DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1840-X

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

An Exploration

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:	P.E.D.	Date	11/16/51
To:	Ellis	Date	11-21-51
To:	~~Reports & Records~~	Date	~~11-23-51~~
To:	Mittendorf	Date	11-23-51
To:	Reports & Records	Date	12-5-51
To:		Date	
To:		Date	
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CONTROLLED DOCUMENT

DMA-184ox
Copper
Region VII

ATOZ CORPORATION, GREENVILLE, NORTH CAROLINA, Copper Knob Mine, Ashe County, N. C. $19,520 requested.
Application denied.

OFFICE OF ADMINISTRATOR

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

Room 13, Post Office Building
Knoxville, Tennessee

DEPARTMENT OF THE INTERIOR
RECEIVED
DEC 17 1951
Defense Minerals Administration,
Production Expansion Division.

DEC 17 1951
RECEIVED

December 14, 1951

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: Robert A. Laurence, Executive Officer, DMEA-Region VII

Subject: DMA-1840X, Atoz Corporation (copper)

We have received your memorandum of December 11, concerning the above mentioned exploration application.

The field examiners noted that the maximum thickness of the vein is only 3 feet and that its average thickness is less than one foot. Even though high-grade samples can be obtained, the deposit as a whole does not justify the expense of the requested exploration. For this reason, check sampling by the field examiners appears to us to be a needless expenditure.

The Applicant submitted a map which accompanies the docket, showing the location of his samples, and this in addition to visual examination of the samples was the basis for the field examiners' statement that the samples were taken only from the high grade portion of the vein.

Practically every applicant we have dealt with submits only high-grade samples. In no case that we have examined, has the applicant supported his request with adequate sampling data. Thus, such check sampling as you suggest would practically be the same as indiscriminate sampling.

Another objection to taking samples is that we have no funds for having them analyzed, and of course sampling and analysis by the Government could not properly be included in the cost of the project. We have samples from another project stored here in the office because there is no money to have them analyzed.

Robert A. Laurence

Robert A. Laurence,
Executive Officer, DMEA
Field Team, Region VII

12-17-51
Noted

~~DEFENSE MATERIALS PROCUREMENT AGENCY~~
WASHINGTON 25, D. C.

December 11, 1951

Memorandum

To: Field Team, Region VII

From: Operating Committee

Subject: Atox Corporation, Copper Knot Mine, Ashe County, North Carolina, 1840-X

The subject application is being denied, but your attention is called to the fact that the report of examination by your staff is not wholly satisfactory. If the opinion expressed in the report regarding the error in Applicant's sampling were to be challenged, we should regret the failure to take check samples.

We do not recommend indiscriminate sampling on all examinations, but in this case your men themselves raised the question, by accusing the applicant of picking rich spots for sampling, yet failed to do what they might to determine the fact. A very few intermediate samples would have made the point.

(signed) FRANK E. JOHNSON

Chairman, Operating Committee

For Geological Survey

For Bureau of Mines

CHJohnson/rhr
Copy to Base Metals Branch
Mr. Ellis
Mr. Nelson, Room 4216, GSA
~~Mr. G. Johnson~~ Mr. C. H. Johnson - Interior Rm 3616
Reports and Records, DMEA
Files

~~DEFENSE MATERIALS PROCUREMENT AGENCY~~
WASHINGTON 25, D. C.

S.A.

Johnson
Gregson
Ellis

December 11, 1951

Memorandum

To: Field Team, Region VII

From: Operating Committee

Subject: Atox Corporation, Copper Knot Mine, Ashe County, North Carolina, 1840-X

The subject application is being denied, but your attention is called to the fact that the report of examination by your staff is not wholly satisfactory. If the opinion expressed in the report regarding the error in Applicant's sampling were to be challenged, we should regret the failure to take check samples.

We do not recommend indiscriminate sampling on all examinations, but in this case your men themselves raised the question, by accusing the applicant of picking rich spots for sampling, yet failed to do what they might to determine the fact. A very few intermediate samples would have made the point.

(signed) FRANK E. JOHNSON

12/11

Chairman, Operating Committee

For Geological Survey

For Bureau of Mines

CHJohnson/rhr
Copy to Base Metals Branch
Mr. Ellis
Mr. Nelson, Room 4216, GSA
Mr. G. Johnson
Reports and Records, DMEA
~~Files~~

400

FILE COPY

SURNAME:

Ellis
Johnson
Nelson for McK.
Snow
Hayes
Johnson
Mittendorf

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

DEC 4 1951

Mr. Hart P. Moore, President
Atoz Corporation
P. O. Box 63
Greenville, North Carolina

Re: Docket No. 3[illegible]-1040, Copper

Dear Mr. Moore:

Your application for an exploration contract on copper in Ashe County, North Carolina has been reviewed by this office.

From all the data available at this time there is insufficient geologic evidence as to indicate the probability of making a significant discovery which could be considered important to the National Defense in so far as copper is concerned. Under the circumstance your application for an exploration contract to the extent of 50% of $19,5[illegible]0 is denied.

Should future work at subject property reveal evidence to materially alter this opinion be assured we will be glad to consider a new application.

Sincerely yours,

C. O. Mittendorf

ACTING Administrator
Defense Minerals Exploration
Administration

EWEllis/jem
11-23-51
cc to: Adm. Reading File
Reports & Records
Docket
Mr. Johnson, C. H.
Mr. McKnight
Laurence, Region VII (2)
Ellis

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

Copper Knob Mine - Ates Corporation, Ashe County, N. C. (Copper)

DMA-18LOK, Mart Moore

By

Kefton H. Teague, Geologist
U. S. Geological Survey

A. L. Peyton, Mining Engineer
U. S. Bureau of Mines

November 1, 1951

Report of Field Examination on the
Copper Knob Mine - Atos Corporation, Ashe County, N.C.

DMA-184CK - Copper

The deposit was examined by the Field Team, accompanied by the applicant's representative, Mr. Mart Moore on November 1, 1951. This property is located near Deep Gap, in Ashe County, North Carolina. The condition and extent of underground openings as described in the application are accurate, thus it is not necessary to elaborate on them.

In general geologic conditions as described in the various reports attached to application are correct. Same question does exist in regards to the type of vein. It would appear that the vein has been emplaced in a fault zone. Movement along the fault appears to have been more or less horizontal, with the hanging wall (northeast block), moving to the northwest. Grooves in the zone of movement plunge 25° southeast.

Copper mineralization is confined to the fault zone. Sequence of events involved in the period of mineralization are believed to be as follows: Faulting; at or near the end of movement the fault zone was invaded and replaced by quartz; the quartz was slightly fractured and sheared; copper-bearing solutions deposited copper minerals.

Copper minerals now in evidence include bornite as masses up to one-inch in diameter confined mostly to the foot wall, malachite as coatings and stains, and a little chalcopyrite. No pyrite was observed, but impressions of pyrite crystals can be seen against the quartz. Apparently the pyrite in the near surface zone has been completely oxidized. With greater depth it is believed that pyrite will be abundant.

The thickness of the mineralized zone is variable. Maximum thickness observed was about three feet. Occasionally the vein is less than one inch thick. There is variation in vein thickness along both strike and dip. It was examined in detail in the lower Adit and in the "Ore Pass" between the lower and upper Adit. In these openings average thickness of vein material is between 6 and 8 inches. As a rule the narrower portions of the vein are more heavily mineralized than where "swells" in the vein occur.

The 16 samples that the applicant had analyzed were taken from the lower Adit. It appears that only high- grade samples were taken; therefore, there is some doubt that these assays represent the grade of ore that could be obtained regularly from the vein.

The Field Team does not believe that the deposit is of sufficient size or richness to justify the exploration requested. Copper mineralization is sporatic and vein thickness is variable, therefore, the Field Team recommends that the exploration aid be denied.

Sent Nov. 1, 1951

Teague, USGS
Peyton, USBM

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

OCT 24 REC'D

Mr. Robert A. Lawrence,
Executive Officer, DMA Field Team Region VII
Room 13, Post Office Building
Knoxville 01, Tennessee

OCT 23 1951

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. DMA-1840X

Commodity Copper

Applicant Atox Corporation, Box 63, Greenville, North Carolina

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

SIGNED

Chairman
Coordinating Committee

H. W. McClay
For the Bureau of Mines

For the Geological Survey

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
Room 13, Post Office Building
Knoxville 2, Tennessee

November 7, 1951

OFFICIAL FILE COPY

To		
210		

Memorandum

To: Mr. Tom Lyon
Chairman, Coordinating Committee

From: Field Team, Region VII

Subject: DMA-1840X, Atox Corporation

Transmitted herewith are four copies of field examination report on the subject application. The Field Team concurs in the recommendation for denial.

The original application and review are returned herewith.

Robert A. Laurence
Robert A. Laurence
U. S. Geological Survey

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 8 1951

W. A. Beck
Wm. A. Beck for V. J. Lynch
U. S. Bureau of Mines

Enclosures

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

Copper Knob Mine - Atoz Corporation, Ashe County, N. C.
(Copper)

DMA-1840X, Mart Moore

By

Kefton H. Teague, Geologist
U. S. Geological Survey

A. L. Peyton, Mining Engineer
U. S. Bureau of Mines

November 1, 1951

Report of Field Examination on the
Copper Knob Mine - Atoz Corporation, Ashe County, N.C.

DMA-1840K - Copper

The deposit was examined by the Field Team, accompanied by the applicant's representative, Mr. Mart Moore on November 1, 1951. This property is located near Deep Gap, in Ashe County, North Carolina. The condition and extent of underground openings as described in the application are accurate, thus it is not necessary to elaborate on them.

In general geologic conditions as described in the various reports attached to application are correct. Some question does exist in regards to the type of vein. It would appear that the vein has been emplaced in a fault zone. Movement along the fault appears to have been more or less horizontal, with the hanging wall (northeast block), moving to the northwest. Grooves in the zone of movement plunge 25° southeast.

Copper mineralization is confined to the fault zone. Sequence of events involved in the period of mineralization are believed to be as follows: Faulting; at or near the end of movement the fault zone was invaded and replaced by quartz; the quartz was slightly fractured and sheared; copper-bearing solutions deposited copper minerals.

Copper minerals now in evidence include bornite as masses up to one-inch in diameter confined mostly to the foot wall, malachite as coatings and stains, and a little chalcopyrite. No pyrite was observed, but impressions of pyrite crystals can be seen against the quartz. Apparently the pyrite in the near surface zone has been completely oxidized. With greater depth it is believed that pyrite will be abundant.

The thickness of the mineralized zone is variable. Maximum thickness observed was about three feet. Occasionally the vein is less than one inch thick. There is variation in vein thickness along both strike and dip. It was examined in detail in the lower Adit and in the "Ore Pass" between the lower and upper Adit. In these openings average thickness of vein material is between 6 and 8 inches. As a rule the narrower portions of the vein are more heavily mineralized than where "swells" in the vein occur.

The 16 samples that the applicant had analyzed were taken from the lower Adit. It appears that only high- grade samples were taken; therefore, there is some doubt that these assays represent the grade of ore that could be obtained regularly from the vein.

The Field Team does not believe that the deposit is of sufficient size or richness to justify the exploration requested. Copper mineralization is sporadic and vein thickness is variable, therefore, the Field Team recommends that the exploration aid be denied.

Teague, USGS
Peyton, USBM

Nov. 1, 1951

OFFICE OF THE ADMINISTRATOR

DEFENSE MINERALS ADMINISTRATION WASHINGTON D.C.

Oct 26 8 45 AM '51

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

Room 13, Post Office Building
Knoxville 2, Tennessee

October 24, 1951

Mr. Tom Lyon
Chairman, Coordinating Committee
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMA-1840X - Copper
Atoz Corporation
Box 63, Greenville, North Carolina

Dear Mr. Lyon:

This will acknowledge receipt today of your letter of October 23, transmitting application on the above designated Corporation. Field examination will be made in the near future.

Sincerely,

Benjamin Gildersleeve

Benjamin Gildersleeve for R. A. Laurence
Executive Officer, DMA Field Team
Region VII

FILE COPY
SURNAME:

310

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

Waugh
Gowen
J. Clay
Thayer

OCT 23 1951

a. E. e.

Atos Corporation
Box 63
Greenville, North Carolina

Re: DMA-184OX

Gentlemen:

This is to inform you that your application for aid for an exploration project has been referred to the field team for further study. You will hear from Mr. Robert A. Lawrence, Executive Officer, DMA Field Team Region VII, Room 13, Post Office Building, Knoxville 01, Tennessee, or one of his staff when they are ready to visit your property.

Very truly yours,

SIGNED

10-23

Tom Lyon, Director
Supply Division

RVWaugh:rw
10-16-51

Copy to: Administrator's Reading File
Executive Officer, DMA Field Team VII
Mr. Gowen
Mr. MacLaren
Files-DMA Docket

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

OCT 23 1951

Mr. Robert A. Lawrence,
Executive Officer, DMA Field Team Region VII
Room 13, Post Office Building
Knoxville 01, Tennessee

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. DMA-164OX

Commodity Copper

Applicant Atox Corporation, Box 63, Greenville, North Carolina

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

SIGNED

Chairman
Coordinating Committee

For the Bureau of Mines

For the Geological Survey

6/5/51

Defense Minerals Administration 10-15-51

Review of Application for Exploration Assistance

Docket No. 1590X

Commodity COPPER

Total Amount $20,000

Govt. Participation $10,000

1. Name and Address of Applicant ATOZ CORP

BOX 63 GREENVILLE MARTIN PARROTTA

2. Location of Property [illegible]

[illegible]

3. Mineral or metal COPPER Is it listed in Section 9 of MO-5? YES

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor ✓ Denied indicated by data presented by

c) None Applicant but believe field exam advisable

d) Don't know—needs field examination

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? YES
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? YES

Does the lease have sufficient time to run to cover a future productive period? YES

*question numbers are those of MF-103

7. Are subordination agreements necessary? Yes

a) MF-201? _____

b) MF-202 ✓

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies 1. Be Purchased
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? No

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes

Is a field check needed on this point? No

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? Yes

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? Yes

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? Yes If so, attach a draft.

e) Are the cost estimates reasonable? Yes

f) Should more information be requested from applicant? Yes - MAP

g) Is a field examination necessary to complete Exhibit A? No

11. Exhibit B (question 23-d)*

a) Is it applicable? No

b) If so, are sufficient data furnished? — If so, attach a draft.

c) Is a field check needed? No

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? f & g applicable e not

b) Sufficient data? Yes If so, attach a draft.

c) Are rents and charges reasonable? Yes

d) Is a field check needed? No

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? Yes

c) Is the schedule excessive for the work proposed? ~~Yes~~ No

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? No

EXHIBIT A

21. It is proposed to sink a shaft along the vein of copper now exposed to an approximate depth of 200 ft. below the floor of the present lower tunnel. The vein will be explored on a horizontal direction for about 50 ft, the distance depending upon the findings, in each direction at each 50 ft. level going down.

LABOR	$4480.00
SUPERVISOR & BOARD	576.00
RENTAL OF EQUIPMENT	4800.00
RENTAL OF EQUIPMENT OWNED BY APPLICANT	1280.00
SUPPLIES	3200.00
TOTAL	$19,520.00

23 d NOT APPLICABLE

e NOT APPLICABLE — will buy equipment and not lease project.

f 1 AIR COMPRESSOR,
1 SINKER DRILL WITH ALL HOSE
DRILL STEELS, BITS, TOOLS ETC @ $75/WK $4800

g 1 AIR MOTOR PUMP
1 DRILL COLUMN } @ $20/WK 1280

h DYNAMITE, CAPS & FUSES, OIL & GASOLINE, CARBIDE
MISC HAND TOOLS ETC - @ $50/WK 3200

a. 1 MINER 40 HRS/WK @ $1.00/HR 2560
1 MUCKER 40 HRS/WK @ 75¢/HR 1920

b 1 SUPERVISOR & BLASTER @ $75/WK 4800
BOARD OF SUPERVISOR @ $15/WK 960

C NO APPLICABLE

14. Exhibit E (question 23-c)*

a) Is it applicable? No.

b) Sufficient data? —

c) Reasonable? —

d) Field check needed? No.

15. In your judgment, can the proposed work be done in the proposed time? Yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question?

Reviewed by: [illegible]

[illegible]

[illegible]

Date 10/15/51 J B Sowyer

No Bureau or Survey reports on this deposit therefore exam believed desirable while ~~openings~~ workings are open. Applicant's sampling of lower adit hardly justifies exploration unless for some reason not made clear.

INT.-DUP. SEC., WASH., D.C. 99009

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. ~~200~~ 1840X

Commodity COPPER

Total Amount $20,000

Govt. Participation $10,000

1. Name and Address of Applicant ATOZ CORP.
BOX 63 GREENVILLE, NORTH CAROLINA

2. Location of Property COPPER KNOB MT. SE SECTION OF ASH COUNTY N.C.

3. Mineral or metal COPPER Is it listed in Section 9 of MO-5? YES

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor ✓ Denial indicated by data presented by

c) None Applicant, but believe field exam advisable

d) Don't know—needs field examination

e) Is there an alternative and favorable project? \
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? YES
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? YES

Does the lease have sufficient time to run to cover a future productive period? YES

*question numbers are those of MF-103

7. Are subordination agreements necessary? YES

a) MF-201? _____

b) MF-202 ✓

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower YES

b) Equipment and supplies TO BE PURCHASED
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* YES

d) Water (question 13)* YES

e) Power (question 13)* YES

Is a field check needed on any of these points? NO

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* YES

Is a field check needed on this point? NO

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? YES

If not, are there sufficient data given so that you can describe the project? — If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? NO

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? YES

If not, what part of it is? _____

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? YES

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? YES If so, attach a draft.

e) Are the cost estimates reasonable? YES

f) Should more information be requested from applicant? YES - MAP

g) Is a field examination necessary to complete Exhibit A? NO

11. Exhibit B (question 23-d)*

a) Is it applicable? NO

b) If so, are sufficient data furnished? — If so, attach a draft.

c) Is a field check needed? NO

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? f & g APPLICABLE e NOT

b) Sufficient data? YES If so, attach a draft.

c) Are rents and charges reasonable? YES

d) Is a field check needed? NO

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? YES

b) Is the schedule adequate for the work proposed? YES

c) Is the schedule excessive for the work proposed? NO since project would be closed if it is completed by estimated time of sending

d) Are the proposed wages and salaries reasonable? YES

e) Is a field check needed? NO

EXHIBIT A.

21. It is proposed to sink a shaft along the vein of copper now exposed to an approximate depth of 200 ft. below the floor of the present lower tunnel. The vein will be explored in a horizontal direction for about 50 ft, the distance depending upon the findings, in each direction at each 50 ft. level going down.

