FILE COPY
SURNAME:

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

June 18, 1951

Mr. Leroy A. Wilson
Box 14
Vays, Utah

Subject: DMA-1233X
Re: Exploration Loan
Pine Canyon Mine

My dear Mr. Wilson:

Receipt is acknowledged of your application and attachments of May 21, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1233X and referred to Mr. J. A. Barr, Chief, Industrial Minerals Branch, on May 24, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1233X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:hb

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

Mr. Bar

Mr. Lyon advises that the docket must accompany this denial, before going to Strobel.

OMA-1233-CORUNDUM

July 2,1951.

Dear Sir:

Yours June 15 and 26 reached me together. I understand Jack East from your Denver Office will contact us.

Please send me copies of the reports from U/S.Bur.Mines and U.S. Geol.Sur. you replied on for your finding regarding corundum in Pine Canyon. If they say what you state they do they are absurd. At this place there are massive emery deposits several feet thick at least and also very heavy corundum masses. The ~~emery~~ corundum assays 70% Al_2O_3.

Very truly,

Leroy A. Wilson.

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

A. E. C.

June 15, 1951

Memorandum

To: Executive Secretary, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1233X, Leroy A. Wilson
Corundum and Kyanite

It is recommended subject application be denied because:

1. U. S. Bureau of Mines examination and studies by U. S. Geological Survey indicate that the possibility of developing corundum and strategic grade kyanite in the deposit are practically nil.

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.

June 15, 1951

L T Strobel

Memorandum

To: Executive Secretary, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1233X, Leroy A. Wilson
Corundum and Kyanite

It is recommended subject application be denied because:

1. U. S. Bureau of Mines examination and studies by U. S. Geological Survey indicate that the possibility of developing corundum and strategic grade kyanite in the deposit are practically nil.

James Barr
M. P.
James A. Barr, Sr.

Approved:

Tom Lyon
Tom Lyon, Director
Supply Division

JABARR:mp
cc: Mr. Strobel
Mr. Barr
DMA Files
Mr. Lyon

FILE COPY
SURNAME:

Barr

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

June 15, 1951

Mr. Leroy A. Wilson
Box 14
Vaya, Utah

Dear Mr. Wilson:

Subject: Docket DMA-1233X
Corundum & Kyanite

Your application for aid for an exploration project on Corundum and kyanite deposit in Pine Canyon, Marysville District, Utah, 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 that will significantly improve mineral supply positions for National Defense.

A very careful study of your proposal revealed the following:

1. The deposit has been studied by U. S. Bureau of Mines and U. S. Geological Survey experts. Their findings indicate that the corundum occurs as a filling of minute crystals in a breccia zone at the contact of possible monzonite and altered latite. Since the extent is quite limited and the filling appears to contribute less than 10% of the breccia zone, the deposit is considered to be too small and spotty to be of value for corundum mining.

2. Possibilities for strategic kyanite appear even less favorable. Kyanite has not been positively identified in the deposit and even if present, would not necessarily be of strategic quality. There is moreover sound geologic reason for doubting the presence of kyanite in this deposit since the country rocks or unmetormorphosed igneous rocks whereas strategic grade kyanite is known to occur only in rather highly metamorphosed rocks.

Under the circumstances, your application for exploration aid to the extent of 90% of $15,000 is denied. Should additional information become available, we would be glad to have you resubmit your proposal for consideration.

Sincerely yours,

Tom Lyon

Tom Lyon, Director
Supply Division

JABARR:mp
cc: Mr. Strobel
Mr. Barr
DMA Files

258

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA - 1233 X

Commodity Corundum & Kyanite

Total Amount $15,000

Govt. Participation 90%

1. Name and Address of Applicant Lercy A. Wilson
Box 14, Veyo, Utah

2. Location of Property Sec 22, T.28S R.2 W, S.L. B & Mer. in Fine Canyon, near Marysvale district, Utah

3. Mineral or metal Corundum, Kyanite (Strategic) 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

b) Poor for corundum

c) None Probably, for strategic Kyanite

d) Don't know—needs field examination

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

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

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

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

*question numbers are those of MF-103

Attachment to answer question 16

16. Information on geology of deposits as given by applicant is very meager and of little help. Bureau of Mines evidently trenched some of these corundum deposits (Corundum No. 3 and Lone Pine No. 2 claims) about 1945, under supervision of J. Hild. Bureau reports not seen by reviewer, but a sketch map and brief note on the deposits by Paul D. Proctor (6/14/45) is in Survey corundum files. Proctor's description of the deposits on these two claims is here quoted:

> NOTE: The corundum occurs as a filling of minute black and bluish euhedral crystals in a breccia zone at the contact of possible monzonite and altered latite. Zone 2-3 feet wide, approx. 300 feet long.
>
> The deposit appears to be too small and too spotty to be of value for corundum mining, as filling is less than 10% of breccia zone.

On the basis of this information, it is recommended that the application for exploration for corundum be denied.

