DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMA Docket No. 1501X

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Routing Slip

To: Mr Lyon Date 8-4

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INT.-DUP. SEC., WASH., D.C. 98868

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

AUG 8 1951

A. E. C.

Code 370

Memorandum:

To: Reports and Records Unit

From: Chief, Industrial Minerals Branch

Subject: DMA 1501-X; Commodity: Talc (steatite)
Sterling Carter, Mercer Caverns, Murphys, Calif.

Denial recommended because:

1) Neither data submitted nor Field Team examination has produced evidence of strategic grade material in the deposit.

2) A sound geologic basis to justify exploration of the deposit has not been demonstrated.

We are forwarding the docket which includes the following:

1) Memo from Field Team, Region III
2) Report of Field Team
3) Review of Application and attachments
4) Form MF-103 and attachments in duplicate.

James A. Barr

James A. Barr, Sr.

Approved:

Tom Lyon

Tom Lyon, Director
Supply Division

FILE COPY
SURNAME:

Barr

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

AUG 8 1951

Code 370

Memorandum:

To: Reports and Records Unit

From: Chief, Industrial Minerals Branch

Subject: DMA 1501-1; Commodity: Talc (steatite)
Sterling Carter, Mercer Caverns, Murphys, Calif.

Denial recommended because:

1) Neither data submitted nor Field Team examination has produced evidence of strategic grade material in the deposit.

2) A sound geologic basis to justify exploration of the deposit has not been demonstrated.

We are forwarding the docket which includes the following:

1) Memo from Field Team, Region III
2) Report of Field Team
3) Notice of Application and attachments
4) Form DF-103 and attachments in duplicate.

MP

James A. Barr, Jr.

JT 8/8

Approved:

Tom Lyon

Tom Lyon, Director
Supply Division

DWiman August 3, 1951

cc: Reports and Records Unit
Mr. Lyon
Mr. Barr
DMA File
Field Team, Region III (2)

AUG 8 1951

Code 370

Memorandum

To: Reports and Records Unit

From: Chief, Industrial Minerals Branch

Subject: DMA 1501-A; Commodity: Talc (steatite)
Sterling Carter, Mercer Caverns, Murphys, Calif.

Denial recommended because:

1) Neither data submitted nor Field Team examination has produced evidence of strategic grade material in the deposit.

2) A sound geologic basis to justify exploration of the deposit has not been demonstrated.

We are forwarding the docket which includes the following:

1) Memo from Field Team, Region III
2) Report of Field Team
3) Review of application and attachments
4) Form DMA F-103 and attachments in duplicate.

James A. Barr, Sr.

Approved:

Tom Lyon

Tom Lyon, Director
Supply Division

RW:mas August 3, 1951

cc: Reports and Records Unit
Mr. Lyon
Mr. Barr
DMA File
Field Team, Region III (2)

FILE COPY
SURNAME:

Barr

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

AUG 8 1951

Code 3,0

Sterling Carter
Harper Cavorne
Murphys
California

Subject: DMA 1501-8
Commodity: Talc (steatite)

Dear Mr. Carter:

Your application for aid for an exploration project on the talc (steatite) deposit located near Murphys, Calaveras County, California, docketed as DMA 1501-8, has been reviewed by this office.

Projects approved by the Defense Minerals Administration must, in its judgment, show definite promise of yielding material of acceptable grade, physical character and specification, in quantities that will significantly improve the mineral supply position for national defense.

A very careful study of the proposal, including examination by the Field Team, revealed the following:

1) Presence of strategic grade steatite in the deposit has not been established.

2) A sound geologic basis to justify the proposed exploration has not been established.

Under these circumstances your application for exploration aid to the extent of $[illegible] of $11,[illegible] is denied. Should additional information become available we would be glad to have you resubmit your proposal for consideration. In the event that you wish to re-open the case, large enough samples of steatite from the deposit in pieces large enough so that blocks not less than 2 x 2 x 3 inches may be prepared for testing.

Unless we receive a response within 30 days we will assume that you do not wish to apply.

Sincerely yours,
Tom Lyon

J.T. 8/8

Ennis August 3, 1951

cc: Reports and Records Unit
Mr. Lyon
Mr. Barr
DMA File
Field Team Region III (2)

Tom Lyon, Director
Supply Division

AUG 8 1951

Sterling Carter
Mercer Caverns
Murphys
California

Code 370

Subject: [illegible] 1501-A
Commodity: Talc (steatite)

Dear Mr. Carter:

Your application for aid for an exploration project on the talc (steatite) deposit located near Murphys, Calaveras County, California, docketed as [illegible] 1501-A, has been reviewed by this office.

Projects approved by the Defense Minerals Administration must, in its judgment, show definite promise of yielding material of acceptable grade, physical character and specifications, in quantities that will significantly improve the mineral supply position for national defense.

A very careful study of your proposal, including [illegible] and [illegible] reveals the following:

1) Presence of first stage grade steatite in the deposit has not been established.

2) A sound geologic basis to justify the proposed exploration has not been established.

Under these circumstances your application for exploration aid to the extent of 90% of $12,020 is denied. Should additional information become available we would be glad to have you resubmit your proposal for consideration. In the event that you wish to re-open the case please submit samples of steatite from the deposit in pieces large enough so that blocks not less than 2 x 2 x 3 inches may be prepared for testing.

Unless we receive a request within 30 days we will assume that you do not so wish to apply.

Sincerely yours,

Tom Lyon

Tom Lyon, Director
Supply Division

RW:mas August 3, 1951

cc: Reports and Records Unit
Mr. Lyon
Mr. Barr
DMA File
Field Team Region III (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR

~~BUREAU OF MINES~~
~~REGION III~~

DEFENSE MINERALS ADMINISTRATION

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.
~~1416 ADMIRALTY BLDG.,~~
~~695 SANSOME STREET,~~
~~SAN FRANCISCO 11, CALIF.~~

OFFICE OF
~~REGIONAL DIRECTOR~~

Executive Officer
DMA Field Team
Region III

July 26, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee, DMA, Washington, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: DMA-1501X--Mr. Sterling Carter, Mercer Caverns, Murphys, Calif. - Talc (Steatite)

Reference is to subject "Review of Application for Exploration Assistance" dated June 25.

The Carter Talc property, situated in eastern Calaveras County, Calif., was examined by Mr. W. T. Benson, Mining Engineer, Bureau of Mines, and four copies of his report, "DMA-1501X - Talc - Carter Talc, Calaveras County, Calif.," dated July 19, 1951, are attached. Mr. Benson was unable to enter the underground workings on account of caved material in the openings. However, his assumptions are, from the material seen on the dump, that the wall rocks adjacent to the fault are in places serpentinized, and it is possible that some short talcose sections exist, especially along the fault trace where the movement is pronounced.

Mr. Benson states in his report that the workings could have been made accessible by a half day's work in removing the caved material from the portal of the adit. If this is done, the property might be revisited and occurrences of talc verified. However, as only a small amount of talc was found in the dump material, and it is unlikely that sufficient talc will be found to be economically mined, the deposit does not seem to warrant further consideration. It is doubtful also that the talc occurring there is of steatite grade.

Docket DMA-1501X and correspondence relating to it are returned herewith.

H. C. Miller
Executive Officer, DMA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 30 1951
F. STROBEL
Executive Secretary

Attachments

Copy to: E. H. Bailey, USGS

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-1501X - Talc - Carter Talc

Calaveras County, Calif.

W. T. Benson, Mining Engineer
U. S. Bureau of Mines

July 19, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 30 1951
LANDON F. STROBEL
Executive Secretary

DOCKET DMA-1501X - Talc

UNITED STATES DEPARTMENT OF THE INTERIOR - BUREAU OF MINES

CARTER TALC
Calaveras County, Calif.

SUMMARY

The Carter talc occurrence is situated in eastern Calaveras County, Calif., about 4 miles east of the small settlement of Murphys and 32 miles southeast of Valley Springs, the shipping point on a branch line of the Southern Pacific Railroad.

Claim locations were first made about 1907 and the development work done on the property was in the search for placer gold which was supposed to exist in an ancient iron channel that is now covered by basalt.

The claims were acquired by Sterling Carter on a lease arrangement in the early part of 1951. There has been no recent work done on the property.

Rocks in the area comprise schists and slates which remain as roof pendants in granite. Near the crest of the ridge, these sediments are covered by a nearly horizontal flow of basalt which varies in thickness from 50 to 75 feet.

The adit parallels a fault in which the sediments are broken in a zone 10 to 12 feet wide. This zone is comprised of crushed schists and slates which on surface are heavily stained with iron oxides.

While the workings could not be entered, it is assumed from material on the dump, that the wall rocks adjacent to the fault are in places serpentinized and it is possible some short talcose sections exist especially along the fault trace where the movement is pronounced. The

absence of talc on the dump would indicate the claim by the applicant as to the amount of talc, is greatly exaggerated.

The talc material found is chiefly a talcose schist, which contains quartz inclusions and finely disseminated pyrite crystals. Because of these impurities, it is doubtful if any of the talc material is of steatite grade and suitable for electric ceramic purposes.

Development openings on the property comprise an adit totaling in excess of 500 feet of work.

Because of water and the caved condition of the adit portal, the workings could not be entered for inspection and sampling purposes.

Since it was impossible to enter the mine, no estimate could be made of reserve tonnages. From the small amount of talcose material on the dump, it is almost certain, the occurrences in the mine are small.

The workings could be made accessible by a half days' work in removing the caved material at the portal of the adit. Unless this is done and the occurrences of talc verified, the request for funds should be disallowed. Under existing conditions, the request for a loan cannot be recommended by the Bureau of Mines, since the small amount of talc found in the dump material is not indicative enough to assure occurrences underground will be large enough to be economically mined, nor is the grade of the talc thus found sufficient to meet steatite specifications.

INTRODUCTION

At the request of H. C. Miller, Executive Officer, DMA Field Team, Region III, the Sterling Carter talc occurrence, Docket DMA-1501X in the vicinity of Murphys, Calif., was investigated by an engineer[1] of the Bureau of Mines, July 10, 1951, accompanied by the applicant.

Property holdings comprise two claims known as the Rose Quartz and Yellow Hammer, which are under lease to the applicant, Sterling Carter, Murphys Cavern, Murphys, Calif. They are situated in the Collyer Mining District, sec. 11, T. 3 N., R. 14 E., Calaveras County, Calif., about 4 miles east of Murphys and 32 miles southeast of Valley Springs, the shipping point on a branch line of the Southern Pacific Railroad.

To reach the property from Murphys, the Collyer and Table Mountain road is followed east through the Kenny and Reily ranches to the crest of Table Mountain, a distance of about 4 miles. A poor mountain road is then followed south one fourth mile to the Rose Quartz claim which is located on the crest of Table Mountain. The Hammer claim on which the talc was encountered is on the east slope of the hill and the adit is down the slope about 200 feet below the crest of the ridge.

HISTORY

The claims were first located about 1907, and most of the work until about 1917 was done in the search for placer gold which was supposed to exist in an extinct channel which is now covered by basalt. The work was done by a man named Hauslet, and while the channel was

1/ W. T. Benson.

encountered, the gold values found were too low to be profitable. The claims were acquired by Sterling Carter on a lease arrangement during the early part of 1951. There has been no recent work on the property.

PHYSICAL FEATURES

The claims are located on the crest and east side of Table Mountain in an area of moderately steep and rough topography at an altitude of about 2600 feet. Climate in the area is typical of the foothill country of the Sierra Nevada range with long, hot summers and moderate winters. Precipitation occurs usually as rain with occasional snows during the winter months. The annual average is about 30 inches. There are no springs within the area. For mining needs it is reported an ample supply can be obtained by pumping a shaft on the Taylor property, a short distance north of the Rose Quartz claim. Vegetation consists of small shrubs and a sparse stand of pine. The latter variety is not suitable for mining needs.