LABOR	$4480.00
SUPERVISOR & BOARD	576.00
RENTAL OF EQUIPMENT	4800.00
RENTAL OF EQUIPMENT OWNED BY APPLICANT	1280.00
SUPPLIES	3200.00
TOTAL	$19,520.00

23 d. NOT APPLICABLE

e. NOT APPLICABLE — will buy equipment and rent it to project.

f. 1 AIR COMPRESSOR,
1 SINKER DRILL WITH ALL HOSE
DRILL STEELS, BITS, TOOLS, ETC @ $75/WK. $4800

g. 1 AIRMOTOR PUMP
1 DRILL COLUMN } @ $20/WK 1280

h. DYNAMITE, CAPS & FUSES, OIL & GASOLINE, CARBIDE
MISC HAND TOOLS ETC - @ $50/WK 3200

a. 1 MINER 40 HRS/WK @ $1.00/HR 2560
1 MUCKER 40 HRS/WK @ 75¢/HR 1920

b. 1 SUPERVISOR & BLASTER @ $75/WK 4800
BOARD OF SUPERVISOR @ $15/WK 960

C NO APPLICABLE

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data? –

c) Reasonable? –

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? YES

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question?

Reviewed by: R Ward
C G Johnson
R W Fenwick

Date

No Bureau of Mines or Geol. Survey reports on this deposit, therefore Dexam. believed desirable while workings are open. Applicant's sampling of lower adit hardly justifies exploration unless for some reason not made clear.

INT.-DUP. SEC., WASH., D.C. 99009

In a brief examination report for the U.S.G.S., dated June, 1943, J. H. Espenshade thought "that the deposit is too small in size to be of commercial interest," & that information came from examination of the surface only, due to the caved condition of the mine.

Although I doesn't sound much will be found, I agree that it is advisable to have the field check, on the outside chance that I doesn't see body might be found.

[illegible]

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO :

DATE:

FROM :

SUBJECT:

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. ~~200~~ 1840 X

Commodity COPPER

Total Amount $20,000

Govt. Participation $10,000

1. Name and Address of Applicant ATOZ CORP.
BOX 63 GREENVILLE, NORTH CAROLINA

2. Location of Property COPPER KNOB MT. SE SECTION OF ASH. COUNTY N.C.

3. Mineral or metal COPPER Is it listed in Section 9 of MO-5? YES

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor ✓ (cig) Denial indicated by data presented by Applicant, but believe field exam. advisable.

c) None

d) Don't know—needs field examination

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? YES
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? YES

Does the lease have sufficient time to run to cover a future productive period? YES

*question numbers are those of MF-103

7. Are subordination agreements necessary? YES

a) MF-201? _____

b) MF-202 ✓

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower YES

b) Equipment and supplies TO BE PURCHASED
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* YES

d) Water (question 13)* YES

e) Power (question 13)* YES

Is a field check needed on any of these points? NO

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* YES

Is a field check needed on this point? NO

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? YES

If not, are there sufficient data given so that you can describe the project? — If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? NO

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? YES

If not, what part of it is? _____

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? YES

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? YES If so, attach a draft.

e) Are the cost estimates reasonable? YES

f) Should more information be requested from applicant? YES - MAP

g) Is a field examination necessary to complete Exhibit A? NO

11. Exhibit B (question 23-d)*

a) Is it applicable? NO

b) If so, are sufficient data furnished? — If so, attach a draft.

c) Is a field check needed? NO

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? f & g APPLICABLE e NOT

b) Sufficient data? YES If so, attach a draft.

c) Are rents and charges reasonable? YES

d) Is a field check needed? NO

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? YES

b) Is the schedule adequate for the work proposed? YES
since project will be closed if it is completed before estimated time

c) Is the schedule excessive for the work proposed? NO pending

d) Are the proposed wages and salaries reasonable? YES

e) Is a field check needed? NO

EXHIBIT A.

21. It is proposed to sink a shaft along the vein of copper now exposed to an approximate depth of 200 ft. below the floor of the present lower tunnel. The vein will be explored in a horizontal direction for about 50 ft, the distance depending upon the findings, in each direction at each 50 ft. level going down.

LABOR	$4480.00
SUPERVISOR & BOARD	576.000
RENTAL OF EQUIPMENT	4800.00
RENTAL OF EQUIPMENT OWNED BY APPLICANT	1280.00
SUPPLIES	3200.00
TOTAL	$19,520.00

23 d. NOT APPLICABLE

e. NOT APPLICABLE — will buy equipment and rent it to project.

f. 1 AIR COMPRESSOR,
1 SINKER DRILL WITH ALL HOSE
DRILL STEELS, BITS, TOOLS, ETC @ $75/WK $4800

g. 1 AIR MOTOR PUMP
1 DRILL COLUMN } @ $20/WK 1280

h. DYNAMITE, CAPS & FUSES, OIL & GASOLINE, CARBIDE
MISC HAND TOOLS ETC - @ $50/WK 3200

a. 1 MINER 40 HRS/WK @ $1.00/HR 2560
1 MUCKER 40 HRS/WK @ 75¢/HR 1920

b. 1 SUPERVISOR & BLASTER @ $75/WK 4800
BOARD OF SUPERVISOR @ $15/WK 960

C NO APPLICABLE

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data? —

c) Reasonable? —

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? YES

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question?

Reviewed by: R Warch
O Glenn
R Wilson

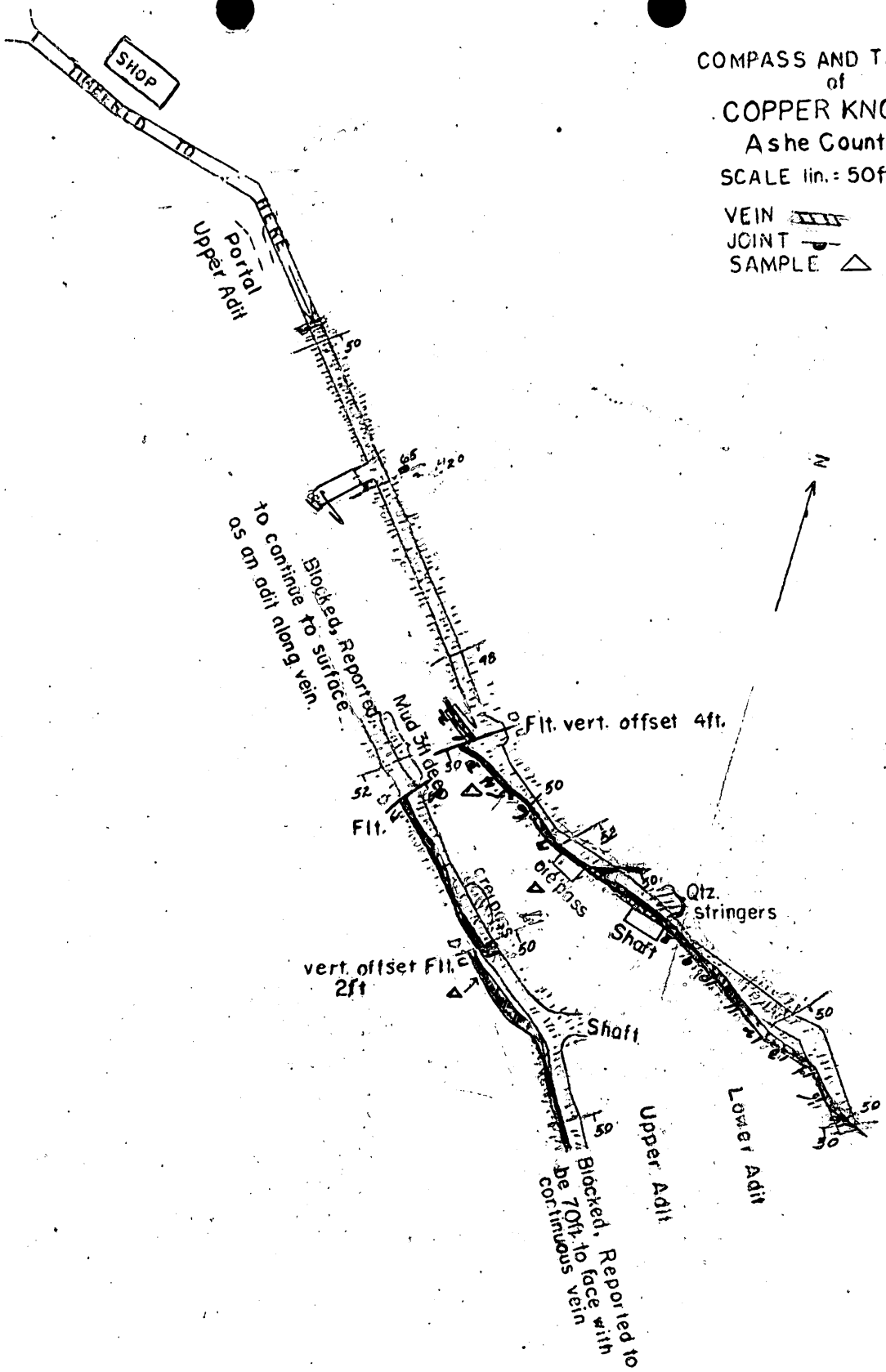
Date 10/15/51 J B Gowen

No Bureau or Survey reports on this deposit therefore exam believed desirable while workings are open. Applicant's sampling of lower adit hardly justifies exploration unless for some reason not made clear.

INT.-DUP. SEC., WASH., D.C. 99009

COMPASS AND TAPE MAP
of
COPPER KNOB MINE
Ashe County, N.C.
SCALE 1in. = 50ft 7-11-50

VEIN
JOINT
SAMPLE
SCHIST
BEDDING



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-1840 X

Date received 7/16/51

Participation

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Name and address of applicant

Date May 23, 1951

FILL IN THIS BLOCK

Date of application May 23, 1951

Estimated cost $20,000

Mineral or metal Copper

Percentage of Government participation Fifty per cent

Location of mine Copper Knob Mountain, southeast section of Ashe County, North Carolina

Date of filing MF-100 May 23, 1951

DMA Docket Number, if available Not available

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.
*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.
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.

Atoz Corporation
(Name of company)

By Mat. P. Moore
(Signature of authorized official)

May 23, 1951
(Date)

President
(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

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

1. Answered on Form M.F.-100

2. Answered on Form M.F.-100

3. Answered on Form M.F.-100

4. Answered on Form M.F.-100

5. Answered on Form M.F.-100

6. Applicant does not own land; it is leased and there are no liens or encumbrances for which the lease is security.

7. A copy of the lease is attached and the lease is in good standing.

8. The company has been operated entirely on an exploratory basis; the money for this has been furnished by the stockholders. There is no financial or profit and loss statement.

9. The applicant is prepared to invest $152.50 per week for a maximum number of 64 weeks. This is one-half of the estimated cost of this project.

10. a. The property which is to be explored is particularly described in the lease held by the applicant, a copy of which is attached as part of this application, in answer to question 7. The lease refers to the deeds which conveyed the property to the lessor. A general description is as follows:

Located in the southeast section of Ashe County, North Carolina, and is on Copper Knob Mountain, and bounded as follows:

Bounded on the north by the lands of B. B. Daughtery, the heirs of D. D. Daughtery and Roe Church; on the east by the lands of V. M. Beroth and Roe Church; on the south by the lands of Arthur Cowles and J. H. Cowles; on the west by the lands of J. H. Cowles and Edmund Fairchild and others. The said tract of land contains one hundred and fifty acres, more or less.

b. The area to be explored is the same as that described in answer to question 10 a.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

11. Answered on Form M.F.-100

12. Answered on Form M.F.-100

13. Answered on Form M.F.-100

14. Answered on Form M.F.-100

15. The ore would be shipped by truck to West Jefferson, North Carolina and there loaded into railroad cars and shipped to a smelter, the nearest one being located in the State of New Jersey.

16. Answered on Form M.F.-100

17. Answered on Form M.F.-100

18. Answered on Form M.F.-100

19. It is the purpose of this application to obtain money to be used with money to be furnished by the applicant, to sink a shaft approximately 200 feet on the vein which is now exposed, in the lower tunnel of this mine.

THE EXPLORATION

20. Vein deposits of copper.

21. It is the purpose of the applicant to sink a shaft along the vein of copper now exposed to an approximate depth of 200 feet below the floor of the present lower tunnel. The vein will be explored in a horizontal direction for about fifty feet, the distance depending upon the findings, in each direction, at each fifty-foot level going down.

It will take approximately fifteen months to make this exploration.

22. This question is answered by the reports which are attached to Form M.F.-100 in answer to question 22.

THE REQUIREMENTS AND COSTS.

23. a. 1 miner - 40 hours per week @$1.00 per hour $ 40.00
1 mucker - 40 hours per week @ .75 per hour 30.00

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

b.	1 supervisor and blaster - salary basis	$ 75.00
	board of supervisor	15.00
c.	None at present, nor anticipated.	
d.	None at present, nor anticipated.	
e.	1 airmotor pump - cost $ 500.00 1 drill on column - cost 750.00 These two pieces of equipment will be purchased by two of the stockholders of the applicant and will be rented to the applicant at the weekly rate of	20.00
f.	1 air compressor, 1 sinker drill with all hose, drill steels, bits, and hand tools and lights and other items now on the job	75.00
g.	The equipment listed in item 23-f and other equipment now at the mine is owned by two of the stockholders and is rented to the applicant on the terms set out in 23-f	
h.	Dynamite, caps and fuses, oil and gasoline, carbide, miscellaneous hand tools, etc.	50.00
	TOTAL ESTIMATED COST PER WEEK	$ 305.00
	Estimated number of weeks to complete project	64
	TOTAL ESTIMATED COST OF PROJECT	$ 19,520.00

The estimated number of weeks to complete project is based on a maximum; it is hoped that the time will be much less than 64 weeks.

24. It is estimated that the project will go forward at the minimum rate of sixteen feet of excavation of the shaft per month. The cost per month of the work is estimated not to exceed $1,220.00.

NORTH CAROLINA

ASHE COUNTY

AGREEMENT
MINING AND MINERAL
LEASE AND OPTION

THIS AGREEMENT made and entered into between V. L. Moretz, of Deep Gap, Ashe County, North Carolina, party of the first part, and Frank E. Lloyd of Salisbury, Rowan County, North Carolina, Mart P. Moore of Greenville, Pitt County, North Carolina, and James P. Moore, of Gary, Lake County, Indiana, parties of the second part, each having a one-third (1/3) interest;

WITNESSETH:

That for and in consideration of the sum of One Dollar ($1.00) the receipt of which is hereby acknowledged, the said party of the first part, owner of a certain mineral right in Ashe County, North Carolina, known as Copper Knob or Gap Creek Mine, and until recently owned by the Monaton Mining Company, of New York, New York, but forfeited by them for non-payment of taxes, and containing one hundred fifty (150) acres, more or less (all of the lands once owned by the above mentioned Monaton Mining Company), reference to which is hereby made to a certain deed dated May 6, 1914, from the Monaton Mining Company of New York to L. M. Waters and V. L. Moretz, and recorded in Book O-1, page 568, Ashe County, N. C., Register of Deeds office, and to that certain deed recorded in Book 1, page 91, Ashe County, N. C., Register of Deeds office, from Ira T. Johnston, Comr., to V. L. Moretz, conveying the mineral rights to the above tract of land, formerly owned by the Monaton Mining Company, does hereby give and grant to the parties of the second part for a term of three (3) years a lease and option to purchase the mineral and mining rights and surface rights in accordance with the following terms and conditions.

1. Price of mining and mineral rights - Fifteen Thousand Dollars ($15,000.00), to be paid as follows: Ten per cent (10%) of sale price of returns from smelter (less freight and smelter penalties) of all ore sold shall be paid to Mr. V. L. Moretz, his heirs or assigns, or deposited to his account in any bank designated by him, to be credited on the above price.

2. Thirty per cent (30%) of the Fifteen Thousand Dollars ($15,000.00) to be paid by the end of three (3) years from July 1, 1948. Said thirty per cent to be derived from the sale of any ores or minerals taken from the mine.

3. Then ten per cent (10%) of any remaining balance to be paid at end of each year thereafter and the lease and option thereby automatically extended as long as payments are made.

4. Price of surface rights - Three Thousand Dollars ($3,000.00) to be paid any time, by agreement of all parties, during the life of this lease and option. Surface rights shall cover all of the land once owned by the above mentioned Monaton Mining Company, except parts deeded to Mr. Roe Church and William Greer (now owned by John Edward Cheek). All mining and mineral rights of these two tracts are contained in this lease and option of mineral rights.

5. This lease and option voids and supercedes a lease and option to purchase the above mineral, mining and surface rights to the above mentioned property, dated September 11, 1946, between Mr. V. L. Moretz, of Deep Gap, North Carolina, and Mr. Frank M. Lloyd, of Salisbury, North Carolina.

6. The parties of the second part agree that if no work of any kind is done for a continuous period of one (1) year this lease shall become null and void unless amended.

7. The parties of the second part and their agents, associates or assigns shall, at all times during the life of this lease and option, have full access to the property, with all privileges of ingress and egress, also the right to cut and use such small timber as may be necessary for props, stulls, and other mining timbers to make shafts and tunnels safe for all working and mining purposes.

8. The parties of the second part shall also have the privilege of erecting any building, machinery, making any surface excavations and fills that they may deem necessary for the operation of the mine, extraction of minerals, reduction and shipping of ores or minerals encountered, and the right to remove such houses and machinery within six (6) months after the expiration of this agreement, if, for any reason, this lease and option is not fully completed.

Both parties to this contract agree that this lease and option may be amended by mutual agreement from time to time if deemed necessary.

Upon receipt of final payment of the aforementioned mineral right, surface right, or both, the party of the first part, his heirs and assigsn, agrees to deliver to the parties of the second part good and sufficient warranty deeds to the properties or rights mentioned.

Both parties to this contract agree for their heirs and assigns to each and every condition herein set forth.

WITNESS our hands and seals this first day of July, nineteen and forty-eight.

V. L. Moretz (SEAL)

Frank E. Lloyd (SEAL)

Mart P. Moore (SEAL)

James P. Moore (SEAL)

The above lease is duly recorded in the Register of Deeds office, Ashe County, North Carolina, at Jefferson, North Carolina.

LEASE EXTENSION

For and in consideration of the sum of one dollar, ($1.00) the receipt whereof is hereby acknowledged - the party of the first part - V. L. Moretz of Deep Gap, North Carolina does hereby agree to extend the foregoing lease and option on a certain mineral right in Ashe County, North Carolina dated July 1, 1948 and hereunto attached - consisting of (150) one hundred and fifty acres more or less - to parties of the second part viz.

