box 288, Kingman, Arizona.

Subject:

BRIEF REPORT

OWNER: S. J. Curtis, Bouse, Arizona.

FORMER NAME OF PROPERTY: Iron King Group.

LOCATION: The War Eagle group of 2 manganese claims, located end to end on the vein is in the Harcuvar Mining District, Yuma County, about 26 miles northwesterly from Bouse and 4 miles from the old Planet mine. All surrounding ground is vacant and open for location. The nearest shipping point is Bouse, located on the Santa Fe R. R., which is accessible by a good desert wagon or truck road.

METALS: Manganese: Wad, manganite, hematite, silica and some barite are all constituents of the ore.

TOPOGRAPHY: The deposit occurs in an area of moderate relief marked by ridges and isolated peaks, with elevations a few hundred feet above the surrounding plain, drained by washes that flow north to the Williams River.

WATER: The nearest water supply is the Williams River, 4 miles to the north, with a difference in elevation between river and mine of about 1,000 feet.

GEOLOGY: "The rocks in the vicinity consist of an older series of granite gneiss overlain by bands of limestone and amphibolite, massive limestone, and metamorphosed shales; and a younger series of sandstone, calcareous sandstone, and detritus and wash material. The older rocks are probably pre-Cambrian; the younger rocks range from late Tertiary to Pleistocene. The manganese deposit is contained in sheared rocks along a fault zone, which strikes N. 45 degrees W. and apparently dips southwest. The fault marks the contact between conglomerate and wash material on the northeast or footwall side and silicified and serpentinized limestone and quartzite breccia on the hanging wall, in which manganese minerals occur. Overlying these rocks on the hanging wall side a short distance to the southwest is red sandstone, in part calcareous, which strikes N. 60 degrees W. and dips 30 degrees southwest." (Eldred D. Wilson and G. M. Butler, Arizona Bureau of Mines Bulletin No. 127: Manganese Ore Deposits of Arizona - 1930)

MANGANESE ORE ZONE: The zone of brecciation along the fault mentioned ranges from 100 to 500 feet, and for a distance of about 2,000 feet some manganese is found in outcroppings; but the occurrance of workable manganese consists of a more or less well-defined "shoot" about 1,000 feet in length, which has been superficially explored by shallow test pits and short tunnels. At the middle of this shoot there is an exposure of manganese ore 50 feet in width, assaying more or less as follows: Mr. Curtis, owner, advised me that a number of engineers had sampled the property, obtaining results ranging from 19 to 26 per cent manganese.

Also, during January, 1941, two engineers representing the Mining Division of the U.S. Bureau of Mines, visited property and took a two ton sample which was shipped to the

Carl D. Bo[illegible] & Associates
[illegible] No. Michigan Ave.
Chicago, Illinois

Question #22

Metallurgical Division of the Bureau at Salt Lake City, Utah, for testing purposes, in order to determine whether or not a ferrograde manganese concentrate could be made.

At the time this report is being prepared, the said tests have not been completed; but I received a letter from the Chief Engineer, or rather from the Acting Chief Engineer of the said Metallurgical Division stating that the two tons mentioned averaged 19.2 per cent manganese.

DEVELOPMENT WORK on property, as stated consists of shallow test pits and shallow tunnels on main ore shoot of mine; so property is now in the undeveloped state.

ORE RESERVES: There are no positive ore reserves blocked out in the mine due to the lack of development work. Engineers estimate, however, that the mine should produce around 1,000,000 tons of medium grade ore to a depth of 200 feet from surface.

PROPOSED DEVELOPMENT WORK: The following initial work is recommended: First, a crosscut tunnel, 250 feet in length should be driven in order to intersect the main ore shoot at a depth of 100 feet, at which point of intersection, drifts should be run right and left on vein, or in southeasterly and northwesterly directions. The southeasterly drift would attain a maximum depth on vein of about 200 feet and the northwesterly drift about 300 feet on vein. Once this work is carried out, raises could be put through to the surface at intervals and mining started either by shrinkage or by glory hole methods.

REMARKS: This property is recommended for investigation by any individual or company looking for a large low-grade manganese mine, with large reserves of ore indicated, with a view to installing a proper beneficiating plant, so designed to produce a marketable ferrograde product. Apply for terms.

(SIGNED) Elgin B. Holt,
Field Engineer.

Carl D. Berry & Associates
737 No. Michigan Avenue
Chicago, Illinois

QUESTION #22

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

METALLURGICAL DIVISION — INTERMOUNTAIN EXPERIMENT STATION — SALT LAKE CITY, UTAH

May 19, 1942

DEPT. MINERAL RESOURCES
MAY 21 1942
PHOENIX

Mr. J. S. Coupal, Director
Department of Mineral Resources
413 Home Builders Building
Phoenix, Arizona

Dear Mr. Coupal:

Your letter of May 8, regarding the amenability of the War Eagle Ore to either the SO_2 or NO_2 leaching processes has been referred to me for reply.

We have conducted a number of leaching tests on a sample of ore which was obtained by the Mining Division of the United States Bureau of Mines. The ore had the following analysis:

Mn	SiO_2	Insol.	Fe	CaO	P	MgO	Al_2O_3	Ba
19.2	20.5	28.0	22.6	1.4	0.008	0.3	2.8	5.5

The tests that were made on this particular sample indicated that at least 90 percent of the Mn can be extracted by the SO_2 leaching method used here at the Bureau of Mines in which air is introduced along with the SO_2 to produce the sulfuric acid necessary for dissolving any MnC present. ~~We have not carried out any experiments~~ using NO_2 on this ore.

Yours very truly,

C. Travis Anderson

C. Travis Anderson
Senior Metallurgist

Carl D. Berry & Associates
737 N. Michigan Avenue
Chicago, Illinois

THE REQUIREMENTS and COSTS

23. The exploration work outlined in this application will be contracted with a local contractor. Photostat copies of his firm estimates for the two phases of the project are attached.

A summary of the projected cost of the project is as follows:

Step No. 1	$3775.00
Step No. 2	
200 ft. @ $42.00 foot	8400.00
Assay work and miscellaneous expenses	2225.00
Total	$15000.00

24. Step No. 1 can be started within one week after project is approved, and can be completed within 30 days thereafter. As Step No. 1 progresses average samples of the ore will be forwarded to the University of Arizona for assaying. The assay work will thus follow closely behind the trenching on the ore body. At the completion of the trenching the results of the tests will be presented to the Manganese Branch of the DMA.

On consultation with the staff members of that branch, decision will then be made to proceed with Step No. 2.

Step No. 2 will require approximately 60 days to complete after the decision is made to proceed with this phase of the work.

Atlas Explosives

QUESTION #23

CARL D[illegible]ERRY & ASSOCIATES
737 No.Mich Ave.
Chicago Ill

D. W. JAQUAYS & CO.
MINING & CONTRACTORS EQUIPMENT
1219 SOUTH 19th AVENUE
PHOENIX, ARIZONA

Estimate on Driving 200 feet of
5' X 7' Crosscut on Edgar Manganese Property Bouse, Arizona

Excavating for portal and clean up of tunnel site	$700.00
Timber on Portal	$300.00
Lump sum bid on Portal and clean up -----	$1000.00

Drifting

Labor 4 men (2 Shifts) @ $15.00/ day-------	$60.00
Insurance and O.A. B. 15% X 60.00	9.00
Compressor Rental and fuel	15.00
Drills and accessary equipment	10.00
Bits and steel	10.00
Explosives and caps	18.00
Rental on Mucking machine	7.00
Rental on mine cars	1.00
Cost per day ----------	$130.00

Advance 7 feet per 2 shifts or $18.55/ foot Labor and supply costs

Misc. costs

Supervision	$2.00 / foot		
Truck Service	4.00	"	
Rail laid	1.50	"	
Pipe Laid	0.75	"	
Move-in and out	2.00	"	
	10.25 /	Foot	18.55
			10.25
Total base charge per foot of drift			$28.80
Plus 20% profit and misc. expenses			6.00
Total costs per foot of raw drift			$34.80
Estimated costs on driven timbered drifts $8.00/ foot for timber			$42.00

Signed D. W. Jaquays
D. W. Jaquays Contractor

Atlas Explosives

QUESTION #23

CARL D.BERRY & ASSOCIATES
737 No.Mich.Ave.
Chicago Ill

D. W. JAQUAYS & CO.

MINING & CONTRACTORS EQUIPMENT
1219 SOUTH 19th AVENUE
PHOENIX, ARIZONA

Estimate on Excavation of
20 - 60' X 4' X 4' Trenchs
Edgar Manganese Property Bouse, Arizona

Drilling and blasting equipment and labor Includes 1 - 105 C.F.M. Compressor, Jackhammer Fuel, Labor and 1 Pickup truck	$100.00/ days X 20--	$2000.00
Hand mucking dirt trenchs	Labor	600.00
Bulldozer work on deep dirt trenchs	7 days @ $100.00	700.00
Explosives and electric caps		275.00
Move-in and out		200.00
	Total ----------	$3775.00

Signed D. W. Jaquays
D. W. Jaquays Contractor

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA 697 X

Date received 7-10-51

Participation

Carl D. Berry & Associates
737 No. Michigan Avenue
Chicago 11, Illinois

Name and address of applicant

Date June 14, 1951

FILL IN THIS BLOCK

Date of application June 14, 1950

Estimated cost $15000.00

Mineral or metal Mineral

Percentage of Government participation 75%

Location of mine Douse, Arizona

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 10 1951
LANDON F. STROBEL
Executive Secretary

Date of filing MSRB-146 Feb. 17, 1951

DMA Docket Number, if available DMA-697 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
x*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
x 7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Carl D. Berry & Associates (Name of company) By Carl D. Berry (Signature of authorized official)

June 14 - 1951 (Date) Partner. (Title)

Title 18, U. S. Code (Crimes), Section 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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Carl D. Berry & Associates
73[illegible] N. Michigan Avenue
Chicago, Illinois

ANSWERS TO QUESTIONS ON FORM MF-103
(April,1951)

THE APPLICANT

1. Partnership

2. See answer to Question #4

3. Not applicable

4. See summary attached

5. Hold option to lease

6. Not applicable

7. See copy of original option and Amended Agreement extending the option.

   It is the intention of the applicants to obtain an additional extension of the option for six months - thus affording enough time to make the further exploration outlined in this application. We have, of course, the right at any time to exercise the option and obtain a lease with a minimum monthly payment of $200.00.