The high tension electric transmission line from the Stanislaus power plant of the P.G.&E. Co., 2 miles northeast, passes over the property, but it is certain this source could not be utilized on the property. For generation of power, it would be necessary to supply fuel oil in drums by truck from Angels Camp, 13 miles southwest.

HOUSING FACILITIES AND EQUIPMENT

No housing facilities or equipment is on the property.

GEOLOGY AND DESCRIPTION OF THE DEPOSIT

Rocks exposed in the vicinity of the mine comprise slates and schist which strike about northwest and dip 60° NE. Locally these

formations are complexly folded and broken by a fault near the adit portal which strikes about N. 60° W. and is nearly vertical. The crest of the ridge is covered by a nearly horizontal flow of basalt which varies from 50 to 75 feet in thickness. Near the base of the hill and about midway between the ridge and the Stanislaus river, granodiorite is exposed. It is possible the core of the range is granite and the sediments in the vicinity of the property remain as roof pendants.

The adit parallels a fault zone that strikes N. 60° W. and dips 60° NE. Where exposed in the portal excavation, the sediments are broken in a zone 10 to 12 feet wide. This zone is comprised of crushed and broken slates and schists which on surface are heavily stained with iron oxides.

While the adit could not be entered because of the caved condition of the portal and backed up water, it is assumed from material on the dump, that the wall rocks adjacent to the fault are in places serpentinized and it is possible some short talcose sections exist especially along the fault trace where the movement is pronounced.

It is reported the talcose section in the adit is about 125 feet in length, but from the absence of talc on the dump, it is assumed this statement is greatly exaggerated.

The talc material found on the dump is chiefly a talcose schist, which contains quartz inclusions, and in most pieces examined, finely disseminated pyrite crystals. Because of these impurities, it is doubtful if any of the material is of steatite grade and suitable for electric ceramic purposes.

No talcose areas were observed in surface outcrops.

DEVELOPMENT

Development on the property comprises an adit which bears N. 60° W. Originally this adit was extended under the lava cap in search of gold-bearing gravels. From the size of the dump, it is assumed this working probably totals better than 500 feet of work.

SAMPLING

Because of caved condition of the adit portal and water, the workings could not be entered for inspection and sampling purposes. For the purpose of observation, a few pieces of talcy material was secured from the dump. These pieces, because of deleterious inclusions are not suitable for ceramic purposes.

ORE RESERVES

Since the adit could not be entered, it was impossible to make an estimate of reserve tonnages. From the material on the dump, it is almost certain, the amount of talc or talcose material exposed in the mine workings is small.

PLAN OF OPERATION

No attempt has been made by the lessee to investigate the talc occurrences in the adit workings, and from his attitude and general conversation, no attempt will be made in the immediate future to determine the extent of the showings.

CONCLUSIONS

With a half days' work, the applicant could have made the workings accessible by removing the caved material at the adit portal. Unless this is done and the occurrences of talc verified, the request for

funds should be disallowed. Under existing conditions, the request for a loan cannot be recommended by the Bureau of Mines, since the small amount of talc found in the dump material is not indicative enough to assure occurrence underground will be large enough to be economically mined, nor is the grade of talc sufficient to meet steatite specifications.

Refer to	Noted	Date
Answered		

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

JUN 25 1951

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
JUN 28 1951
SAN FRANCISCO, CALIFORNIA

Mr. H.C. Miller
1415 Appraisers Building
San Francisco, California

Dear Sir:

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

Docket No. DMA-1501X

Commodity Talc(Steatite)

Applicant Mr. Sterling Carter Mercer Caverns, Murphys, California.

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

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Edwin T. McKnight
For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-1501X

Commodity Talc (Steatite)

Total Amount $13,020.00

Govt. Participation 90%

1. Name and Address of Applicant Sterling Carter
Mercer Caverns, Murphys, California.

2. Location of Property 4 mi. east of Murphys, Calaveras County, California

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

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 U.S.B.M. should check and see if
b) Poor samples of talc are of strategic quality.
c) None Work largely development - change application.
d) Don't know—needs field examination Yes. Field - JAR 6/15/51
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? No.

Does the lease have sufficient time to run to cover a future productive period? not Known

*question numbers are those of MF-103

Question (4)

DMA - 1501X, Sterling Carter, Mercer Coverns, Murphys, Calif.

For Talc (steatite)

The Geological Survey has no file data on the above property.

The applicant's description of the deposit is very poor. The attached samples appear to be talc, but the grade (quality) of the talc should be determined by the U.S.B.M.

For lack of qualified information about the geology of the deposit, the application should be referred to the field team.

J. Redden 6/15/57

7. Are subordination agreements necessary? Yes

a) MF-201? not attached

b) MF-202 not attached

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
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Probably OK.

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)* No.

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? Yes

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Type of work OK - application development rather than exploration

If not, what part of it is? _____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? —

f) Should more information be requested from applicant?_____

g) Is a field examination necessary to complete Exhibit A?_____

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? No If so, attach a draft.

c) Is a field check needed? Yes - if visited by field team

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

a) Is it applicable? Yes

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? questionable

d) Is a field check needed? Yes

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

a) Are there sufficient data? NO

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

c) Is the schedule excessive for the work proposed? No.

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? Yes

b) Sufficient data? Yes

c) Reasonable? —

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? No list of work to be done. Rehabilitation + placing in production can be done in time indicated

(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? Largely on question of whether the stockpile can be produced in sizes to be strategic — Larger sizes necessary. See specifications attached — Applicant must furnish leases and proper Subordination Agreements —

Reviewed by: [illegible]
BLM

Date 6/15/51

97692

6/11/51

Docket #1 DMA-1501X

Sect 10 Exhibit "A"

The project calls for the erection of a bunkhouse + cook house, the installation of a water supply + the rehabilitation of a tunnel in which steatite is said to have been found. The work proposed is largely the extension of limits of the ore body + its preparation for production. The diamond drilling is not sufficiently described as to location, geological conditions etc.

The note on page 4, where it is stated that production could be secured with a smaller outlay indicates the thinking of the applicant.

Sect. 11. Exhibit B.

For a strictly exploration project, 4 miles from town, a bunkhouse a cook house would not be necessary.

Sect. 12 Exhibit "C"

The equipment listed here does not appear necessary for an exploration project. The water system would be needed for a permanent camp; the amount of work to be done by the diamond drill a bulldozer is not mentioned, the rental of compressor, drills etc would need a check of its condition etc. before deciding the rental rate

Sect. 16 Recommendation.

The suitability of the material for strategic purposes is doubtful, from a quality + size standpoint. Tests on the first can be made by the laboratory of Emergency Procurment Services at 7th & D Sts. SW. in Washington but the procurement of proper sizes is a field team problem. The application should go to the field team which can submit samples of proper size for testing. Send the attached specifications to the field also.

[illegible]

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-1501X

Date received 6/4/51

Participation

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

Name and address of applicant

Date May 30, 1951

FILL IN THIS BLOCK

Date of application May 30, 1951

Estimated cost $13,020.00
See footnote, Page 4.

Mineral or metal Talc(Steatite)

Percentage of Government participation 90%

Location of mine Murphys, Calaveras County, California.

Date of filing MF-100

DMA Docket Number, if 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? Individual

*2. If a partnership, state names and addresses of partners. Inapplicable

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. Inapplicable

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See annex

*5. Are you the owner or the lessee of the property? Lessee

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. Inapplicable

7. If lessee, attach a copy of the lease and state if it is in good standing. Copy of lease to follow

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. See annex

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)? $5000.00 Yes.

*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. See annex

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. See annex

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. See annex

*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. See annex

*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. See Annex

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. None

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

*16. History: See annex

(*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: None known

(*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.) See annex

(*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. None

THE EXPLORATION

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

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

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. See annex

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: See annex

(*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. 3 months $13,020.00

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.

(Name of company)	By Sterling Carter (Signature of authorized official)
May 30, 1951. (Date)	Sterling Carter (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

UNUSUAL

MERCER CAVERNS

AT MURPHYS, CALIFORNIA

CHINESE MEAT MARKET

NEARBY ATTRACTIONS: "Wonderful Calaveras Big Trees"—16 miles from Murphys, (Highway 4) on Ebbets Pass highway, on the way to many beautiful and grand scenic, fishing, hunting and camping places. "Murphys Hotel"—one mile. Formerly the old Mitchler Hotel built in 1856 and noted for it's early mining-day lore. "Moaning Cave"—six miles from Murphys on the road to Columbia State Monument, Sonora and Yosemite Valley. Many modern and old gold mines, early and colorful mining towns and other places of special interest are located nearby.

ACCOMMODATIONS: Over-night accommodations including meals and refreshments can be had at Murphys a mile away, and at Altaville and Angels Camp on highway 49, about eight miles from the Caverns. Patrons of the Caverns are extended the reasonable courtesy of picnicking and camping privileges at no charge, until further notice. Bus service is available from Stockton to Murphys to train passengers.

Many people ask "What causes the various crystal formations to grow?" Answer: Rainwater picks up, at the surface of the ground, acids which are generated by decaying vegetable and animal matter. This acid water, as it seeps and trickles down thru the limestone dissolves and picks up a full load of calcium carbonate. When the saturated solution reaches an opening below, such as a cavern, some or all of the water slowly evaporates leaving a deposit of calcium carbonate. As the solution is usually saturated some of the crystals have to form as the water evaporates, and once they have formed they cannot be dissolved again by water not containing an acid so the crystals necessarily keep on growing, and very slowly.

A current of pure, cool and slightly moist air is at all times coming up from the lowest cavern to hasten evaporation and at the same time to perfectly air-condition the caverns, both the entrance and exit sides. The purity of this air has resulted in the happy discovery that hay-fever sufferers have found immediate and grateful relief in it.

WORLD FAMOUS

MERCER CAVERNS

AT MURPHYS, CALIFORNIA

CALAVERAS COUNTY
ON EBBETS PASS HIGHWAY
TO CALAVERAS "BIG TREES"

ANGEL'S WINGS

MERCER CAVERNS is located in the heart of the famous Mother Lode Country, in the Sierra Foothills, Playground of Central California, one mile north of Murphys on the Sheep Ranch road, a hard surfaced all-year road. Caverns entrance is less than two hundred feet from highway. Ample parking space is provided.

Murphys, a delightfully picturesque old mining town established in 1848, is on the Ebbets Pass highway (State highway No. 4) to Calaveras Big Trees, Lake Tahoe, Carson City and Reno, Nevada. (SEE MAP INSIDE.)

Elevation at Caverns is 2,300 feet—"Too high for fog and too low for snow". The weather is very mild as the air is dry and the sun shines practically all of the time. The beautiful and rustic grounds are on a sloping ridge, and abound in many varieties of natural verdure, birds and animal life.

For further information write

STERLING CARTER — MANAGING OWNER

Mercer Caverns Murphys, California

BEAUTIFUL

MERCER CAVERNS

AT MURPHYS, CALIFORNIA

CATHEDRAL ROOM

HOURS: 8 A. M. to 6 P. M. (Winter months 9 to 5.)

Evening Tours by Arrangement.

GENERAL INFORMATION: Beautiful Mercer Caverns are open to the public the year around, every day. Courteous and able guides conduct all tours, generally in groups of not more than ten to fifteen persons. No special time for tours. Substantial stairs, platforms and pathways will take you safely past the thousands of strange, beautiful and exotic natural crystalline formations. The tour takes from 30 to 45 minutes or longer if the party desires. Altho the distance from entrance to exit is only about one-fifth mile you will be amazed to see such an enormous variety of beautiful and unusual crystalline formations of all sizes, textures, shapes and colors, no two seeming to be alike. It is claimed by many world-traveled cave-fanciers that such a sight cannot be seen in any other place.