Frank E. Lloyd	Salisbury, N. C.
Mart P. Moore	Greenville, N. C.
James P. Moore	Gary, Indiana

for a term of two years - thus, making first payment of ($4,500.00) four thousand five hundred dollars due July 1, 1953 instead of July 1, 1951. All other conditions and terms remaining the same but to conform to the new date of first payment.

All parties agreeing for themselves, their heirs and assigns to the above.

Witness our hands and seals this 18th day of June 1951.

s/ V. L. Moretz

s/ Frank E. Lloyd

S/ Mart P. Moore

s/ James P. Moore

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma-1840 X

Date received 7/16/51

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Name and address of applicant

Date May 23, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) ~~Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code~~ priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production Answered supplement sheet

   If not in production or operation, estimated date when production will begin Answered supplement sheet
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
ANSWERED SUPPLEMENT SHEET							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock ANSWERED SUPPLEMENT SHEET	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	ANSWERED SUPPLEMENT SHEET				
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

Atoz Corporation
(Name of company)

By Mart P Moore
(Signature of authorized official)

May 23, 1951
(Date)

President
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

1. Materials produced:

   a. copper

   b. gold and silver

2. Name and type of mine:

   Copper Knob Mine and it is a drilling operation.

   There is attached hereto a map showing the location and extent of the workings.

   a. 140 feet

   b. 46 feet

   c. upper tunnel approximately 200 feet - upper tunnel 60 feet below surface at the shaft. Lower tunnel 445 feet - lower tunnel 60 feet below upper tunnel.

   d. none

   The mine is not flooded. Water will have to be pumped from the shaft when it is extended below the floor of the present lower tunnel.

   Do not know what the "size or productive capacity" refers to.

3. a. 14 miles southeast from West Jefferson, N. C., which is on the Norfolk and Western Railroad.

   b. Do not know what mining district this area is in.

   c. Do not know what Township it is in.

   d. Southeast corner of Ashe County, North Carolina.

4. a. The mine is not now producing--it is in the process of being explored.

   b. Lessee.

5. The mine was in operation for a period of approximately five years between 1880 and 1893. It has not been operated since that time.

   It is not known when the mine can be placed in production as this is dependent upon the findings of the present exploratory operation.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

6. The certificate of incorporation for the applicant was issued on the 18th day of September, 1950, and the organizational meeting of the stockholders was held on the 4th day of November, 1950. The three men who will manage the corporation (applicant) own eighty per cent of the stock which is outstanding. These three men and their qualifications are:

   Hart P. Moore, President and Treasurer
   Has been a construction and excavation contractor for forty years. He has had experience in the construction and operation of practically every type of heavy machinery.

   Frank E. Lloyd, Vice-President and Assistant Secretary
   Has worked for and managed gold, silver and copper mines in the United States and Mexico for more than forty-five years. He is a qualified mining engineer, geologist and assayist.

   James P. Moore
   He is a graduate of the College of Mines of the University of Missouri and of the University of Alabama; he holds degrees given by both of these schools. He has practical experience gained by working in several mines in the western States. He now has charge of all construction work done by the United States Steel Company at its Gary, Indiana plant.

   W. E. Keeter, Jr., Secretary
   He is now President and Treasurer of the Southern Wipers, Inc. of Charlotte, North Carolina. He has had much experience in accounting and the management of a manufacturing business.

7. There are attached hereto reports of several geologists. These reports answer sections a, b and c of this question.

8. Names and addresses of Officers, Directors, etc.
   (See attached sheet)

9. Capital Stock Issues:
   (See attached sheet)

10. Production:

    This mine has been operated on an exploratory rather than a production basis. It does not have a production record.

11. Not applicable.

8. Name and addresses of Officers, Directors, etc.

(a)	(b)	(c)	(d)	(e)	(g)	(h)
Mart P. Moore Deep Gap, N. C.	President & Treasurer/ D 5	None Paid	$15,000	$8,500	None	None
Frank E. Lloyd 112 S. Fulton St. Salisbury, N. C.	Vice-President & Assistant Sec'y/D	None Paid	10,000	10,000	None	None
James P. Moore 336 Tyler St. Gary, Indiana	Director	None Paid	30,000	10,000	None	None
W. E. Keeter, Jr. 3031 Fairfax Drive Charlotte, N. C.	Secretary/D	None Paid	20,000	500	None	None
Chauncey Moore Captain, U.S.Navy U.S.Naval Station Green Cove Springs ,Fla.	Director	None Paid	15,000	1,500	None	None
			Total	$ 30,500		

9. Capital Stock Issues

	(a)	(b)	(c)	(d)	(e)
Common Stock	$50,000.00	$31,500.00	$1.00	31,500	none paid
Preferred Stock	None authorized by Charter				

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

The following is taken from N. C. Department of Conservation and Development Bulletin No. 38, page 144, Ashe County.

The Copper Knob (or Gap Creek) Mine is located in the southern part of Ashe County on the waters of New River. At this mine there are three quartz veins, only one of which has been worked to any extent. This vein lies in a large body of horne blend schist, but the prevalent country rock is a gray griss, with a strike N. 60 E. and a dip 40 degrees S. E.

The vein is principally quartz, which, in the upper part, contained a great deal of iron oxide extraordinarily rich in gold. The mineralized seam occupied the center of the quartz fissue and varies from four to six inches in thickness. At the sixty-foot level the vein carried copper ores for 53 feet; then the quartz changed slightly and carried native gold, with brown oxide, for a distance of about 36 feet. At this point the strike changed to N. 43 W.; the vein seemed to be more mineralized on the northwest than on the southeast side of the workings. The ore is complex-viterous copper ore, malachite, chrysocolla, a very little chalcopyrite and brown ore. The iron pyrite is almost wanting. The ore seam increased somewhat in width as a greater depth was reached. The shaft was sunk to a depth of 60 feet with satisfactory results and subsequently deepened to 140 feet. At this stage the mine became the prey of a company of speculators. Those persons familiar with the last work stated that the mine continued good as far as explorations extended.

The nature and value of the ore is shown by the following assays: $8.62, $34.79, $57.36, $77.51 gold and $2.26, $25.50, $14.53, $45.68 per ton silver. The copper content varied from 23 to 37 per cent.

REPORT ON COPPER KNOB MINE

This mine is situated in the southeast corner of Ashe County, North Carolina, in the Blue Ridge Mountains, about 2½ miles from Bowie, the nearest railroad station on the Virginia-Carolina Railroad.

The mine is favourably mentioned in the published State reports and has been examined by several State Officials. Prof. Emmons, formerly State Geologist, writes as follows:- In the course of my examination of the geological features of the Western Counties of North Carolina, I had occasion to examine the Copper Knob Mine, situated in Ashe County, North Carolina. The special mineral which prevails is the vitreous ores Sulphurette of copper, together with the blue carbons, chrysocolla or silicate of copper. I did not notice any of the yellow sulphurat, though the most characteristic speciman came from a depth of from fifty to sixty feet. This fact furnishes an indication that the viterous ores are likely to prevail and an ore which on an average will probably be twice as rich as the yellow sulphurette.

This is a true vein and has a perfect regularity in direction as well as its walls. Its strike or direction is S. 35 degrees. The width being eighteen inches at the surface and 18 to 24 inches at different depths below ground. It appears to occupy a vein fissure formed prior to the time that it became filled with mineral matter, and therefore it is highly probable it is destined to be a permanent vein.

The walls in which it is encased is a hornblende slate which appears to have been altered. It is only a quarter of a mile wide and seems to be intruded into a talco-micaceous schist.

The main body of the ore, will be encountered at bout 350 feet, from the mouth of the tunnel, then every foot that is driven from that

point, it will gain a foot in depth, as the course of the vein is right into the body of the mountain. This vein contrary to the rule, cuts the stratified formation at right angles and has therefore been pronounced a true fissure.

The following assays and results are what has been done. At present the mine is caved in and must be opened by an adit level driven in from the foot of the mountain. This has been started and is in about one hundred feet, at which point, it is nearing the vein as indicated by copper in the slates.

In order to open up the mine it will be necessary to drive the bottom level to connect with the bottom level from the shaft and then on into the mountain. The ore below the bottom level is a heavy sulphurette, and well adapted to concentration. The high grade ores can be hand picked and shipped to smelter. The low grade concentrated to a product that will readily stand shipment at a good profit.

The country is beautiful, climate healthy and invigorating, labor cheap and plentiful.

ASSAYS BY UNITED STATES ASSAY OFFICE

No. 1 Best Ore	Gold 3.75/100 ozs.	$75.00	
	Silver 35 "	18.00	
	Copper 37.44 %	89.76	
	Total	$182.76	per ton

No. 2. Sample shipped to New York and sold

Gold 2-35/100	$47.50	
Silver 11.235	6.05	
Copper 23%	55.20	
Total	$108.75	per ton

No. 3. Ore shipped to smelter, Newark, N. J.

Gold	$11.00	
Silver	12.00	
Copper	18.00	
Total	$41.00	per ton

No. 4. Concentrates made at mine, 12 into 1 and sent smelter.

Gold	$185.00	
Silver	12.00	
Copper	67.20	
Total	$264.20	per ton

These assays were based on silver at about fifty cents per oz. and copper at around twelve cents.

In prospecting this Copper Knob Mine, a shaft was sunk to a depth of fifty to sixty feet, and a tunnel was driven in to connect with shaft. Then the shaft was continued to a depth of 105 feet, and another tunnel starting at the foot of the hill was driven in to connect with the shaft, a distance of between two and three hundred feet. Then a car load of vein matter was taken out and shipped to the smelter in New Jersey. All matter taken from the vein was included in shipment.

Richard Eames, Jr., E.M.

COPPER KNOB GOLD MINE

Ashe County, North Carolina

From reports by B. C. Nitze, Richard Eames, Jr. and George B. Hanna, Geologists and Mining Engineers:

The property consists of one hundred and fifty acres mineral right with all mining rights and privileges, and is located in the heart of the Blue Ridge Mountains in the southern part of Ashe County, North Carolina, on the waters of New River, ten miles from the town of Boone, N. C., and lies only a mile off the paved highway connecting that town with Wilkesboro, making it much more accessable than in the past days of operation.

There are three quartz veins on the property, though only one has been worked to any extent. It lies in a large body of hornblende schist but the prevalent country rock of the district is a grey gneiss, with a strike N. 60 E. and dip 40 degrees S.E. The strike of the fissure is N. 45 W. and dip 40 degrees N.E., thus, contrary to rule, the vein cuts the stratified formation at almost right angles and has been pronounced a true fissure with great possibilities of unusual permanence and depth.

In prospecting this property a shaft was sunk to a depth of 60 feet and a tunnel driven in to connect with the shaft--then the shaft was continued to a depth of about 120 feet and another tunnel, starting at the foot of the hill was driven in to connect with the shaft, a distance of something over 200 feet. It has been extimated that the main body of ore will be encountered at a point around three hundred feet from the mouth of the lower tunnel.

The vein stone in the upper workings was accompanied by a selvage of iron oxide extraordinarily rich in gold. The mineral seam occupying the center of the quartz fissure which varies in width from fourteen inches to three feet. On the N. W. course along the 60-foot level the vein contains copper ores bearing values in both silver and gold for 53 feet then the quartz becomes slightly changed and carried native gold in a brown oxide of iron for about 36 feet. Here the bearing changes to N. 43 W.

The ore is slightly complex, viterous copper ore, malachite, brown oxides, etc., very little chalcopyrite or iron pyrites, but all being well adapted to concentration. The high grade ores can be hand picked and shipped to smelter and the low grade concentrated to a product that will readily stand shipment at a good profit.

About the time that the mine reached its present state of development it became the prey of a company of speculators, resulting shortly in financial distress and cessation of operation. However, the concurrent testimony of many persons cognisant of the last work is, that the resources of the mine continued good as far as the exploration extended.

Climatic conditions are ideal and work can be carried on all the year round. Labor efficient, cheap and plentiful. Produce and provisions of all kinds easily obtainable at extremely reasonable prices. Fuel and water in abundance for all mining purposes on and in close proximity to the mine.

The nature of some of the ore is shown by accompanying assays:-

ASSAYS FROM COPPER KNOB GOLD MINE

Ashe County, North Carolina

		Gold	Silver	Copper
No. 307		$ 8.62	$ 2.26	
No. 380		34.70	22.50	
N. 309		57.36	14.53	23.83%
No. 310		77.51	45.68	37.44%
No. 1	Good Ore	75.00	18.00	36.34%
No. 2	Sample shipment to N.Y.	47.50	6.05	23 %
No. 3	Shipment to N.J. Smelter	11.00	12.00	8.33%
No. 4	A 12 into 1 concentrate shipped to smelter	185.00	42.25	27.50%

N.B. These being old assays, naturally were based on the old price of gold, $20.67 per oz. and silver around sixty cents. The present price of gold will increase the above gold results seventy-five per cent.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

12. Ore or Mineral Reserves:

a. This is answered by the reports which are part of the answer to question 7.

b. 1. There is attached hereto a report of assays made within the past thirty days. A map showing the location of the points where the samples were taken from the mine is attached to the report of the assays.

2. Not applicable.

c. Not placer.

13. Access Roads:

West Jefferson, North Carolina is approximately 14 miles northwest of the mine and it is the shipping, supply and residence point. It is connected with the mine by an all weather surfaced paved road, with the exception of the first half mile from the mine, which is a State maintained stone surfaced road.

14. Water Supply:

Springs and branches and is available in an abundant supply for a year-round operation.

15. Power:

Present equipment is operated by gasoline powered engines. Electricity is available to the extent of 30 horse power and is furnished by a R. E. A. line.

16. Labor:

Two miners

17. Equipment and Facilities:

One wooden frame building, 10 x 12, used as house for air compressor.

One wooden frame building, 12 x 12, used as equipment, tool and storage house.

Both houses in good condition.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

SAMPLE NUMBER	GOLD OZS.	SILVER OZS.	COPPER PERCENT	VEIN THICKNESS	DISTANCE
1	0.06	1.14	3.88	9 inches	
2	0.19	0.31	1.01	6 inches	7 feet from No. 1
3	0.52	1.12	1.56	5 inches	13 feet from No. 1
4	0.03	0.10	1.77	6 inches	7 feet from No. 3
5	0.16	0.34	43.18	5 inches	6 feet from No. 4
6	0.46	0.66	1.82	6 inches	4 feet from No. 5
7	0.22	0.54	0.50	9 inches	11½ feet from No. 6
8	0.05	0.19	0.05	6 inches	66 feet from No. 7--This is across ore pass and shaft where no samples could be obtained and the bottom has been stoped out and is under water and mud and refuse stone.
9	0.02	0.10	0.15	9 inches	12 feet from No. 8
10	0.06	0.46	0.87	10 inches	14 feet from No. 9
11	0.05	0.43	0.56	16 inches	10 feet from No. 10
12	0.04	0.24	0.72	36 inches	10 feet from No. 11
13	0.01	0.05	0.11	6 inches	10 feet from No. 12
14	0.01	0.07	0.10	24 inches	10 feet from No. 13
15	0.01	0.07	0.03	10 inches	16 feet from No. 14
16	0.01	0.15	0.02	6 inches	11 feet from N. 15
17	0.09	1.11	3.69	8 inches	in ore pass 30 feet up
18	0.06	0.78	0.93	10 inches	in upper tunnel

The above figures are taken from a Certificate of Assay prepared by The Henry E. Wood Assaying Company, 1750 Arapahoe Street, Denver, Colorado, the Certificate being dated the 21st day of April, 1951.

Sample No. 17 taken half way up ore pass to next tunnel. No. 18 taken at top tunnel between shaft and ore pass.

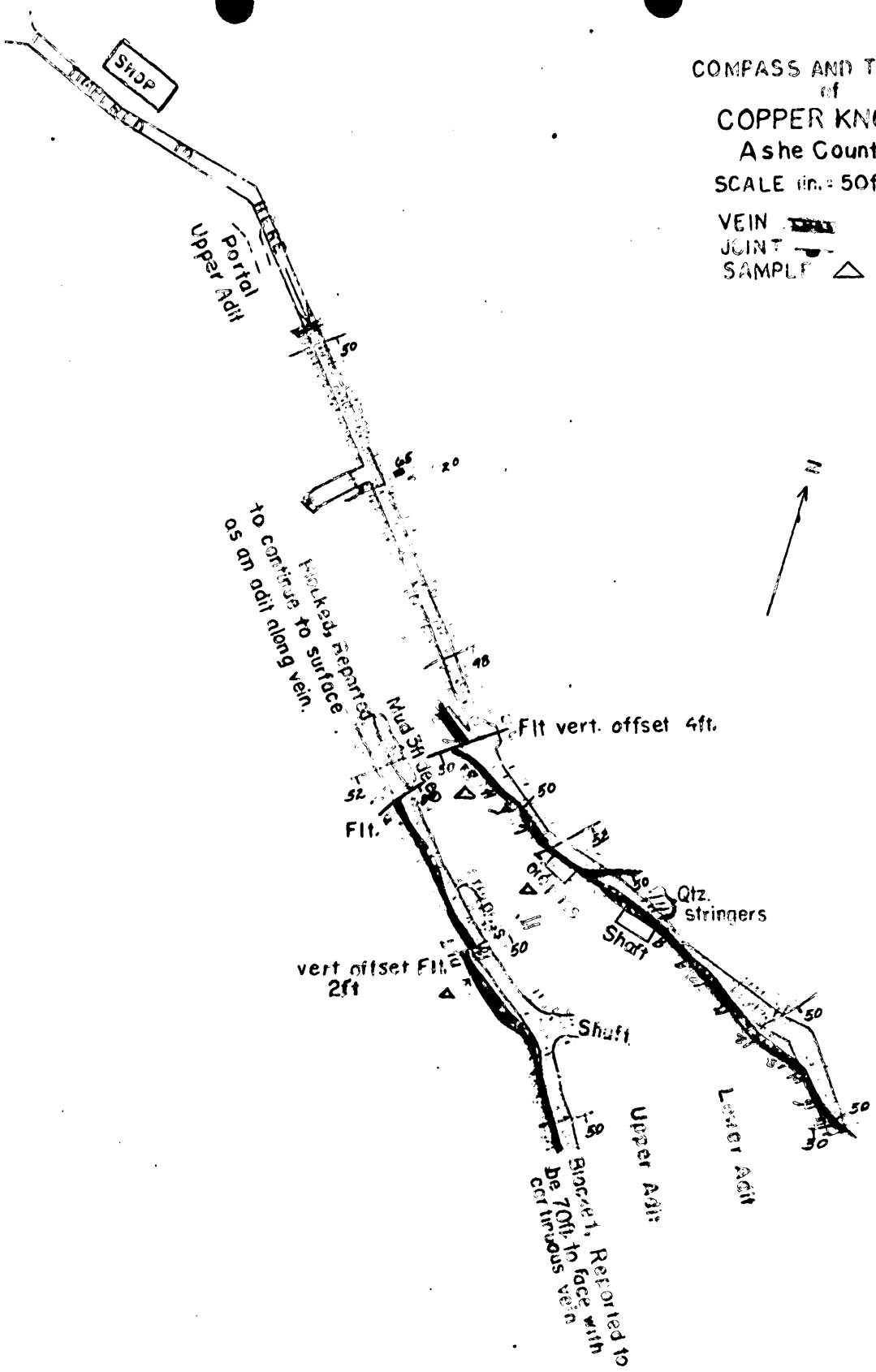
3. Nature of Business and Description of Project

SUPPLEMENT SHEET 3-C

SAMPLE NUMBER	GOLD OZS.	SILVER OZS.	COPPER PERCENT	VEIN THICKNESS	DISTANCE
1	0.06	1.14	3.88	9 inches	
2	0.19	0.31	1.01	6 inches	7 feet from No. 1
3	0.52	1.12	1.56	5 inches	13 feet from No. 1
4	0.03	0.10	1.77	6 inches	7 feet from No. 3
5	0.16	0.34	43.18	5 inches	6 feet from No. 4
6	0.46	0.66	1.82	6 inches	4 feet from No. 5
7	0.22	0.54	0.50	9 inches	11½ feet from No. 6
8	0.05	0.19	0.05	6 inches	66 feet from No. 7--This is across ore pass and shaft where no samples could be obtained and the bottom has been stoped out and is under water and mud and refuse stone.
9	0.02	0.10	0.15	9 inches	12 feet from No. 8
10	0.06	0.46	0.87	10 inches	14 feet from No. 9
11	0.05	0.43	0.56	16 inches	10 feet from No. 10
12	0.04	0.24	0.72	36 inches	10 feet from No. 11
13	0.01	0.05	0.11	6 inches	10 feet from No. 12
14	0.01	0.07	0.10	24 inches	10 feet from No. 13
15	0.01	0.07	0.03	10 inches	16 feet from No. 14
16	0.01	0.15	0.02	6 inches	11 feet from No. 15
17	0.09	1.11	3.69	8 inches	in ore pass 30 feet up.
18	0.06	0.78	0.93	10 inches	in upper tunnel

The above figures are taken from a Certificate of Assay prepared by The Henry E. Weed Assaying Company, 1750 Arapahoe Street, Denver, Colorado, the Certificate being dated the 21st day of April, 1951.