8. New project not now operating

9. $5,000.00

Carl D. B ry & A
737 o. Michigan Avenue
Chi go, Illinois

QUESTION #4

BUSINESS EXPERIENCE OF APPLICANTS

CARL D. BERRY
Age 54

737 No. Michigan Avenue
Chicago, Illinois

Present Employer:

Booz, Allen & Hamilton - Chicago, Illinois
Management Consultants
Position - Special consultant on merchandising and financial matters.

Past Experience:

Montgomery Ward & Co. - Chicago, Illinois
Position - Comptroller

National Bellas Hess Inc. - Kansas City, Missouri
Position - President

General:

Wide experience in organising, managing and controlling large business enterprises.

LESTER R. SAGAR
Age 35

47 Salem Lane
Evanston, Illinois

Present Employer:

Dearborn Chemical Co. - Chicago, Illinois
Position - Process Manager

Past Experience:

Booz, Allen & Hamilton - Chicago, Illinois
Position - Consulting Chemical Engineer

Corn Products Refining Co. - Chicago, Illinois
Position - Production Superintendent - Special Chemical Division

Manhattan Project
Position - Chemical Engineer - Linde Air Products

International Minerals & Chemicals Co. - Chicago, Illinois
Position - Chemical Engineer - Magnesium Division

General:

Brilliant chemical engineer. Expert in chemical plant development and the handling and treatment of minerals and related chemical products.

QUESTION #4 (Cont'd)

MILTON A. EDGAR

Box 983
Scotsdale, Arizona

Age 40

Director and one of the principal owners of Edgar Brothers, Inc., Metuchen, New Jersey. Large clay mining operators with extensive properties in the South.

General:

Wide experience in mining operations. Has lived in the West for 20 years and has extensive acquaintances and contacts in mining circles throughout that region.

GEORGE H. BEERS

Age 38

Present Employer:

Booz, Allen & Hamilton - Chicago, Illinois
Position - Associate Consultant - Field of Engineering and Industrial Management.

Past Experience:

Carnegie Illinois Steel Co. - Gary, Indiana
Position - Industrial Engineer

Aluminum Company of America - Chicago, Illinois
Position - Assistant Superintendent - Remelters

General:

Broad background in industrial organization and management, engineering. Forceful production man, gets things done.

Carl D. Berry & Associates
737 No. Michigan Avenue
Chicago, Illinois

QUESTION #7

A G R E E M E N T

THIS AGREEMENT made and entered into this 10th day of January, 1951, between CHARLES R. CURTIS, LOIS MABEL SULLIVAN, EUGENE V. CURTIS, JOHN C. CURTIS, MARION BLANCH RICHARDSON, nee Curtis, JACKSON F. CURTIS and DANIEL R. CURTIS, hereinafter called Owners and MILTON A. EDGAR and CARL D. BERRY, hereinafter called Lessees,

WITNESSETH:

That the owners for and in consideration of the sum of One Hundred Fifty ($150.00) Dollars this day paid to them by Lessees, receipt of which is hereby acknowledged, do hereby give and grant unto said Lessees, their heirs and assigns, an exclusive option to purchase within Ninety (90) days of the date hereof for the sum of Thirty Five Thousand ($35,000.00) Dollars those two certain unpatented lode mining claims known as WAR EAGLE and WAR EAGLE NO. 1, situated in the Harcuvar Mining District in Yuma County, Arizona, the location notices of which are of record in the office of the County Recorder of said Yuma County in Book 37 of Mines, at Pages 308 and 309.

That at any time within said Ninety (90) day period the Lessees shall have the right to elect to take a Lease on said mining claims for a period of Ten (10) years commencing on January 10, 1951, and ending January 10, 1961, upon the terms and conditions as follows:

A rental or royalty of Ten (10%) per cent of the current value of all the ore processed or sold at the nearest railroad point to the processing plant or the nearest railroad shipping point of crude ore sold; if the current value at any time is uncertain then it shall be the endeavor of the parties hereto to reconcile the correct values to Los Angeles delivery points. Such rental or royalty shall not be less than Two Hundred ($200.00) Dollars per month and if the current market values produce a greater royalty then such royalties shall be paid. All royalties shall be payable not later than the 15th day of each and every month for all ores processed or sold during the previous calendar month.

All work done upon said claims shall be done in a good and workmanlike manner and after the fashion of good mining and in compliance with the rules and regulations of the Office of the State Mining Inspector of Arizona.

The Lessees shall at all times, promptly pay for all claims for labor and materials furnished to them and at all times shall keep said claims and the products thereof free from any claims for labor or materials furnished to them and the Lessees shall at all times keep said claims free from any claims for injuries or for death to employees arising out of the employment of their employees and free from all claims for injuries or for death to any person or persons not trespassing upon said property.

The Lessees shall promptly insure their employees under the Workmen's Compensation Act of Arizona and shall promptly pay for the premiums therefor. The Lessees shall also take out public liability and damage insurance on all vehicles operated by them in connections with said operations.

Owners shall be entitled to, at all times, go upon said premises during reasonable working hours and inspect the workings thereof and the records kept by the Lessees including the records of shipments of processed or crude ore shipped by them and the prices received for such ores processed or sold and the Lessees shall furnish the owners copies of all surface and underground maps and diamond drill logs.

The owners of said claims are the sole heirs of the late S. J. Curtis, who by his Will demised said claims to the owners in equal portions of one-seventh undivided interest in and to said claims and they are now the sole owners under a Decree of Distribution to said claims and the owners represent there are no encumbrances created by them or said S. J. Curtis.

At any time during the life of said Lease, the Lessees shall have the right to purchase said claims for the difference between the amounts paid in by them as rents or royalties and the sum of One Hundred Thousand ($100,000.00) Dollars.

At any time during the life of said option or said Lease and within Six (6) months thereafter, Lessees shall have the right to go upon said claims and to remove all improvements, equipment and supplies placed upon said claims by them but the owners shall not be subject to any liability whatsoever for loss of any of said improvements, equipment and supplies.

All payments herein provided for shall be made into the First National Bank of Yuma, Arizona, to the joint credit of the owners or their heirs and assigns. No owner shall assign more than his or her undivided one-seventh interest in and to said proceeds and no owner shall sell his interest except subject to the terms of this agreement and only after written notice to the Lessees.

The Lessees have the right at any time during the life of this agreement upon Thirty (30) days written notice to either said Jackson F. Curtis or Daniel R. Curtis to quit and surrender the

possession of said claims and the rights hereunder and after payment of all outstanding claims and liens and discharge of the other obligations hereunder and if the Lessees do give such notice they shall execute and deliver to the owners their QUIT CLAIM DEED to said premises.

If the Lessees fail or refuse to make said payments or to comply with any of the other terms or conditions herein imposed upon them they shall peaceably quit and surrender possession of said claims but in any event all royalties then due and unpaid shall be paid to the owners.

The annual assessment work required by law shall be performed by the Lessees and at their expense before May 1 of each year during the life of this Agreement.

No lien notices required by law shall be promptly posted by Lessees at all shafts, tunnels, adits, pits and boarding houses and said Lessees shall keep such notices so continuously posted during the life of this agreement.

All ad valorem taxes and all other taxes arising out of and sales of ores and processed ore from said claims by the Lessees shall be paid by them before they become delinquent.

This agreement shall extend to and be binding upon the heirs and assigns of the parties hereto.

IN WITNESS WHEREOF the owners and the Lessees have hereunto set their hands the day and year first above written.

CHARLES R. CURTIS,
LOIS MABEL SULLIVAN,
EUGENE V. CURTIS,
JOHN C. CURTIS,
MARION BLANCH RICHARDSON, nee CURTIS
By their Attorneys in Fact,

WITNESSES:

_____ JACKSON F. CURTIS

_____ DANIEL R. CURTIS

JACKSON F. CURTIS, Individually

DANIEL R. CURTIS, Individually
Owners.

MILTON A. EDGAR

CARL D. BARRY,
Lessees.

QUESTION #7 (Cont'd)

I, PEARL CURTIS, wife of Eugene V. Curtis do hereby approve of the foregoing Agreement and agree if I become the sole heir or devisee of Eugene V. Curtis that I am hereby bound as sole heir and devisee by the terms of the above agreement.

PEARL CURTIS

Carl D. Berry & Associates
737 No. Michigan Avenue
Chicago, Illinois

QUESTION #7

A G R E E M E N T

THIS AGREEMENT made and entered into this 10th day of January, 1951, between CHARLES R. CURTIS, LOIS MABEL SULLIVAN, EUGENE V. CURTIS, JOHN C. CURTIS, MARION BLANCH RICHARDSON, nee Curtis, JACKSON F. CURTIS and DANIEL R. CURTIS, hereinafter called Owners and MILTON A. EDGAR and CARL D. BERRY, hereinafter called Lessees,

WITNESSETH:

That the owners for and in consideration of the sum of One Hundred Fifty ($150.00) Dollars this day paid to them by Lessees, receipt of which is hereby acknowledged, do hereby give and grant unto said Lessees, their heirs and assigns, an exclusive option to purchase within Ninety (90) days of the date hereof for the sum of Thirty Five Thousand ($35,000.00) Dollars those two certain unpatented lode mining claims known as WAR EAGLE and WAR EAGLE NO. 1, situated in the Harquvar Mining District in Yuma County, Arizona, the location notices of which are of record in the office of the County Recorder of said Yuma County in Book 37 of Mines, at Pages 308 and 309.