In 1947 a completely new and modern electric lighting system was installed to enhance the rare beauty and wonderment of nature's handiwork. There are seven circuits of about 1,500 watts each. Indirect lighting has been used wherever possible; and color filters added at many locations to bring out the natural color and beauty and even the grotesque and bizarre character of the countless crystalline formations designed and formed by nature during the past thousands and possibly millions of years. It is estimated that it takes from 100 to 1,000 years and possibly longer for one inch of the crystalline formation to grow. And in Mercer Caverns you will actually see, and at very close range, many thousands of unusual formations ranging from a fraction of a foot to over 30 feet long.

The natural rock surrounding the Caverns is limestone and is from two hundred to three hundred million years old. The tour thru the Caverns gives you a continuous spectacle as the Exit is separate from the Entrance. All who visit the Caverns proclaim them to be well worth their while. A large percentage of visitors have volunteered the statement that the Caverns are the most beautiful and unusual they have ever seen. Many have claimed that Mercer Caverns have a greater variety of beautiful and unusual formations than any other cave in the United States, if not the world.

Temperature in the Caverns is about 55 degrees the year around, an ideal temperature as it is delightfully cool in the summer and comfortably warm in the winter. No special clothing is required for the tour. Go as you are. Low heels and slacks are suggested for the ladies' comfort.

Admission prices: Adults—one dollar plus 20c govt. admission tax. Under 12 years—one-half price. Students—in groups of eight or more, including one teacher or other adult, sixty cents plus 20c tax. Organizations—in groups of 24 or more, 80c plus 20c tax. Previous arrangements should be made for student and organization tours with reference to date and time of tour (within 15 min.) so that a sufficient number of guides can be arranged for.

Good picnic and camping spots are plentiful. There are many paths and trails to explore. Unspoiled natural scenery can be had for the looking.

DISCOVERED. Sept. 1, 1885 by Walter J. Mercer who was prospecting for gold nearby. On his way home tired and thirsty, he noticed some bay bushes (now trees) near a limestone bluff. Not finding water here as he hoped, he sat down to rest and shortly his attention was drawn to a small opening in the rocks by a slight movement of moss growing there. Upon investigation he found a strong current of cool air coming out of the hole. A few stones tossed into the mysterious hole led him to believe that he was on the verge of a major discovery as the stones seemed to fall and roll for a great distance.

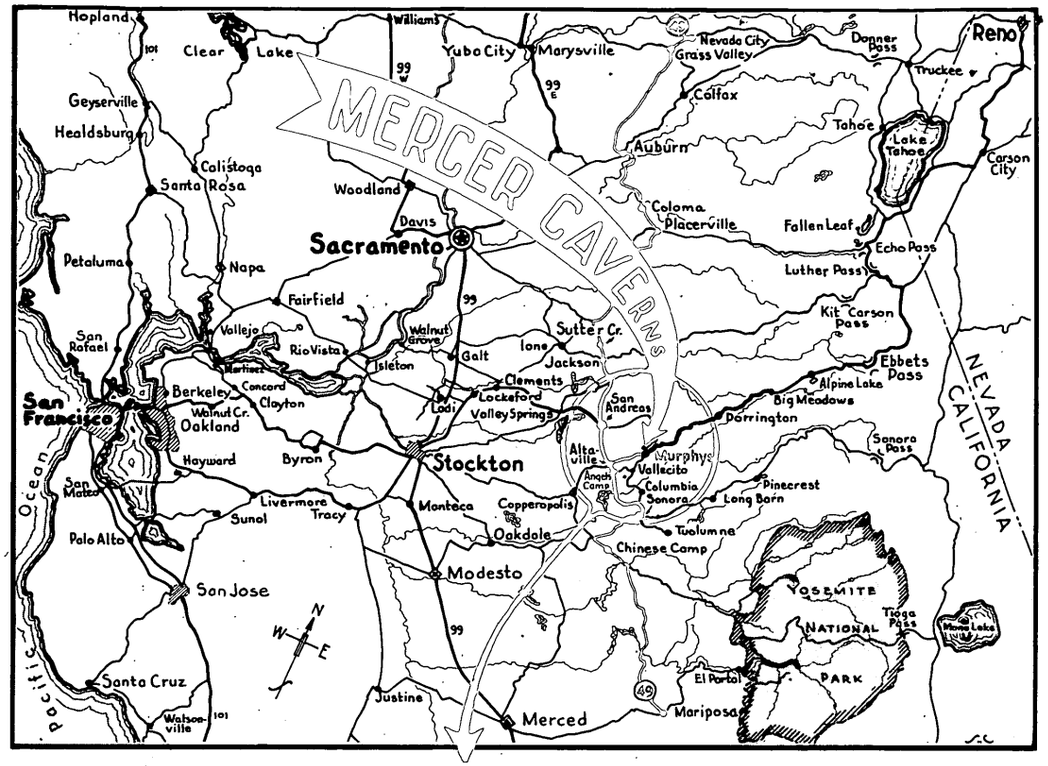
After securing tools and candles he immediately set to work and enlarged the opening so he could enter. Cautiously descending the slope for about thirty feet he found himself in a large and apparently endless cavern which contained a myriad of strange and unusual shapes on walls, ceiling and floor. (This cavern is now known as the "Gothic Chamber" and is the first of nine which are now lighted to make the Wonder Tour.)

Mr. Mercer's first impression upon seeing the many masses of lichens (a vegetable parasite growth) hanging from ceiling to floor was that he had discovered a secret old Spanish gold mine as the lichens resembled old mine timbers in the weak candle light. (There were many tales current in those days of such mines, which were believed to be fabulously rich.)

After hastily making an uneasy inspection of his breathtaking discovery and deciding that he should not venture farther, alone, he made his hurried exit. The next day and for many days thereafter organized exploring parties probed into the far reaches of the underground wonderland until they apparently had exhausted all possibility of further discovery.

Since Mercer Caverns has been under new management (Dec. 1946) many members, "Spelunkers", of the National Speleological Society and others have crawled into seemingly impassable passageways both in the caverns and on the surface and have discovered many new wonders. All indications point to the possibility that, in addition to the caverns recently found, the future will see Mercer Caverns several times larger than the public now sees it.

FEATURES. "Gothic Chamber". The public sees but a little over 200 feet of this first cavern. It is about 60 feet wide. Exploring parties have not exhausted the possibilities to the east where they have traveled from ⅛ to ¼ mile to find a series of spectacular rooms and passageways, or down what is called the bottomless pit, near the "Fairies' Grotto", where seemingly endless crystal ribbons over 4 feet wide were found. Some of the other features in this chamber are: the Prehistoric Lizard, Elephant's Foot, Seal's Head, Piano, Giant Shrimp, Twin Dwarfs, Miner's Blanket, Cathedral Chimes, Diamond Cascade, Indians on Mountain Trail, Cliff Dwellings, Calaveras Lily and the Chinese Meat Market. This last feature is very unique as you will see displayed in it all kinds of vegetable and animal produce such as pumpkins, squash, lobster claws, carrots, beets, onions, radishes, ducks, chickens, sausages, squid, noodles and hundreds of other strange and weird objects including part of a human skeleton (not real, just looks like it) encased in a large crystalline column festooned with miscellaneous and sundry produce. Here, your imagination can run wild.



For the many places and names of historical importance not shown in this general area please refer to any Oil Co. map and guide books.

Just before you leave this cavern you will see the Bee Hive, a large crystalline stalagmite about seven and one-half feet high, and estimated to be over 100,000 years in forming from calcium carbonate laden water dripping or running from smaller formations on the ceiling. (Stalactites form on the Ceiling and stalagmites on the Ground.)

Probably the most unusual and beautiful sight to be seen in the Cathedral Room, the name given to the west end of the Gothic Chamber, is the famous Angel's Wings, two delicate and near-transparent crystalline veil-like formations about ⅛-inch thick, 2½ feet wide and over 9 feet long hanging from the ceiling of the passageway leading to the Organ Loft.

The Organ Loft, so named from the many Organ Pipes extending up for over 20 feet above our heads, is a circular cavern about 35 feet high and 90 feet in circumference. In it are: Pharoah's Daughter, a life-size nude figure hanging by her heels, the Small Angel's Wings, a sparkling dazzle of white crystals, the Drunkard's Dream, Pig's Tail and others.

Thru a narrow passageway we enter the Bear's Den where the skeleton of an enormous prehistoric sloth-type bear was chiseled from the crystals encasing it. Three flights of steps takes us down to the Flower Garden past and under a highly ornamented open shaft about 15 feet wide and extending straight up to a small disappearing hole about 60 feet above our heads. In the Flower Garden is seen a very rare sight; about 100 square yards of a very rare and unusual frost or feathery-like white crystal called Aragonite, found in no other cave in the world in such an array. Many of the clusters have grown out from the walls and hang down from the ceiling in large and extremely delicate sprays.

Next is the Devil's Canyon, about 125 feet below the Cave Entrance where is seen the Devil's Cape and the old boy himself, the Floating Rock, Buffalo Robe and many other strange sights. There is so much of a delicate coral-like formation here that this room is sometimes called the Coral Room.

Returning to the Flower Garden we ascend to the Snow Bank, a great white drift, the famous Goose-that-laid-the-Golden-Egg, Frozen Water-Fall, Covered Wagon, Circus Parade and past a remarkable lace-like crystal five feet long, 2 feet wide and about as thick as a drop of water hanging from the ceiling. This is called Marie Antoinette's Veil. It is pure white and almost transparent.

Thru the Fat Man's Misery, which is guarded by a life-size fat gorilla, we enter the Dome, where is seen the Horn of Plenty, Opossum's Head, delicate Chimes in perfect tune, Cathedral Bells, Simon's Thumb, a very unusual growth, and a myriad of other objects of unbelievably true likeness. In this cavern will be seen many long and unusually clear wing-like ribbons suspended from the sloping ceiling.

From the Dome we pass thru Robbers' Den, a long and eerie passageway to the exit stairs (the only man-made part of the caverns) which rise about 25 feet to the Exit at the surface.

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

Days brought forward----------	7days
Clean out caved adit, timber and rehabilitate mine generally----------	5 "
Clean out and retimber shaft, install pump on adjoining property for drilling and camp water and pipe to mine----------	10 "
Cross-cut, sink and raise in existing steatite body to locate additional commertial ore----------	80 "
Diamond drill both claims to determine extent and quality of steatite body	20 "
Total days------	122
Less overlapping days-----	32 "
Total------	90 "
Plus 100% reserve days for contingencies----------	90 "
Grand total-----	180 "