The possibilities for strategic kyanite are even less favorable. Applicant states that he has not identified kyanite with certainty. Even if present, it would not necessarily be of strategic quality. There is a sound geologic reason for doubting the presence of kyanite in this deposit, because the country rocks are unmetamorphosed igneous rocks, whereas strategic grade kyanite always occurs in rather highly metamorphosed rocks.

It is recommended that the application for exploration for strategic kyanite be denied.

G. H. Espenshade
U. S. Geological Survey

GHEspenshade:jeh
G-6/13/51

cc: Espenshade
corundum files

7. Are subordination agreements necessary?_____

a) MF-201?_____

b) MF-202_____

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

a) Available manpower_____

b) Equipment and supplies_____
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)*_____

d) Water (question 13)*_____

e) Power (question 13)*_____

Is a field check needed on any of these points?_____

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

Is a field check needed on this point?_____

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

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

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

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

If not, what part of it is?_____

7. Are subordination agreements necessary?_____

a) MF-201?_____

b) MF-202_____

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

a) Available manpower_____

b) Equipment and supplies_____
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)*_____

d) Water (question 13)*_____

e) Power (question 13)*_____

Is a field check needed on any of these points?_____

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

Is a field check needed on this point?_____

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

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

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

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

If not, what part of it is?_____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed?_____

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data?_____ 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?_____

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

c) Is a field check needed?_____

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

a) Is it applicable?_____

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

c) Are rents and charges reasonable?_____

d) Is a field check needed?_____ _____

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

a) Are there sufficient data?_____

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

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable?_____

e) Is a field check needed?_____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed?_____

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data?_____ 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?_____

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

c) Is a field check needed?_____

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

a) Is it applicable?_____

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

c) Are rents and charges reasonable?_____

d) Is a field check needed?_____ _____

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

a) Are there sufficient data?_____

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

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable?_____

e) Is a field check needed?_____

14. Exhibit E (question 23-c)*

a) Is it applicable?_____

b) Sufficient data?_____

c) Reasonable?_____

d) Field check needed?_____

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

(All exploration must be completed within two years)

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

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

Reviewed by:_____

Date_____

97692

14. Exhibit E (question 23-c)*

a) Is it applicable?_____

b) Sufficient data?_____

c) Reasonable?_____

d) Field check needed?_____

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

(All exploration must be completed within two years)

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

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

Reviewed by:_____

Date_____

97692

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA -1233 X

Commodity Corundum & Kyanite

Total Amount $15,000

Govt. Participation 90%

1. Name and Address of Applicant Leroy A. Wilson
Box 14, Veyo, Utah

2. Location of Property Sec. 22, T.28S R.2 W, S.L.B & Mer. in Pine canyon, near Marysvale district, Utah

3. Mineral or metal Corundum, Kyanite (Strategic) 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

b) Poor for corundum

c) None Probably, for strategic Kyanite

d) Don't know—needs field examination

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

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

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

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

*question numbers are those of MF-103

Attachment to answer question 16

16. Information on geology of deposits as given by applicant is very meager and of little help. Bureau of Mines evidently trenched some of these corundum deposits (Corundum No. 3 and Lone Pine No. 2 claims) about 1945, under supervision of J. Hild. Bureau reports not seen by reviewer, but a sketch map and brief note on the deposits by Paul D. Proctor (6/14/45) is in Survey corundum files. Proctor's description of the deposits on these two claims is here quoted:

> NOTE: The corundum occurs as a filling of minute black and bluish euhedral crystals in a breccia zone at the contact of possible monzonite and altered latite. Zone 2-3 feet wide, approx. 300 feet long.
>
> The deposit appears to be too small and too spotty to be of value for corundum mining, as filling is less than 10% of breccia zone.

On the basis of this information, it is recommended that the application for exploration for corundum be denied.

The possibilities for strategic kyanite are even less favorable. Applicant states that he has not identified kyanite with certainty. Even if present, it would not necessarily be of strategic quality. There is a sound geologic reason for doubting the presence of kyanite in this deposit, because the country rocks are unmetamorphosed igneous rocks, whereas strategic grade kyanite always occurs in rather highly metamorphosed rocks.

It is recommended that the application for exploration for strategic kyanite be denied.

G. H. Espenshade
U. S. Geological Survey

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTER
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-1233X

Date received 5/21/51

Participation

Leroy A. Wilson,
Box 14, Veyo, Utah.

Name and address of applicant

Date May 10, 1951.

FILL IN THIS BLOCK

Date of application April 25, 1951 and prior

Estimated cost $15,000

Mineral or metal Corundum & syenite (?)

Percentage of Government participation 90%.

Location of mine Section 22, Twp. 28S. Range 2 west, S.L.B.&M. in Pine Canyon, a few miles Southeasterly from the Marysvale, District, Utah.

Date of filing MF-100 October, 1950.

DMA Docket Number, if available dma-1233X

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.

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

*4. Describe the mining and general business experience of (a) the applicant and (b) the person or persons who will manage the project. Worked mines, prospects, etc. since 1920.

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

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None, save annual assessment work.

7. If lessee, attach a copy of the lease and state if it is in good standing. Owner of all but one claim.

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. No liabilities or debts

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)? 10% and is sufficient for the purpose.