That at any time within said Ninety (90) day period the Lessees shall have the right to elect to take a Lease on said mining claims for a period of Ten (10) years commencing on January 10, 1951, and ending January 10, 1961, upon the terms and conditions as follows:

A rental or royalty of Ten (10%) per cent of the current value of all the ore processed or sold at the nearest railroad point to the processing plant or the nearest railroad shipping point of crude ore sold; if the current value at any time is uncertain then it shall be the endeavor of the parties hereto to reconcile the correct values to Los Angeles delivery points. Such rental or royalty shall not be less than Two Hundred ($200.00) Dollars per month and if the current market values produce a greater royalty then such royalties shall be paid. All royalties shall be payable not later than the 15th day of each and every month for all ores processed or sold during the previous calendar month.

All work done upon said claims shall be done in a good and workmanlike manner and after the fashion of good mining and in compliance with the rules and regulations of the Office of the State Mining Inspector of Arizona.

The Lessees shall at all times, promptly pay for all claims for labor and materials furnished to them and at all times shall keep said claims and the products thereof free from any claims for labor or materials furnished to them and the Lessees shall at all times keep said claims free from any claims for injuries or for death to employees arising out of the employment of their employees and free from all claims for injuries or for death to any person or persons not trespassing upon said property.

The Lessees shall promptly insure their employees under the Workmen's Compensation Act of Arizona and shall promptly pay for the premiums therefor. The Lessees shall also take out public liability and damage insurance on all vehicles operated by them in connections with said operations.

Owners shall be entitled to, at all times, go upon said premises during reasonable working hours and inspect the workings thereof and the records kept by the Lessees including the records of shipments of processed or crude ore shipped by them and the prices received for such ores processed or sold and the Lessees shall furnish the owners copies of all surface and underground maps and diamond drill logs.

The owners of said claims are the sole heirs of the late S. J. Curtis, who by his Will demised said claims to the owners in equal portions of one-seventh undivided interest in and to said claims and they are now the sole owners under a Decree of Distribution to said claims and the owners represent there are no encumbrances created by them or said S. J. Curtis.

At any time during the life of said Lease, the Lessees shall have the right to purchase said claims for the difference between the amounts paid in by them as rents or royalties and the sum of One Hundred Thousand ($100,000.00) Dollars.

At any time during the life of said option or said Lease and within Six (6) months thereafter, Lessees shall have the right to go upon said claims and to remove all improvements, equipment and supplies placed upon said claims by them but the owners shall not be subject to any liability whatsoever for loss of any of said improvements, equipment and supplies.

All payments herein provided for shall be made into the First National Bank of Yuma, Arizona, to the joint credit of the owners or their heirs and assigns. No owner shall assign more than his or her undivided one-seventh interest in and to said proceeds and no owner shall sell his interest except subject to the terms of this agreement and only after written notice to the Lessees.

The Lessees have the right at any time during the life of this agreement upon Thirty (30) days written notice to either said Jackson F. Curtis or Daniel R. Curtis to quit and surrender the

possession of said claims and the rights hereunder and after payment of all outstanding claims and liens and discharge of the other obligations hereunder and if the Lessees do give such notice they shall execute and deliver to the owners their QUIT CLAIM DEED to said premises.

If the Lessees fail or refuse to make said payments or to comply with any of the other terms or conditions herein imposed upon them they shall peaceably quit and surrender possession of said claims but in any event all royalties then due and unpaid shall be paid to the owners.

The annual assessment work required by law shall be performed by the Lessees and at their expense before May 1 of each year during the life of this Agreement.

No lien notices required by law shall be promptly posted by Lessees at all shafts, tunnels, adits, pits and boarding houses and said Lessees shall keep such notices so continuously posted during the life of this agreement.

All ad valorem taxes and all other taxes arising out of and sales of ores and processed ore from said claims by the Lessees shall be paid by them before they become delinquent.

This agreement shall extend to and be binding upon the heirs and assigns of the parties hereto.

IN WITNESS WHEREOF the owners and the Lessees have hereunto set their hands the day and year first above written.

CHARLES R. CURTIS,
LOIS MABEL SULLIVAN,
EUGENE V. CURTIS,
JOHN C. CURTIS,
MARION BLANCH RICHARDSON, nee CURTIS
By their Attorneys in Fact,

WITNESSES:

_____ JACKSON F. CURTIS

_____ DANIEL R. CURTIS

JACKSON F. CURTIS, Individually

DANIEL R. CURTIS, Individually
Owners.

MILTON A. EDGAR

CARL D. BARRY,
Lessees

QUESTION #7 (Cont'd)

I, PEARL CURTIS, wife of Eugene V. Curtis do hereby approve of the foregoing Agreement and agree if I become the sole heir or devisee of Eugene V. Curtis that I am hereby bound as sole heir and devisee by the terms of the above agreement.

PEARL CURTIS

Carl D. Berry & Associates
737 No. Michigan Avenue
Chicago, Illinois

QUESTION #7 (Cont'd)

AMENDED AGREEMENT

THIS AGREEMENT made and entered into this 14th day of February, 1951, by and between CHARLES R. CURTIS, LOIS MABEL SULLIVAN, EUGENE V. CURTIS, JOHN C. CURTIS, MARION BLANCH RICHARDSON, nee Curtis, JACKSON F. CURTIS and DANIEL R. CURTIS, hereinafter called Owners, and MILTON A. EDGAR and CARL D. BERRY, hereinafter called Lessees;

WITNESSETH:

That the parties hereto entered into an Agreement dated January 10, 1951, by the terms of which the Owners granted to the Lessees, an exclusive option to purchase, within 90 days from the date thereof, for the sum of $35,000.00 those two certain unpatented lode mining claims known as WAR EAGLE and WAR EAGLE NO. 1, situated in the Harcuvar Mining District in Yuma County, Arizona, the location notices of which are of record in the office of the County Recorder of said Yuma County in Book 37 of Mines, at Pages 308 and 309, and said Agreement further provided that the Lessees should have the right to elect to take a lease on said mining claims for the period of 10 years commencing on January 10, 1951, and ending January 10, 1961, and the Lessees desire additional time in which to exercise said option and to elect to take a lease;

NOW, THEREFORE, this Agreement further WITNESSETH:

That the Lessees shall have the right to exercise the option for a payment of $35,000.00 on or before July 10, 1951 and shall also have the right until said July 10, 1951 to elect to take a lease on said claims for a period commencing on July 10, 1951 and ending July 10, 1961 upon the terms and conditions set forth in the said January 10, 1951 Agreement. Lessees agree that they will perform the assessment work prior to June 1, 1951 or forfeit their rights under the said Agreement of January 10, 1951 and this Agreement. Lessees further agree that they will furnish the Owners with all copies of assay and progress maps made by them or any Agency of the United States Government and all results of assays made by the Lessees or by said Agency.

With the exception of the changes made herein, all of the other provisions of said Agreement dated January 10, 1951 shall remain in full force and effect.

QUESTION #7 (Cont'd)

IN WITNESS WHEREOF, the Owners and the Lessees have hereunto set their hands the day and year first above written.

CHARLES R. CURTIS
LOIS MABEL SULLIVAN
EUGENE V. CURTIS
JOHN C. CURTIS
MARION BLANCH RICHARDSON, nee CURTIS
By their Attorneys in Fact

WITNESSES:

_____ JACKSON F. CURTIS

_____ DANIEL H. CURTIS

JACKSON F. CURTIS, INDIVIDUALLY

DANIEL H. CURTIS, INDIVIDUALLY

OWNERS

MILTON A. EDGAR

CARL D. BERRY

LESSEES

I, PEARL CURTIS, wife of Eugene V. Curtis do hereby approve of the foregoing Agreement and agree if I become the sole heir or devisee of Eugene V. Curtis that I am hereby bound as sole heir and devisee by the terms of the above Agreement.

PEARL CURTIS

Carl D. Berry & Associates
73[illegible]No. Michigan Avenue
Chicago, Illinois

QUESTION #7 (Cont'd)

AMENDED AGREEMENT

THIS AGREEMENT made and entered into this 14th day of February, 1951, by and between CHARLES R. CURTIS, LOIS MABEL SULLIVAN, EUGENE V. CURTIS, JOHN C. CURTIS, MARION BLANCH RICHARDSON, nee Curtis, JACKSON F. CURTIS and DANIEL R. CURTIS, hereinafter called Owners, and MILTON A. EDGAR and CARL D. BERRY, hereinafter called Lessees;

WITNESSETH:

That the parties hereto entered into an Agreement dated January 10, 1951, by the terms of which the Owners granted to the Lessees, an exclusive option to purchase, within 90 days from the date thereof, for the sum of $35,000.00 those two certain unpatented lode mining claims known as WAR EAGLE and WAR EAGLE NO. 1, situated in the Hassayampa Mining District in Yuma County, Arizona, the location notices of which are of record in the office of the County Recorder of said Yuma County in Book 37 of Mines, at Pages 308 and 309, and said Agreement further provided that the Lessees should have the right to elect to take a lease on said mining claims for the period of 10 years commencing on January 10, 1951, and ending January 10, 1961, and the Lessees desire additional time in which to exercise said option and to elect to take a lease;

NOW, THEREFORE, this Agreement further WITNESSETH:

That the Lessees shall have the right to exercise the option for a payment of $35,000.00 on or before July 10, 1951 and shall also have the right until said July 10, 1951 to elect to take a lease on said claims for a period commencing on July 10, 1951 and ending July 10, 1961 upon the terms and conditions set forth in the said January 10, 1951 Agreement. Lessees agree that they will perform the assessment work prior to June 1, 1951 or forfeit their rights under the said Agreement of January 10, 1951 and this Agreement. Lessees further agree that they will furnish the Owners with all copies of assay and progress maps made by them or any Agency of the United States Government and all results of assays made by the Lessees or by said Agency.

With the exception of the changes made herein, all of the other provisions of said Agreement dated January 10, 1951 shall remain in full force and effect.