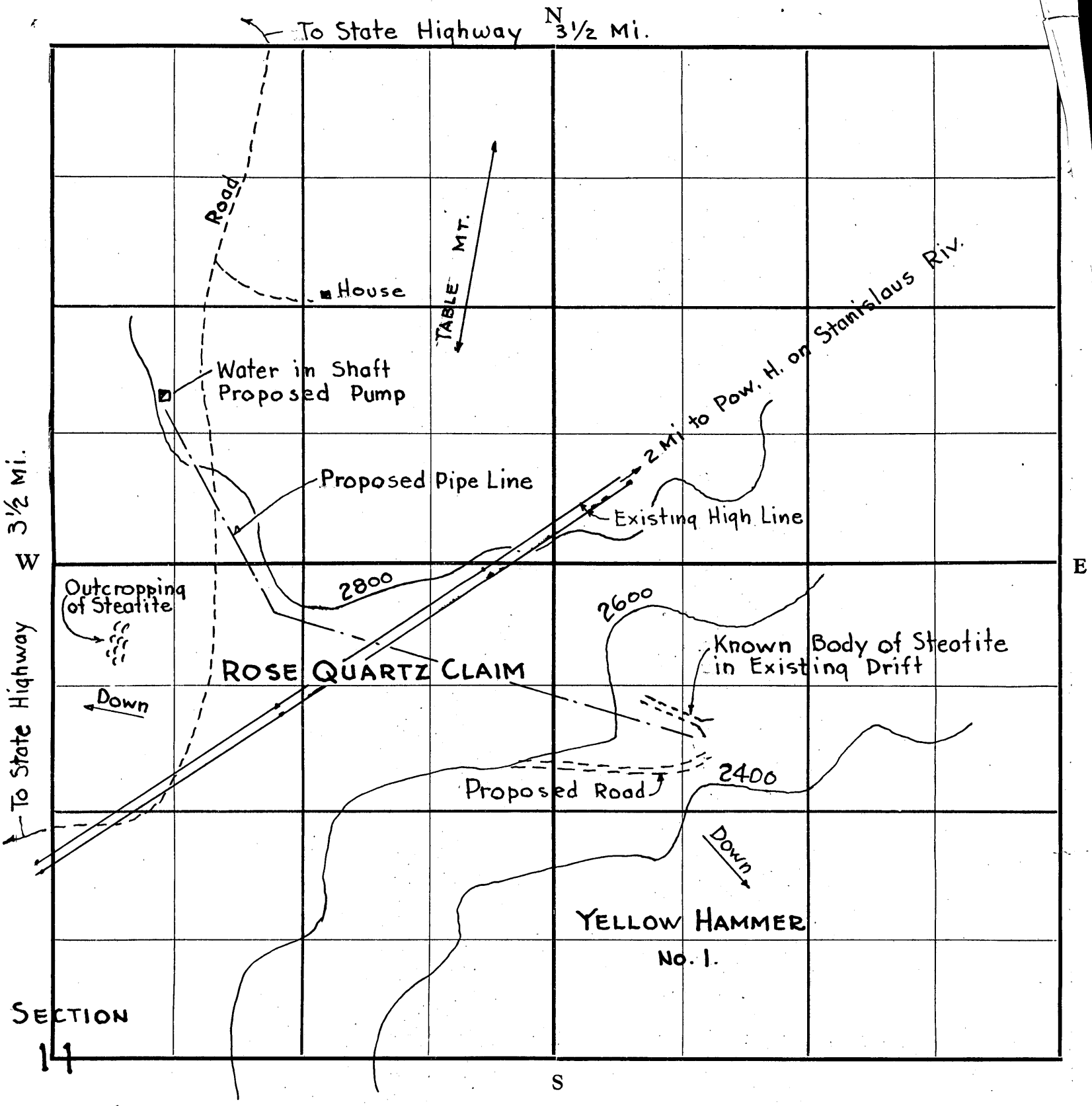
22 Data asked for not available at this time. The samples enclosed represent average run of mine. A better grade is found farthest from portal, said previous owner. Existing steatite body extends from portal, east side of Yellow Hammer No. 1, to 125 feet in drift. Height and length of ore body not known. Outcrop to west on Rose Quartz claim indicates that ore body is very extensive.

23 ESTIMATED COST OF PROJECT.

(a)	Labor: 3 miners @ $12 per day, 60 days----------	$ 2,160.00
	Diamond driller & helper @ $27, 30 das.	810.00
(b)	Supervisor: 1 general @ $14 per day, 90 das.--	1,260.00
(c)	None.	
(d)	Bunkhouse and cook shack---------- ----------	500.00
(e)	Water supply--gasoline pump, pipe and tank----	2,000.00
(f)	Diamond drill, etc. 30 days @ $20 per day------	600.00
	Bulldozer @ $100 per day, with operator, 5 das.	500.000
(g)	Air compressor, drills, tools, hose, etc. 90 das. @ $30.00 per day----------	2,700.00
(h)	Gasoline, estimate 2000 gals @ 24¢ per gal.	480.00
	Oil, powder, fuse and caps----------	580.00
	Rail and cars, fishplates, spikes, etc.--------	600.00
	Timber----------	300.00
	Small tools----------	100.00
	Miscellaneous supplies----------	150.00
(i)	Delco lighting plant----------	280.00
		$13,020.00

NOTE: In order to expedite the production of steatite the estimate of $13,020.00 for the project could be reduced to practically 25% of the above amount by opening the mine and prospecting only the existing known ore body. Production could be under way within 30 days.

Township 3 North. Range 14 East. M. D. B.



Remarks:

FILE COPY
SURNAME:

Barr
Moore
McKnight for Rose

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

June 19, 1951

Mailed 6/25/51

Mr. Sterling Carter
Mercer Caverns
Murphy, California

Subject: DMA-1501X
Talc (Steatite)

Dear Mr. Carter:

Your application is being referred to Mr. H.C. Miller, 1415 Appraisers Building, San Francisco, California, Executive Officer of the Field Team, Region III, for further information.

Sincerely yours,

Tom Lyon

Tom Lyon, Director
Supply Division

RW:mas

cc: Administrator's Reading File
Mr. Strobel
Field Team
Mr. Barr
DMA Files

Defense Stockpiling
JUL 30
Executive Sec

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-1501X - Talc - Carter Talc

Calaveras County, Calif.

W. T. Benson, Mining Engineer
U. S. Bureau of Mines

July 19, 1951

DOCKET DMA-1501X - Talc

UNITED STATES DEPARTMENT OF THE INTERIOR - BUREAU OF MINES

CARTER TALC
Calaveras County, Calif.

SUMMARY

The Carter talc occurrence is situated in eastern Calaveras County, Calif., about 4 miles east of the small settlement of Murphys and 32 miles southeast of Valley Springs, the shipping point on a branch line of the Southern Pacific Railroad.

Claim locations were first made about 1907 and the development work done on the property was in the search for placer gold which was supposed to exist in an ancient iron channel that is now covered by basalt.

The claims were acquired by Sterling Carter on a lease arrangement in the early part of 1951. There has been no recent work done on the property.

Rocks in the area comprise schists and slates which remain as roof pendants in granite. Near the crest of the ridge, these sediments are covered by a nearly horizontal flow of basalt which varies in thickness from 50 to 75 feet.

The adit parallels a fault in which the sediments are broken in a zone 10 to 12 feet wide. This zone is comprised of crushed schists and slates which on surface are heavily stained with iron oxides.

While the workings could not be entered, it is assumed from material on the dump, that the wall rocks adjacent to the fault are in places serpentinized and it is possible some short talcose sections exist especially along the fault trace where the movement is pronounced. The

absence of talc on the dump would indicate the claim by the applicant as to the amount of talc, is greatly exaggerated.

The talc material found is chiefly a talcose schist, which contains quartz inclusions and finely disseminated pyrite crystals. Because of these impurities, it is doubtful if any of the talc material is of steatite grade and suitable for electrical ceramic purposes.

Development openings on the property comprise an adit totaling in excess of 500 feet of work.

Because of water and the caved condition of the adit portal, the workings could not be entered for inspection and sampling purposes.

Since it was impossible to enter the mine, no estimate could be made of reserve tonnages. From the small amount of talcose material on the dump, it is almost certain, the occurrences in the mine are small.

The workings could be made accessible by a half days' work in removing the caved material at the portal of the adit. Unless this is done and the occurrences of talc verified, the request for funds should be disallowed. Under existing conditions, the request for a loan cannot be recommended by the Bureau of Mines, since the small amount of talc found in the dump material is not indicative enough to assure occurrences underground will be large enough to be economically mined, nor is the grade of the talc thus found sufficient to meet steatite specifications.

INTRODUCTION

At the request of H. C. Miller, Executive Officer, DMA Field Team, Region III, the Sterling Carter talc occurrence, Docket DMA-1501X in the vicinity of Murphys, Calif., was investigated by an engineer[1] of the Bureau of Mines, July 10, 1951, accompanied by the applicant.

Property holdings comprise two claims known as the Rose Quartz and Yellow Hammer, which are under lease to the applicant, Sterling Carter, Murphys Cavern, Murphys, Calif. They are situated in the Cellyer Mining District, sec. 11, T. 5 N., R. 14 E., Calaveras County, Calif., about 4 miles east of Murphys and 32 miles southeast of Valley Springs, the shipping point on a branch line of the Southern Pacific Railroad.

To reach the property from Murphys, the Cellyer and Table Mountain road is followed east through the Kenny and Reily ranches to the crest of Table Mountain, a distance of about 4 miles. A poor mountain road is then followed south one fourth mile to the Rose Quartz claim which is located on the crest of Table Mountain. The Hammer claim on which the talc was encountered is on the east slope of the hill and the adit is down the slope about 200 feet below the crest of the ridge.

HISTORY

The claims were first located about 1907, and most of the work until about 1917 was done in the search for placer gold which was supposed to exist in an extinct channel which is now covered by basalt. The work was done by a man named Hauslet, and while the channel was

1/ W. T. Benson.

encountered, the gold values found were too low to be profitable. The claims were acquired by Sterling Carter on a lease arrangement during the early part of 1951. There has been no recent work on the property.

PHYSICAL FEATURES

The claims are located on the crest and east side of Table Mountain in an area of moderately steep and rough topography at an altitude of about 2600 feet. Climate in the area is typical of the foothill country of the Sierra Nevada range with long, hot summers and moderate winters. Precipitation occurs usually as rain with occasional snows during the winter months. The annual average is about 50 inches. There are no springs within the area. For mining needs it is reported an ample supply can be obtained by pumping a shaft on the Taylor property, a short distance north of the Rose Quartz claim. Vegetation consists of small shrubs and a sparse stand of pine. The latter variety is not suitable for mining needs.

The high tension electric transmission line from the Stanislaus power plant of the P.G.&E. Co., 2 miles northeast, passes over the property, but it is certain this source could not be utilized on the property. For generation of power, it would be necessary to supply fuel oil in drums by truck from Angels Camp, 13 miles southwest.

HOUSING FACILITIES AND EQUIPMENT

No housing facilities or equipment is on the property.

GEOLOGY AND DESCRIPTION OF THE DEPOSIT

Rocks exposed in the vicinity of the mine comprise slates and schist which strike about northwest and dip 60° NE. Locally these

formations are complexly folded and broken by a fault near the adit portal which strikes about N. 60° W. and is nearly vertical. The crest of the ridge is covered by a nearly horizontal flow of basalt which varies from 50 to 75 feet in thickness. Near the base of the hill and about midway between the ridge and the Stanislaus river, granodiorite is exposed. It is possible the core of the range is granite and the sediments in the vicinity of the property remain as roof pendants.

The adit parallels a fault zone that strikes N. 60° W. and dips 60° NE. Where exposed in the portal excavation, the sediments are broken in a zone 10 to 12 feet wide. This zone is comprised of crushed and broken slates and schists which on surface are heavily stained with iron oxides.

While the adit could not be entered because of the caved condition of the portal and backed up water, it is assumed from material on the dump, that the wall rocks adjacent to the fault are in places serpentinized and it is possible some short talcose sections exist especially along the fault trace where the movement is pronounced.

It is reported the talcose section in the adit is about 125 feet in length, but from the absence of talc on the dump, it is assumed this statement is greatly exaggerated.

The talc material found on the dump is chiefly a talcose schist, which contains quartz inclusions, and in most pieces examined, finely disseminated pyrite crystals. Because of these impurities, it is doubtful if any of the material is of steatite grade and suitable for electric ceramic purposes.

No talcose areas were observed in surface outcrops.

DEVELOPMENT

Development on the property comprises an adit which bears N. 60° W. Originally this adit was extended under the lava cap in search of gold-bearing gravels. From the size of the dump, it is assumed this working probably totals better than 500 feet of work.

SAMPLING

Because of caved condition of the adit portal and water, the workings could not be entered for inspection and sampling purposes. For the purpose of observation, a few pieces of talcy material was secured from the dump. These pieces, because of deleterious inclusions are not suitable for ceramic purposes.

ORE RESERVES

Since the adit could not be entered, it was impossible to make an estimate of reserve tonnages. From the material on the dump, it is almost certain, the amount of talc or talcose material exposed in the mine workings is small.