Sample No. 17 taken half way up ore pass to next tunnel. No. 18 taken at top tunnel between shaft and ore pass.


COMPASS AND TAPE MAP
of
COPPER KNOB MINE
Ashe County, N.C.
SCALE in. = 50ft 7-11-50
VEIN
JOINT
SAMPLE
SCHIST
BEDDING
N
Shop
Portal
Upper Adit
Blocked, Reported to continue to surface as an adit along vein.
Mud Sill Jet
Flt vert. offset 4ft.
Flt.
Qtz. stringers
Shaft
vert offset Flt. 2ft
Shaft
Upper Adit
Lower Adit
Blocked, Reported to be 70ft to face with continuous vein

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Equipment:

105 cubic feet Worthington Air Compressor.

One sinker drill; 14 drill steels, various lengths; 75 drill bits, including four carbondum insert bits; one five h.p. gaseline driven water pump. All necessary hand tools, air and water hose in sufficient quantity.

18. It is the purpose of this application to obtain money to be used with money to be furnished by the applicant, to sink a shaft approximately 200 feet on the vein which is now exposed, in the lower tunnel of this mine.

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-1840X

Date received 7/16/51

Participation

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Name and address of applicant

Date May 23, 1951

FILL IN THIS BLOCK

Date of application May 23, 1951

Estimated cost 26,000

Mineral or metal Copper

Percentage of Government participation Fifty per cent

Location of mine Copper Knob Mountain, southeast section of Ashe County, North Carolina

Date of filing MF-100 May 23, 1951

DMA Docket Number, if available Not available

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.
*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.
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.

Atoz Corporation
(Name of company)

By Mark P. Moore
(Signature of authorized official)

May 23, 1951
(Date)

President
(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

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

1. Answered on Form M.F.-100

2. Answered on Form M.F.-100

3. Answered on Form M.F.-100

4. Answered on Form M.F.-100

5. Answered on Form M.F.-100

6. Applicant does not own land; it is leased and there are no liens or encumbrances for which the lease is security.

7. A copy of the lease is attached and the lease is in good standing.

8. The company has been operated entirely on an exploratory basis; the money for this has been furnished by the stockholders. There is no financial or profit and loss statement.

9. The applicant is prepared to invest $152.50 per week for a maximum number of 64 weeks. This is one-half of the estimated cost of this project.

10. a. The property which is to be explored is particularly described in the lease held by the applicant, a copy of which is attached as part of this application, in answer to question 7. The lease refers to the deeds which conveyed the property to the lessor. A general description is as follows:

Located in the southeast section of Ashe County, North Carolina, and is on Copper Knob Mountain, and bounded as follows:

Bounded on the north by the lands of D. B. Daughtery, the heirs of D. D. Daughtery and Roe Church; on the east by the lands of V. M. Beroth and Roe Church; on the south by the lands of Arthur Cowles and J. H. Cowles; on the west by the lands of J. H. Cowles and Edmund Fairchild and others. The said tract of land contains one hundred and fifty acres, more or less.

b. The area to be explored is the same as that described in answer to question 10 a.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

11. Answered on Form M.F.-100

12. Answered on Form M.F.-100

13. Answered on Form M.F.-100

14. Answered on Form M.F.-100

15. The ore would be shipped by truck to West Jefferson, North Carolina and there loaded into railroad cars and shipped to a smelter, the nearest one being located in the State of New Jersey.

16. Answered on Form M.F.-100

17. Answered on Form M.F.-100

18. Answered on Form M.F.-100

19. It is the purpose of this application to obtain money to be used with money to be furnished by the applicant, to sink a shaft approximately 200 feet on the vein which is now exposed, in the lower tunnel of this mine.

THE EXPLORATION

20. Vein deposits of copper.

21. It is the purpose of the applicant to sink a shaft along the vein of copper now exposed to an approximate depth of 200 feet below the floor of the present lower tunnel. The vein will be explored in a horizontal direction for about fifty feet, the distance depending upon the findings, in each direction, at each fifty-foot level going down.

It will take approximately fifteen months to make this exploration.

22. This question is answered by the reports which are attached to Form M.F.-100 in answer to question 22.

THE REQUIREMENTS AND COSTS.

23. a. 1 miner - 40 hours per week @$1.00 per hour $ 40.00
1 mucker - 40 hours per week @ .75 per hour 30.00

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

b.	1 supervisor and blaster - salary basis	$ 75.00
	board of supervisor	15.00
c.	None at present, nor anticipated.	
d.	None at present, nor anticipated.	
e.	1 airmotor pump - cost $ 500.00 1 drill on celumn - cost 750.00	
	These two pieces of equipment will be purchased by two of the stockholders of the applicant and will be rented to the applicant at the weekly rate of	20.00
f.	1 air compressor, 1 sinker drill with all hose, drill steels, bits, and hand tools and lights and other items now on the job	75.00
g.	The equipment listed in item 23-f and other equipment now at the mine is owned by two of the stockholders and is rented to the applicant on the terms set out in 23-f	
h.	Dynamite, caps and fuses, oil and gasoline, carbide, miscellaneous hand tools, etc.	50.00
	TOTAL ESTIMATED COST PER WEEK	$ 305.00
	Estimated number of weeks to complete project	64
	TOTAL ESTIMATED COST OF PROJECT	$ 19,520.00

The estimated number of weeks to complete project is based on a maximum; it is hoped that the time will be much less than 64 weeks.

24. It is estimated that the project will go forward at the minimum rate of sixteen feet of excavation of the shaft per month. The cost per month of the work is estimated not to exceed $1,220.00.

NORTH CAROLINA

ASHE COUNTY

AGREEMENT
MINING AND MINERAL
LEASE AND OPTION

THIS AGREEMENT made and entered into between V. L. Moretz, of Deep Gap, Ashe County, North Carolina, party of the first part, and Frank E. Lloyd of Salisbury, Rowan County, North Carolina, Mart P. Moore of Greenville, Pitt County, North Carolina, and James P. Moore, of Gary, Lake County, Indiana, parties of the second part, each having a one-third (1/3) interest;

WITNESSETH:

That for and in consideration of the sum of One Dollar ($1.00) the receipt of which is hereby acknowledged, the said party of the first part, owner of a certain mineral right in Ashe County, North Carolina, known as Copper Knob or Gap Creek Mine, and until recently owned by the Monaton Mining Company, of New York, New York, but forfeited by them for non-payment of taxes, and containing one hundred fifty (150) acres, more or less (all of the lands once owned by the above mentioned Monaton Mining Company), reference to which is hereby made to a certain deed dated May 6, 1914, from the Monaton Mining Company of New York, to L. M. Waters and V. L. Moretz, and recorded in Book 0-1, page 568, Ashe County, N. C., Register of Deeds office, and to that certain deed recorded in Book 1, page 91, Ashe County, N. C., Register of Deeds office, from Ira T. Johnston, Comr., to V.L. Moretz, conveying the mineral rights to the above tract of land, formerly owned by the Monaton Mining Company, does hereby give and grant to the parties of the second part for a term of three (3) years a lease and option to purchase the mineral and mining rights and surface rights in accordance with the following terms and conditions.

1. Price of mining and mineral rights - Fifteen Thousand Dollars ($15,000.00), to be paid as follows: Ten per cent (10%) of sale price of returns from smelter (less freight and smelter penalties) of all ore sold shall be paid to Mr. V. L. Moretz, his heirs or assigns, or deposited to his account in any bank designated by him, to be credited on the above price.

2. Thirty per cent (30%) of the Fifteen Thousand Dollars ($15,000.00) to be paid by the end of three (3) years from July 1, 1948. Said thirty per cent to be derived from the sale of any ores or minerals taken from the mine.

3. Then ten per cent (10%) of any remaining balance to be paid at end of each year thereafter and the lease and option thereby automatically extended as long as payments are made.

4. Price of surface rights - Three Thousand Dollars ($3,000.00) to be paid any time, by agreement of all parties, during the life of this lease and option. Surface rights shall cover all of the land once owned by the above mentioned Monaton Mining Company, ex cept parts deeded to Mr. Roe Church and William Greer (now owned by John Edward Cheek). All mining and mineral rights of these two tracts are contained in this lease and option of mineral rights.

5. This lease and option voids and supercedes a lease and option to purchase the above mineral, mining and surface rights to the above mentioned property, dated September 11, 1946, between Mr. V. L. Moretz, of Deep Gap, North Carolina, and Mr. Frank M. Lloyd, of Salisbury, North Carolina.

6. The parties of the second part agree that if no work of any kind is done for a continuous period of one (1) year this lease shall become null and void unless amended.

7. The parties of the second part and their agents, associates or assigns shall, at all times during the life of this lease and option, have full access to the property, with all privileges of ingress and egress, also the right to cut and use such small timber as may be necessary for props, stulls, and other mining timbers to make shafts and tunnels safe for all working and mining purposes.

8. The parties of the second part shall also have the privilege of erecting any building, machinery, making any surface excavations and fills that they may deem necessary for the operation of the mine, extraction of minerals, reduction and shipping of ores or minerals encountered, and the right to remove such houses and machinery within six (6) months after the expiration of this agreement, if, for any reason, this lease and option is not fully completed.

Both parties to this contract agree that this lease and option may be amended by mutual agreement from time to time if deemed necessary.

Upon receipt of final payment of the aforementioned mineral right, surface right, or both, the party of the first part, his heirs and assigns, agrees to deliver to the parties of the second part good and sufficient warranty deeds to the properties or rights mentioned.

Both parties to this contract agree for their heirs and assigns to each and every conditim herein set forth.

WITNESS our hands and seals this first day of July, nineteen and forty-eight.

V. L. Moretz (SEAL)

Frank E. Lloyd (SEAL)

Mart P. Moore (SEAL)

James P. Moore (SEAL)

The above lease is duly recorded in the Register of Deeds office, Ashe County, North Carolina, at Jefferson, North Carolina.

LEASE EXTENSION

For and in consideration of the sum of one dollar, ($1.00) the receipt whereof is hereby acknowledged - the party of the first part - V. L. Moretz of Deep Gap, North Carolina does hereby agree to extend the foregoing lease and option on a certain mineral right in Ashe County, North Carolina dated July 1, 1948 and hereunto attached - consisting of (150) one hundred and fifty acres more or less - to parties of the second part viz.

Frank E. Lloyd	Salisbury, N. C.
Mart P. Moore	Greenville, N. C.
James P. Moore	Gary, Indiana

for a term of two years - thus, making first payment of ($4,500.00) four thousand five hundred dollars due July 1, 1953 instead of July 1, 1951. All other conditions and terms remaining the same but to conform to the new date of first payment.

All parties agreeing for themselves, their heirs and assigns to the above.

Witness our hands and seals this 18th day of June 1951.

s/ V. L. Moretz

s/ Frank E. Lloyd

s/ Mart P. Moore

s/ James P. Moore

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-1840 X

Date received 7/16/51

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Name and address of applicant

Date **May 23, 1951**

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, ~~(4) Necessity Certificate pursuant to the provisions of Sec. 124A (Amortization Deduction) of Internal Revenue Code, 1950, (5)~~ priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).
   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production **Answered supplement sheet**
   If not in production or operation, estimated date when production will begin **Answered supplement sheet**
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

16—63792-1

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
ANSWERED SUPPLEMENT SHEET							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	ANSWERED SUPPLEMENT SHEET		$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	ANSWERED SUPPLEMENT SHEET				
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

Atoz Corporation
(Name of company)

By Mark P. Moore
(Signature of authorized official)

May 23, 1951
(Date)

President
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

1. Materials produced:

   a. copper

   b. gold and silver

2. Name and type of mine:

   Copper Knob Mine and it is a drilling operation.

   There is attached hereto a map showing the location and extent of the workings.

   a. 140 feet

   b. 46 feet

   c. upper tunnel approximately 200 feet - upper tunnel 60 feet below surface at the shaft. Lower tunnel 445 feet - lower tunnel 60 feet below upper tunnel.

   d. none

   The mine is not flooded. Water will have to be pumped from the shaft when it is extended below the floor of the present lower tunnel.

   Do not know what the "size or productive capacity" refers to.

3. a. 14 miles southeast from West Jefferson, N. C., which is on the Norfolk and Western Railroad.

   b. Do not know what mining district this area is in.

   c. Do not know what Township it is in.

   d. Southeast corner of Ashe County, North Carolina.

4. a. The mine is not now producing--it is in the process of being explored.

   b. Lessee.

5. The mine was in operation for a period of approximately five years between 1880 and 1893. It has not been operated since that time.

   It is not known when the mine can be placed in production as this is dependent upon the findings of the present exploratory operation.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

6. The certificate of incorporation for the applicant was issued on the 18th day of September, 1950, and the organizational meeting of the stockholders was held on the 4th day of November, 1950. The three men who will manage the corporation (applicant) own eighty per cent of the stock which is outstanding. These three men and their qualifications are:

   Mart P. Moore, President and Treasurer
   Has been a construction and excavation contractor for forty years. He has had experience in the construction and operation of practically every type of heavy machinery.

   Frank E. Lloyd, Vice-President and Assistant Secretary
   Has worked for and managed gold, silver and copper mines in the United States and Mexico for more than forty-five years. He is a qualified mining engineer, geologist and assayist.

   James P. Moore
   He is a graduate of the College of Mines of the University of Missouri and of the University of Alabama; he holds degrees given by both of these schools. He has practical experience gained by working in several mines in the western States. He now has charge of all construction work done by the United States Steel Company at its Gary, Indiana plant.

   W. E. Keeter, Jr., Secretary
   He is now President and Treasurer of the Southern Wipers, Inc. of Charlotte, North Carolina. He has had much experience in accounting and the management of a manufacturing business.

7. There are attached hereto reports of several geologists. These reports answer sections a, b and c of this question.

8. Names and addresses of Officers, Directors, etc.
   (See attached sheet)

9. Capital Stock Issues:
   (See attached sheet)

10. Production:

    This mine has been operated on an exploratory rather than a production basis. It does not have a production record.

11. Not applicable.

8. Name and addresses of Officers, Directors, etc.

(a)	(b)	(c)	(d)	(e)	(g)	(h)
Mart P. Moore Deep Gap, N. C.	President & Treasurer/ D 5	None Paid	$15,000	$8,500	None	None
Frank E. Lloyd 112 S. Fulton St. Salisbury, N. C.	Vice-President & Assistant Secy/D	None Paid	10,000	10,000	None	None
James P. Moore 336 Tyler St. Gary, Indiana	Director	None Paid	30,000	10,000	None	None
W. E. Keeter, Jr. 3031 Fairfax Drive Charlotte, N. C.	Secretary/D	None Paid	20,000	500	None	None
Chauncey Moore Captain, U.S.Navy U.S.Naval Station Green Cove Springs ,Fla.	Director	None Paid	15,000	1,500	None	None
			Total	$ 30,500		

9. Capital Stock Issues

	(a)	(b)	(c)	(d)	(e)
Common Stock	$50,000.00	$31,500.00	$1.00	31,500	none paid
Preferred Stock	None authorized by Charter				

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

The following is taken from N. C. Department of Conservation and Development Bulletin No. 38, page 144, Ashe County.

The Copper Knob (or Gap Creek) Mine is located in the southern part of Ashe County on the waters of New River. At this mine there are three quartz veins, only one of which has been worked to any extent. This vein lies in a large body of horne blend schist, but the prevalent country rock is a gray griss, with a strike N. 60 E. and a dip 40 degrees S. E.

The vein is principally quartz, which, in the upper part, contained a great deal of iron oxide extraordinarily rich in gold. The mineralized seam occupied the center of the quartz fissue and varies from four to six inches in thickness. At the sixty-foot level the vein carried copper ores for 53 feet; then the quartz changed slightly and carried native gold, with brown oxide, for a distance of about 36 feet. At this point the strike changed to N. 43 W.; the vein seemed to be more mineralized on the northwest than on the southeast side of the workings. The ore is complex-viterous copper ore, malachite, chrysocolla, a very little chalcopyrite and brown ore. The iron pyrite is almost wanting. The ore seam increased somewhat in width as a greater depth was reached. The shaft was sunk to a depth of 60 feet with satisfactory results and subsequently deepened to 140 feet. At this stage the mine became the prey of a company of speculators. Those persons familiar with the last work stated that the mine continued good as far as explorations extended.