QUESTION 57 (Cont'd)

IN WITNESS WHEREOF, the Owners and the Lessees have hereunto set their hands the day and year first above written.

CHARLES E. CURTIS
LOIS MABEL SULLIVAN
EUGENE V. CURTIS
JOHN C. CURTIS
MARION BLANCH RICHARDSON, nee CURTIS
By their Attorneys in Fact

WITNESSES:

_____ JACKSON V. CURTIS

_____ DANIEL H. CURTIS

JACKSON V. CURTIS, INDIVIDUALLY

DANIEL H. CURTIS, INDIVIDUALLY
OWNERS

MILTON A. EDGAR

CARL E. BERRY
LESSEES

I, PEARL CURTIS, wife of Eugene V. Curtis do hereby approve of the foregoing Agreement and agree if I become the sole heir or devisee of Eugene V. Curtis that I am hereby bound as sole heir and devisee by the terms of the above Agreement.

PEARL CURTIS

Carl D. Berry & Associates
737 So. Michigan Avenue
Chicago, Illinois

QUESTION #7

This is to certify that I have personally examined the original contracts and amendments thereto and that these contracts carry the signatures of the parties as indicated on the typed copies.

Carl D. Berry

STATE OF ILLINOIS

COUNTY OF COOK

Subscribed and sworn to before me this 14th day of June, 1951.

Notary Public

My Commission expires
July 16, 1952

Carl D. Berry & Associates
73[illegible] No. Michigan Avenue
Chicago, Illinois

THE PROPERTY

10. (a) Same area as "b" below

(b) This property consists of two mining claims known as War Eagle and War Eagle Number 1, situated in the Harcuvar Mining District in Yuma County, Arizona. The location notices of these claims are of record in the Office of the County Recorder of Yuma County in Book 37 of Mines on Pages 308 and 309.

11. See Question #10 above

12. The property is located 26½ miles N.E. of Bouse, Arizona. This town is the rail head for the property. The property is located on a direct road to Bouse. Fifteen miles of this road is surfaced and state maintained; eleven miles is well graded and county maintained.

13. No known water supply is available on the property. For purposes of this exploration water for drilling and camp use will be hauled.

Projected exploration will require limited power for drilling, operation of a mucking machine and a 260 cu. ft. compressor. This power will be provided from a mobile unit hauled to the property.

14. None

15. Ore to be trucked to Bouse, Arizona. The applicants have proposed in application to Defense Minerals Administration Form NSRB-146, Docket Number DMA-697 that a leaching and electrolytical plant for beneficiation of the ore be erected at Bouse.

16. (a) A limited amount of exploration work has been performed on the property. Several shallow test pits and adits have been made. In addition, a 50 ft. shaft has been sunk a little south of the center of the deposit.

(b) No known manganese properties contiguous to this property.

(c) Data requested in this sub-question has already been submitted to the Manganese Branch of the DMA and is being held in the office of Mr. George B. Holderer, acting chief of the Branch.

THE PROPERTY (Cont'd)

17. Not in production

18. Not operating

19. The size of the ore shoot is approximately 1200 ft. long with a width varying from 30 ft. to 100 ft. The known depth based on past exploration is 50 ft., with indications of considerable greater depth. The ore assays from 15% to 25% MN.

Carl D. Morry & Associates
737 No. Michigan Avenue
Chicago, Illinois

THE EXPLORATION

20. Manganese

21. It is proposed to conduct the exploration in two steps. Step One to be undertaken first and if the results of this work indicate that the quality of the ore pretty generally falls between the 15%-25% MN bracket, which the preliminary steps indicate, then we will proceed with Step Two.

The two steps are as follows:

Step No. 1

Excavate 20 surface trenches across the ore vein at approximately 70 ft. intervals. The size of the trenches to be 60'x 4' x 4'; average samples to be taken from each cross cut. Separate assays will be made of each sample to determine the approximate surface valuation of the ore body.

Step No. 2

Drive a 200 ft. cross cut tunnel at about 150 ft. below the surface. This cross cut to be made at about the center of the ore shoot. Size of the cross cut to be 5' x 7'.

The exploration work projected above will prove two things:

(1) Ascertain the quality of the ore
(2) Determine the approximate quantity of ore available in the deposit.

Estimated time to complete Step No. 1 - 30 Days
Estimated time to complete Step No. 2 - 60 Days

22. We submitted a report to the Manganese Branch of the DMA on May 12, 1951, outling the geological basis for the project. This report was proposed recently by the Bureau of the Mineral Resources of the State of Arizona. As extra copies of this report are not immediately available, we suggest that the above copy be referred to.

We are also submitting photostat copies of a Field Engineer's report on the property prepared on May 15, 1941. The report was likewise prepared by the Bureau of Mineral Resources of the State of Arizona.

THE EXPLORATION (Cont'd)

We are further submitting photostat copies of a report by the U.S. Bureau of Mines made on May 19, 1942, in which the quality of the ore as well as its amenability of the ore to leaching is set forth.

Carl D. Corry & Associates
[illegible] No. Michigan Ave.
Chicago, Illinois

COPY

Question #22

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine War Eagle

Date May 15, 1941

District Harcuvar, Yuma County

Engineer Elgin B. Holt
P. O. Box 288
Kingman, Arizona.

Subject:

BRIEF REPORT

OWNER: S. J. Curtis, Bouse, Arizona.

FORMER NAME OF PROPERTY: Iron King Group.

LOCATION: The War Eagle group of 2 manganese claims, located end to end on the vein is in the Harcuvar Mining District, Yuma County, about 26 miles northwesterly from Bouse and 4 miles from the old Planet mine. All surrounding ground is vacant and open for location. The nearest shipping point is Bouse, located on the Santa Fe R. R., which is accessible by a good desert wagon or truck road.

METALS: Manganese: Wad, manganite, hematite, silica and some barite are all constituents of the ore.

TOPOGRAPHY: The deposit occurs in an area of moderate relief marked by ridges and isolated peaks, with elevations a few hundred feet above the surrounding plain, drained by washes that flow north to the Williams River.

WATER: The nearest water supply is the Williams River, 4 miles to the north, with a difference in elevation between river and mine of about 1,000 feet.

GEOLOGY: "The rocks in the vicinity consist of an older series of granite gneiss overlain by bands of limestone and amphibolite, massive limestone, and metamorphosed shales; and a younger series of sandstone, calcareous sandstone, and detritus and wash material. The older rocks are probably pre-Cambrian; the younger rocks range from late Tertiary to Pleistocene. The manganese deposit is contained in sheared rocks along a fault zone, which strikes N. 45 degrees W. and apparently dips southwest. The fault marks the contact between conglomerate and wash material on the northeast or footwall side and silicified and serpentinized limestone and quartzite breccia on the hanging wall, in which manganese minerals occur. Overlying these rocks on the hanging wall side a short distance to the southwest is red sandstone, in part calcareous, which strikes N. 60 degrees W. and dips 30 degrees southwest." (Eldred D. Wilson and G. M. Butler, Arizona Bureau of Mines Bulletin No. 127: Manganese Ore Deposits of Arizona - 1930)

MANGANESE ORE ZONE: The zone of brecciation along the fault mentioned ranges from 100 to 500 feet, and for a distance of about 2,000 feet some manganese is found in outcroppings; but the occurrance of workable manganese consists of a more or less well-defined "shoot" about 1,000 feet in length, which has been superficially explored by shallow test pits and short tunnels. At the middle of this shoot there is an exposure of manganese ore 50 feet in width, assaying more or less as follows: Mr. Curtis, owner, advised me that a number of engineers had sampled the property, obtaining results ranging from 19 to 26 per cent manganese.

Also, during January, 1941, two engineers representing the Mining Division of the U.S. Bureau of Mines, visited property and took a two ton sample which was shipped to the

Carl D. B[illegible]ry & Associates
73[illegible]. Michigan Ave.
Chi[illegible]ago, Illinois

Question #22

Metallurgical Division of the Bureau at Salt Lake City, Utah, for testing purposes, in order to determine whether or not a ferrograde manganese concentrate could be made.

At the time this report is being prepared, the said tests have not been completed; but I received a letter from the Chief Engineer, or rather from the Acting Chief Engineer of the said Metallurgical Division stating that the two tons mentioned averaged 19.2 per cent manganese.

DEVELOPMENT WORK on property, as stated consists of shallow test pits and shallow tunnels on main ore shoot of mine; so property is now in the undeveloped state.

ORE RESERVES: There are no positive ore reserves blocked out in the mine due to the lack of development work. Engineers estimate, however, that the mine should produce around 1,000,000 tons of medium grade ore to a depth of 200 feet from surface.

PROPOSED DEVELOPMENT WORK: The following initial work is recommended: First, a crosscut tunnel, 250 feet in length should be driven in order to intersect the main ore shoot at a depth of 100 feet, at which point of intersection, drifts should be run right and left on vein, or in southeasterly and northwesterly directions. The southeasterly drift would attain a maximum depth on vein of about 200 feet and the northwesterly drift about 300 feet on vein. Once this work is carried out, raises could be put through to the surface at intervals and mining started either by shrinkage or by glory hole methods.

REMARKS: This property is recommended for investigation by any individual or company looking for a large low-grade manganese mine, with large reserves of ore indicated, with a view to installing a proper beneficiating plant, so designed to produce a marketable ferrograde product. Apply for terms.

(SIGNED) Elgin B. Holt,
Field Engineer.

Carl D. Berry & Associates
737 N. Michigan Avenue
Chicago, Illinois

QUESTION #22

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

METALLURGICAL DIVISION — INTERMOUNTAIN EXPERIMENT STATION — SALT LAKE CITY, UTAH

May 19, 1942

Mr. J. S. Coupal, Director
Department of Mineral Resources
413 Home Builders Building
Phoenix, Arizona

Dear Mr. Coupal:

Your letter of May 8, regarding the amenability of the War Eagle Ore to either the SO_2 or NO_2 leaching processes has been referred to me for reply.

We have conducted a number of leaching tests on a sample of ore which was obtained by the Mining Division of the United States Bureau of Mines. The ore had the following analysis:

Mn	SiO_2	Insol.	Fe	CaO	P	MgO	Al_2O_3	Ba
19.2	20.5	28.0	22.6	1.4	0.008	0.3	2.8	5.5

The tests that were made on this particular sample indicated that at least 90 percent of the Mn can be extracted by the SO_2 leaching method used here at the Bureau of Mines in which air is introduced along with the SO_2 to produce the sulfuric acid necessary for dissolving any MnO present. We have not carried out any experiments using NO_2 on this ore.

Yours very truly,

C. Travis Anderson
Senior Metallurgist

Carl D. Berry & Associates
737 N. Michigan Avenue
Chicago, Illinois

TIME REQUIREMENTS and COSTS

23. The exploration work outlined in this application will be contracted with a local contractor. Photostat copies of his firm estimates for the two phases of the project are attached.

A summary of the projected cost of the project is as follows:

Step No. 1	$3775.00
Step No. 2	
200 ft. @ $42.00 feet	$400.00
Assay work and miscellaneous expenses	$825.00
Total	$15000.00

24. Step No. 1 can be started within one week after project is approved, and can be completed within 30 days thereafter. As Step No. 1 progresses average samples of the ore will be forwarded to the University of Arizona for assaying. The assay work will thus follow closely behind the trenching on the ore body. At the completion of the trenching the results of the tests will be presented to the Manganese Branch of the DMA.

On consultation with the staff members of that branch, decision will then be made to proceed with Step No. 2.

Step No. 2 will require approximately 60 days to complete after the decision is made to proceed with this phase of the work.

Atlas Explosives

QUESTION #23

CARL D. BERRY & ASSOCIATES
737 No. Mich Ave.
Chicago Ill

D. W. JAQUAYS & CO.
MINING & CONTRACTORS EQUIPMENT
1219 SOUTH 19th AVENUE
PHOENIX, ARIZONA

Estimate on Driving 200 feet of
5' X 7' Crosscut on Edgar Manganese Property Bouse, Arizona

Excavating for portal and clean up of tunnel site	$700.00
Timber on Portal	$300.00
Lump sum bid on Portal and clean up -----	$1000.00

Drifting

Labor 4 men (2 Shifts) @ $15.00/ day-------	$60.00
Insurance and O.A. B. 15% X 60.00	9.00
Compressor Rental and fuel	15.00
Drills and accessary equipment	10.00
Bits and steel	10.00
Explosives and caps	18.00
Rental on Mucking machine	7.00
Rental on mine cars	1.00
Cost per day ----------	$130.00

Advance 7 feet per 2 shifts or $18.55/ foot Labor and supply costs

Misc. costs

Supervision	$2.00	/ foot	
Truck Service	4.00	"	
Rail laid	1.50	"	
Pipe Laid	0.75	"	
Move-in and out	2.00	"	
	10.25	/ Foot	18.55
			10.25
Total base charge per foot of drift			$28.80
Plus 20% profit and misc. expenses			6.00
Total costs per foot of raw drift			$34.80
Estimated costs on driven timbered drifts $8.00/ foot for timber			$42.00

Signed D. W. Jaquays
D. W. Jaquays Contractor

Atlas Explosives

QUESTION #23

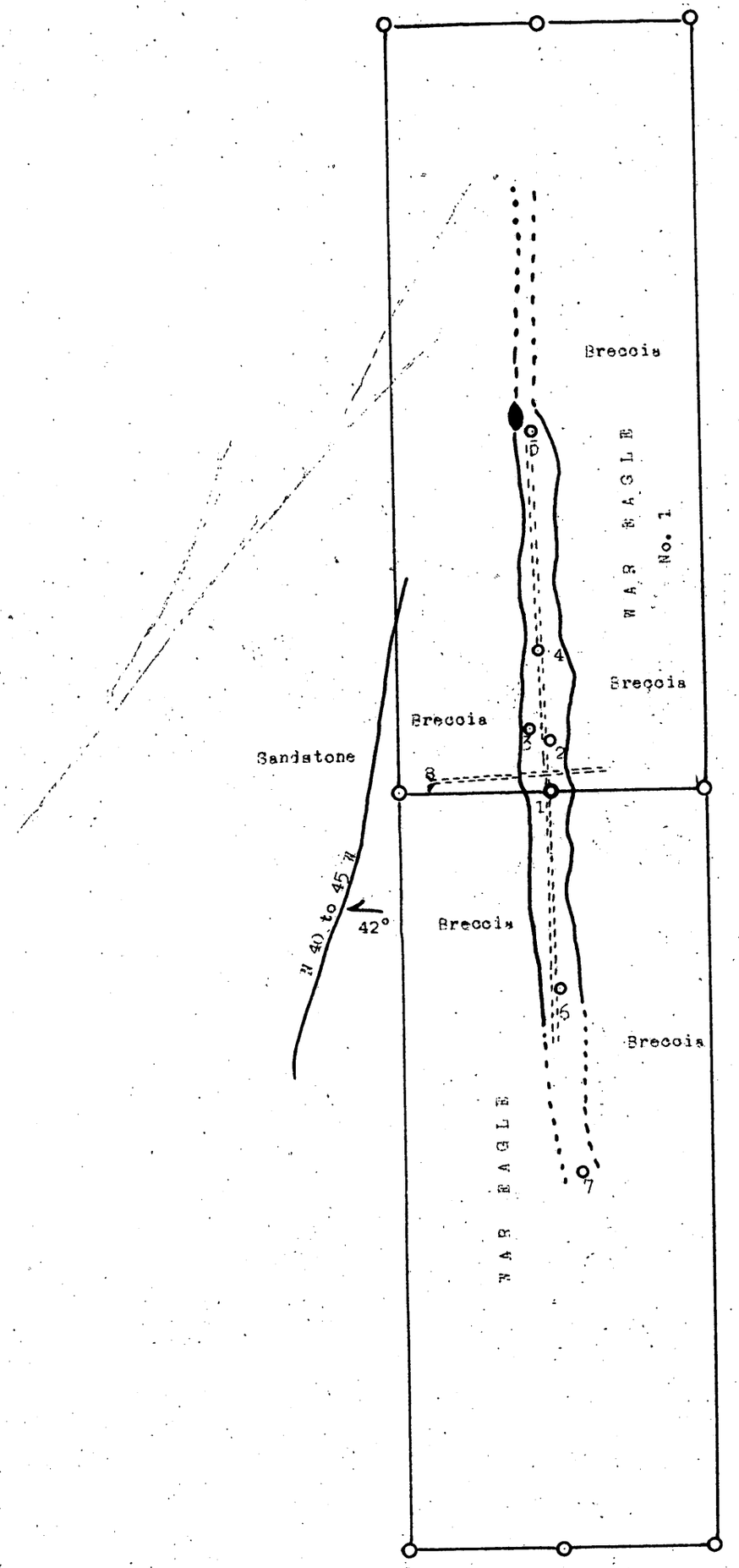
CARL D. BERRY & ASSOCIATES
737 No. Mich. Ave.
Chicago Ill

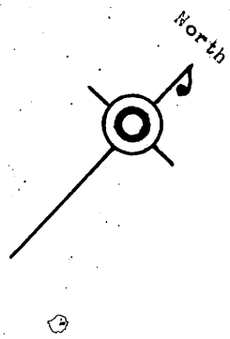
D. W. JAQUAYS & CO.
MINING & CONTRACTORS EQUIPMENT
1219 SOUTH 19th AVENUE
PHOENIX, ARIZONA

Estimate on Excavation of
20 - 60' X 4' X 4' Trenchs
Edgar Manganese Property Bouse, Arizona

Drilling and blasting equipment and labor Includes 1 - 165 C.F.M. Compressor, Jackhammer Fuel, Labor and 1 Pickup truck	$100.00/ days X 20--	$2000.00
Hand mucking dirt trenchs	Labor	600.00
Bulldozer work on deep dirt trenchs	7 days @ $100.00	700.00
Explosives and electric caps		275.00
Move-in and out		200.00
	Total ----------	$3775.00

Signed D. W. Jaquays
D. W. Jaquays Contractor





LEGEND

1 Location War Eagle claim

2 Location War Eagle No.1 claim

3 Shaft, 30-ft.

4 Short tunnels

5 Crest to north

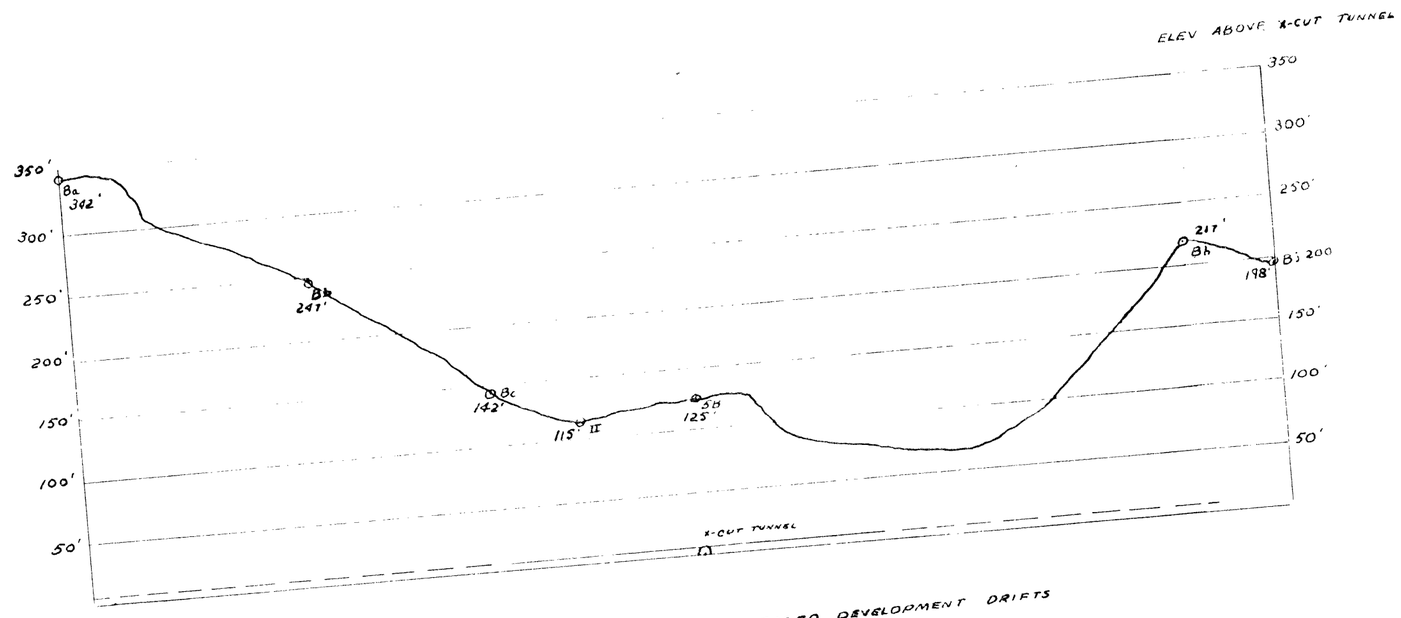
6 Point from which photo was taken.