PLAN OF OPERATION

No attempt has been made by the lessee to investigate the talc occurrences in the adit workings, and from his attitude and general conversation, no attempt will be made in the immediate future to determine the extent of the showings.

CONCLUSIONS

With a half days' work, the applicant could have made the workings accessible by removing the caved material at the adit portal. Unless this is done and the occurrences of talc verified, the request for

funds should be disallowed. Under existing conditions, the request for a loan cannot be recommended by the Bureau of Mines, since the small amount of talc found in the dump material is not indicative enough to assure occurrence underground will be large enough to be economically mined, nor is the grade of talc sufficient to meet steatite specifications.

3538

June 19, 1951

Mr. Sterling Carter
Mercer Caverns
Murphy, California

Subject: DMA-1501X

Dear Mr. Carter: Talc (Steatite)

Your application is being referred to Mr. H.C. Miller, 1415 Appraisers Building, San Francisco, California, Executive Officer of the Field Team, Region III, for further information.

Sincerely yours,

Tom Lyon, Director
Supply Division

RW:mas

cc: Administrator's Reading File
Mr. Strobel
Field Team
Mr. Barr
DMA Files

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

Mailed

JUN 25 1951

Mr. H.C. Miller
1415 Appraisers Building
San Francisco, California

Dear Sir:

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

Docket No. DMA-1501X

Commodity Talc(Steatite)

Applicant Mr. Sterling Carter Mercer Caverns, Murphys, California.

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

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

cc
Mr Barr

Sterling Carter
Mercer Caverns
Murphys, California

June 18, 1951

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

Dear Sirs;

Re: DMA-1501x

On May 31, 1951 I mailed Form MF-1o3 to you, applying for a project on a Talc (Steatite) mine. Under paragraph 7, "The Applicant" I placed the following; "Copy of lease to follow".

Enclosed herewith please find copy of the lease, in quadruplicate, referred to above.

Sincerely,

Sterling Carter

Sterling Carter

sc/m
enc. 4

OPTION AND AGREEMENT

In consideration of the sum of one dollar, to us in hand paid, we the undersigned optioners, will sell to Sterling Carter, our certain mining claims known as "Yellow Hammer No. 1" and "Rose Quartz" situate in Collyer (Or Collier) Mining District, County of Calaveras and State of California, for the sum of seven hundred and fifty dollars, payable as follows, to wit; Ten percent of all net smelter and/or mint receipts and/or all other gross receipts from sale of minerals, until the full amount is paid.

The period of this option is for three months from date.

Upon the payment of seventy five dollars by optionee to optioners we the optioners agree to extend this option and agreement for an additional three months.

Upon full payment of seven hundred and fifty dollars we will convey said mining claims to said optionee by a good and sufficient deed.

The right of entry and exclusive possession of said mining claims is hereby given to said optionee together with the right to extract ore therefrom, with the right to removal thereof for sale purposes only.

All work done upon said mining claims by said optionee shall be done in a minerlike manner and at the sole cost and expense of the optionee.

The optionee shall keep said premises free and clear of all costs, liens and encumberances done, made or suffered by him.

The optionee shall and will quietly and peacefully quit and surrender said premises upon the termination of this option and agreement from any legal cause.

Upon the failure to make any payments herein provided the optionee shall immediately cease and the payments therefore made by him shall immediately become the property of the optioners, and the optionee hereby waives all claim thereto.

The optionee shall have the privilege of full use of the water, except domestic water which the optioners may use, in the shaft on the adjoining George Taylor property.

The optionee shall have the privilege of making use of the George Taylor property immediately adjoining the herein mentioned mining claims, limited to about five hundred feet from the south boundry of the Taylor property, for the purpose of mine camp only.

In the event the George Taylor property is leased or sold the optionee will vacate the property within thirty days upon thirty days notice, in writing, by the leasee or owner of the property.

"Yellow Hammer No. 1" is recorded in Vol. 52 of Official Records, pages 390-391.

"Rose Quartz" is recorded in Vol. 22, Mining Claims, page 362.

All machinery and improvements placed upon said two mining claims and all water and camp facilities placed upon the adjoining Taylor property by the optionee may be removed by him within ninety days after the termination of this option and agreement.

Witness our hands this 16th day of June 1951.

Edward E. Stanley

Edward E. Stanley

Orpha E. Stanley

Orpha E. Stanley, his wife.

[illegible]

[illegible]

Dylan E. Hurley

DMA 1501 X

Sterling Carter
Mercer Caverns
Murphys, California

June 18, 1951

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

Dear Sirs; Re: DMA-1501x

On May 31, 1951 I mailed Form MF-1o3 to you, applying for a project on a Talc (Steatite) mine. Under paragraph 7, "The Applicant" I placed the following; "Copy of lease to follow".

Enclosed herewith please find copy of the lease, in quadruplicate, referred to above.

Sincerely,

Sterling Carter

Sterling Carter

sc/m
enc. 4

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 2 5 1951
LANDON F. STROBEL
Executive Secretary

OPTION AND AGREEMENT

In consideration of the sum of one dollar, to us in hand paid, we the undersigned optioners, will sell to Sterling Carter, our certain mining claims known as "Yellow Hammer No. 1" and "Rose Quartz" situate in Collyer (Or Collier) Mining District, County of Calaveras and State of California, for the sum of seven hundred and fifty dollars, payable as follows, to wit; Ten percent of all net smelter and/or mint receipts and/or all other gross receipts from sale of minerals, until the full amount is paid.

The period of this option is for three months from date.

Upon the payment of seventy five dollars by optionee to optioners we the optioners agree to extend this option and agreement for an additional three months.

Upon full payment of seven hundred and fifty dollars we will convey said mining claims to said optionee by a good and sufficient deed.

The right of entry and exclusive possession of said mining claims is hereby given to said optionee together with the right to extract ore therefrom, with the right to removal thereof for sale purposes only.

All work done upon said mining claims by said optionee shall be done in a minerlike manner and at the sole cost and expense of the optionee.

The optionee shall keep said premises free and clear of all costs, liens and encumberances done, made or suffered by him.

The optionee shall and will quietly and peacefully quit and surrender said premises upon the termination of this option and agreement from any legal cause.

Upon the failure to make any payments herein provided the optionee shall immediately cease and the payments therefore made by him shall immediately become the property of the optioners, and the optionee hereby waives all claim thereto.

The optionee shall have the privilege of full use of the water, except domestic water which the optioners may use, in the shaft on the adjoining George Taylor property.

The optionee shall have the privilege of making use of the George Taylor property immediately adjoining the herein mentioned mining claims, limited to about five hundred feet from the south boundry of the Taylor property, for the purpose of mine camp only.

In the event the George Taylor property is leased or sold the optionee will vacate the property within thirty days upon thirty days notice, in writing, by the leasee or owner of the property.

"Yellow Hammer No. 1" is recorded in Vol. 52 of Official Records, pages 390-391.

"Rose Quartz" is recorded in Vol. 22, Mining Claims, page 362.

All machinery and improvements placed upon said two mining claims and all water and camp facilities placed upon the adjoining Taylor property by the optionee may be removed by him within ninety days after the termination of this option and agreement.

Witness our hands this 16th day of June 1951.

Edward E. Stanley

Edward E. Stanley

Orpha E. Stanley

Orpha E. Stanley, his wife.

[illegible]

[illegible]

[illegible]

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

Q.E.C.

June 19, 1951

Mr. Sterling Carter
Mercer Caverns
Murphy, California

Subject: DMA-15011
Talc (Steatite)

Dear Mr. Carter:

Your application is being referred to Mr. H.C. Miller, 1415 Appraisers Building, San Francisco, California, Executive Officer of the Field Team, Region III, for further information.

Sincerely yours,

Tom Lyon, Director
Supply Division

HWimas

cc: Administrator's Reading File
Mr. Strobel
Field Team
Mr. Barr
DMA Files

June 11, 1951

Mr. Sterling Carter
Carter Caverns
Murphys, California

Subject: DMA-1501X
Re: Exploration Loan -
Yellow Jacket and Rose
Quartz Mines

My dear Mr. Carter:

Receipt is acknowledged of your application and attachments of May 30, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1501X and referred to Mr. James A. Barr, Chief, Industrial Minerals Branch, on June 6, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1501X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:hb

Copy to: Mr. Strobel
Mr. Lyon
Mr. Barr
Files

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-1501X

Date received 6/4/51

Participation

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

Name and address of applicant

Date May 30, 1951

FILL IN THIS BLOCK

Date of application ~~May 30, 1951~~

Estimated cost $13,020.00
See footnote, Page 4.

Mineral or metal ~~Talc(Steatite)~~

Percentage of Government participation 90%

Location of mine ~~Murphys, Calaveras County,~~ California

Date of filing MF-100

DMA Docket Number, if 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? Individual

*2. If a partnership, state names and addresses of partners. Inapplicable

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. Inapplicable

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See annex

*5. Are you the owner or the lessee of the property? Lessee

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. Inapplicable

7. If lessee, attach a copy of the lease and state if it is in good standing. Copy of lease to follow

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)? $5000.00. Yes.

*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. See annex

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. See annex

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. See annex

*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. See annex

*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. See annex

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. None

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

*16. History: See annex

(*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: None known

(*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.) See annex

(*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. None

THE EXPLORATION

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

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

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. See annex

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: See annex

(*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. 3 months $13,020.00

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.

(Name of company)

By Sterling Carter
(Signature of authorized official)

May 30, 1951
(Date)

Sterling Carter
(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

4-Mining and gen. business experience.

(a)Sterling Carter

1919-'23-4½ years University of California. Architecture, major; engineering, minor.

'24-'25-Paving contractor, Long Beach,California.

'25-'28-Owner and manager of Book Store, San Francisco.

'28-'31-Partner high quality wrought metal business, Santa Cruz, California.

'31-'32-Architectural draftsman with Arthur Brown, architect, San Francisco.

'32-'33-Invented, made and sold various articles.

'33-'37-Architectural draftsman,San Francisco.

'37-'38-Director California Engles Mining Company and Indian Valley Railroad.

'37-'38-Architectural field adviser Portland Cement Association, San Francisco.

'38-'41-Architectural draftsman, San Francisco.

'41-'46-Mechanical engineer Bechtel Corporation, San Francisco.

1946-Three months prospecting gold mine, Trinity county, California.

1946 to present-Managing owner Mercer Caverns, Murphys, California.

1947-Dewatered and prospected gold mine near West Point, California. At present am dewatering and prospecting a gold mine I own near Murphys.

(b)I plan to manage the project.

8-FINANCIAL STATEMENT:

A S S E T S

Mercer Caverns(clear of debt)estimate---------	$ 100,000.00
Four gold mines, undeveloped----------	1.00
Securities, value at least----------	5,000.00
Amount forward---	$ 105,001.00

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

Amount brought forward----------	$ 105,000.00
Cash on hand, in bank, at least----------	2,000.00
Autos, trucks and mining equipment, estimate-	5,000.00
	$ 112,001.00

LIABILITIES

None, except current monthly bills.

PROFIT AND LOSS STATEMENT

None.

10 (a) The two claims involved are at Table Mountain, about four miles east from Murphys, California; Pacific Gas & Electric Company's highline passes over the property. Ample year around water supply on adjoining property. Have permission to use.

(b) LEGAL DESCRIPTIONS: Rose Quartz Claim. Said Claim is situated the Collyer Mining District, County of Calaveras, State of California, to-wit: Point of discovery is 250 feet East and 300 feet South from the South-west corner of the George Taylor property boundary as to-wit: 250 feet West to South-east quarter of Chester Riley property; thence 300 feet North to the South-west corner of the George Taylor property. Thence 1450 feet to the North-west corner of the Yellow Hammer No. 1 Mining Claim. Thence 600 feet South. Thence 1450 feet West. Thence 300 feet North to the center of West boundary.

Recorded March 22, 1949, in Vol. 22 of Mining Claims, Page 362, Calaveras County Records.