*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 propert truck, tractor, diamond drilling outfit. The Onyx

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conduct Sec.2,3,4,5

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 The Onyx Mine.

*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 road 3 miles from road, 60 miles from Ely.

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

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration wo None on property but can provide truck, or wier tractor & drill

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

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property with reasons for any past suspensions of operation Surface trenches, road work. No production

(*b*) State briefly the known history and production of adjoining and neighboring properties Meyers District.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. None save my own.

*17. Production:

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay dat Samples have averaged 20% Al2O3. Some higher.

(*c*) Give estimated tonnage and grade of each class of ore reserves unexplored.

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

SEE ATTACHED STATEMENT

THE EXPLORATION

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

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. Drill & tunnel 6 mo.

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of eac Miners & drillers @ $2.50 per hour.

(*b*) Supervisors, by numbers and positions, with salaries of each One @ $500 mo.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings very little.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings. Road work $1,000

(*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 Diamond bits, drill rods.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) ~~Rental value of items of equipment~~ which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

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

CERTIFICATION

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

_____ (Name of company)

By _____ (Signature of authorized official)

_____ (Date)

_____ (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

APPENDED STATEMENT TO ACCOMPANY APPLICATION OF LEROY A. WILSON on FORM MF-103, filed May 10,1951, but originally made in 1950 and also in winter and spring of 1951.

This property is situated in Pine Canyon, about 12 miles southwesterly from Kanosh,Utah and about 35 or 40 miles southwesterly from the famous Marysvale,Utah, Mining District. The corundum was originally discovered by an LDS polygamist hiding in Pine Canyon from the U.S. Marshall. It has been located and relocated a number of times by prospectors. In October,1948, I found the property open and located it by placer claims, as stone,etc., then recently, May 9,1951, I located several lodes. Prior locators failed to file their proofs of labor last fall and abandoned the property. Besides, they were government employees and could not legally locate mining claims. However, they told two prospectors of Marysvale about the deposit and one of them, a Mr. Edwin Ney, visited the property about April 6,1951 and placed a location notice in one monument and recorded this one claim. I visited Mr. Ney a few days past and he and Mr. Spencer Gibbs, the other locator on said claim notice, agreed to give me 1/4 interest in said claim and Mr. Ney said he would go out and put up his corners. We agreed to cooperate. However, on the other five claims I located, there are no conflicts. Their one claim conflicts with one of my placer claims. There is ample ground free from conflict but I am sure Mr. Ney and Gibbs will grant me a lease if you wish this claim included also.

I found this property after a protracted search for aluminous refractories for use in our iron-making project. It is the most promising high-alumina deposit I know of.

A large zone of aluminous mineralization exists throughout this region, as is evidenced by the many alunite and clay deposits in the Marysvale, District. The district is also famous for its gold producers, and recently gained further prominence for amazing uranium strikes.

This deposit is obviously an ancient stock or magma. The beds of rocks dip northerly and clays of most every description from corundum to low-grade aluminum silicates can be seen. Some of the lower-grade zones contain sulphides.

The colors range from deep black, through blue to brownish and gray. A lighter black emery is also found at a few places. The deep black corundum was infusible in the butane-oxygen torch. This sample came from undisputed ground. A sample of not as black emery from the claim Messrs Gibbs and Ney attempted to "jump" was readily fusible in this same flame. This sample assayed 70% Al2O3 and 15% Fe.

The blue samples were fused in the butane-oxygen welding torch but not as easily as the emery.

It appears to me that in cooling, this magma or stock segregated corundum in pods. I have not found the tabular crystals characteristic of kyanite but have found samples which have its color and hardness. These pods have not been explored. A few have shallow trenches at their surface but some of them have not been trenched. Some of the dump material weathers white.

Some samples we have collected have shown small sapphires and tiny rubies and it is reported that fair-sized sapphires and rubies have been found. Most of what we have seen have been intensely-blue brilliant

Over 1 2 3 4 (Brown)

852

We have drilled in the iron ore fields of Southern Utah and also miscellaneous formations. I have run many tunnels.

I was born and raised in the Salt Lake Valley, not far from Bingham, and worked in the mills, mines and smelters of that District, being a foreman over 220 men at the age of 17. I graduated in 1916 from the Utah State College, at Logan,Utah, and spent a year and a half with the Great Western Sugar Co., then was in the Field Artillery (Commissioned) in World War II (U.S. Army). I invented and designed the COUGTERFLO line of steam boilers and heaters and water-heaters and organized and built a production foundry and machine shop, selling my interest therein for interests in iron-ore properties in Southern Utah. This foundry and factory is still operating. I am one of the largest stockholders in the Bull Valley Trust Estate which owns prominent iron-ore properties in Iron and Washington counties,Utah. I am also the principal shareholder in the Wilson Research, Engineering and Exploration Co.,. Between this organization and myself we have a machine shop, drilling equipment, mining equipment, ore-dressing facilities,etc. We have no cash on hand, spending all our income on development work and the erection of some sponge-iron furnaces near Cedar City,Utah, but we likewise have no debts. We refuse to borrow money . From the beginning of the 1950 Defense Act I made application to the Defense Mineral Administration and the various bureaus for financial assistance on our iron project, this corundum project, manganese, platinum and talc. This is the first I have received any blanks. We, therefore , feel you should date our application back at least several months. I also request you send us more blanks for the other projects. All of them are meritorious and will bear examination. Many of them are covered by U.S.B.M. reports.