7 South prospect pits

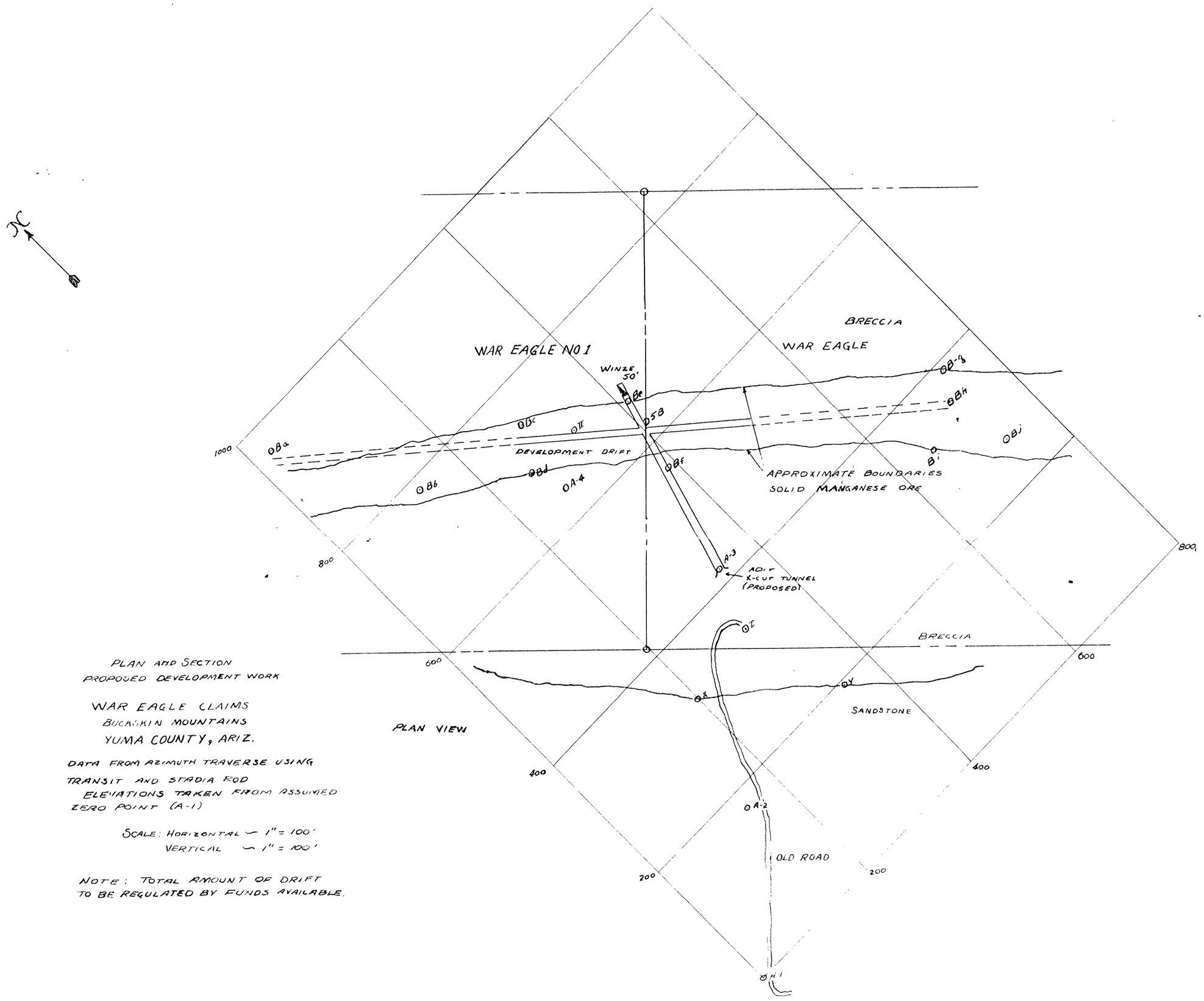
8 Portal proposed crosscut tunnel

In area between 1 and 5 greatest number of prospect pits sunk

4-30-1951



SECTION ALONG PROPOSED DEVELOPMENT DRIFTS



PLAN VIEW

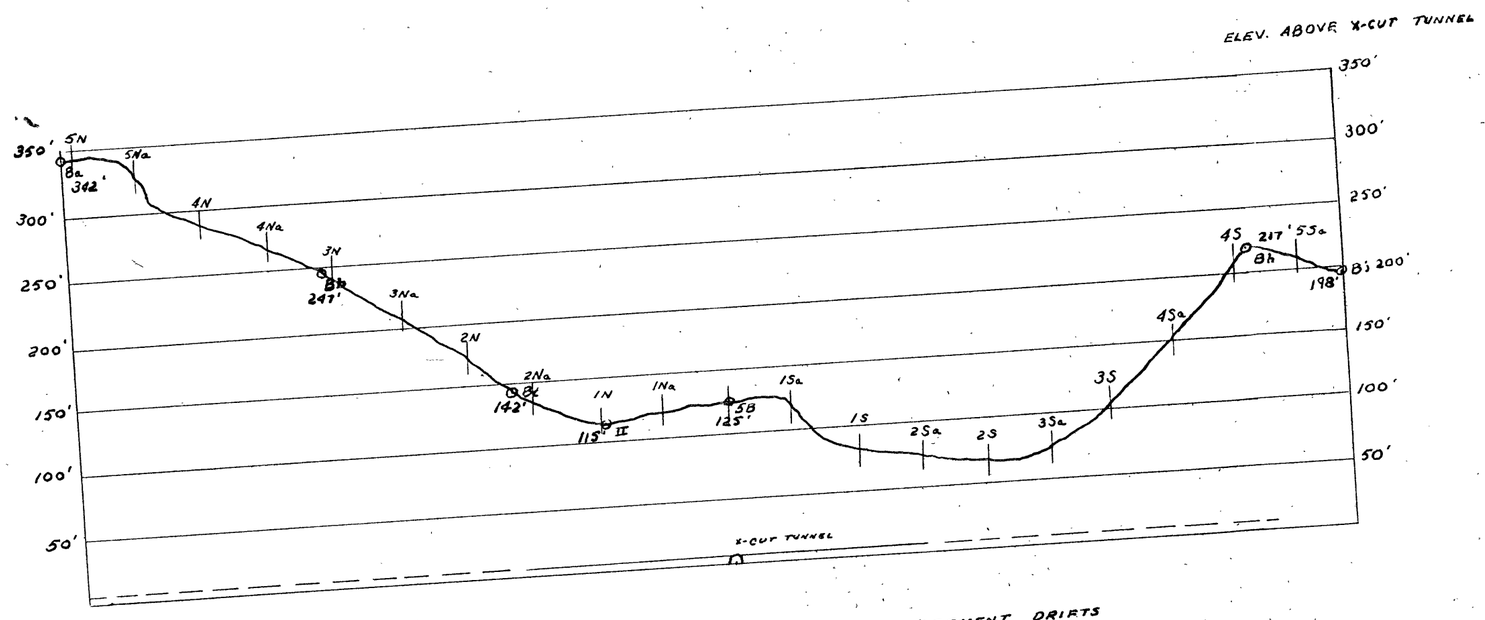
PLAN AND SECTION
PROPOSED DEVELOPMENT WORK

WAR EAGLE CLAIMS
BUCKSKIN MOUNTAINS
YUMA COUNTY, ARIZ.

DATA FROM AZIMUTH TRAVERSE USING TRANSIT AND STADIA ROD
ELEVATIONS TAKEN FROM ASSUMED ZERO POINT (A-1)

SCALE: HORIZONTAL ~ 1" = 100'
VERTICAL ~ 1" = 100'

NOTE: TOTAL AMOUNT OF DRIFT TO BE REGULATED BY FUNDS AVAILABLE.

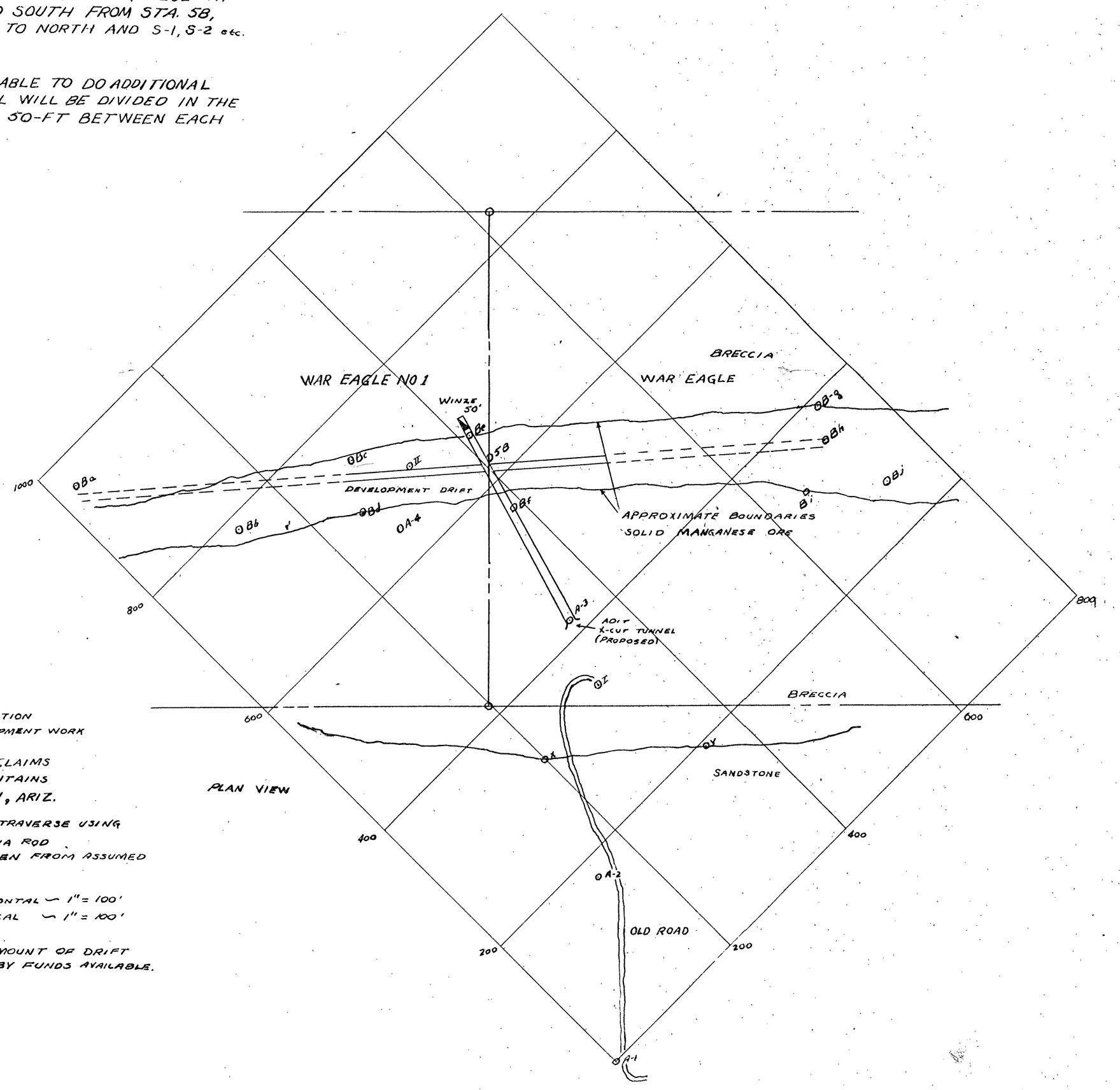


SECTION ALONG PROPOSED DEVELOPMENT DRIFTS

TRENCHING

PROPOSED TRENCHES ACROSS THE SOLID MANGANESE AT 100-FT INTERVALS, NORTH AND SOUTH FROM STA. 58, NUMBERED N-1, N2, etc. FOR THOSE TO NORTH AND S-1, S-2 etc. FOR THOSE TO THE SOUTH.

IN THE EVENT IT SEEMS DESIRABLE TO DO ADDITIONAL TRENCHING THE 100-FT INTERVAL WILL BE DIVIDED IN THE CENTER, GIVING AN INTERVAL OF 50-FT BETWEEN EACH TRENCH



PLAN VIEW

PLAN AND SECTION
PROPOSED DEVELOPMENT WORK

WAR EAGLE CLAIMS
BUCKSKIN MOUNTAINS
YUMA COUNTY, ARIZ.

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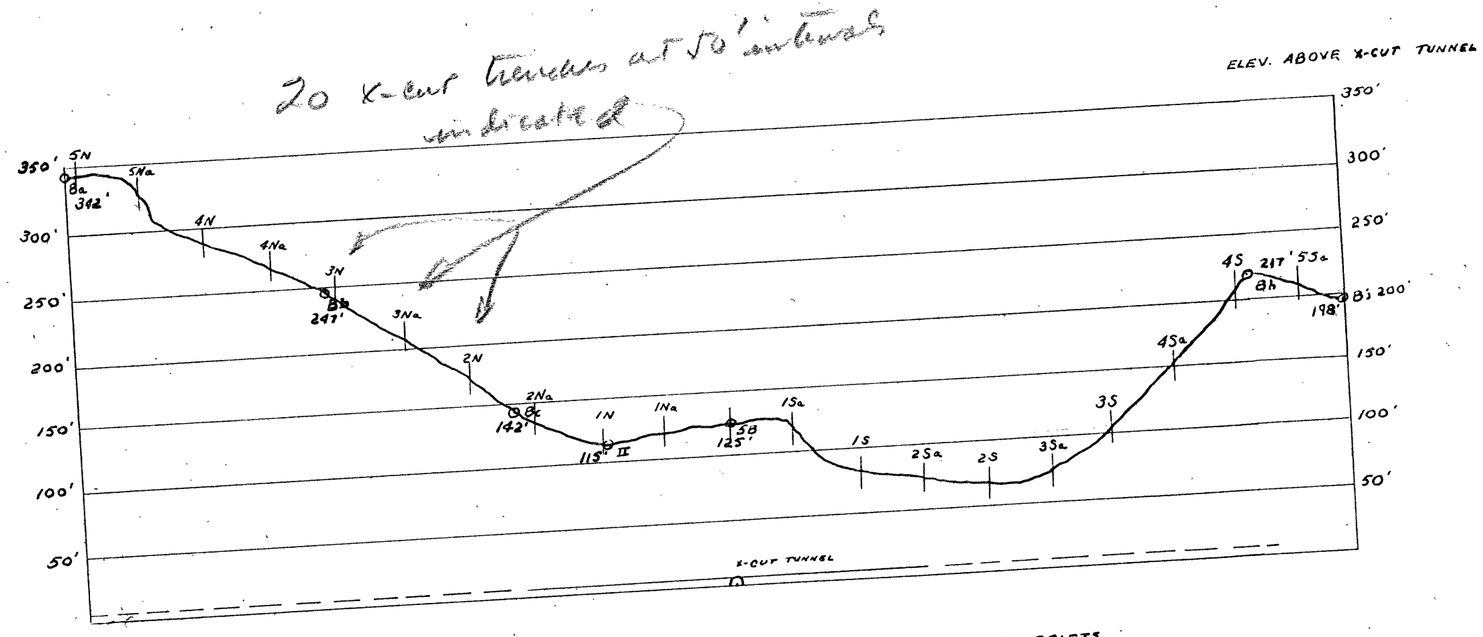
AUGUST 9, 1951

Interchange of
7s 10 cuts
by letter 9/8

20 X-cut trenches at 50' intervals indicated



SECTION ALONG PROPOSED DEVELOPMENT DRIFTS

TRENCHING

PROPOSED TRENCHES ACROSS THE SOLID MANGANESE AT 100-FT INTERVALS, NORTH AND SOUTH FROM STA. 58, NUMBERED N-1, N2, etc. FOR THOSE TO NORTH AND S-1, S-2 etc. FOR THOSE TO THE SOUTH.

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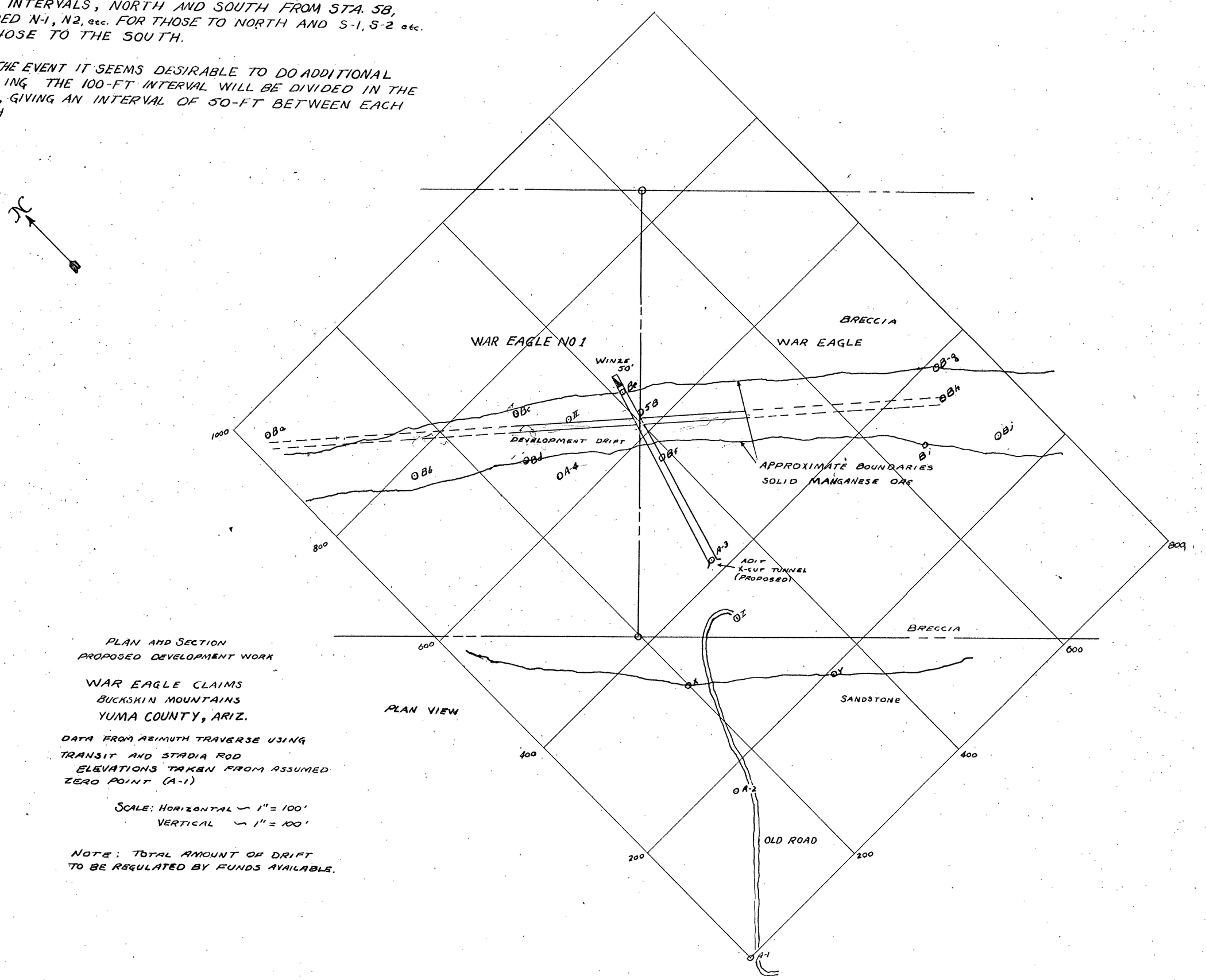


PLAN AND SECTION
PROPOSED DEVELOPMENT WORK

WAR EAGLE CLAIMS
BUCKSKIN MOUNTAINS
YUMA COUNTY, ARIZ.

DATA FROM AZIMUTH TRAVERSE USING TRANSIT AND STADIA ROD
ELEVATIONS TAKEN FROM ASSUMED ZERO POINT (A-1)

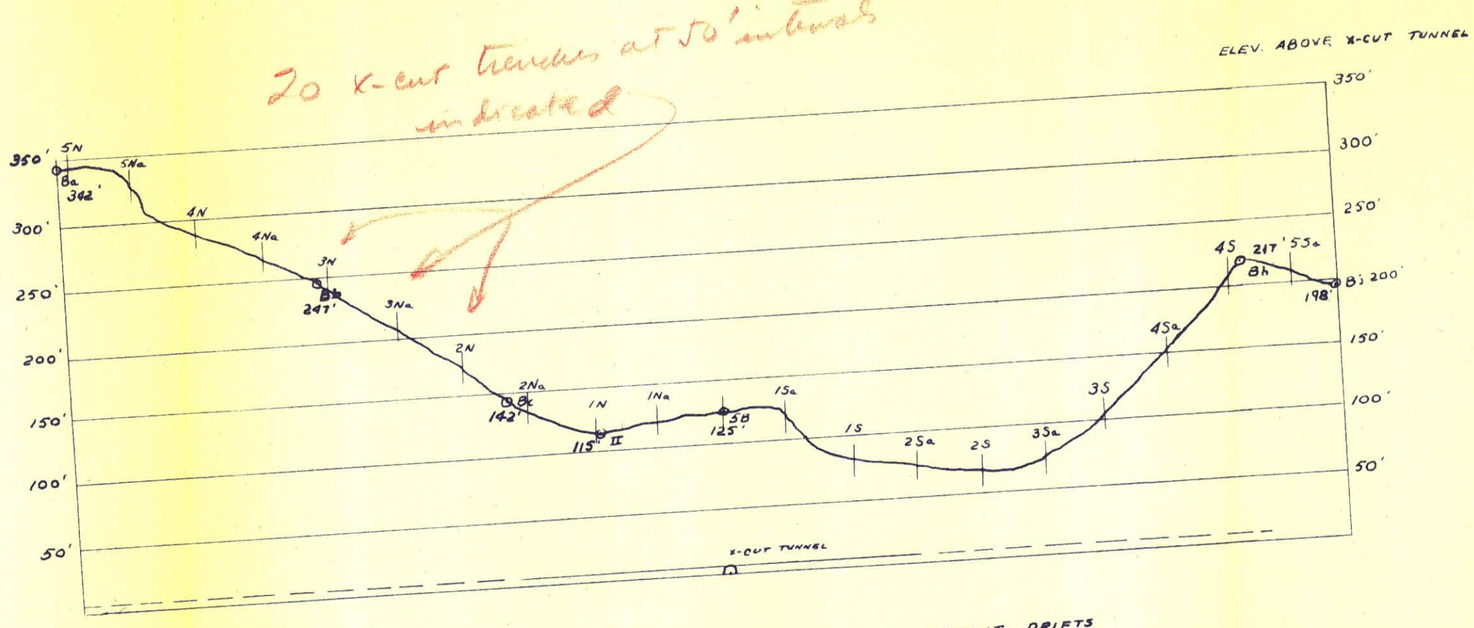
SCALE: HORIZONTAL ~ 1" = 100'
VERTICAL ~ 1" = 100'

NOTE: TOTAL AMOUNT OF DRIFT TO BE REGULATED BY FUNDS AVAILABLE.

AUGUST 9, 1951

Interchange of 70 10 cuts by letter 9/8

70 X-cut trenches at 50' intervals indicated

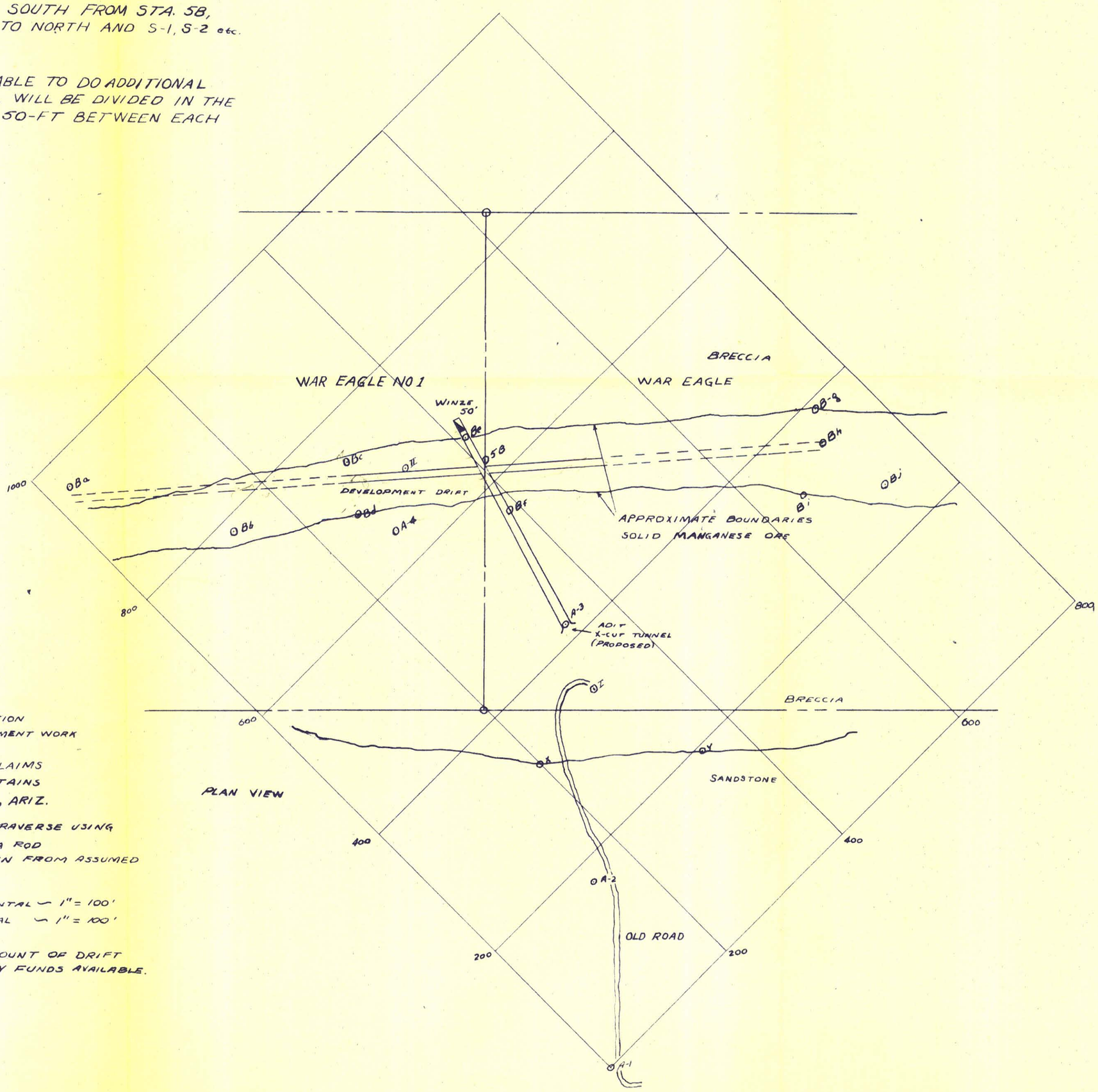


SECTION ALONG PROPOSED DEVELOPMENT DRIFTS

TRENCHING

PROPOSED TRENCHES ACROSS THE SOLID MANGANESE AT 100-FT INTERVALS, NORTH AND SOUTH FROM STA. 5B, NUMBERED N-1, N2, etc. FOR THOSE TO NORTH AND S-1, S-2 etc. FOR THOSE TO THE SOUTH.

IN THE EVENT IT SEEMS DESIRABLE TO DO ADDITIONAL TRENCHING THE 100-FT INTERVAL WILL BE DIVIDED IN THE CENTER, GIVING AN INTERVAL OF 50-FT BETWEEN EACH TRENCH



PLAN AND SECTION
PROPOSED DEVELOPMENT WORK

WAR EAGLE CLAIMS
BUCKSKIN MOUNTAINS
YUMA COUNTY, ARIZ.

DATA FROM AZIMUTH TRAVERSE USING TRANSIT AND STADIA ROD
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AUGUST 9, 1951