YELLOW HAMMER No.1. Situate in the Collyer Mining District, County of Calaveras, State of California, and bounded and particularly described as follows, to-wit: Beginning at the point of discovery, whence a tunnel of the old Lava Cap Mine bears westerly 25 feet; thence northerly along the vein 450 feet and thence southerly along the vein 1050 feet, together with 300 feet on either side of the vein, which tract contains 20.6 acres, and which location was made on Feb. 14, 1942, and the notice thereof recorded on Page 490 in Vol. 19 of Mining Locations, Records of Calaveras County.

Recorded March 24, 1949, Vol. 52 of official records, Pages 390-391, Calaveras County Records.

Both areas, (a) and (b), are the same.

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

11

PRESENT NAMES	FORMER NAMES
Yellow Hammer	Yellow Hammer
Rose Quartz	Blue Jay

12 Property is located about 4 miles east of Murphys, Calaveras County, California, and 22 miles east from railroad siding of the Southern Pacific R.R. at the Calaveras Portland Cement plant at San Andreas, and 32 miles east of the railroad siding at Valley Springs.

All but about 3½ miles of road to the above sidings is state highway. The 3½ miles is a graded dirt road. An alternate road, the Ponderosa road, could be used. The haul on both roads is down hill.

13 Ample all year water is available in mine shaft about 1500 feet from mine. Pacific Gas & Electric Co's highline, from power house, two miles away, crosses over property.

15 Ore could be trucked to two R.R. sidings mentioned in (12), or mill could be built at mine, depending upon how steatite is desired. Large blocks of steatite could be mined as present drift extends for 125 feet through solid steatite.

16 HISTORY. (a)Tunnel was run originally under lava cap in search of gold-bearing gravel. No known commercial production of steatite. Operations suspended as gold not found in sufficient quantity.

(b) No other adjoining neighborhood properties worked for steatite, but steatite known to exist generally in area.

(c) None.

18 ORE OR MINERAL RESERVES.

(a) Massive steatite in Yellow Hammer No. 1 tunnel. Outcropping of steatite at west side of Rose Quartz claim.

(b) Map enclosed. Samples of steatite enclosed.

(c) Estimated tonnage of steatite in Yellow Hammer No. 1 claim(by previous owner) from 140,000 to 400,000 tons.

20 For steatite and possible other valuable minerals in excessive black sands encountered at back of mine in gravel bed.

21 PROPOSED WORK.

Build temporary camp at mine. Time----------2 days
Bulldoze road down to mine. " ----------5 days

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

Days brought forward----------	7days
Clean out caved adit, timber and rehabilitate mine generally----------	5 "
Clean out and retimber shaft, install pump on adjoining property for drilling and camp water and pipe to mine----------	10 "
Cross-cut, sink and raise in existing steatite body to locate additional commercial ore----------	80 "
Diamond drill both claims to determine extent and quality of steatite body	20 "
Total days------	122
Less overlapping days-----	32 "
Total------	90 "
Plus 100% reserve days for contingencies----------	90 "
Grand total-----	180 "

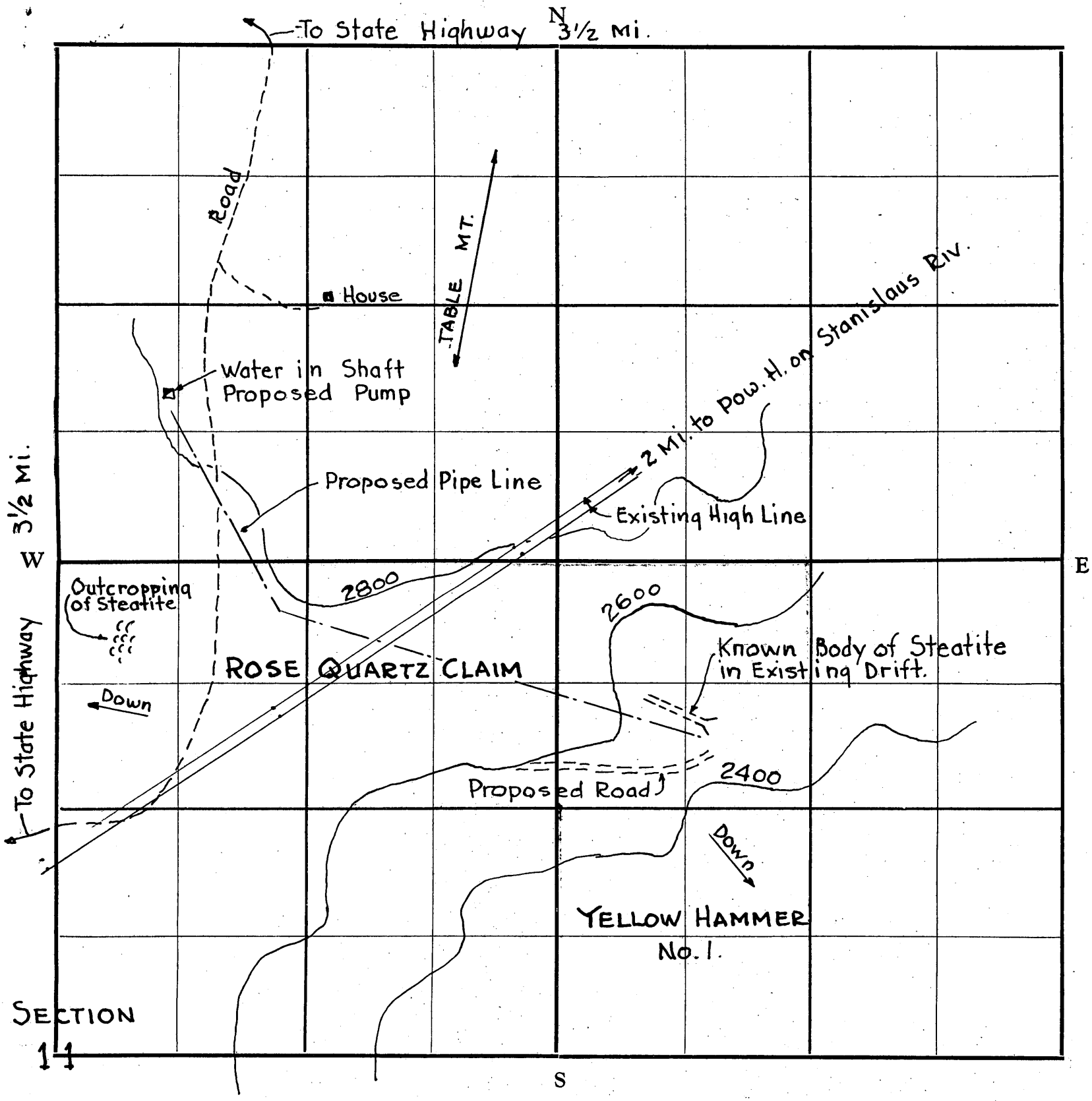
22 Data asked for not available at this time. The samples enclosed represent average run of mine. A better grade is found farthest from portal, said previous owner. Existing steatite body extends from portal, east side of Yellow Hammer No. 1, to 125 feet in drift. Height and length of ore body not known. Outcrop to west on Rose Quartz claim indicates that ore body is very extensive.

23 ESTIMATED COST OF PROJECT.

(a)	Labor: 3 miners @ $12 per day, 60 days----------	$ 2,160.00
	Diamond driller & helper @ $27, 30 das.	810.00
(b)	Supervisor: 1 general @ $14 per day, 90 das.--	1,260.00
(c)	None.	
(d)	Bunkhouse and cook shack----------	500.00
(e)	Water supply--gasoline pump, pipe and tank----	2,000.00
(f)	Diamond drill, etc. 30 days @ $20 per day------	600.00
	Bulldozer @ $100 per day, with operator, 5 das.	500.000
(g)	Air compressor, drills, tools, hose, etc. 90 das. @ $30.00 per day----------	2,700.00
(h)	Gasoline, estimate 2000 gals @ 24¢ per gal.	480.00
	Oil, powder, fuse and caps----------	580.00
	Rail and cars, fishplates, spikes, etc.--------	600.00
	Timber----------	300.00
	Small tools----------	100.00
	Miscellaneous supplies----------	150.00
(i)	Delco lighting plant----------	280.00
		$13,020.00

NOTE: In order to expedite the production of steatite the estimate of $13,020.00 for the project could be reduced to practically 25% of the above amount by opening the mine and prospecting only the existing known ore body. Production could be under way within 30 days.

Township 3 North. Range 14 East. M. D. B. M.



Remarks:

Sterling Carter
Mercer Caverns
Murphys, California

June 18, 1951

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

Dear Sirs; Re: DMA-1501x

On May 31, 1951 I mailed Form MF-1o3 to you, applying for a project on a Talc (Steatite) mine. Under paragraph 7, "The Applicant" I placed the following; "Copy of lease to follow".

Enclosed herewith please find copy of the lease, in quadruplicate, referred to above.

Sincerely,

Sterling Carter

Sterling Carter

sc/m
enc. 4

OPTION AND AGREEMENT

In consideration of the sum of one dollar, to us in hand paid, we the undersigned optioners, will sell to Sterling Carter, our certain mining claims known as "Yellow Hammer No. 1" and "Rose Quartz" situate in Collyer (Or Collier) Mining District, County of Calaveras and State of California, for the sum of seven hundred and fifty dollars, payable as follows, to wit; Ten percent of all net smelter and/or mint receipts and/or all other gross receipts from sale of minerals, until the full amount is paid.

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Witness our hands this 16th day of June 1951.

Edward E. Stanley

Edward E. Stanley

Orpha E. Stanley

Orpha E. Stanley, his wife.

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Murphys, California

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Department of the Interior
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Edward E. Stanley

Edward E. Stanley

Orpha E. Stanley

Orpha E. Stanley, his wife.

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-1501X

Commodity Talc (Steatite)

Total Amount $13,020.00

Govt. Participation 90%

1. Name and Address of Applicant Sterling Carter
Mercer Caverns, Murphys, California.

2. Location of Property 4 mi. east of Murphys, Calaveras County, California

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

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 U.S.B.M. should check and see if
b) Poor samples of talc are of strategic quality.
c) None Work largely development - change application
d) Don't know—needs field examination Yes. Field - JAR 6/15/51
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? No

Does the lease have sufficient time to run to cover a future productive period? not Known

*question numbers are those of MF-103

Question (4)

DMA- 1501X, Sterling Carter, Mercer Coverns, Murphys, Calif.

For Talc (steatite)

The Geological Survey has no file data on the above property.

The applicant's description of the deposit is very poor. The attached samples appear to be talc, but the grade (quality) of the talc should be determined by the U.S.B.M.

For lack of qualified information about the geology of the deposit, the application should be referred to the field team.

J.A. Redden 6/15/5,

7. Are subordination agreements necessary? Yes

a) MF-201? not attached

b) MF-202 not attached

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
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Probably OK.

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)* No.

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? Yes

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Type of work OK - application development rather than exploration

If not, what part of it is? _____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? —

f) Should more information be requested from applicant?_____

g) Is a field examination necessary to complete Exhibit A?_____

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? No If so, attach a draft.

c) Is a field check needed? Yes - if visited by field team

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

a) Is it applicable? Yes

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? questionable

d) Is a field check needed? Yes

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

a) Are there sufficient data? No

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

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

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? Yes

b) Sufficient data? Yes

c) Reasonable? —

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? No list of work to be done. Rehabilitation + placing in production can be done in time indicated

(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? Largely on question of whether the stratite can be produced in sizes to be strategic

Reviewed by: [illegible]
BLM

Date 6/15/51

97692

6/11/51 Doc. HNo- DMA-1501X

Sect 10 Exhibit "A"

The project calls for the erection of a bunkhouse + cook house, the installation of a water supply + the rehabilitation of a tunnel in which steatite is said to have been found. The work proposed is largely the extension of limits of the ore body + its preparation for production. The diamond drilling is not sufficiently described as to location, geological conditions etc.