We have definitely found corundum at this place. Drilling or short tunnels should prove considerable tonnages or else prove it isn't there. We have spent our own dollars up until now in the firm conviction it is there. There is also the possibility of finding accessory aluminous minerals of value to the Defense Effort and general industry. I am sure we can demonstrate sufficient tonnage to justify not only the mining of corundum but also the installation of an electric furnace for production of mullite. Low-cost but excellent coal can be had not only from Saline Canyon but also the Fish Lake field and the Straight Cliffs formation near Cannonville. All three fields are reached by good roads and from 30 to 80 miles distant.

Where iron occurs, which is characteristic of corundum deposits, it appears to be magnetite and hence removable by simple magnetic concentration. However, we are confident that considerable tonnages can be proven of shippable corundum "as is".

Please advice us at once if further information is desired.

Very truly,

Leroy A. Wilson.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 21 1951
LANDON F. STROBEL
Executive Secretary

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-1233X

Date received 5/21/51

Participation

Leroy A. Wilson,
Box 14, Veys, Utah.

Name and address of applicant

Date May 10, 1951.

FILL IN THIS BLOCK

Date of application April 25, 1951 and prior

Estimated cost $15,000

Mineral or metal Corundum & cyanite (?)

Percentage of Government participation 90%.

Location of mine Section 22, Twp. 28S., Range 2 West, S.L.B.&M. in Pine Canyon, A few miles Southeasterly from the Marysvale, District, Utah.

Date of filing MF-100 October, 1950.

DMA Docket Number, if available Dma-1233X

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.

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

*4. Describe the mining and general business experience of (a) the applicant, and (b) the person or persons who will manage the project. Operated mines, factories, etc. since 1920.

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

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None, save annual assessment work.

7. If lessee, attach a copy of the lease and state if it is in good standing. Owner of all but one claim.

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. No liabilities or debts

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)? 10% and is sufficient for the purpose.

*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. truck, tractor, diamond drilling outfit. Pine Canyon
(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. Mas.2,3,4,5

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. Pine Canyon Mine.

*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. 3 miles from road, 60 miles from Ry.

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

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. None on property but can provide truck, crawler tractor & drill

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

*16. History:
(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations. Surface trenches, road work. No production
(*b*) State briefly the known history and production of adjoining and neighboring properties. Marysvale District.
(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. None save my own.

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)
(*a*) Describe the ore or mineral deposits briefly.
(*b*) Submit available maps and assay data. Samples have assayed 70% Al2O3. Some higher.
(*c*) Give estimated tonnage and grade of each class of ore reserves. unexplored.

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

THE EXPLORATION

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

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

NOTE.—The Government will not participate in a project that will require more than 2 years to complete. 6 mo.

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. miners & drillers &
(*b*) Supervisors, by numbers and positions, with salaries of each. One @ $500 mo. $2.50 per hour.
(*c*) Cost of necessary repairs to existing facilities, structures, and buildings. very little.
(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings. Road work $1,000
(*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. diamond bits, drill rods.
(*f*) Cost of rental for equipment which the operator proposes to rent.
(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
(*i*) Cost of power, water, utilities, and any other items not provided for above.

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

CERTIFICATION

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

_____ (Name of company)

By _____ (Signature of authorized official)

_____ (Date)

_____ (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.

APPENDED STATEMENT TO ACCOMPANY APPLICATION of LEROY A. WILSON on FORM MF - 103, filed May 10,1951, but original made in 1950 and also in winter and spring of 1951.

This property is situated in Pine Canyon, about 12 miles southwesterly from Kanosh,Utah and about 35 or 40 miles southwesterly from the famous Marysvale,Utah, Mining District. The corundum was originally discovered by an LDS polygamist hiding in Pine Canyon from the U.S. Marshall. It has been located and relocated a number of times by prospectors. In October,1948, I found the property open and located it by placer claims, as stone,etc., then recently, May 9,1951, I located several lodes. Prior locators failed to file their proofs of labor last fall and abandoned the property. Besides, they were government employees and could not legally locate mining claims. However, they told two prospectors of Marysvale about the deposit and one of them, a Mr. Edwin Ney, visited the property about April 6,1951 and placed a location notice in one monument and recorded this one claim. I visited Mr. Ney a few days past and he and Mr. Spencer Gibbs, the other locator on said claim notice, agreed to give me 1/4 interest in said claim and Mr. Ney said he would go out and put up his corners. We agreed to cooperate. However, on the other five claims I located, there are no conflicts. Their one claim conflicts with one of my placer claims. There is ample ground free from conflict but I am sure Mr. Ney and Gibbs will grant me a lease if you wish this claim included also.