The nature and value of the ore is shown by the following assays: $8.62, $34.79, $57.36, $77.51 gold and $2.26, $25.50, $14.53, $45.68 per ton silver. The copper content varied from 23 to 37 per cent.

REPORT ON COPPER KNOB MINE

This mine is situated in the southeast corner of Ashe County, North Carolina, in the Blue Ridge Mountains, about 2½ miles from Bowie, the nearest railroad station on the Virginia-Carolina Railroad.

The mine is favourably mentioned in the published State reports and has been examined by several State Officials. Prof. Emmons, formerly State Geologist, writes as follows:- In the course of my examination of the geological features of the Western Counties of North Carolina, I had occasion to examine the Copper Knob Mine, situated in Ashe County, North Carolina. The special mineral which prevails is the vitreous ores Sulphurette of copper, together with the blue carbons, chrysocolla or silicate of copper. I did not notice any of the yellow sulphurat, though the most characteristic speciman came from a depth of from fifty to sixty feet. This fact furnishes an indication that the viterous ores are likely to prevail and an ore which on an average will probably be twice as rich as the yellow sulphurette.

This is a true vein and has a perfect regularity in direction as well as its walls. Its strike or direction is S. 35 degrees. The width being eighteen inches at the surface and 18 to 24 inches at different depths below ground. It appears to occupy a vein fissure formed prior to the time that it became filled with mineral matter, and therefore it is highly probable it is destined to be a permanent vein.

The walls in which it is encased is a hornblende slate which appears to have been altered. It is only a quarter of a mile wide and seems to be intruded into a talco-micaceous schist.

The main body of the ore, will be encountered at bout 350 feet, from the mouth of the tunnel, then every foot that is driven from that

point, it will gain a foot in depth, as the course of the vein is right into the body of the mountain. This vein contrary to the rule, cuts the stratified formation at right angles and has therefore been pronounced a true fissure.

The following assays and results are what has been done. At present the mine is caved in and must be opened by an adit level driven in from the foot of the mountain. This has been started and is in about one hundred feet, at which point, it is nearing the vein as indicated by copper in the slates.

In order to open up the mine it will be necessary to drive the bottom level to connect with the bottom level from the shaft and then on into the mountain. The ore below the bottom level is a heavy sulphurette, and well adapted to concentration. The high grade ores can be hand picked and shipped to smelter. The low grade concentrated to a product that will readily stand shipment at a good profit.

The country is beautiful, climate healthy and invigorating, labor cheap and plentiful.

ASSAYS BY UNITED STATES ASSAY OFFICE

No. 1 Best Ore	Gold 3.75/100 ozs.	$75.00	
	Silver 35 "	18.00	
	Copper 37.44 %	89.76	
	Total	$182.76	per ton

No. 2. Sample shipped to New York and sold

Gold 2-35/100	$47.50	
Silver 11.235	6.05	
Copper 23%	55.20	
Total	$108.75	per ton

No. 3. Ore shipped to smelter, Newark, N. J.

Gold	$11.00	
Silver	12.00	
Copper	18.00	
Total	$41.00	per ton

No. 4. Concentrates made at mine, 12 into 1 and sent smelter.

Gold	$185.00	
Silver	12.00	
Copper	67.20	
Total	$264.20	per ton

These assays were based on silver at about fifty cents per oz. and copper at around twelve cents.

In prospecting this Copper Knob Mine, a shaft was sunk to a depth of fifty to sixty feet, and a tunnel was driven in to connect with shaft. Then the shaft was continued to a depth of 105 feet, and another tunnel starting at the foot of the hill was driven in to connect with the shaft, a distance of between two and three hundred feet. Then a car load of vein matter was taken out and shipped to the smelter in New Jersey. All matter taken from the vein was included in shipment.

Richard Eames, Jr., E.M.

COPPER KNOB GOLD MINE

Ashe County, North Carolina

From reports by B. C. Nitze, Richard Eames, Jr. and George B. Hanna, Geologists and Mining Engineers:

The property consists of one hundred and fifty acres mineral right with all mining rights and privileges, and is located in the heart of the Blue Ridge Mountains in the southern part of Ashe County, North Carolina, on the waters of New River, ten miles from the town of Boone, N. C., and lies only a mile off the paved highway connecting that town with Wilkesboro, making it much more accessable than in the past days of operation.

There are three quartz veins on the property, though only one has been worked to any extent. It lies in a large body of hornblende schist but the prevalent country rock of the district is a grey gneiss, with a strike N. 60 E. and dip 40 degrees S.E. The strike of the fissure is N. 45 W. and dip 40 degrees N.E., thus, contrary to rule, the vein cuts the stratified formation at almost right anges and has been pronounced a true fissure with great possibilities of unusual permanence and depth.

In prospecting this property a shaft was sunk to a depth of 60 feet and a tunnel driven in to connect with the shaft--then the shaft was continued to a depth of about 120 feet and another tunnel, starting at the foot of the hill was driven in to connect with the shaft, a distance of something over 200 feet. It has been extimated that the main body of ore will be encountered at a point around three hundred feet from the mouth of the lower tunnel.

The vein stone in the upper workings was accompanied by a selvage of iron oxide extraordinarily rich in gold. The mineral seam occupying the center of the quartz fissure which varies in width from fourteen inches to three feet. On the N. W. course along the 60-foot level the vein contains copper ores bearing values in both silver and gold for 53 feet then the quartz becomes slightly changed and carried native gold in a brown oxide of iron for about 36 feet. Here the bearing changes to N. 43 W.

The ore is slightly complex, viterous copper ore, malachite, brown oxides, etc., very little chalcopyrite or iron pyrites, but all being well adapted to concentration. The high grade ores can be hand picked and shipped to smelter and the low grade concentrated to a product that will readily stand shipment at a good profit.

About the time that the mine reached its present state of development it became the prey of a company of speculators, resulting shortly in financial distress and cessation of operation. However, the concurrent testimony of many persons cognizant of the last work is, that the resources of the mine continued good as far as the exploration extended.

Climatic conditions are ideal and work can be carried on all the year round. Labor efficient, cheap and plentiful. Produce and provisions of all kinds easily obtainable at extremely reasonable prices. Fuel and water in abundance for all mining purposes on and in close proximity to the mine.

The nature of some of the ore is shown by accompanying assays:-

ASSAYS FROM COPPER KNOB GOLD MINE

Ashe County, North Carolina

		Gold	Silver	Copper
No. 307		$ 8.62	$ 2.26	
No. 380		34.70	22.50	
N. 309		57.36	14.53	23.83%
No. 310		77.51	45.68	37.44%
No. 1	Good Ore	75.00	18.00	36.34%
No. 2	Sample shipment to N.Y.	47.50	6.05	23 %
No. 3	Shipment to N.J. Smelter	11.00	12.00	8.33%
No. 4	A 12 into 1 concentrate shipped to smelter	185.00	42.25	27.50%

N.B. These being old assays, naturally were based on the old price of gold, $20.67 per oz. and silver around sixty cents. The present price of gold will increase the above gold results seventy-five per cent.

3. Nature of Business and Description of Project

SUPPLEMENT SHEET 3-C

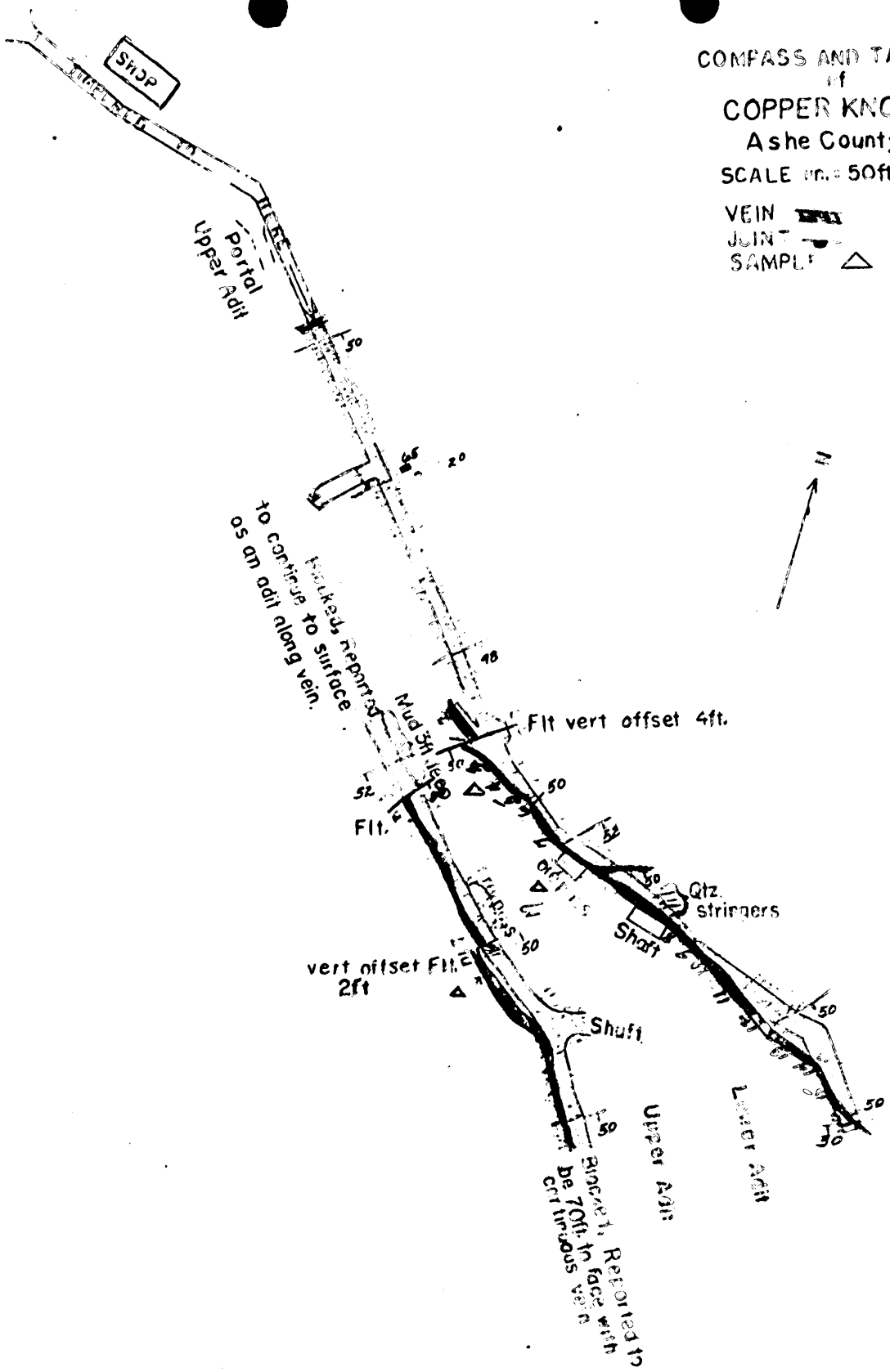
SAMPLE NUMBER	GOLD OZS.	SILVER OZS.	COPPER PERCENT	VEIN THICKNESS	DISTANCE
1	0.06	1.14	3.88	9 inches	
2	0.19	0.31	1.01	6 inches	7 feet from No. 1
3	0.52	1.12	1.56	5 inches	13 feet from No. 1
4	0.03	0.10	1.77	6 inches	7 feet from No. 3
5	0.16	0.34	43.18	5 inches	6 feet from No. 4
6	0.46	0.66	1.82	6 inches	4 feet from No. 5
7	0.22	0.54	0.50	9 inches	11½ feet from No. 6
8	0.05	0.19	0.05	6 inches	66 feet from No. 7--This is across ore pass and shaft where no samples could be obtained and the bottom has been stoped out and is under water and mud and refuse stone.
9	0.02	0.10	0.15	9 inches	12 feet from No. 8
10	0.06	0.46	0.87	10 inches	14 feet from No. 9
11	0.05	0.43	0.56	16 inches	10 feet from No. 10
12	0.04	0.24	0.72	36 inches	10 feet from No. 11
13	0.01	0.05	0.11	6 inches	10 feet from No. 12
14	0.01	0.07	0.10	24 inches	10 feet from No. 13
15	0.01	0.07	0.03	10 inches	16 feet from No. 14
16	0.01	0.15	0.02	6 inches	11 feet from No. 15
17	0.09	1.11	3.69	8 inches	in ore pass 30 feet up.
18	0.06	0.78	0.93	10 inches	in upper tunnel

The above figures are taken from a Certificate of Assay prepared by The Henry E. Wood Assaying Company, 1750 Arapahoe Street, Denver, Colorado, the Certificate being dated the 21st day of April, 1951.

Sample No. 17 taken half way up ore pass to next tunnel. No. 18 taken at top tunnel between shaft and ore pass.

COMPASS AND TAPEMAP
of
COPPER KNOB MINE
Ashe County, N.C.
SCALE 1in.= 50ft 7-11-50

VEIN
JOINT
SAMPLE
SCHIST
BEDDING



ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

12. Ore or Mineral Reserves:

a. This is answered by the reports which are part of the answer to question 7.

b. 1. There is attached hereto a report of assays made within the past thirty days. A map showing the location of the points where the samples were taken from the mine is attached to the report of the assays.

2. Not applicable.

c. Not placer.

13. Access Roads:

West Jefferson, North Carolina is approximately 14 miles northwest of the mine and it is the shipping, supply and residence point. It is connected with the mine by an all weather surfaced paved road, with the exception of the first half mile from the mine, which is a State maintained stone surfaced road.

14. Water Supply:

Springs and branches and is available in an abundant supply for a year-round operation.

15. Power:

Present equipment is operated by gasoline powered engines. Electricity is available to the extent of 30 horse power and is furnished by a R. E. A. line.

16. Labor:

Two miners

17. Equipment and Facilities:

One wooden frame building, 10 x 12, used as house for air compressor.

One wooden frame building, 12 x 12, used as equipment, tool and storage house.

Both houses in good condition.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

SAMPLE NUMBER	GOLD OZS.	SILVER OZS.	COPPER PERCENT	VEIN THICKNESS	DISTANCE
1	0.06	1.14	3.88	9 inches	
2	0.19	0.31	1.01	6 inches	7 feet from No. 1
3	0.52	1.12	1.56	5 inches	13 feet from No. 1
4	0.03	0.10	1.77	6 inches	7 feet from No. 3
5	0.16	0.34	43.18	5 inches	6 feet from No. 4
6	0.46	0.66	1.82	6 inches	4 feet from No. 5
7	0.22	0.54	0.50	9 inches	11½ feet from No. 6
8	0.05	0.19	0.05	6 inches	66 feet from No. 7--This is across ore pass and shaft where no samples could be obtained and the bottom has been stoped out and is under water and mud and refuse stone.
9	0.02	0.10	0.15	9 inches	12 feet from No. 8
10	0.06	0.46	0.87	10 inches	14 feet from No. 9
11	0.05	0.43	0.56	16 inches	10 feet from No. 10
12	0.04	0.24	0.72	36 inches	10 feet from No. 11
13	0.01	0.05	0.11	6 inches	10 feet from No. 12
14	0.01	0.07	0.10	24 inches	10 feet from No. 13
15	0.01	0.07	0.03	10 inches	16 feet from No. 14
16	0.01	0.15	0.02	6 inches	11 feet from N. 15
17	0.09	1.11	3.69	8 inches	in ore pass 30 feet up
18	0.06	0.78	0.93	10 inches	in upper tunnel

The above figures are taken from a Certificate of Assay prepared by The Henry E. Wood Assaying Company, 1750 Arapahoe Street, Denver, Colorado, the Certificate being dated the 21st day of April, 1951.

Sample No. 17 taken half way up ore pass to next tunnel. No. 18 taken at top tunnel between shaft and ore pass.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Equipment:

105 cubic feet Worthington Air Compressor.

One sinker drill; 14 drill steels, various lengths; 75 drill bits, including four carbondum insert bits; one five h.p. gasoline driven water pump. All necessary hand tools, air and water hose in sufficient quantity.

18. It is the purpose of this application to obtain money to be used with money to be furnished by the applicant, to sink a shaft approximately 200 feet on the vein which is now exposed, in the lower tunnel of this mine.

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI

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 - 1840 X

Date received 7/16/51

Participation

ATOM CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Name and address of applicant

Date May 23, 1951

FILL IN THIS BLOCK

Date of application May 23, 1951

Estimated cost $ 19,520

Mineral or metal Copper

Percentage of Government participation Fifty per cent

Location of mine Copper Knob Mountain, southeast section of Ashe County, North Carolina

Date of filing MF-100 May 23, 1951

DMA Docket Number, if available Not available

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.
*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.
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.

Atoz Corporation
(Name of company)

By Mack P Moore
(Signature of authorized official)

May 23, 1951
(Date)

President
(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

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

1. Answered on Form M.F.-100

2. Answered on Form M.F.-100

3. Answered on Form M.F.-100

4. Answered on Form M.F.-100

5. Answered on Form M.F.-100

6. Applicant does not own land; it is leased and there are no liens or encumbrances for which the lease is security.

7. A copy of the lease is attached and the lease is in good standing.

8. The company has been operated entirely on an exploratory basis; the money for this has been furnished by the stockholders. There is no financial or profit and loss statement.

9. The applicant is prepared to invest $152.50 per week for a maximum number of 64 weeks. This is one-half of the estimated cost of this project.

10. a. The property which is to be explored is particularly described in the lease held by the applicant, a copy of which is attached as part of this application, in answer to question 7. The lease refers to the deeds which conveyed the property to the lessor. A general description is as follows:

Located in the southeast section of Ashe County, North Carolina, and is on Copper Knob Mountain, and bounded as follows:

Bounded on the north by the lands of B. B. Daughtery, the heirs of D. D. Daughtery and Roe Church; on the east by the lands of V. M. Beroth and Roe Church; on the south by the lands of Arthur Cowles and J. H. Cowles; on the west by the lands of J. H. Cowles and Edmund Fairchild and others. The said tract of land contains one hundred and fifty acres, more or less.

b. The area to be explored is the same as that described in answer to question 10 a.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

11. Answered on Form M.F.-100

12. Answered on Form M.F.-100

13. Answered on Form M.F.-100

14. Answered on Form M.F.-100

15. The ore would be shipped by truck to West Jefferson, North Carolina and there loaded into railroad cars and shipped to a smelter, the nearest one being located in the State of New Jersey.

16. Answered on Form M.F.-100

17. Answered on Form M.F.-100

18. Answered on Form M.F.-100

19. It is the purpose of this application to obtain money to be used with money to be furnished by the applicant, to sink a shaft approximately 200 feet on the vein which is now exposed, in the lower tunnel of this mine.

THE EXPLORATION

20. Vein deposits of copper.

21. It is the purpose of the applicant to sink a shaft along the vein of copper now exposed to an approximate depth of 200 feet below the floor of the present lower tunnel. The vein will be explored in a horizontal direction for about fifty feet, the distance depending upon the findings, in each direction, at each fifty-foot level going down.

It will take approximately fifteen months to make this exploration.

22. This question is answered by the reports which are attached to Form M.F.-100 in answer to question 22.

THE REQUIREMENTS AND COSTS.

23. a. 1 miner - 40 hours per week @$1.00 per hour $ 40.00
1 mucker - 40 hours per week @ .75 per hour 30.00

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

b. 1 supervisor and blaster - salary basis $ 75.00
board of supervisor 15.00

c. None at present, nor anticipated.

d. None at present, nor anticipated.

e. 1 airmotor pump - cost $ 500.00
1 drill on column - cost 750.00

These two pieces of equipment will be purchased by two of the stockholders of the applicant and will be rented to the applicant at the weekly rate of 20.00

f. 1 air compressor, 1 sinker drill with all hose, drill steels, bits, and hand tools and lights and other items now on the job 75.00

g. The equipment listed in item 23-f and other equipment now at the mine is owned by two of the stockholders and is rented to the applicant on the terms set out in 23-f

h. Dynamite, caps and fuses, oil and gasoline, carbide, miscellaneous hand tools, etc. 50.00

TOTAL ESTIMATED COST PER WEEK $ 305.00

Estimated number of weeks to complete project 64

TOTAL ESTIMATED COST OF PROJECT $ 19,520.00

The estimated number of weeks to complete project is based on a maximum; it is hoped that the time will be much less than 64 weeks.

24. It is estimated that the project will go forward at the minimum rate of sixteen feet of excavation of the shaft per month. The cost per month of the work is estimated not to exceed $1,220.00.

NORTH CAROLINA

ASHE COUNTY

AGREEMENT
MINING AND MINERAL
LEASE AND OPTION

THIS AGREEMENT made and entered into between V. L. Moretz, of Deep Gap, Ashe County, North Carolina, party of the first part, and Frank E. Lloyd of Salisbury, Rowan County, North Carolina, Mart P. Moore of Greenville, Pitt County, North Carolina, and James P. Moore, of Gary, Lake County, Indiana, parties of the second part, each having a one-third (1/3) interest;

WITNESSETH:

That for and in consideration of the sum of One Dollar ($1.00) the receipt of which is hereby acknowledged, the said party of the first part, owner of a certain mineral right in Ashe County, North Carolina, known as Copper Knob or Gap Creek Mine, and until recently owned by the Monaton Mining Company, of New York, New York, but forfeited by them for non-payment of taxes, and containing one hundred fifty (150) acres, more or less (all of the lands once owned by the above mentioned Monaton Mining Company), reference to which is hereby made to a certain deed dated May 6, 1914, from the Monaton Mining Company of New York to L. M. Waters and V. L. Moretz, and recorded in Book O-1, page 568, Ashe County, N. C., Register of Deeds office, and to that certain deed recorded in Book 1, page 91, Ashe County, N. C., Register of Deeds office, from Ira T. Johnston, Comr., to V. L. Moretz, conveying the mineral rights to the above tract of land, formerly owned by the Monaton Mining Company, does hereby give and grant to the parties of the second part for a term of three (3) years a lease and option to purchase the mineral and mining rights and surface rights in accordance with the following terms and conditions.

1. Price of mining and mineral rights - Fifteen Thousand Dollars ($15,000.00), to be paid as follows: Ten per cent (10%) of sale price of returns from smelter (less freight and smelter penalties) of all ore sold shall be paid to Mr. V. L. Moretz, his heirs or assigns, or deposited to his account in any bank designated by him, to be credited on the above price.

2. Thirty per cent (30%) of the Fifteen Thousand Dollars ($15,000.00) to be paid by the end of three (3) years from July 1, 1948. Said thirty per cent to be derived from the sale of any ores or minerals taken from the mine.

3. Then ten per cent (10%) of any remaining balance to be paid at end of each year thereafter and the lease and option thereby automatically extended as long as payments are made.

4. Price of surface rights - Three Thousand Dollars ($3,000.00) to be paid any time, by agreement of all parties, during the life of this lease and option. Surface rights shall cover all of the land once owned by the above mentioned Monaton Mining Company, except parts deeded to Mr. Roe Church and William Greer (now owned by John Edward Cheek). All mining and mineral rights of these two tracts are contained in this lease and option of mineral rights.

5. This lease and option voids and supercedes a lease and option to purchase the above mineral, mining and surface rights to the above mentioned property, dated September 11, 1946, between Mr. V. L. Moretz, of Deep Gap, North Carolina, and Mr. Frank M. Lloyd, of Salisbury, North Carolina.

6. The parties of the second part agree that if no work of any kind is done for a continuous period of one (1) year this lease shall become null and void unless amended.

7. The parties of the second part and their agents, associates or assigns shall, at all times during the life of this lease and option, have full access to the property, with all privileges of ingress and egress, also the right to cut and use such small timber as may be necessary for props, stulls, and other mining timbers to make shafts and tunnels safe for all working and mining purposes.

8. The parties of the second part shall also have the privilege of erecting any building, machinery, making any surface excavations and fills that they may deem necessary for the operation of the mine, extraction of minerals, reduction and shipping of ores or minerals encountered, and the right to remove such houses and machinery within six (6) months after the expiration of this agreement, if, for any reason, this lease and option is not fully completed.

Both parties to this contract agree that this lease and option may be amended by mutual agreement from time to time if deemed necessary.

Upon receipt of final payment of the aforementioned mineral right, surface right, or both, the party of the first part, his heirs and assigsn, agrees to deliver to the parties of the second part good and sufficient warranty deeds to the properties or rights mentioned.

Both parties to this contract agree for their heirs and assigns to each and every condition herein set forth.

WITNESS our hands and seals this first day of July, nineteen and forty-eight.

V. L. Moretz (SEAL)

Frank E. Lloyd (SEAL)

Mart P. Moore (SEAL)

James P. Moore (SEAL)

The above lease is duly recorded in the Register of Deeds office, Ashe County, North Carolina, at Jefferson, North Carolina.

LEASE EXTENSION

For and in consideration of the sum of one dollar, ($1.00) the receipt whereof is hereby acknowledged - the party of the first part - V. L. Moretz of Deep Gap, North Carolina does hereby agree to extend the foregoing lease and option on a certain mineral right in Ashe County, North Carolina dated July 1, 1948 and hereunto attached - consisting of (150) one hundred and fifty acres more or less - to parties of the second part viz.

Frank E. Lloyd	Salisbury, N. C.
Mart P. Moore	Greenville, N. C.
James P. Moore	Gary, Indiana

for a term of two years - thus, making first payment of ($4,500.00) four thousand five hundred dollars due July 1, 1952 instead of July 1, 1951. All other conditions and terms remaining the same but to conform to the new date of first payment.

All parties agreeing for themselves, their heirs and assigns to the above.

Witness our hands and seals this 18th day of June 1951.

s/ V. L. Moretz

s/ Frank E. Lloyd

s/ Mart P. Moore

s/ James P. Moore

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMA-1840 X

Date received 7/16/51

AZUZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Name and address of applicant

Date May 23, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) ~~Necessity certificate pursuant to the provisions of Section 124-A, Amortization Deduction, of Internal Revenue Code 1950,~~ (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   - (*a*) What are the chief mine, mill, or smelter products?
   - (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   - (*a*) Linear feet of shafts.
   - (*b*) Linear feet of drifts and crosscuts.
   - (*c*) Linear feet of tunnels or adits.
   - (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   - (*a*) Distance and direction from nearest town and shipping point.
   - (*b*) Mining district.
   - (*c*) Township, Section, Range.
   - (*d*) County, State.
4. **(*a*) State whether or not property is now in operation, and if in operation, by whom operated.**
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production Answered supplement sheet

   If not in production or operation, estimated date when production will begin Answered supplement sheet
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   - (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   - (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
ANSWERED SUPPLEMENT SHEET							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	ANSWERED SUPPLEMENT SHEET				
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	ANSWERED SUPPLEMENT SHEET				
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

Atoz Corporation
(Name of company)

By Mart P Moore
(Signature of authorized official)

May 23, 1951
(Date)

President
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

1. Materials produced:

   a. copper

   b. gold and silver

2. Name and type of mine:

   Copper Knob Mine and it is a drilling operation.

   There is attached hereto a map showing the location and extent of the workings.

   a. 140 feet

   b. 46 feet

   c. upper tunnel approximately 200 feet - upper tunnel 60 feet below surface at the shaft. Lower tunnel 445 feet - lower tunnel 60 feet below upper tunnel.

   d. none

   The mine is not flooded. Water will have to be pumped from the shaft when it is extended below the floor of the present lower tunnel.

   Do not know what the "size or productive capacity" refers to.

3. a. 14 miles southeast from West Jefferson, N. C., which is on the Norfolk and Western Railroad.

   b. Do not know what mining district this area is in.

   c. Do not know what Township it is in.

   d. Southeast corner of Ashe County, North Carolina.

4. a. The mine is not now producing--it is in the process of being explored.

   b. Lessee.

5. The mine was in operation for a period of approximately five years between 1880 and 1893. It has not been operated since that time.

   It is not known when the mine can be placed in production as this is dependent upon the findings of the present exploratory operation.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

6. The certificate of incorporation for the applicant was issued on the 18th day of September, 1950, and the organizational meeting of the stockholders was held on the 4th day of November, 1950. The three men who will manage the corporation (applicant) own eighty per cent of the stock which is outstanding. These three men and their qualifications are:

   Mart P. Moore, President and Treasurer
   Has been a construction and excavation contractor for forty years. He has had experience in the construction and operation of practically every type of heavy machinery.

   Frank E. Lloyd, Vice-President and Assistant Secretary
   Has worked for and managed gold, silver and copper mines in the United States and Mexico for more than forty-five years. He is a qualified mining engineer, geologist and assayist.

   James P. Moore
   He is a graduate of the College of Mines of the University of Missouri and of the University of Alabama; he holds degrees given by both of these schools. He has practical experience gained by working in several mines in the western States. He now has charge of all construction work done by the United States Steel Company at its Gary, Indiana plant.

   W. E. Keeter, Jr., Secretary
   He is now President and Treasurer of the Southern Wipers, Inc. of Charlotte, North Carolina. He has had much experience in accounting and the management of a manufacturing business.

7. There are attached hereto reports of several geologists. These reports answer sections a, b and c of this question.

8. Names and addresses of Officers, Directors, etc.
   (See attached sheet)

9. Capital Stock Issues:
   (See attached sheet).

10. Production:

    This mine has been operated on an exploratory rather than a production basis. It does not have a production record.

11. Not applicable.

8. Name and addresses of Officers, Directors, etc.

(a)	(b)	(c)	(d)	(e)	(g)	(h)
Mart P. Moore Deep Gap, N. C.	President & Treasurer/ D 5	None Paid	$15,000	$8,500	None	None
Frank E. Lloyd 112 S. Fulton St. Salisbury, N. C.	Vice-President & Assistant Secy/D	None Paid	10,000	10,000	None	None
James P. Moore 336 Tyler St. Gary, Indiana	Director	None Paid	30,000	10,000	None	None
W. E. Keeter, Jr. 3031 Fairfax Drive Charlotte, N. C.	Secretary/D	None Paid	20,000	500	None	None
Chauncey Moore Captain, U.S.Navy U.S.Naval Station Green Cove Springs ,Fla.	Director	None Paid	15,000	1,500	None	None
			Total	$ 30,500		

9. Capital Stock Issues

	(a)	(b)	(c)	(d)	(e)
Common Stock	$50,000.00	$31,500.00	$1.00	31,500	none paid
Preferred Stock	None authorized by Charter				

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

The following is taken from N. C. Department of Conservation and Development Bulletin No. 38, page 144, Ashe County.

The Copper Knob (or Gap Creek) Mine is located in the southern part of Ashe County on the waters of New River. At this mine there are three quartz veins, only one of which has been worked to any extent. This vein lies in a large body of horne blend schist, but the prevalent country rock is a gray griss, with a strike N. 60 E. and a dip 40 degrees S. E.

The vein is principally quartz, which, in the upper part, contained a great deal of iron oxide extraordinarily rich in gold. The mineralized seam occupied the center of the quartz fissue and varies from four to six inches in thickness. At the sixty-foot level the vein carried copper ores for 53 feet; then the quartz changed slightly and carried native gold, with brown oxide, for a distance of about 36 feet. At this point the strike changed to N. 43 W.; the vein seemed to be more mineralized on the northwest than on the southeast side of the workings. The ore is complex-viterous copper ore, malachite, chrysocolla, a very little chalcopyrite and brown ore. The iron pyrite is almost wanting. The ore seam increased somewhat in width as a greater depth was reached. The shaft was sunk to a depth of 60 feet with satisfactory results and subsequently deepened to 140 feet. At this stage the mine became the prey of a company of speculators. Those persons familiar with the last work stated that the mine continued good as far as explorations extended.

The nature and value of the ore is shown by the following assays: $8.62, $34.79, $57.36, $77.51 gold and $2.26, $25.50, $14.53, $45.68 per ton silver. The copper content varied from 23 to 37 per cent.

REPORT ON COPPER KNOB MINE

This mine is situated in the southeast corner of Ashe County, North Carolina, in the Blue Ridge Mountains, about 2½ miles from Bowie, the nearest railroad station on the Virginia-Carolina Railroad.

The mine is favourably mentioned in the published State reports and has been examined by several State Officials. Prof. Emmons, formerly State Geologist, writes as follows:- In the course of my examination of the geological features of the Western Counties of North Carolina, I had occasion to examine the Copper Knob Mine, situated in Ashe County, North Carolina. The special mineral which prevails is the vitreous ores Sulphurette of copper, together with the blue carbons, chrysocolla or silicate of copper. I did not notice any of the yellow sulphurat, though the most characteristic speciman came from a depth of from fifty to sixty feet. This fact furnishes an indication that the viterous ores are likely to prevail and an ore which on an average will probably be twice as rich as the yellow sulphurette.

This is a true vein and has a perfect regularity in direction as well as its walls. Its strike or direction is S. 35 degrees. The width being eighteen inches at the surface and 18 to 24 inches at different depths below ground. It appears to occupy a vein fissure formed prior to the time that it became filled with mineral matter, and therefore it is highly probable it is destined to be a permanent vein.

The walls in which it is encased is a hornblende slate which appears to have been altered. It is only a quarter of a mile wide and seems to be intruded into a talco-micaceous schist.

The main body of the ore, will be encountered at bout 350 feet, from the mouth of the tunnel, then every foot that is driven from that

point, it will gain a foot in depth, as the course of the vein is right into the body of the mountain. This vein contrary to the rule, cuts the stratified formation at right angles and has therefore been pronounced a true fissure.

The following assays and results are what has been done. At present the mine is caved in and must be opened by an adit level driven in from the foot of the mountain. This has been started and is in about one hundred feet, at which point, it is nearing the vein as indicated by copper in the slates.

In order to open up the mine it will be necessary to drive the bottom level to connect with the bottom level from the shaft and then on into the mountain. The ore below the bottom level is a heavy sulphurette, and well adapted to concentration. The high grade ores can be hand picked and shipped to smelter. The low grade concentrated to a product that will readily stand shipment at a good profit.

The country is beautiful, climate healthy and invigorating, labor cheap and plentiful.

ASSAYS BY UNITED STATES ASSAY OFFICE

No. 1 Best Ore	Gold 3.75/100 ozs.	$75.00	
	Silver 35 "	18.00	
	Copper 37.44 %	89.76	
	Total	$182.76	per ton

No. 2. Sample shipped to New York and sold

Gold 2-35/100	$47.50	
Silver 11.235	6.05	
Copper 23%	55.20	
Total	$108.75	per ton

No. 3. Ore shipped to smelter, Newark, N. J.

Gold	$11.00	
Silver	12.00	
Copper	18.00	
Total	$41.00	per ton

No. 4. Concentrates made at mine, 12 into 1 and sent smelter.

Gold	$185.00	
Silver	12.00	
Copper	67.20	
Total	$264.20	per ton

These assays were based on silver at about fifty cents per oz. and copper at around twelve cents.

In prospecting this Copper Knob Mine, a shaft was sunk to a depth of fifty to sixty feet, and a tunnel was driven in to connect with shaft. Then the shaft was continued to a depth of 105 feet, and another tunnel starting at the foot of the hill was driven in to connect with the shaft, a distance of between two and three hundred feet. Then a car load of vein matter was taken out and shipped to the smelter in New Jersey. All matter taken from the vein was included in shipment.

Richard Eames, Jr., E.M.

COPPER KNOB GOLD MINE

Ashe County, North Carolina

From reports by B. C. Nitze, Richard Eames, Jr. and George B. Hanna, Geologists and Mining Engineers:

The property consists of one hundred and fifty acres mineral right with all mining rights and privileges, and is located in the heart of the Blue Ridge Mountains in the southern part of Ashe County, North Carolina, on the waters of New River, ten miles from the town of Boone, N. C., and lies only a mile off the paved highway connecting that town with Wilkesboro, making it much more accessable than in the past days of operation.

There are three quartz veins on the property, though only one has been worked to any extent. It lies in a large body of hornblende schist but the prevalent country rock of the district is a grey gneiss, with a strike N. 60 E. and dip 40 degrees S.E. The strike of the fissure is N. 45 W. and dip 40 degrees N.E., thus, contrary to rule, the vein cuts the stratified formation at almost right angles and has been pronounced a true fissure with great possibilities of unusual permanence and depth.

In prospecting this property a shaft was sunk to a depth of 60 feet and a tunnel driven in to connect with the shaft--then the shaft was continued to a depth of about 120 feet and another tunnel, starting at the foot of the hill was driven in to connect with the shaft, a distance of something over 200 feet. It has been extimated that the main body of ore will be encountered at a point around three hundred feet from the mouth of the lower tunnel.

The vein stone in the upper workings was accompanied by a selvage of iron oxide extraordinarily rich in gold. The mineral seam occupying the center of the quartz fissure which varies in width from fourteen inches to three feet. On the N. W. course along the 60-foot level the vein contains copper ores bearing values in both silver and gold for 53 feet then the quartz becomes slightly changed and carried native gold in a brown oxide of iron for about 36 feet. Here the bearing changes to N. 43 W.

The ore is slightly complex, viterous copper ore, malachite, brown oxides, etc., very little chalcopyrite or iron pyrites, but all being well adapted to concentration. The high grade ores can be hand picked and shipped to smelter and the low grade concentrated to a product that will readily stand shipment at a good profit.

About the time that the mine reached its present state of development it became the prey of a company of speculators, resulting shortly in financial distress and cessation of operation. However, the concurrent testimony of many persons cognizant of the last work is, that the resources of the mine continued good as far as the exploration extended.

Climatic conditions are ideal and work can be carried on all the year round. Labor efficient, cheap and plentiful. Produce and provisions of all kinds easily obtainable at extremely reasonable prices. Fuel and water in abundance for all mining purposes on and in close proximity to the mine.

The nature of some of the ore is shown by accompanying assays:-

ASSAYS FROM COPPER KNOB GOLD MINE

Ashe County, North Carolina

		Gold	Silver	Copper
No. 307		$ 8.62	$ 2.26	
No. 380		34.70	22.50	
N. 309		57.36	14.53	23.83%
No. 310		77.51	45.68	37.44%
No. 1	Good Ore	75.00	18.00	36.34%
No. 2	Sample shipment to N.Y.	47.50	6.05	23 %
No. 3	Shipment to N.J. Smelter	11.00	12.00	8.33%
No. 4	A 12 into 1 concentrate shipped to smelter	185.00	42.25	27.50%

N.B. These being old assays, naturally were based on the old price of gold, $20.67 per oz. and silver around sixty cents. The present price of gold will increase the above gold results seventy-five per cent.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

12. Ore or Mineral Reserves:

a. This is answered by the reports which are part of the answer to question 7.

b. 1. There is attached hereto a report of assays made within the past thirty days. A map showing the location of the points where the samples were taken from the mine is attached to the report of the assays.

2. Not applicable.

c. Not placer.

13. Access Roads:

West Jefferson, North Carolina is approximately 14 miles northwest of the mine and it is the shipping, supply and residence point. It is connected with the mine by an all weather surfaced paved road, with the exception of the first half mile from the mine, which is a State maintained stone surfaced road.

14. Water Supply:

Springs and branches and is available in an abundant supply for a year-round operation.

15. Power:

Present equipment is operated by gasoline powered engines. Electricity is available to the extent of 30 horse power and is furnished by a R. E. A. line.

16. Labor:

Two miners

17. Equipment and Facilities:

One wooden frame building, 10 x 12, used as house for air compressor.

One wooden frame building, 12 x 12, used as equipment, tool and storage house.

Both houses in good condition.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

SAMPLE NUMBER	GOLD OZS.	SILVER OZS.	COPPER PERCENT	VEIN THICKNESS	DISTANCE
1	0.06	1.14	3.88	9 inches	
2	0.19	0.31	1.01	6 inches	7 feet from No. 1
3	0.52	1.12	1.56	5 inches	13 feet from No. 1
4	0.03	0.10	1.77	6 inches	7 feet from No. 3
5	0.16	0.34	43.18	5 inches	6 feet from No. 4
6	0.46	0.66	1.82	6 inches	4 feet from No. 5
7	0.22	0.54	0.50	9 inches	11½ feet from No. 6
8	0.05	0.19	0.05	6 inches	66 feet from No. 7--This is across ore pass and shaft where no samples could be obtained and the bottom has been stoped out and is under water and mud and refuse stone.
9	0.02	0.10	0.15	9 inches	12 feet from No. 8
10	0.06	0.46	0.87	10 inches	14 feet from No. 9
11	0.05	0.43	0.56	16 inches	10 feet from No. 10
12	0.04	0.24	0.72	36 inches	10 feet from No. 11
13	0.01	0.05	0.11	6 inches	10 feet from No. 12
14	0.01	0.07	0.10	24 inches	10 feet from No. 13
15	0.01	0.07	0.03	10 inches	16 feet from No. 14
16	0.01	0.15	0.02	6 inches	11 feet from N. 15
17	0.09	1.11	3.69	8 inches	in ore pass 30 feet up
18	0.06	0.78	0.93	10 inches	in upper tunnel

The above figures are taken from a Certificate of Assay prepared by The Henry E. Wood Assaying Company, 1750 Arapahoe Street, Denver, Colorado, the Certificate being dated the 21st day of April, 1951.

Sample No. 17 taken half way up ore pass to next tunnel. No. 18 taken at top tunnel between shaft and ore pass.

3. Nature of Business and Description of Project

SUPPLEMENT SHEET 3-C

SAMPLE NUMBER	GOLD OZS.	SILVER OZS.	COPPER PERCENT	VEIN THICKNESS	DISTANCE
1	0.06	1.14	3.88	9 inches	
2	0.19	0.31	1.01	6 inches	7 feet from No. 1
3	0.52	1.12	1.56	5 inches	13 feet from No. 1
4	0.03	0.10	1.77	6 inches	7 feet from No. 3
5	0.16	0.34	43.18	5 inches	6 feet from No. 4
6	0.46	0.66	1.82	6 inches	4 feet from No. 5
7	0.22	0.54	0.50	9 inches	11½ feet from No. 6
8	0.05	0.19	0.05	6 inches	66 feet from No. 7--This is across ore pass and shaft where no samples could be obtained and the bottom has been stoped out and is under water and mud and refuse stone.
9	0.02	0.10	0.15	9 inches	12 feet from No. 8
10	0.06	0.46	0.87	10 inches	14 feet from No. 9
11	0.05	0.43	0.56	16 inches	10 feet from No. 10
12	0.04	0.24	0.72	36 inches	10 feet from No. 11
13	0.01	0.05	0.11	6 inches	10 feet from No. 12
14	0.01	0.07	0.10	24 inches	10 feet from No. 13
15	0.01	0.07	0.03	10 inches	16 feet from No. 14
16	0.01	0.15	0.02	6 inches	11 feet from No. 15
17	0.09	1.11	3.69	8 inches	in ore pass 30 feet up.
18	0.06	0.78	0.93	10 inches	in upper tunnel

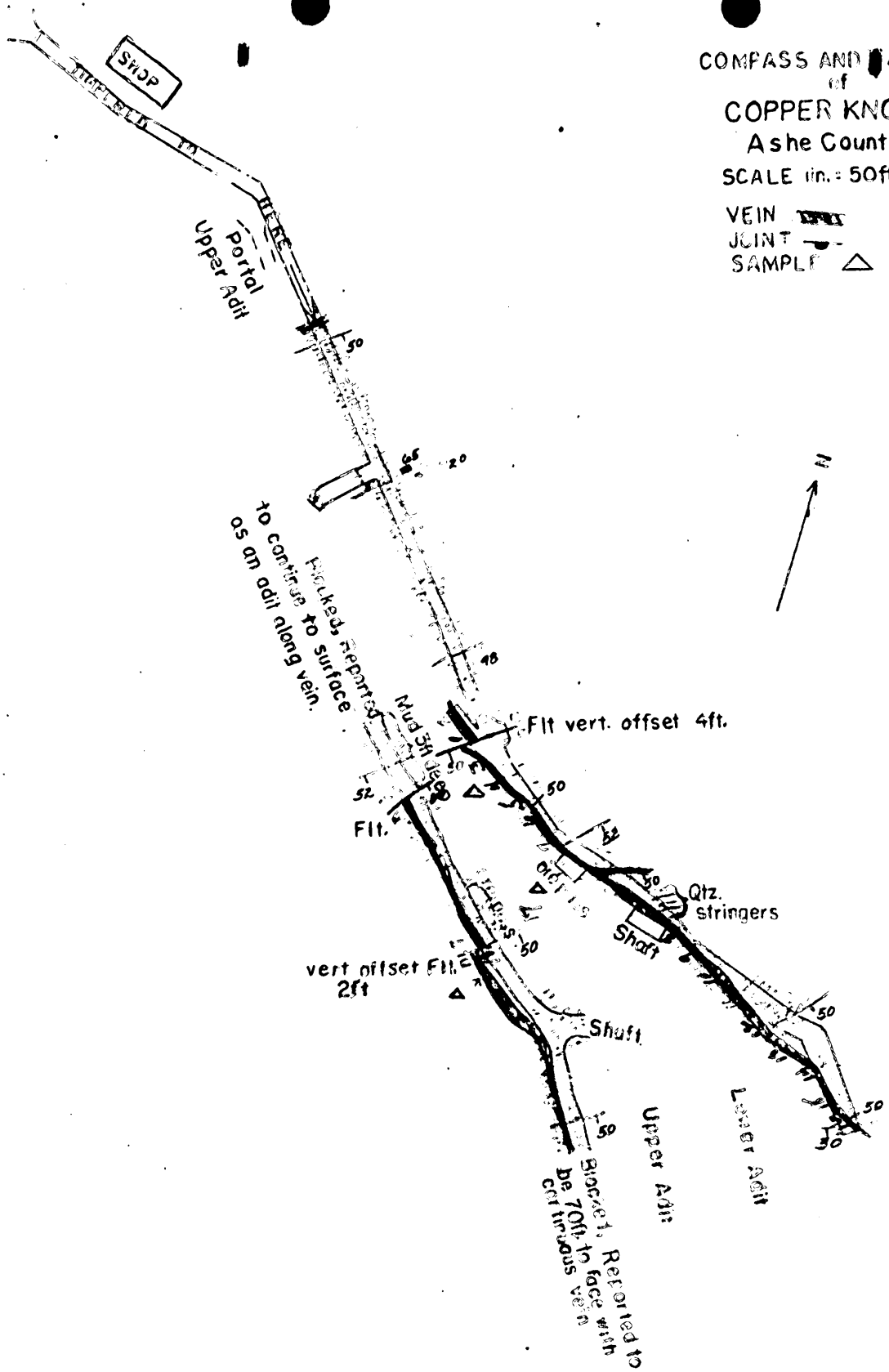
The above figures are taken from a Certificate of Assay prepared by The Henry E. Wood Assaying Company, 1750 Arapahoe Street, Denver, Colorado, the Certificate being dated the 21st day of April, 1951.

Sample No. 17 taken half way up ore pass to next tunnel. No. 18 taken at top tunnel between shaft and ore pass.

COMPASS AND TAPE MAP
of
COPPER KNOB MINE
Ashe County, N.C.
SCALE 1in. = 50ft 7-11-50

VEIN
JOINT
SAMPLE △

SCHIST
BEDDING



ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Equipment:

105 cubic feet Worthington Air Compressor.

One sinker drill; 14 drill steels, various lengths; 75 drill bits, including four carbondum insert bits; one five h.p. gasoline driven water pump. All necessary hand tools, air and water hose in sufficient quantity.

18. It is the purpose of this application to obtain money to be used with money to be furnished by the applicant, to sink a shaft approximately 200 feet on the vein which is now exposed, in the lower tunnel of this mine.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-1840 X

Date received 7/16/51

No Ex-Grath. [illegible]

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Name and address of applicant

Date May 23, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) ~~Necessity Certificate pursuant to the provisions of Sec. [illegible] Revenue Code 1950~~, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production Answered supplement sheet

   If not in production or operation, estimated date when production will begin Answered supplement sheet
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
ANSWERED SUPPLEMENT SHEET							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	ANSWERED SUPPLEMENT SHEET				
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	ANSWERED SUPPLEMENT SHEET				
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(*a*) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

Atoz Corporation
(Name of company)

By Mark P. Meade
(Signature of authorized official)

May 23, 1951
(Date)

President
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

1. Materials produced:

   a. copper

   b. gold and silver

2. Name and type of mine:

   Copper Knob Mine and it is a drilling operation.

   There is attached hereto a map showing the location and extent of the workings.

   a. 140 feet

   b. 46 feet

   c. upper tunnel approximately 200 feet - upper tunnel 60 feet below surface at the shaft. Lower tunnel 445 feet - lower tunnel 60 feet below upper tunnel.

   d. none

   The mine is not flooded. Water will have to be pumped from the shaft when it is extended below the floor of the present lower tunnel.

   Do not know what the "size or productive capacity" refers to.

3. a. 14 miles southeast from West Jefferson, N. C., which is on the Norfolk and Western Railroad.

   b. Do not know what mining district this area is in.

   c. Do not know what Township it is in.

   d. Southeast corner of Ashe County, North Carolina.

4. a. The mine is not now producing--it is in the process of being explored.

   b. Lessee.

5. The mine was in operation for a period of approximately five years between 1880 and 1893. It has not been operated since that time.

   It is not known when the mine can be placed in production as this is dependent upon the findings of the present exploratory operation.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

6. The certificate of incorporation for the applicant was issued on the 18th day of September, 1950, and the organizational meeting of the stockholders was held on the 4th day of November, 1950. The three men who will manage the corporation (applicant) own eighty per cent of the stock which is outstanding. These three men and their qualifications are:

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   James P. Moore
   He is a graduate of the College of Mines of the University of Missouri and of the University of Alabama; he holds degrees given by both of these schools. He has practical experience gained by working in several mines in the western States. He now has charge of all construction work done by the United States Steel Company at its Gary, Indiana plant.

   W. E. Keeter, Jr., Secretary
   He is now President and Treasurer of the Southern Wipers, Inc. of Charlotte, North Carolina. He has had much experience in accounting and the management of a manufacturing business.

7. There are attached hereto reports of several geologists. These reports answer sections a, b and c of this question.

8. Names and addresses of Officers, Directors, etc.
   (See attached sheet)

9. Capital Stock Issues:
   (See attached sheet)

10. Production:

    This mine has been operated on an exploratory rather than a production basis. It does not have a production record.

11. Not applicable.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

The following is taken from N. C. Department of Conservation and Development Bulletin No. 38, page 144, Ashe County.

The Copper Knob (or Gap Creek) Mine is located in the southern part of Ashe County on the waters of New River. At this mine there are three quartz veins, only one of which has been worked to any extent. This vein lies in a large body of horne blend schist, but the prevalent country rock is a gray gneiss? griss, with a strike N. 60 E. and a dip 40 degrees S. E.

The vein is principally quartz, which, in the upper part, contained a great deal of iron oxide extraordinarily rich in gold. The mineralized seam occupied the center of the quartz fissue and varies from four to six inches (total thickness) in thickness. At the sixty-foot level the vein carried copper ores for 53 feet; then the quartz changed slightly and carried native gold, with brown oxide, for a distance of about 36 feet. At this point the strike changed to N. 43 W.; the vein seemed to be more mineralized on the northwest than on the southeast side of the workings. The ore is complex-viterous copper ore, malachite, chrysocolla, a very little chalcopyrite and brown ore. The iron pyrite is almost wanting. (Pyrite impressions) The ore seam increased somewhat in width as a greater depth was reached. The shaft was sunk to a depth of 60 feet with satisfactory results and subsequently deepened to 140 feet. At this stage the mine became the prey of a company of speculators. Those persons familiar with the last work stated that the mine continued good as far as explorations extended.

The nature and value of the ore is shown by the following assays: $8.62, $34.79, $57.36, $77.51 gold and $2.26, $25.50, $14.53, $45.68 per ton silver. The copper content varied from 23 to 37 per cent.

REPORT ON COPPER KNOB MINE

This mine is situated in the southeast corner of Ashe County, North Carolina, in the Blue Ridge Mountains, about 2½ miles from Bowie, the nearest railroad station on the Virginia-Carolina Railroad.

The mine is favourably mentioned in the published State reports and has been examined by several State Officials. Prof. Emmons, formerly State Geologist, writes as follows:- In the course of my examination of the geological features of the Western Counties of North Carolina, I had occasion to examine the Copper Knob Mine, situated in Ashe County, North Carolina. The special mineral which prevails is the vitreous ores Sulphurette of copper, together with the blue carbons, chrysocolia or silicate of copper. I did not notice any of the yellow sulphurat, though the most characteristic speciman came from a depth of from fifty to sixty feet. This fact furnishes an indication that the viterous ores are likely to prevail and an ore which on an average will probably be twice as rich as the yellow sulphurette.

This is a true vein and has a perfect regularity in direction as well as its walls. Its strike or direction is S. 35 degrees. The width being eighteen inches at the surface and 18 to 24 inches at different depths below ground. It appears to occupy a vein fissure formed prior to the time that it became filled with mineral matter, and therefore it is highly probable it is destined to be a permanent vein.

The walls in which it is encased is a hornblende slate which appears to have been altered. It is only a quarter of a mile wide and seems to be intruded into a talco-micaceous schist.

The main body of the ore, will be encountered at bout 350 feet, from the mouth of the tunnel, then every foot that is driven from that

45° ∠ ?

point, it will gain a foot in depth, as the course of the vein is right into the body of the mountain. This vein contrary to the rule, cuts the stratified formation at right angles and has therefore been pronounced a true fissure.

The following assays and results are what has been done. At present the mine is caved in and must be opened by an adit level driven in from the foot of the mountain. This has been started and is in about one hundred feet, at which point, it is nearing the vein as indicated by copper in the slates.

In order to open up the mine it will be necessary to drive the bottom level to connect with the bottom level from the shaft and then on into the mountain. The ore below the bottom level is a heavy sulphurette, and well adapted to concentration. The high grade ores can be hand picked and shipped to smelter. The low grade concentrated to a product that will readily stand shipment at a good profit.

The country is beautiful, climate healthy and invigorating, labor cheap and plentiful.

ASSAYS BY UNITED STATES ASSAY OFFICE

No. 1 Best Ore	Gold 3.75/100 ozs.	$75.00	
	Silver 35 "	18.00	
	Copper 37.44 %	89.76	
	Total	$182.76	per ton

No. 2. Sample shipped to New York and sold

Gold 2-35/100	$47.50	
Silver 11.235	6.05	
Copper 23%	55.20	
Total	$108.75	per ton

No. 3. Ore shipped to smelter, Newark, N. J.

Gold	$11.00	
Silver	12.00	
Copper	18.00	
Total	$41.00	per ton

No. 4. Concentrates made at mine, 12 into 1 and sent smelter.

Gold	$185.00	
Silver	12.00	
Copper	67.20	
Total	$264.20	per ton

These assays were based on silver at about fifty cents per oz. and copper at around twelve cents.

In prospecting this Copper Knob Mine, a shaft was sunk to a depth of fifty to sixty feet, and a tunnel was driven in to connect with shaft. Then the shaft was continued to a depth of 105 feet, and another tunnel starting at the foot of the hill was driven in to connect with the shaft, a distance of between two and three hundred feet. Then a car load of vein matter was taken out and shipped to the smelter in New Jersey. All matter taken from the vein was included in shipment.

Richard Eames, Jr., E.M.

COPPER KNOB GOLD MINE

Ashe County, North Carolina

From reports by B. C. Nitze, Richard Eames, Jr. and George B. Hanna, Geologists and Mining Engineers:

The property consists of one hundred and fifty acres mineral right with all mining rights and privileges, and is located in the heart of the Blue Ridge Mountains in the southern part of Ashe County, North Carolina, on the waters of New River, ten miles from the town of Boone, N. C., and lies only a mile off the paved highway connecting that town with Wilkesboro, making it much more accessable than in the past days of operation.

There are three quartz veins on the property, though only one has been worked to any extent. It lies in a large body of hornblende schist but the prevalent country rock of the district is a grey gneiss, with a strike N. 60 E. and dip 40 degrees S.E. The strike of the fissure is N. 45 W. and dip 40 degrees N.E., thus, contrary to rule, the vein cuts the stratified formation at almost right angles and has been pronounced a true fissure with great possibilities of unusual permanence and depth.

In prospecting this property a shaft was sunk to a depth of 60 feet and a tunnel driven in to connect with the shaft--then the shaft was continued to a depth of about 120 feet and another tunnel, starting at the foot of the hill was driven in to connect with the shaft, a distance of something over 200 feet. It has been extimated that the main body of ore will be encountered at a point around three hundred feet from the mouth of the lower tunnel.

The vein stone in the upper workings was accompanied by a selvage of iron oxide extraordinarily rich in gold. The mineral seam occupying the center of the quartz fissure which varies in width from fourteen inches to three feet. On the N. W. course along the 60-foot level the vein contains copper ores bearing values in both silver and gold for 53 feet then the quartz becomes slightly changed and carried native gold in a brown oxide of iron for about 36 feet. Here the bearing changes to N. 43 W.

The ore is slightly complex, viterous copper ore, malachite, brown oxides, etc., very little chalcopyrite or iron pyrites, but all being well adapted to concentration. The high grade ores can be hand picked and shipped to smelter and the low grade concentrated to a product that will readily stand shipment at a good profit.

About the time that the mine reached its present state of development it became the prey of a company of speculators, resulting shortly in financial distress and cessation of operation. However, the concurrent testimony of many persons cognizant of the last work is, that the resources of the mine continued good as far as the exploration extended.

Climatic conditions are ideal and work can be carried on all the year round. Labor efficient, cheap and plentiful. Produce and provisions of all kinds easily obtainable at extremely reasonable prices. Fuel and water in abundance for all mining purposes on and in close proximity to the mine.

The nature of some of the ore is shown by accompanying assays:-

ASSAYS FROM COPPER KNOB GOLD MINE

Ashe County, North Carolina

		Gold	Silver	Copper
No. 307		$ 8.62	$ 2.26	
No. 380		34.70	22.50	
N. 309		57.36	14.53	23.83%
No. 310		77.51	45.68	37.44%
No. 1	Good Ore	75.00	18.00	36.34%
No. 2	Sample shipment to N.Y.	47.50	6.05	23 %
No. 3	Shipment to N.J. Smelter	11.00	12.00	8.33%
No. 4	A 12 into 1 concentrate shipped to smelter	185.00	42.25	27.50%

N.B. These being old assays, naturally were based on the old price of gold, $20.67 per oz. and silver around sixty cents. The present price of gold will increase the above gold results seventy-five per cent.

8. Name and addresses of Officers, Directors, etc.

(a)	(b)	(c)	(d)	(e)	(g)	(h)
Mart P. Moore Deep Gap, N. C.	President & Treasurer/ D 5	None Paid	$15,000	$8,500	None	None
Frank E. Lloyd 112 S. Fulton St. Salisbury, N. C.	Vice-President & Assistant Secy/D	None Paid	10,000	10,000	None	None
James P. Moore 336 Tyler St. Gary, Indiana	Director	None Paid	30,000	10,000	None	None
W. E. Keeter, Jr. 3031 Fairfax Drive Charlotte, N. C.	Secretary/D	None Paid	20,000	500	None	None
Chauncey Moore Captain, U.S.Navy U.S.Naval Station Green Cove Springs ,Fla.	Director	None Paid	15,000	1,500	None	None
			Total	$ 30,500		

9. Capital Stock Issues

	(a)	(b)	(c)	(d)	(e)
Common Stock	$50,000.00	$31,500.00	$1.00	31,500	none paid
Preferred Stock	None authorized by Charter				

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

12. Ore or Mineral Reserves:

a. This is answered by the reports which are part of the answer to question 7.

b. 1. There is attached hereto a report of assays made within the past thirty days. A map showing the location of the points where the samples were taken from the mine is attached to the report of the assays.

2. Not applicable.

c. Not placer.

13. Access Roads:

West Jefferson, North Carolina is approximately 14 miles northwest of the mine and it is the shipping, supply and residence point. It is connected with the mine by an all weather surfaced paved road, with the exception of the first half mile from the mine, which is a State maintained stone surfaced road.

14. Water Supply:

Springs and branches and is available in an abundant supply for a year-round operation.

15. Power:

Present equipment is operated by gasoline powered engines. Electricity is available to the extent of 30 horse power and is furnished by a R. E. A. line.

16. Labor:

Two miners

17. Equipment and Facilities:

One wooden frame building, 10 x 12, used as house for air compressor.

One wooden frame building, 12 x 12, used as equipment, tool and storage house.

Both houses in good condition.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

SAMPLE NUMBER	GOLD OZS.	SILVER OZS.	COPPER PERCENT	VEIN THICKNESS	DISTANCE
1	0.06	1.14	3.88	9 inches	
2	0.19	0.31	1.01	6 inches	7 feet from No. 1
3	0.52	1.12	1.56	5 inches	13 feet from No. 1
4	0.03	0.10	1.77	6 inches	7 feet from No. 3
5	0.16	0.34	43.18	5 inches	6 feet from No. 4
6	0.46	0.66	1.82	6 inches	4 feet from No. 5
7	0.22	0.54	0.50	9 inches	11½ feet from No. 6
8	0.05	0.19	0.05	6 inches	66 feet from No. 7--This is across ore pass and shaft where no samples could be obtained and the bottom has been stoped out and is under water and mud and refuse stone.
9	0.02	0.10	0.15	9 inches	12 feet from No. 8
10	0.06	0.46	0.87	10 inches	14 feet from No. 9
11	0.05	0.43	0.56	16 inches	10 feet from No. 10
12	0.04	0.24	0.72	36 inches	10 feet from No. 11
13	0.01	0.05	0.11	6 inches	10 feet from No. 12
14	0.01	0.07	0.10	24 inches	10 feet from No. 13
15	0.01	0.07	0.03	10 inches	16 feet from No. 14
16	0.01	0.15	0.02	6 inches	11 feet from N. 15
17	0.09	1.11	3.69	8 inches	in ore pass 30 feet up
18	0.06	0.78	0.93	10 inches	in upper tunnel

The above figures are taken from a Certificate of Assay prepared by The Henry E. Wood Assaying Company, 1750 Arapahoe Street, Denver, Colorado, the Certificate being dated the 21st day of April, 1951.

Sample No. 17 taken half way up ore pass to next tunnel. No. 18 taken at top tunnel between shaft and ore pass.

3. Nature of Business and Description of Project

SUPPLEMENT SHEET 3-C

SAMPLE NUMBER	GOLD OZS.	SILVER OZS.	COPPER PERCENT	VEIN THICKNESS	DISTANCE
1	0.06	1.14	3.88	9 inches	
2	0.19	0.31	1.01	6 inches	7 feet from No. 1
3	0.52	1.12	1.56	5 inches	13 feet from No. 1
4	0.03	0.10	1.77	6 inches	7 feet from No. 3
5	0.16	0.34	43.18	5 inches	6 feet from No. 4
6	0.46	0.66	1.82	6 inches	4 feet from No. 5
7	0.22	0.54	0.50	9 inches	11½ feet from No. 6
8	0.05	0.19	0.05	6 inches	66 feet from No. 7--This is across ore pass and shaft where no samples could be obtained and the bottom has been stoped out and is under water and mud and refuse stone.
9	0.02	0.10	0.15	9 inches	12 feet from No. 8
10	0.06	0.46	0.87	10 inches	14 feet from No. 9
11	0.05	0.43	0.56	16 inches	10 feet from No. 10
12	0.04	0.24	0.72	36 inches	10 feet from No. 11
13	0.01	0.05	0.11	6 inches	10 feet from No. 12
14	0.01	0.07	0.10	24 inches	10 feet from No. 13
15	0.01	0.07	0.03	10 inches	16 feet from No. 14
16	0.01	0.15	0.02	6 inches	11 feet from No. 15
17	0.09	1.11	3.69	8 inches	in ore pass 30 feet up.
18	0.06	0.78	0.93	10 inches	in upper tunnel

The above figures are taken from a Certificate of Assay prepared by The Henry E. Wood Assaying Company, 1750 Arapahoe Street, Denver, Colorado, the Certificate being dated the 21st day of April, 1951.

Sample No. 17 taken half way up ore pass to next tunnel. No. 18 taken at top tunnel between shaft and ore pass.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Equipment:

105 cubic feet Worthington Air Compressor.

One sinker drill; 14 drill steels, various lengths; 75 drill bits, including four carbondum insert bits; one five h.p. gasoline driven water pump. All necessary hand tools, air and water hose in sufficient quantity.

18. It is the purpose of this application to obtain money to be used with money to be furnished by the applicant, to sink a shaft approximately 200 feet on the vein which is now exposed, in the lower tunnel of this mine.

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 - 1840 X

Date received 7/16/51

Participation

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

Name and address of applicant

Date May 23, 1951

FILL IN THIS BLOCK

Date of application May 23, 1951

Estimated cost $30,000

Mineral or metal Copper

Percentage of Government participation Fifty per cent

Location of mine Copper Knob Mountain, southeast section of Ashe County, North Carolina

Date of filing MF-100 May 23, 1951

DMA Docket Number, if available Not available

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.
*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.
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.

Atoz Corporation
(Name of company)

By Mark P. Moore
(Signature of authorized official)

May 23, 1951
(Date)

President
(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

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

1. Answered on Form M.F.-100

2. Answered on Form M.F.-100

3. Answered on Form M.F.-100

4. Answered on Form M.F.-100

5. Answered on Form M.F.-100

6. Applicant does not own land; it is leased and there are no liens or encumbrances for which the lease is security.

7. A copy of the lease is attached and the lease is in good standing.

8. The company has been operated entirely on an exploratory basis; the money for this has been furnished by the stockholders. There is no financial or profit and loss statement.

9. The applicant is prepared to invest $152.50 per week for a maximum number of 64 weeks. This is one-half of the estimated cost of this project.

10. a. The property which is to be explored is particularly described in the lease held by the applicant, a copy of which is attached as part of this application, in answer to question 7. The lease refers to the deeds which conveyed the property to the lessor. A general description is as follows:

    Located in the southeast section of Ashe County, North Carolina, and is on Copper Knob Mountain, and bounded as follows:

    Bounded on the north by the lands of B. B. Daughtery, the heirs of D. D. Daughtery and Roe Church; on the east by the lands of V. M. Beroth and Roe Church; on the south by the lands of Arthur Cowles and J. H. Cowles; on the west by the lands of J. H. Cowles and Edmund Fairchild and others. The said tract of land contains one hundred and fifty acres, more or less.

    b. The area to be explored is the same as that described in answer to question 10 a.

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

11. Answered on Form M.F.-100

12. Answered on Form M.F.-100

13. Answered on Form M.F.-100

14. Answered on Form M.F.-100

15. The ore would be shipped by truck to West Jefferson, North Carolina and there loaded into railroad cars and shipped to a smelter, the nearest one being located in the State of New Jersey.

16. Answered on Form M.F.-100

17. Answered on Form M.F.-100

18. Answered on Form M.F.-100

19. It is the purpose of this application to obtain money to be used with money to be furnished by the applicant, to sink a shaft approximately 200 feet on the vein which is now exposed, in the lower tunnel of this mine.

THE EXPLORATION

20. Vein deposits of copper.

21. It is the purpose of the applicant to sink a shaft along the vein of copper now exposed to an approximate depth of 200 feet below the floor of the present lower tunnel. The vein will be explored in a horizontal direction for about fifty feet, the distance depending upon the findings, in each direction, at each fifty-foot level going down.

It will take approximately fifteen months to make this exploration.

22. This question is answered by the reports which are attached to Form M.F.-100 in answer to question 22.

THE REQUIREMENTS AND COSTS.

23. a. 1 miner - 40 hours per week @$1.00 per hour $ 40.00 2560
1 mucker - 40 hours per week @ .75 per hour 30.00 1920

ATOZ CORPORATION
BOX 63
GREENVILLE, NORTH CAROLINA

b. 1 supervisor and blaster - salary basis $ 75.00 4800
board of supervisor 15.00 960

c. None at present, nor anticipated.

d. None at present, nor anticipated.

e. 1 airmotor pump - cost $ 500.00
1 drill on column - cost 750.00

These two pieces of equipment will be purchased by two of the stockholders of the applicant and will be rented to the applicant at the weekly rate of 20.00 1280

f. 1 air compressor, 1 sinker drill with all hose, drill steels, bits, and hand tools and lights and other items now on the job 75.00 4800

g. The equipment listed in item 23-f and other equipment now at the mine is owned by two of the stockholders and is rented to the applicant on the terms set out in 23-f

h. Dynamite, caps and fuses, oil and gasoline, carbide, miscellaneous hand tools, etc. 50.00 3200

TOTAL ESTIMATED COST PER WEEK $ 305.00

Estimated number of weeks to complete project 64

TOTAL ESTIMATED COST OF PROJECT $ 19,520.00

19,520

The estimated number of weeks to complete project is based on a maximum; it is hoped that the time will be much less than 64 weeks.

24. It is estimated that the project will go forward at the minimum rate of sixteen feet of excavation of the shaft per month. The cost per month of the work is estimated not to exceed $1,220.00.

NORTH CAROLINA

ASHE COUNTY

AGREEMENT
MINING AND MINERAL
LEASE AND OPTION

THIS AGREEMENT made and entered into between V. L. Moretz, of Deep Gap, Ashe County, North Carolina, party of the first part, and Frank E. Lloyd of Salisbury, Rowan County, North Carolina, Mart P. Moore of Greenville, Pitt County, North Carolina, and James P. Moore of Gary, Lake County, Indiana, parties of the second part, each having a one-third (1/3) interest;

WITNESSETH:

That for and in consideration of the sum of One Dollar ($1.00) the receipt of which is hereby acknowledged, the said party of the first part, owner of a certain mineral right in Ashe County, North Carolina, known as Copper Knob or Gap Creek Mine, and until recently owned by the Monaton Mining Company, of New York, New York, but forfeited by them for non-payment of taxes, and containing one hundred fifty (150) acres, more or less (all of the lands once owned by the above mentioned Monaton Mining Company), reference to which is hereby made to a certain deed dated May 6, 1914, from the Monaton Mining Company of New York to L. M. Waters and V. L. Moretz, and recorded in Book O-1, page 568, Ashe County, N. C., Register of Deeds office, and to that certain deed recorded in Book 1, page 91, Ashe County, N. C., Register of Deeds office, from Ira T. Johnston, Comr., to V. L. Moretz, conveying the mineral rights to the above tract of land, formerly owned by the Monaton Mining Company, does hereby give and grant to the parties of the second part for a term of three (3) years a lease and option to purchase the mineral and mining rights and surface rights in accordance with the following terms and conditions.

1. Price of mining and mineral rights - Fifteen Thousand Dollars ($15,000.00), to be paid as follows: Ten per cent (10%) of sale price of returns from smelter (less freight and smelter penalties) of all ore sold shall be paid to Mr. V. L. Moretz, his heirs or assigns, or deposited to his account in any bank designated by him, to be credited on the above price.

2. Thirty per cent (30%) of the Fifteen Thousand Dollars ($15,000.00) to be paid by the end of three (3) years from July 1, 1948. Said thirty per cent to be derived from the sale of any ores or minerals taken from the mine.

3. Then ten per cent (10%) of any remaining balance to be paid at end of each year thereafter and the lease and option thereby automatically extended as long as payments are made.

4. Price of surface rights - Three Thousand Dollars ($3,000.00) to be paid any time, by agreement of all parties, during the life of this lease and option. Surface rights shall cover all of the land once owned by the above mentioned Monaton Mining Company, except parts deeded to Mr. Roe Church and William Greer (now owned by John Edward Cheek). All mining and mineral rights of these two tracts are contained in this lease and option of mineral rights.

5. This lease and option voids and supercedes a lease and option to purchase the above mineral, mining and surface rights to the above mentioned property, dated September 11, 1946, between Mr. V. L. Moretz, of Deep Gap, North Carolina, and Mr. Frank M. Lloyd, of Salisbury, North Carolina.

6. The parties of the second part agree that if no work of any kind is done for a continuous period of one (1) year this lease shall become null and void unless amended.

7. The parties of the second part and their agents, associates or assigns shall, at all times during the life of this lease and option, have full access to the property, with all privileges of ingress and egress, also the right to cut and use such small timber as may be necessary for props, stulls, and other mining timbers to make shafts and tunnels safe for all working and mining purposes.

8. The parties of the second part shall also have the privilege of erecting any building, machinery, making any surface excavations and fills that they may deem necessary for the operation of the mine, extraction of minerals, reduction and shipping of ores or minerals encountered, and the right to remove such houses and machinery within six (6) months after the expiration of this agreement, if, for any reason, this lease and option is not fully completed.

Both parties to this contract agree that this lease and option may be amended by mutual agreement from time to time if deemed necessary.

Upon receipt of final payment of the aforementioned mineral right, surface right, or both, the party of the first part, his heirs and assigns, agrees to deliver to the parties of the second part good and sufficient warranty deeds to the properties or rights mentioned.

Both parties to this contract agree for their heirs and assigns to each and every condition herein set forth.

WITNESS our hands and seals this first day of July, nineteen and forty-eight.

V. L. Moretz (SEAL)

Frank E. Lloyd (SEAL)

Mart P. Moore (SEAL)

James P. Moore (SEAL)

The above lease is duly recorded in the Register of Deeds office, Ashe County, North Carolina, at Jefferson, North Carolina

LEASE EXTENSION

For and in consideration of the sum of one dollar, ($1.00) the receipt whereof is hereby acknowledged - the party of the first part - V. L. Moretz of Deep Gap, North Carolina does hereby agree to extend the foregoing lease and option on a certain mineral right in Ashe County, North Carolina dated July 1, 1948 and hereunto attached - consisting of (150) one hundred and fifty acres more or less - to parties of the second part viz.

Frank E. Lloyd	Salisbury, N. C.
Mart P. Moore	Greenville, N. C.
James P. Moore	Gary, Indiana

for a term of two years - thus, making first payment of ($4,500.00) four thousand five hundred dollars due July 1, 1953 instead of July 1, 1951. All other conditions and terms remaining the same but to conform to the new date of first payment.

All parties agreeing for themselves, their heirs and assigns to the above.

Witness our hands and seals this 18th day of June 1951.

s/ V. L. Moretz

s/ Frank E. Lloyd

S/ Mart P. Moore

s/ James P. Moore