The note on page 4, where it is stated that production could be secured with a smaller outlay indicates the thinking of the applicant.

Sect. 11. Exhibit B.

For a strictly exploration project, 4 miles from town, a bunkhouse a cook house would not be necessary.

Sect. 12 Exhibit "C"

The equipment listed here does not appear necessary for an exploration project. The water system would be needed for a permanent camp; the amount of work to be done by the diamond drill a bulldozer is not mentioned, the rental of compressor, drills etc would need a check of its condition etc. before deciding the rental rate

Sect. 16 Recommendation.

The suitability of the material for strategic purposes is doubtful, from a quality + size standpoint. Tests on the first can be made by the laboratory of Emergency Procurement Services at 7th & D Sts SW. in Washington but the procurement of proper sizes is a field team problem. The application should go to the field team which can submit samples of proper size for testing. Send the attached specifications to the field also.

Pmc

FILE COPY
SURNAME:

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

June 11, 1951

Mr. Sterling Carter
Mercer Caverns
Murphys, California

Subject: DMA-1501X
Re: Exploration Loan -
Yellow Hammer and Rose
Quartz Mines | Mine

My dear Mr. Carter:

Receipt is acknowledged of your application and attachments of May 30, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1501X and referred to Mr. James A. Barr, Chief, Industrial Minerals Branch, on June 6, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1501X.

Sincerely yours,

LANDON F. STROBEL
LFS

Landon F. Strobel
Executive Secretary

LFSTROBEL:hb

Copy to: Mr. Strobel
Mr. Lyon
Mr. Barr
Files ✓

DMA-1501

June 11, 1951

Mr. Sterling Carter
Mercer Caverns
Murphys, California

Subject: DMA-1501X
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Hollow Mermar and Rose
Quartz Mines

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The application was assigned Docket Number DMA-1501X and referred to Mr. James A. Barr, Chief, Industrial Minerals Branch, on June 6, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1501X.

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LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:hb

Copy to: Mr. Strobel
Mr. Lyon
Mr. Barr ✓
Files

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-1501X

Date received 6/4/51

Participation

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

Name and address of applicant

Date May 30, 1951

FILL IN THIS BLOCK

Date of application May 30, 1951

Estimated cost $13,020.00 See footnote, Page 4.

Mineral or metal Talc(Steatite)

Percentage of Government participation 90%

Location of mine Murphys, Calaveras County, California.

Date of filing MF-100

DMA Docket Number, if 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? Individual

*2. If a partnership, state names and addresses of partners. Inapplicable

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. Inapplicable

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See annex

*5. Are you the owner or the lessee of the property? Lessee

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. Inapplicable

7. If lessee, attach a copy of the lease and state if it is in good standing. Copy of lease to follow

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. See annex

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)? $5000.00 Yes.

*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. See annex

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. See annex

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. See annex

*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. See annex

*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. See Annex

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. None

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

*16. History: ✓ See annex

(*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: None known

(*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.) See annex

(*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. ✓ None

THE EXPLORATION

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

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

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. See annex

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: See annex

(*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. 3 months $13,020.00

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.

(Name of company)

May 30, 1951.
(Date)

By Sterling Carter
(Signature of authorized official)
Sterling Carter

(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

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

4-Mining and gen. business experience.

(a)Sterling Carter

1918-'22-4½ years University of California. Architecture, major; engineering, minor.

'24-'26-Paving contractor, Long Beach, California.

'26-'28-Owner and manager of Book Store, San Francisco.

'28-'31-Partner high quality wrought metal business, Santa Cruz, California.

'31-'32-Architectural draftsman with Arthur Brown, architect, San Francisco.

'32-'33-Invented, made and sold various articles.

'33-'37-Architectural draftsman, San Francisco.

'37-'38-Director California Ingles Mining Company and Indian Valley Railroad.

'37-'38-Architectural field adviser Portland Cement Association, San Francisco.

'38-'41-Architectural draftsman, San Francisco.

'41-'46-Mechanical engineer Bechtel Corporation, San Francisco.

1946-Three months prospecting gold mine, Trinity county, California.

1946 to present-Managing owner Mercer Caverns, Murphys, California.

1947-Dewatered and prospected gold mine near West Point, California. At present am dewatering and prospecting a gold mine I own near Murphys.

(b)I plan to manage the project.

8-FINANCIAL STATEMENT:

A S S E T S

Mercer Caverns(clear of debt)estimate----------	$ 100,000.00
Four gold mines, undeveloped----------	1.00
Securities, value at least----------	5,000.00
Amount forward---	$ 105,001.0

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

Amount brought forward----------	$ 105,000.00
Cash on hand, in bank, at least----------	2,000.00
Autos, trucks and mining equipment, estimate-	5,000.00
	$ 112,001.00

LIABILITIES

None, except current monthly bills.

PROFIT AND LOSS STATEMENT

None.

10 (a) The two claims involved are at Table Mountain, about four miles east from Murphys, California; Pacific Gas & Electric Company's highline passes over the property. Ample year around water supply on adjoining property. Have permission to use.

(b) LEGAL DESCRIPTIONS: Rose Quartz Claim. Said Claim is situated the Collyer Mining District, County of Calaveras, State of California, to-wit: Point of discovery is 880 feet East and 300 feet South from the South-west corner of the George Taylor property boundary as to-wit: 880 feet West to South-east quarter of Chester Riley property; thence 800 feet North to the South-west corner of the George Taylor property. Thence 1480 feet to the North-west corner of the Yellow Hammer No. 1 Mining Claim. Thence 600 feet South. Thence 1480 feet West. Thence 800 feet North to the center of West boundary.

Recorded March 22, 1949, in Vol. 12 of Mining Claims, Page 362, Calaveras County Records.

YELLOW HAMMER No.1. Situate in the Collyer Mining District, County of Calaveras, State of California, and bounded and particularly described as follows, to-wit: Beginning at the point of discovery, whence a tunnel of the old Lava Cap Mine bears westerly 75 feet; thence northerly along the vein 410 feet and thence southerly along the vein 1080 feet, together with 300 feet on either side of the vein, which tract contains 20.6 acres, and which location was made on Feb. 14, 1942, and the notice thereof recorded on Page 480 in Vol. 10 of Mining Locations, Records of Calaveras County.

Recorded March 24, 1949, Vol. 8 of official records, Pages 390-391, Calaveras County Records.

Both areas, (a) and (b), are the same.

STIRLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

11 PRESENT NAMES — FORMER NAMES

PRESENT NAMES	FORMER NAMES
Yellow Hammer	Yellow Hammer
Rose Quartz	Blue Jay

12 Property is located about 4 miles east of Murphys, Calaveras County, California, and 5½ miles east from railroad siding of the Southern Pacific R.R. at the Calaveras Portland Cement plant at San Andreas, and 8½ miles east of the railroad siding at Valley Springs.

All but about 3½ miles of road to the above sidings is state highway. The 3½ miles is a graded dirt road. An alternate road, the Ponderosa road, could be used. The haul on both roads is down hill.

13 Ample all year water is available in mine shaft about 1500 feet from mine. Pacific Gas & Electric Co's highline, from power house, two miles away, crosses over property.

15 Ore could be trucked to two R.R. sidings mentioned in (12), or mill could be built at mine, depending upon how steatite is desired. Large blocks of steatite could be mined as present drift extends for 150 feet through solid steatite.

16 HISTORY. (a) Tunnel was run originally under lava cap in search of gold-bearing gravel. No known commercial production of steatite. Operations suspended as gold not found in sufficient quantity.

(b) No other adjoining neighborhood properties worked for steatite, but steatite known to exist generally in area.

(c) None.

18 ORE OR MINERAL RESERVES.

(a) Massive steatite in Yellow Hammer No. 1 tunnel. Outcropping of steatite at west side of Rose Quartz claim.

(b) Map enclosed. Samples of steatite enclosed.

(c) Estimated tonnage of steatite in Yellow Hammer No. 1 claim (by previous owner) from 140,000 to 400,000 tons.

20 For steatite and possible other valuable minerals in excessive black sands encountered at back of mine in gravel bed.

21 PROPOSED WORK.

Build temporary camp at mine. Time----------5 days
Bulldoze road down to mine. " ----------8 days

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

Days brought forward----------	7days
Clean out caved adit, timber and rehabilitate mine generally----------	5 "
Clean out and retimber shaft, install pump on adjoining property for drilling and camp water and pipe to mine----------	10 "
Cross-cut, sink and raise in existing steatite body to locate additional commercial ore----------	80 "
Diamond drill both claims to determine extent and quality of steatite body	20 "
Total days------	122
Less overlapping days-----	32 "
Total------	90 "
Plus 100% reserve days for contingencies----------	90 "
Grand total-----	180 "

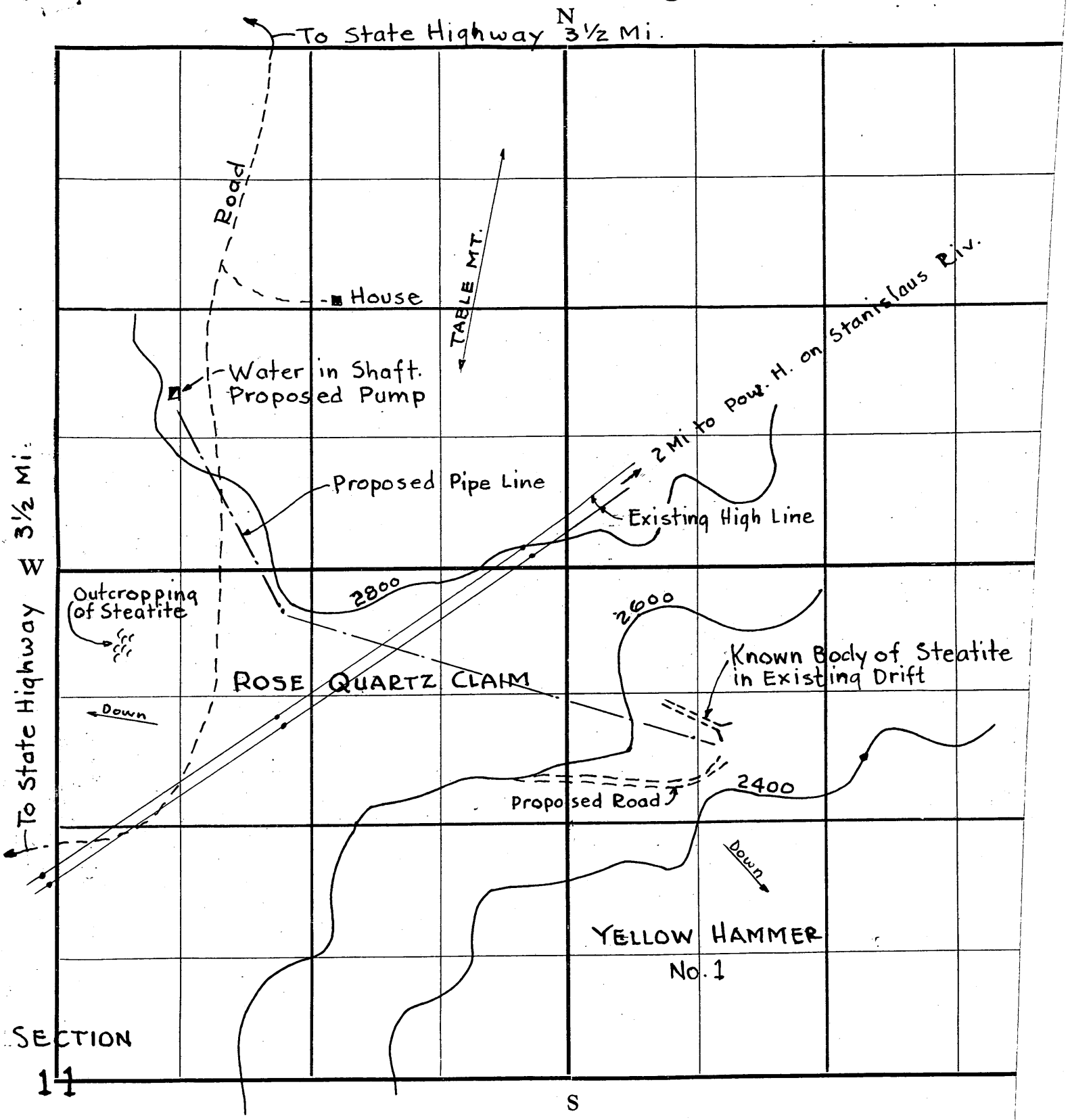
22 Data asked for not available at this time. The samples enclosed represent average run of mine. A better grade is found farthest from portal, said previous owner. Existing steatite body extends from portal, east side of Yellow Hammer No. 1, to 125 feet in drift. Height and length of ore body not known. Outcrop to west on Rose Quartz claim indicates that ore body is very extensive.