I found this property after a protracted search for aluminous refractories for use in our iron-making project. It is the most promising high-alumina deposit I know of.

A large zone of aluminous mineralization exists throughout this region, as is evidenced by the many alunite and clay deposits in the Marysvale, District. The district is also famous for its gold producers, and recently gained further prominence for amazing uranium strikes.

This deposit is obviously an ancient stock or magma. The beds of rocks dip northerly and clays of most every description from corundum to low-grade aluminum silicates can be seen. Some of the lower-grade zones contain sulphides.

The colors range from deep black, through blue to brownish and grey. A lighter black emery is also found at a few places. The deep black corundum was infusible in the butane-oxygen torch. This sample came from undisputed ground. A sample of not so black emery from the claim Messrs Gibbs and Ney attempted to "jump" was readily fusible in this same flame. This sample assayed 70% Al2O3 and 15% Fe.

The blue samples were fused in the butane-oxygen welding torch but not so easily as the emery.

It appears to me that in cooling, this magma at stock segregated corundum in pods. I have not found the tabular crystals characteristic of kyanite but have found samples which have its color and hardness. These pods have not been explored. A few have shallow trenches at their surface but some of them have not been trenched. Some of the dump material weathers white.

Some samples we have collected have shown small sapphires and tiny rubies and its is reported that fair-sized sapphires and rubies have been found. Most of what we have seen have been intensely-blue brilli

We have drilled in the iron ore fields of Southern Utah and also miscellaneous formations. I have run many tunnels.

I was born and raised in the Salt Lake Valley, not far from Bingham, and worked in the mills, mines and smelters of that District, being a foreman over 220 men at the age of 17. I graduated in 1916 from the Utah State College, at Logan,Utah, and spent a year and a half with the Great Western Sugar Co., then was in the Field Artillery (Commissioned) in World War II (U.S. Army). I invented and designed the COUNTERFLO line of steam boilers and heaters and water-heaters and organized and built a production foundry and machine shop, selling my interest therein for interests in iron-ore properties in Southern Utah. This foundry and factory is still operating. I am one of the largest stockholders in the Bull Valley Trust Estate which owns prominent iron-ore properties in Iron and Washington counties,Utah. I am also the principal shareholder in the Wilson Research, Engineering and Exploration Co.,. Between this organization and myself we have a machine shop, drilling equipment, mining equipment, ore-dressing facilities,etc. We have no cash on hand, spending all our income on development work and the erection of some sponge-iron furnaces near Cedar City,Utah, but we likewise have no debts. We refuse to borrow money . From the beginning of the 1950 Defense Act I made application to the Defense Minerals Administration and the various bureaus for financial assistance on our iron project, this corundum project, manganese, platinum and talc. This is the first I have received any blanks. We, therefore , feel you should date our application back at least several months. I also request you send us more blanks for the other projects. All of them are meritorious and will bear examination. Many of them are covered by U.S.B.M. reports.

We have definitely found corundum at this place. Drilling or short tunnels should prove considerable tonnages or else prove it isn't there. We have spent our own dollars up until now in the firm conviction it is there. There is also the possibility of finding necessary aluminous minerals of value to the Defense Effort and general industry. I am sure we can demonstrate sufficient tonnage to justify not only the mining of corundum but also the installation of an electric furnace for production of mullite. Low-cost but excellent coal can be had not only from Saline Canyon but also the Fish Lake field and the Straight Cliffs formation near Cannonville. All three fields are reached by good roads and from 30 to 50 miles distant.

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Please advise us at once if further information is desired.

Very truly,

Leroy A. Wilson

Leroy A. Wilson.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 21 1951
LANDON F. STROBEL
Executive Secretary

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI

DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-1233 X

Date received 5/21/51

Participation

Leroy A. Wilson,
Box 14, Veyo, Utah.

Name and address of applicant

Date May 10, 1951.

FILL IN THIS BLOCK

Date of application April 25, 1951 and prior

Estimated cost $15,000

Mineral or metal Corundum & cyanite (?)

Percentage of Government participation 90%.

Location of mine Section 22, Twp. 28S.J. Range 2 West, S.L. B&Mer. in Pine Canyon, A few miles Southeasterly from the Marysvale, District, Utah.

Date of filing MF-100 October, 1950.

DMA Docket Number, if available dma-1233 X

INSTRUCTIONS

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

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16—64067-1

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CERTIFICATION

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---------- (Name of company)

By Seiro Anderson
(Signature of authorized official)

---------- (Date)

---------- (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

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Some samples we have collected have shown small sapphires and tiny rubies and its is reported that fair-sized sapphires and rubies have been found. Most of what we have seen have been intensely-blue brilliant

sapphires but quite small.

I have a crawler tractor with angle-dozer we can use for extending the dirt road to the places where we wish to drill or run short tunnels. We figure this tractor at $100 per day, including driver, and time counted from leaving here to property and return. It is possible that a smaller tractor with bulldozer will do and we have one we figure rental at $60 per day, including driver and gasolene. We have already built a fairly-good, passable dirt road to within a few hundred yards of some of the exposures. This could be readily improved with a grader and light tractor. Usually the county is cooperative in loaning a grader to drag back of a tractor. We figure a truck at $40 per day, including driver and gasolene, but can supply smaller trucks at around $30 per day.

We figure drilling at $6 per foot. However, since these rocks are extremely hard, we feel the price ought to be $7 per foot, with the provision that if it proves too slow and too hard on diamonds we may be compelled to increase that price somewhat. However, we will drill for whatever rate competent drillers or contractors would charge for identical drilling and conditions.

There is ample spring waterfor culinary purposes and for cooling the radiator. We will use a gasolene engine, usually a Chevrolet four-cylinder but have steam enhines and boilers if preferred. Gasolene can be purchased in bulk at Circleville, about fifty miles distant, for 23 cents per gallon.

The 3½ miles of dirt road connects us with the Road running from Koosharem in Grass Valley to Antimony. This road also connects with the oiled paved highway at Koosharem, which paved road runs northerly to Richfield, Utah, a station on the Denver and Rio Grande Railway. Our dirt road connects with this Grass Valley road at the Narrows on Otter Creek. From thence it is about eight miles to the paved highway at the Otter Creek Reservoir Dam, and 12 miles from thence on the paved highway to Kingston and about 35 miles over this same paved highway to the railway terminal at Marysvale, Utah.

Since the canyon has very steep northerly side, where the claims lie, we prefer to run short tunnels but will agree to drill if the Bureau so prefers. These tunnels can be run for about $20 per foot, and we will contract same at that price, supply everything and contribute $2 per foot, leaving $18 per foot for you to pay, providing we have a contract for 500 or more feet. It would be our policy to first trench across the outcrops, where they are covered, but not trench where they are well-exposed. If the exposure shows a fair width of promising material, then we would drop down the steep hillside about 25 feet distance vertically and drive a short tunnel into the ore, then if it is still as wide or wider than the outcrop or shows good promise of going down, we would drop down still further and run another tunnel. Since the lodes or pods dip northerly about 45 degrees, we feel this is less expensive and will give more information than drilling but will do drilling if you insist.

We have had experience as drillers, and also at running tunnels, shafts, etc. We drilled the coking coal lands at Mt. Pleasant, Utah, bringing up long cores whereas others only brought up crushed coal

We have drilled in the iron ore fields of Southern Utah and also miscellaneous formations. I have run many tunnels.

I was born and raised in the Salt Lake Valley, not far from Bingham, and worked in the mills, mines and smelters of that District, being a forman over 220 men at the age of 17. I graduated in 1916 from the Utah State College, at Logan,Utah, and spent a year and a half with the Great Western Sugar Co., then was in the Field Artillery (Commissioned) in World War II (U.S. Army). I invented and designed the COUNTERFLO line of steam boilers and heaters and water-heaters and organized and built a production foundry and machine shop, selling my interest therein for interests in iron-ore properties in Southern Utah. This foundry and factory is still operating. I am one of the largest stockholders in the Bull Valley Trust Estate, which owns prominent iron-ore properties in Iron and Washington counties,Utah. I am also the principal shareholder in the Wilson Research, Engineering and Exploration Co.,. Between this organization and myself we have a machine shop, drilling equipment, mining equipment, ore-dressing facilities,etc. We have no cash on hand, spending all# our income on development work and the erection of some sponge-iron furnaces near Cedar City,Utah, but we likewise have no debts. We refuse to borrow money . From the beginningof the 1950 Defense Act I made application to the Defense Minerals Administration and the various bureaus for financial assistance on our iron project, this corundum project, manganese, platinum and talc. This is the fitst I have received any blanks. We,therefore , feel you should date our application back at least several months. I also request you send us more blanks for the other projects. All of them are meritorious and will bear examination. Many of them are covered by U.S.B.M. reports.

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Where iron occurs, which is characteristic or corundum deposits, it appears to be magnetite and hence removable by simple magnetic concentration. However, we are confident that considerable tonnages can be proven of shippable corundum "as is".

Please advise us at once if further information is desired.

Very truly,

Leroy A. Wilson

Leroy A. Wilson.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 1 1951
LANDON F. STROBEL
Executive Secretary

F-103
(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-1233X

Date received 5/01/51

Participation

Lersy A. Wilson,
Box 14, Veys, Utah.

Name and address of applicant

Date May 10, 1951.

FILL IN THIS BLOCK

Date of application April 25, 1951 and prior

Estimated cost $15,000

Mineral or metal Corundum & cyanite (?)

Percentage of Government participation 90%.

Location of mine Section 22, Twp. 28Sa. Range 2 West, S.L.B&M. in Pine Canyon, A few miles Southeasterly from the Marysvale, District, Utah.

Date of filing MF-100 October, 1950.

DMA Docket Number, if available DMA-1233X

INSTRUCTIONS

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*4. Describe the mining and general business experience of (a) the applicant, and (b) the person or persons who will manage the project. Operated mines, factories, etc. since 1920.

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

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None, save aml. ass. work.

7. If lessee, attach a copy of the lease and state if it is in good standing. owner of all but one claim.

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. No liabilities or debts

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)? 10% and is sufficient for the purpose.

*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. truck, tractor, diamond drilling outfit. Pine Canyon
(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. Mas.2,3,4,5

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. Pine Canyan Mine.

*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. 6 miles from road, 60 miles from Ry.

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

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. None on property but can provide truck, crawler tractor & drill

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

*16. History:
(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations. Surface trenches, road work. No production
(*b*) State briefly the known history and production of adjoining and neighboring properties. Marysvale District.
(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. None save my own.

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)
(*a*) Describe the ore or mineral deposits briefly.
(*b*) Submit available maps and assay data. Samples have assayed 70% Al2O3. Some higher.
(*c*) Give estimated tonnage and grade of each class of ore reserves. unexplored.

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

THE EXPLORATION

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

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

NOTE.—The Government will not participate in a project that will require more than 2 years to complete. 6 ms.

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. miners & drillers &
(*b*) Supervisors, by numbers and positions, with salaries of each. One @ $500 mo. $2.50 per hour.
(*c*) Cost of necessary repairs to existing facilities, structures, and buildings. very little.
(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings. Road work $1,000
(*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. diamond bits, drill rods.
(*f*) Cost of rental for equipment which the operator proposes to rent.
(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
(*i*) Cost of power, water, utilities, and any other items not provided for above.

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

CERTIFICATION

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

_____ (Name of company)

By _____ (Signature of authorized official)

_____ (Date)

_____ (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.

APPENDED STATEMENT TO ACCOMPANY APPLICATION LEROY A. WILSON on FORM MF - 103, filed May 10,1951, but originally made in 1950 and also in winter and spring of 1951.

This property is situated in Pine Canyon, about 12 miles southwesterly from Kanosharem,Utah and about 35 or 40 miles southeasterly from the famous Marysvale,Utah, Mining District. The corundum was originally discovered by an LDS polygamist hiding in Pine Canyon from the U.S. Marshall. It has been located and relocated a number of times by prospectors. In October,1948, I found the property open and located it by placer claims, as stone,etc., then recently, May 9,1951, I located several lodes. Prior locators failed tomfile their proofs of labor last fall and abandoned the property. Besides, they were government employees and could not legally locate mining claims. However, they told two prospectors of Marysvale about the deposit and one of them, a Mr. Edwin Ney, visited the property about April 6,1951 and placed a location notice in one monument and recorded this one claim. I visited Mr. Ney a few days past and he and Mr. Spencer Gibbs, the other locator on said claim notice, agreed to give me 1/4 interest in said claim and Mr. Ney said he would go out and put up his corners. We agreed to cooperate. However, on the other five claims I located, there are no conflicts. Their one claim conflicts with one of my placer claims. There is ample ground free from conflict but I am sure Mr. Ney and Gibbs will grant me a lease if you wish this claim included also.

I found this property after a protracted search for aluminous refractories for use in our iron-making project. It is the most promising high-alumina deposit I know of.

A large zone of aluminous mineralization exists throughout this region, as is evidenced by the many alunite and clay deposits in the Marysvale, District. The district is also famous for its gold producers, and recently gained further prominence for amazing uranium strikes.

This deposit is obviously an ancient stock or magma. The beds of rocks dip northerly and clays of most every description from corundum to low-grade aluminum silicates can be seen. Some of the lower-grade zones contain sulphides.

The colors range from deep black, through blue to brownish and gray. A lighter black emery is also found at a few places. The deep black corundum was infusible in the butane-oxygen torch. This sample came from undisputed ground. A sample of not so black emery from the claim Messrs Gibbs and Ney attempted to "jump" was readily fusible in this same flame. This sample assayed 70% Al2O3 and 15% Fe.

The blue samples were fused in the butane-oxygen welding torch but not so easily as the emery.

It appears to me that in cooling, this magma or stock segregated corundum in pods. I have not found the tabular crystals characteristic of kyanite but have found samples which have its color and hardness. These pods have not been explored. A few have shallow trenches at their surface but some of them have not been trenched. Some of the dump material weathers white.

Some samples we have collected have shown small sapphires and tiny rubies and its is reported that fair-sized sapphires and rubies have been found. Most of what we have seen have been intensely-blue brilliant

sapphires but quite small.

I have a crawler tractor with angle-dozer we can use for extending the dirt road to the places where we wish to drill or run short tunnels. We figure this tractor at $100 per day, including driver, and time counted from leaving here to property and return. It is possible that a smaller tractor with bulldozer will do and we have one we figure rental at $60 per day, including driver and gasolene. We have already built a fairly-good, passable dirt road to within a few hundred yards of some of the exposures. This could be readily improved with a grader and light tractor. Usually the county is cooperative in loaning a grader to drag back of a tractor. We figure a truck at $40 per day, including driver and gasolene, but can supply smaller trucks at around $30 per day.

We figure drilling at $6 per foot. However, since these rocks are extremely hard, we feel the price ought to be $7 per foot, with the provision that if it proves too slow and too hard on diamonds we may be compelled to increase that price somewhat. However, we will drill for whatever rate competent drillers or contractors would charge for identical drilling and conditions.

There is ample spring water for culinary purposes and for cooling the radiator. We will use a gasolene engine, usually a Chevrolet four-cylinder but have steam engines and boilers if preferred. Gasolene can be purchased in bulk at Circleville, about fifty miles distant, for 23 cents per gallon.

The miles of dirt road connects us with the Road running from Koosharem in Grass Valley to Antimony. This road also connects with the oiled paved highway at Koosharem, which paved road runs northerly to Richfield,Utah, a station on the Denver and Rio Grande Railway. Our dirt road connects with this Grass Valley road at the Narrows on Otter Creek. From thence it is about eight miles to the paved highway at the Otter Creek Reservoir Dam, and ~~ten~~ 12 miles from thence on the paved highway to Kingston and about 30 miles over this same paved highway to the railway terminal at Marysvale,Utah.

Since the canyon has very steep northerly side, where the claims lie, we prefer to run short tunnels but will agree to drill if the Bureau so prefers. These tunnels can be run for about $20 per foot, and we will contract some at that price, supply everything and contribute $2 per foot, leaving $18 per foot for you to pay, providing we have a contract for 500 or more feet. It would be our policy to first trench across the outcrops, where they are covered, but not trench where they are well-exposed. If the exposure shows a fair width of promising material, then we would drop down the steep hillside about 25 feet distance vertically and drive a short tunnel into the ore, then if it is still as wide or wider than the outcrop or shows good promise of going down, we would drop down still further and run another tunnel. Since the lodes or pods dip northerly about 45 degrees, we feel this is less expensive and will give more information than drilling but will do drilling if you insist.

We have had experience as drillers, and also at running tunnels, shafts, etc. We drilled the coking coal lands at Mt. Pleasant,Utah, bringing up long cores whereas others only brought up crushed coal

We have drilled in the iron ore fields of Southern Utah and also miscellaneous formations. I have run many tunnels.

I was born and raised in the Salt Lake Valley, not far from Bingham, and worked in the mills, mines and smelters of that District, being a foreman over 220 men at the age of 17. I graduated in 1916 from the Utah State College, at Logan,Utah, and spent a year and a half with the Great Western Sugar Co., then was in the Field Artillery (Commissioned) in World War II (U.S. Army). I invented and designed the COUNTERFLO line of steam boilers and heaters and water-heaters and organized and built a production foundry and machine shop, selling my interest therein for interests in iron-ore properties in Southern Utah. This foundry and factory is still operating. I am one of the largest stockholders in the Bull Valley Trust Estate which owns prominent iron-ore properties in Iron and Washington counties,Utah. I am also the principal shareholder in the Wilson Research, Engineering and Exploration Co.,. Between this organization and myself we have a machine shop, drilling equipment, mining equipment, ore-dressing facilities,etc. We have no cash on hand, spending all our income on development work and the erection of some sponge-iron furnaces near Cedar City,Utah, but we likewise have no debts. We refuse to borrow money . From the beginning of the 1950 Defense Act I made application to the Defense Minerals Administration and the various bureaus for financial assistance on our iron project, this corundum project, manganese, platinum and talc. This is the first I have received any blanks. We, therefore , feel you should date our application back at least several months. I also request you send us more blanks for the other projects. All of them are meritorious and will bear examination. Many of them are covered by U.S.B.M. reports.

We have definitely found corundum at this place. Drilling or short tunnels should prove considerable tonnages or else prove it isn't there. We have spent our own dollars up until now in the firm conviction it is there. There is also the possibility of finding necessary aluminous minerals of value to the Defense Effort and general industry. I am sure we can demonstrate sufficient tonnage to justify not only the mining of corundum but also the installation of an electric furnace for production of mullite. Low-cost but excellent coal can be had not only from Saline Canyon but also the Fish Lake field and the Straight Cliffs formation near Cannonville. All three fields are reached by good roads and from 30 to 80 miles distant.

Where iron occurs, which is characteristic of corundum deposits, it appears to be magnetite and hence removable by simple magnetic concentration. However, we are confident that considerable tonnages can be proven of shippable corundum "as is".

Please advise us at once if further information is desired.

Very truly,

Larry A. Wilson.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 1 1951
LANDON F. STROBEL
Executive Secretary

April 30, 1951

Mr. Leroy A. Wilson
Box 14
Veya, Utah

Dear Mr. Wilson:

I have your letter of April 17 asking for information on loan for a charcoal furnace to make charcoal pig iron.

As I understand your situation, you have yet to locate the iron ore deposits that will be the basis for this operation. For that reason, I am suggesting that you will probably like to first get an idea of the amount of iron that you have available, and I am sending you a copy of our Form MO-5 which describes the method of making an application for a loan for exploration purposes. You will note that in the case of iron ore the applicant must provide half of the funds.

Very truly yours,

Franklin G. Pardee, Chief
Iron Ores Branch

Inclosure

FGPardee:md

Copy to: Adm. Reading File
Mr. Strobel
Mr. Lyon
Mr. Pardee
Files