23 ESTIMATED COST OF PROJECT.

(a)	Labor: 3 miners @ $12 per day, 60 days----------	$ 2,160.00
	Diamond driller & helper @ $17, 30 days.	810.00
(b)	Supervisor: 1 general @ $14 per day, 90 days.--	1,260.00
(c)	None.	
(d)	Bunkhouse and cook shack----------	500.00
(e)	Water supply--gasoline pump, pipe and tank----	2,000.00
(f)	Diamond drill, etc. 30 days @ $20 per day------	600.00
	Bulldozer @ $100 per day, with operator, 5 days.	500.000
(g)	Air compressor, drills, tools, hose, etc. 90 days. @ $30.00 per day----------	2,700.00
(h)	Gasoline, estimate 2000 gals @ 24¢ per gal.	480.00
	Oil, powder, fuse and caps----------	580.00
	Rail and cars, fishplates, spikes, etc.--------	600.00
	Timber----------	300.00
	Small tools----------	100.00
	Miscellaneous supplies----------	150.00
(i)	Delco lighting plant----------	180.00
		$13,020.00

NOTE: In order to expedite the production of steatite the estimate of $13,020.00 for the project could be reduced to practically 25% of the above amount by opening the mine and prospecting only the existing known ore body. Production could be under way within 30 days.

Township 3 North. Range 14 East. M. D. B. M.



Remarks:

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-1501X

Date received 6/4/51

Participation

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

Name and address of applicant

Date May 30, 1951

FILL IN THIS BLOCK

Date of application May 30, 1951

Estimated cost $13,020.00 See footnote, Page 4.

Mineral or metal Talc(Steatite)

Percentage of Government participation 90%

Location of mine Murphys, Calaveras County, California

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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16—64067-1

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(Name of company)	By Sterling Carter (Signature of authorized official)
May 30, 1951 (Date)	Sterling Carter (Title)

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*Same as footnote on page 1.

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

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(a)Sterling Carter

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'25-'28-Owner and manager of Book Store, San Francisco.

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STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

Amount brought forward----------	$ 105,000.00
Cash on hand, in bank, at least----------	2,000.00
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Recorded March 22, 1949, in Vol. 22 of Mining Claims, Page 362, Calaveras County Records.

YELLOW HAMMER No.1. Situate in the Collyer Mining District, County of Calaveras, State of California, and bounded and particularly described as follows, to-wit: Beginning at the point of discovery, whence a tunnel of the old Lava Cap Mine bears westerly 25 feet; thence northerly along the vein 450 feet and thence southerly along the vein 1050 feet, together with 300 feet on either side of the vein, which tract contains 20.6 acres, and which location was made on Feb. 14, 1942, and the notice thereof recorded on Page 490 in Vol. 19 of Mining Locations, Records of Calaveras County.

Recorded March 24, 1949, Vol. 52 of official records, Pages 390-391, Calaveras County Records.

Both areas, (a) and (b), are the same.

STERLING CARTER
MERCER CAVERNS
MURPHYS, CALIFORNIA

11

PRESENT NAMES	FORMER NAMES
Yellow Hammer	Yellow Hammer
Rose Quartz	Blue Jay

12 Property is located about 4 miles east of Murphys, Calaveras County, California, and 22 miles east from railroad siding of the Southern Pacific R.R. at the Calaveras Portland Cement plant at San Andreas, and 32 miles east of the railroad siding at Valley Springs.

All but about 3½ miles of road to the above sidings is state highway. The 3½ miles is a graded dirt road. An alternate road, the Ponderosa road, could be used. The haul on both roads is down hill.

13 Ample all year water is available in mine shaft about 1500 feet from mine. Pacific Gas & Electric Co's highline, from power house, two miles away, crosses over property.

15 Ore could be trucked to two R.R. sidings mentioned in (12), or mill could be built at mine, depending upon how steatite is desired. Large blocks of steatite could be mined as present drift extends for 125 feet through solid steatite.

16 HISTORY. (a) Tunnel was run originally under lava cap in search of gold-bearing gravel. No known commercial production of steatite. Operations suspended as gold not found in sufficient quantity.

(b) No other adjoining neighborhood properties worked for steatite, but steatite known to exist generally in area.

(c) None.

18 ORE OR MINERAL RESERVES.

(a) Massive steatite in Yellow Hammer No. 1 tunnel. Outcropping of steatite at west side of Rose Quartz claim.

(b) Map enclosed. Samples of steatite enclosed.

(c) Estimated tonnage of steatite in Yellow Hammer No. 1 claim (by previous owner) from 140,000 to 400,000 tons.

20 For steatite and possible other valuable minerals in excessive black sands encountered at back of mine in gravel bed.

21 PROPOSED WORK.

Build temporary camp at mine. Time----------2 days
Bulldoze road down to mine. " ----------5 days

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Days brought forward----------	7days
Clean out caved adit, timber and rehabilitate mine generally----------	5 "
Clean out and retimber shaft, install pump on adjoining property for drilling and camp water and pipe to mine----------	10 "
Cross-cut, sink and raise in existing steatite body to locate additional commercial ore----------	80 "
Diamond drill both claims to determine extent and quality of steatite body	20 "
Total days------	122
Less overlapping days-----	32 "
Total------	90 "
Plus 100% reserve days for contingencies----------	90 "
Grand total-----	180 "

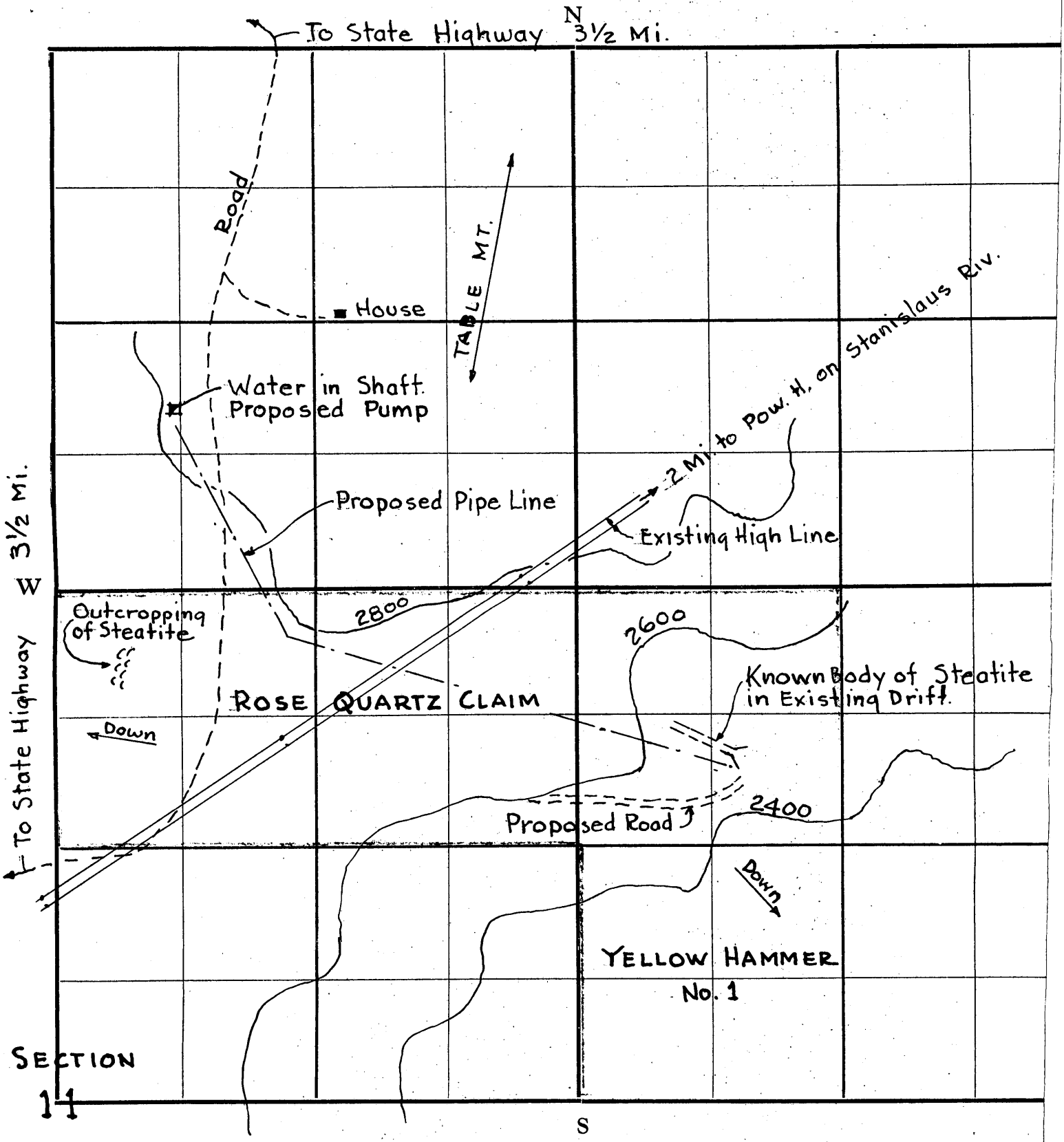
22 Data asked for not available at this time. The samples enclosed represent average run of mine. A better grade is found farthest from portal, said previous owner. Existing steatite body extends from portal, east side of Yellow Hammer No. 1, to 125 feet in drift. Height and length of ore body not known. Outcrop to west on Rose Quartz claim indicates that ore body is very extensive.

23 ESTIMATED COST OF PROJECT.

(a)	Labor: 3 miners @ $12 per day, 60 days----------	$ 2,160.00
	Diamond driller & helper @ $27, 30 das.	810.00
(b)	Supervisor: 1 general @ $14 per day, 90 das.--	1,260.00
(c)	None.	
(d)	Bunkhouse and cook shack----------	500.00
(e)	Water supply--gasoline pump, pipe and tank----	2,000.00
(f)	Diamond drill, etc. 30 days @ $20 per day------	600.00
	Bulldozer @ $100 per day, with operator, 5 das.	500.000
(g)	Air compressor, drills, tools, hose, etc. 90 das. @ $30.00 per day----------	2,700.00
(h)	Gasoline, estimate 2000 gals @ 24¢ per gal.	480.00
	Oil, powder, fuse and caps----------	580.00
	Rail and cars, fishplates, spikes, etc.--------	600.00
	Timber----------	300.00
	Small tools----------	100.00
	Miscellaneous supplies----------	150.00
(i)	Delco lighting plant----------	280.00
		$13,020.00

NOTE: In order to expedite the production of steatite the estimate of $13,020.00 for the project could be reduced to practically 25% of the above amount by opening the mine and prospecting only the existing known ore body. Production could be under way within 30 days.

Township 3 North. Range 14 East. M. D. B.



Remarks: