DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1591 X

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This document has been recorded as

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

Routing Slip

To:	Mr. Brown	Date	6/11/51
To:	Mr. Lipan	Date	8/15/51
To:	210	Date	8-15-51
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CONTROLLED DOCUMENT

Mr. Frank E. Langer
Port Orchard
Washington

Re: Docket No. DMA-1591X

Dear Mr. Langer:

Your application for Government exploration aid has been studied by the Defense Minerals Administration and we are sorry to inform you that it must be denied.

On the basis of data submitted with your application and the data available to the Government we feel that indications do not justify a Government assisted exploration project at this time.

Very truly yours,

Tom Lyon, Director
Supply Division

HVWaugh:jp
8/16/51
Copy to: Reports and Records Branch
Executive Office, Region II
J. B. Gowen
C. H. Johnson
D. Mac Laren
Files - DMA Docket

AUG 2 0 1951

MEMORANDUM

To: Administrative Management Division

From: Chairman, Copper Commodity Committee

Through: Director, Supply Division

Subject: Exploration Aid application of Mr. Frank E. Langer, Fort Orchard, Washington. (DMA-1991X) Commodity Copper

Denial of this application is recommended for the following reasons:

1. A 400 feet adit was driven to explore a weakly mineralized zone exposed in the cliff face about 20 ft. above. This proved futile and further drifting was done in hopes of disclosing another zone. This also failed. Three diamond drill holes totaling 1,000 feet were drilled at various angles from the face of the drift along the adit. These holes produced weak showing of mineralization.

2. No structures were observed or are known which would serve as host for commercial mineralization. The weak character of the mineralization and the lack of present ore in the shear zone indicates that commercial ore bodies are not likely to be found by continued drilling or crosscutting.

3. There is no indication of a feasible exploration objective.

A letter has been prepared for signature of the Director, Supply Division, informing the applicant of the denial.

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

3 Forms MF-133 with answer sheets.
1 Original letter from Mr. A. E. Weissenborn to Mr. L. F. Strobel dated June 1, 1951 with 2 carbon copies attached
1 Original letter from Mr. A. E. Weissenborn to Mr. Landon F. Strobel dated June 26, 1951
1 Original letter from Mr. A. E. Weissenborn and Mr. H. E. Wolin to Mr. L. F. Strobel dated June 21, 1951 with

2 carbon copies attached and a carbon copy of a memorandum from Mr. Eric C. Erickson et al to Mr. A. E. Weissenborn dated June 19, 1951

1 Carbon copy of letter from Landon F. Strobel to Mr. F. E. Langer dated June 18, 1951

2 Defense Minerals Administration review of application for Exploration assistance.

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

Enclosures

Approved:

Tom Lyon

Director, Supply Division

RVWaugh:jp

Copy to: Reports and Records Branch
Executive Officer, Region II
J. B. Gowen
C. H. Johnson
D. Mac Laren
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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

AUG 2 0 1951

Q.E.C.

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2 Defense Minerals Administration review of application for Exploration assistance.

J. B. Gowen, Chief
Copper Branch

Enclosures

Approved:

Tom Lyon

Director, Supply Division

310

FILE COPY
SURNAME:

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

AUG 20 1951

MEMORANDUM

To: Administrative Management Division

From: Chairman, Copper Commodity Committee

Through: Director, Supply Division

Subject: Exploration Aid application of Mr. Frank E. Langer, Port Orchard, Washington. (DMA-1591X) Commodity Copper

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J. B. Gowen

J. B. Gowen, Chief
Copper Branch

Enclosures:

Approved:

Tom Lyon

Director, Supply Division

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J. B. Gowen, Chief
Copper Branch

Enclosures

Approved:

Tom Lyon

Director, Supply Division

RVWaugh:jp

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Executive Officer, Region II
J. B. Gowen
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310
FILE COPY
SURNAME:

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

Waugh
Gowen
Mac Laren
Johnson

AUG 20 1951

Mr. Frank E. Langer
Port Orchard
Washington

Re: Docket No. DMA-1591X

Dear Mr. Langer:

Your application for Government exploration aid has been studied by the Defense Minerals Administration and we are sorry to inform you that it must be denied.

On the basis of data submitted with your application and the data available to the Government we feel that indications do not justify a Government assisted exploration project at this time.

Very truly yours,
Tom Lyon
8/20

Tom Lyon, Director
Supply Division

RVWaugh:jp
8/16/51
Copy to: Reports and Records Branch
Executive Officer, Region II
J. B. Gowen
C. H. Johnson
D. Mac Laren
Files - DMA Docket

AUG 20 1951

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Port Orchard
Washington

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Very truly yours,

Tom Lyon

Tom Lyon, Director
Supply Division

RVMaugh:jp
8/16/51
Copy to: Reports and Records Branch
Executive Officer, Region II
J. B. Gowen
C. H. Johnson
D. Mac Laren
Files - DMA Docket

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 1591X

Date received 6-29-51

Participation

M. B.M. Reynolds

Frank E. Lengor

Port Orchard, Washington

Name and address of applicant

Date May 29, 1951

FILL IN THIS BLOCK

Date of application May 29, 1951

Estimated cost $ 25,900.00

Mineral or metal copper, zinc, lead, antimony

Percentage of Government participation

Location of mine Ptn. E 1/2 Secs. 13, T. 25 N., R. 9 E., W.M. and Secs. 25, 26, 27, 13, 19, 20, 21 and 22, T. 25 N., R. 10 E., W.M. Lots 2 & 3 of Lot on River, in King Co. Wash. & Ducon Vista Mining Dist.

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.

*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. See supplemental sheet No. 1

*5. Are you the owner or the lessee of the property? Owner by possessory rights

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

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

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. See Supplemental Sheet No. 1

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

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area. See Supplemental Sheet No. 1

*11. State the present and former names of the property, if any. Supplemental Sheet No. 1

*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. Supplemental Sheet No. 1

*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. Supplemental Sheet No. 2

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. Supplemental Sheet No. 2

15. State in detail how the ore could be shipped and how and where milled. Supplemental Sheet No. 2

*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. Supplemental Sheet No. 2

(*b*) State briefly the known history and production of adjoining and neighboring properties. Supplemental Sheet No2

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. Sheet 2-contd. on S.S. No. 3.

*17. Production:

(*a*) If mine is in production, furnish the following information: Not in production

	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. Supplemental Sheet No. 3

(*b*) Submit available maps and assay data. " " No. 3

(*c*) Give estimated tonnage and grade of each class of ore reserves. No. 3

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

Supplemental Sheet No. 3

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? S.S. No. 3.

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

NOTE.—The Government will not participate in a project that will require more than 2 years to complete. S.S. No. 3.

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. S.S. No. 3.

THE REQUIREMENTS AND COSTS

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

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

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

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

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

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

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

(*i*) Cost of power, water, utilities, and any other items not provided for above. All on S.S. No. 3

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. S.S. No. 3 and No. 4.

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 Frank E. Langer (Signature of authorized official)

(Date) Owner (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

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 1-

The Applicant

4. (a) General business experience- 3 yrs. on the property, study, investigation, exploration. Have employed engineers, prospectors, experienced miners.

(b) Expect to manage operation myself. Have access to experienced help, and expert advice.

8.

9.

The Property

10. Applicant is owner by possessory right, of a group of 20 claims upon which there has been driven a tunnel 5 x 7 ft. 400 ft. long, and 1000 ft. of core drilling, all having been done since Nov. 15, 1950. Project proposed to expand the information obtained from this work of 1950, and substantiate estimates as of present time.

(b) Area roughly portion of E 1/2 Sec. 13, T. 25 N., R. 9 E., W.M., Secs. 15, 16, 17, 18, 19, 20, 21 and 22, T. 25 N., R. 10 E., W.M., lying East and West of Lennox River and in King County, Washington, in Buena Vista Mining District.

11.

Langer No. 1	Stock	Banker
Langer No. 2	Dodge	North Dakota
Langer No. 3	Stance	Senator
Jane	Frank	Atom
Helen	Hannah	Athea
Rolf	Plymouth	Attor
Olin	Vera	Ano
Prospector	Tamlin	Aloe
Margaret	Friend	El Do
Eddy	Goff	Ra Na
Bill	Gab	La Do
Hattie	Now	Way
Harriett	Annie	High
Frank	Class	Mateo
Jim	Cliff	Lon ie
Clara	Drop	Tam
Ward	Hart	Real
Jack	Dan D.	Frid
Mary	Sheila	Sat
Henry	Evelyn	May
Madelyn	Lone	Lincoln
Pete	Ray	Lindy
John	Charles	San Mo.
Senator	Jacob	
Magician	Tommy	
Jane C.	Port Orchard	

12. Property is 33 miles northwesterly from North Bend, King County, Washington, in the Cascade Mountains. A mine to market road, well built and in excellent condition. Road traverses the property from northwest to southeast thru the approximate middle. Air compressor and machinery is being carried over the route, expeditiously. North Bend is shipping point via N.P.R.R. The property is more fully described as being in Sections 15, 16, 17, 18, 19, 20, 21 & 22, T. 25 N., R. 10 E., W.M. and Sec. 13, T. 25 N., R. 9 E., W.M.

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 2.

The Property-contd.

13. Water supply is from the Lennox River and tributary creeks at intervals on the property. Amount available will be up to 100 c.f.s. if required. Electric power or diesel power, or both, would be used at this time according to the present plans.

14. A modern camp, with electric lights, hot and cold water, facilities for 6 men with extra cook's quarters, is available and belongs to the applicant. This camp is centrally located so that all parts of the property is readily accessible.

15. It is intended, and practical, to ship ore from the mine, via ore trucks, to cars on N.P.R.R. at North Bend, and by railroad to smelter at Tacoma, Washington, Spokane, Washington, or British Columbia smelters.

16. (a)The property, listed as lode locations, was first discovered in 1948. No prospecting had been(heretofore)done as far as known. An outcrop of zinc sulphide extends along a cliff some 20 feet high and approximately 400 feet long. It lays back from the river some 400 or 500 feet, behind a growth of hemlock and vine maple in the river bottom. The cliff is the bottom of the mountain rising northeasterly and offered no visible attraction to prospectors. The Bear Basin property, belonging to others and a well prospected property showing very good ore, and an extensive property of 25 claims had long been recognised as valuable. The strike across the Bear Basin property, S. 82°W. and lying to the east some 4 miles, lead to investigation on the Lennox River at the Langer No. 1 Claim, where first discovery was made. The exploratory work herein contemplated lies north, south, east and west from the Langer No. 1 Claim. The tunnel, driven in winter 1950-1951 lies at westerly end of Langer No. 1 Claim.
Exploration on the Langer No. 1 has been quite extensive and with very good results. It is intended to extend exploration over the area. Prospecting has revealed the veins to be substantially continuous. Cross cutting, core drilling, and tunnelling is necessary at this time to assemble data from which to determine the mining process of the property.

(b) The nearest producing property is the Sunset Mine some 15 miles north where copper was produced over a period of some 12 years, up to 1940, and where operation is resuming at present. Core drilling during summer of 1950 on the Sunset, blocked out in excess of 50,000 tons of excellent copper ore, which is the objective of the operation contemplated by them during 1951.
Howe Sound, Holden Mine, is some 35 miles east and north, and is in operation and production. The property for which this application is being made, was inaccessible until September 1951 when the mine to market road was constructed thru several claims of this group. Since the construction of this mine to market road there has been an increase in activity of mining effort. Some 6 or 8 properties are in process of being readied for development. No production has been possible heretofore because of lack of accessibility. Adjoingin on the west is the Lennox Mining and Development Co. property on which a tunnel has been driven 650 feet during the last 2 years, and on which, at present, core drilling is being done. This mine shows some very good assays and extensive outcropping.

(c) No written report is yet available. As a result of the tunnel work and core drilling during 1950, the mining engineer, Mr. C. F. Van Gunde, of Spokane, is now engaged in writing a report. He will continue his investigation

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 3.

The Property-contd.

16. (e)on thru 1951 with tunnelling and core drilling and other means of acquiring data which will be incorporated into the report.
Present knowledge of the property is such as to encourage continued investigation. Professor McMillin, head of College of Puget Sound(Tacoma) geology department, has reported on Bear Basin and refers to Langer No. 1 in his report, wherein he points to the indication of depth.

18 (a) The ore, so far opened up, shows copper, zinc, lead and some silver. Outcrops show manganese and a small amount of titanium.

(b) Maps not available at this time. Assays are not available owing to exclusive use in making up report.

(c)At this time, no estimate of tonnage or grade. It would only be a guess as area is too extensive. Work has been rushed and is in process, at present, on 17 of the northwesterly portion of the group.

19. So far, meager assays have shown 3 to 12% copper, 8% zinc, at times a 3% lead, with antimony in small amount. Other assays are not available altho the Mining Engineer is securing these assays at regular intervals, and at various locations on the property.

The Exploration

20. Copper, zinc, lead, with possibly a strike of antimony, are the metals expected to be found. It is expected that ore shoots off the main veins will be discovered. These appear to be present in a "budding" system.

21. The proposed work will consist of cross cutting the known veins extending across the entire property from east to west. Strike is S. 82°W. and N. 82°E. It is intended to do some core drilling along the surface, roughly, about 4000 lineal feet of core holes, at presently selected places. The cross cutting will require about 100 days. The core drilling will probably require 40 to 50 days.

22. The area lies in a zone of fracture and faulting surrounded by Granidiorite. The contacts show Quartzite with heavy sulphide deposits.

The Requirements and Costs

23. (a) Labor - 1 cook	@ $150.00 per mo.-3 mos.	$ 450.00
1 " helper	@ 100.00 " " 3 "	300.00
3 men on cross cuts		
	40 das. @ $36.00	1440.00
core drill crew - 2 men and machine		
	40 das. @ $400.00	16000.00
(b) Supervisor - 1 supervisor @ $750 per mo. - 3 mos.		2250.00
(c) None		
(d) None		
(e) None		
(f) Rental and camp supplies		1500.00
(g) None		
(h) Groceries and small tools		1000.00
(i) Tractor-20 das. @ $75.00		1500.00
	Total	$ 25440.00

24. 1st. mo. - organization and start cross cutting 10 das.
assemble drill crew and move in 10 "

Frank R. Langer-Port Orchard, Wash.
Supplemental Sheet No. 4.

The Requirements and Costs contd.

24. 2nd mo. -	Crew on crosscutting	30 days.
	Drill crew	30 days.
3rd mo. -	Complete and move out	30 days.
Probable cost as above		$25,500.00

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

So. 157 Howard Street
Spokane 4, Washington

June 26, 1951

Mr. Landon F. Strobel
Executive Secretary
Defense Minerals Administration
Department of Interior
Washington 25, D. C.

Dear Mr. Strobel:

Enclosed is the fourth copy of the application Form MF-103 which was inadvertently omitted from my letter to you of June 21.

Yours very truly,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMA
Field Team, Region II

Enclosure

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 29 1951
LANDON F. STROBEL
Executive Secretary

~~1519~~
1591X

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
So. 157 Howard Street
Spokane 4, Washington

June 21, 1951

Mr. L. F. Strobel
Executive Secretary
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Strobel:

I am enclosing an application submitted by Frank E. Langer of Port Orchard, Washington for a copper-zinc-lead-antimony prospect in the Buena Vista Mining District, King County, Washington. On the basis of this report, the Field Team recommends that the application be denied.

The fourth copy of the docket, which was retained here, is forwarded herewith.*

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMA
Field Team, Region II

M. E. Volin

M. E. Volin, Member
U. S. Bureau of Mines

Enclosures

cc: U.S.B.M., Spokane

*Copy not attached when received in Mr. Strobel's office. - BL

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 25 1951
LAWSON F. STROBEL
Executive Secretary

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

So. 157 Howard Street
Spokane 4, Washington

June 21, 1951

Mr. L. F. Strobel
Executive Secretary
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Strobel:

I am enclosing an application submitted by Frank E. Langer of Port Orchard, Washington for a copper-zinc-lead-antimony prospect in the Buena Vista Mining District, King County, Washington. On the basis of this report, the Field Team recommends that the application be denied.

The fourth copy of the docket, which was retained here, is forwarded herewith.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMA
Field Team, Region II

M. E. Volin, Member
U. S. Bureau of Mines

Enclosures

cc: U.S.B.M., Spokane

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 25 1951
LAMOR F. STROBEL
Executive Secretary

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

So. 157 Howard Street
Spokane 4, Washington

June 21, 1951

Mr. L. F. Strobel
Executive Secretary
Defense Minerals Administration
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Executive Officer, DMA
Field Team, Region II

Enclosures

cc: U.S.B.M., Spokane

M. E. Volin, Member
U. S. Bureau of Mines

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 25 1951
LAURIE E. STROBEL
Executive Secretary

Sc. 157 Howard Street
Spokane 4, Washington

June 19, 1951

Memorandum

To: [illegible] Oisrenborn, Executive Officer, [illegible] Field Team, Region II

From: [illegible] Erickson, Mining Engineer, [illegible] - R. A. Christman, Geologist, [illegible] - Elton [illegible] Youngberg, Geologist, [illegible]

Subject: Report on Langer Mine [illegible] 25 [illegible], R. 10 [illegible], [illegible] 17 sec. 17, King Co., Washington - Owner: Frank [illegible] Langer, Fort Orchard, Washington

Recommendations:

The examining team recommends Frank [illegible] Langer's application for aid for exploration at the Langer mine be denied as there is no indication of a feasible exploration objective.

Summary of Field Investigation:

The field team was directed to the property by C. [illegible] Jones, Mining Engineer.

A 4-[illegible] adit has been driven into the northwest bank of Lemon Creek to a length [illegible] mostly mineralized zone exposed in the adit face about 20 feet [illegible]. The weakly mineralized structure above did not extend to the adit level as the drift was continued in hopes of finding a better zone. This failed so three diamond drill holes totaling 1,[illegible] feet were drilled at various angles from the face of the drift and along the adit. These holes encountered several more weak areas of mineralization and bleaching containing very minor amounts of pyrite and chalcopyrite. No structures were observed or are known which would serve as host for commercial mineralization. The weak character of the mineralization and the lack of fissures -ore in the shear zones indicates that commercial ore bodies are not likely to be found by continued drilling or crosscutting.

dma 1591 X

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

So. 157 Howard Street
Spokane 4, Washington

June 21, 1951

Mr. L. F. Strobel
Executive Secretary
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Strobel:

I am enclosing an application submitted by Frank E. Langer of Port Orchard, Washington for a copper-zinc-lead-antimony prospect in the Buena Vista Mining District, King County, Washington. On the basis of this report, the Field Team recommends that the application be denied.

The fourth copy of the docket, which was retained here, is forwarded herewith.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMA
Field Team, Region II

M. E. Volin, Member
U. S. Bureau of Mines

Enclosures

cc: U.S.B.M., Spokane

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 25 1951
LANDON F. SHROPSHIRE
Spokane Country

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Sc. 157 Howard Street
Spokane 4, Washington

June 19, 1951

Memorandum

To: A. E. Weissenborn, Executive Officer, DMA, Field Team, Region II

From: Eric G. Erickson, Mining Engineer, U.S.G.S. - R. A. Christman, Geologist, U.S.G.S. - Milton A. Youngberg, Geologist, U.S.G.S.

Subject: Report on Langer Mine T. 25 N., R. 10 E., W. 17 sec. 17, King Co., Washington - Owner: Frank F. Langer, Fort Orchard, Washington

Recommendations:

The examining team recommends Frank F. Langer's application for aid for exploration at the Langer mine be denied as there is no indication of a feasible exploration objective.

Summary of Field Investigation:

The field team was directed to the property be C. T. Van Gunde, Mining Engineer.

A 400 foot adit has been driven into the northwest bank of Lennox Creek to explore a weakly mineralized zone exposed in the cliff face about 20 feet above. The weakly mineralized structure above did not extend to the adit level so the drift was continued in hopes of disclosing another zone. This failed so three diamond drill holes totaling 1,000 feet were drilled at various angles from the face of the drift and along the adit. These holes encountered several very weak areas of silicification and bleaching containing very minor amounts of pyrite and chalcopyrite. No structures were observed or are known which would serve as host for commercial mineralization. The weak character of the mineralization and the lack of fissures -ore in the shear zones indicates that commercial ore bodies are not likely to be found by continued drilling or crosscutting.

FILE COPY
SURNAME:

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

June 18, 1951

Mr. Frank E. Langer
Port Orchard, Washington

Subject: DMA-1591X
Re: Exploration loan

My dear Mr. Langer:

Receipt is acknowledged of your application and attachments of May 29, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1591X and was referred to Mr. J. B. Gowen, Chief, Copper Branch on June 11, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1591X.

Sincerely yours,

LANDON F. STROBEL
(JEB)
Landon F. Strobel
Executive Secretary

LFSTROBEL:Jeb
cc: Strobel-2
Files
Gowen
Lyon

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 1591 X

Date received 6-5-51

Participation

Frank E. Langer

Port Orchard, Washington

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

Name and address of applicant

Date May 29, 1951

FILL IN THIS BLOCK

Date of application May 29, 1951

Estimated cost $ 25,500.00

Mineral or metal copper, zinc, lead, antimony

Percentage of Government participation

Location of mine Ptn. E 1/2 Sec. 13, T. 25 N., R. 9 E., W.M. and Secs. 15, 16, 17, 18, 19, 20, 21 and 22, T. 25 N., R. 10 E., W.M. lying E & W of Lennox River, in King Co. Wash. & Buena Vista Mining Dist.

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.

*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. See supplemental sheet No. 1

*5. Are you the owner or the lessee of the property? Owner by possessory rights

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

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

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. See Supplemental Sheet No. 1

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

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area. See Supplemental Sheet No. 1

*11. State the present and former names of the property, if any. Supplemental Sheet No. 1

*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. Supplemental Sheet No. 1

*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. Supplemental Sheet No. 2

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. Sup lemental Sheet No. 2

15. State in detail how the ore could be shipped and how and where milled. Supplemental Sheet No. 2

*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. Supplemental Sheet No. 2

(*b*) State briefly the known history and production of adjoining and neighboring properties. Supplemental Sheet No2

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. Sheet 2-contd. on S.S. No. 3.

*17. Production:

(*a*) If mine is in production, furnish the following information: Not in production

	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. Supplemental Sheet No. 3

(*b*) Submit available maps and assay data. " " No. 3

(*c*) Give estimated tonnage and grade of each class of ore reserves. No. 3

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

Supplemental Sheet No. 3

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? S.S. No. 3.

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

NOTE.—The Government will not participate in a project that will require more than 2 years to complete. S.S. No. 3.

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. S.S. No. 3.

THE REQUIREMENTS AND COSTS

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

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

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

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

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

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

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

(*i*) Cost of power, water, utilities, and any other items not provided for above. All on S.S. No. 3

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. S.S. No. 3 and No. 4.

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 Frank E. Lange (Signature of authorized official)
(Date)	Owner (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

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 1-

The Applicant

4. (a) General business experience- 3 yrs. on the property, study, investigation, exploration. Have employed engineers, prospectors, experienced miners.

(b) Expect to manage operation myself. Have access to experienced help, and expert advise.

8.

9.

The Property

10. Applicant is owner by possessory right, of a group of 20 claims upon which there has been driven a tunnel 5 x 7 ft. 400 ft. long, and 1000 ft. of core drilling, all having been done since Nov. 15, 1950. Project proposed to expand the information obtained from this work of 1950, and substantiate estimates as of present time.

(b) Area roughly portion of E 1/2 Sec. 13, T. 25 N., R. 9 E., W.M., Secs. 15, 16, 17, 18, 19, 20, 21 and 22, T. 25 N., R. 10 E., W.M., lying East and West of Lennox River and in King County, Washington, in Buena Vista Mining District. (½ section)

11.

Langer No. 1	Stock	Banker
Langer No. 2	Dodge	North Dakota
Langer No. 3	Stance	Senator
Jane	Frank	Atom
Helen	Hannah	Athea
Rolf	Plymouth	Atter
Olin	Vera	Ano
Prospector	Tamlin	Aloe
Margaret	Friend	El Do
Eddy	Goff	Ra Wa
Bill	Gab	La Do
Hattie	Now	Way
Harriett	Annie	High
Frank	Class	Mateo
Jim	Cliff	Lonnie
Clara	Drop	Taw
Ward	Hart	Real
Jack	Dan D.	Frid
Mary	Sheila	Sat
Henry	Evelyn	May
Madelyn	Ione	Lincoln
Pete	Ray	Lindy
John	Charles	San Mo.
Senator	Jacob	
Magician	Tommy	
Jane C.	Port Orchard	

12. Property is 33 miles northwesterly from North Bend, King County, Washington, in the Cascade Mountains. A mine to market road, well built and in excellent condition. Road traverses the property from northwest to southeast thru the approximate middle. Air compressor and machinery is being carried over the route, expeditiously. North Bend is shipping point via N.P.R.R. The property is more fully described as being ib Sections 15, 16, 17, 18, 19, 20, 21 & 22, T. 25 N., R. 10 E., W.M. and Sec. 13, T. 25 N., R. 9 E., W.M.

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 2.

The Property-contd.

13. Water supply is from the Lennox River and tributary creeks at intervals on the property. Amount available will be up to 100 c.f.s. if required. Electric power or diesel power, or both, would be used at this time according to the present plans.

14. A modern camp, with electric lights, hot and cold water, facilities for 6 men with extra cook's quarters, is available and belongs to the applicant. This camp is centrally located so that all parts of the property is readily accessible.

15. It is intended, and practical, to ship ore from the mine, via ore trucks, to cars on N.P.R.R. at North Bend, and by railroad to smelter at Tacoma, Washington, Spokane, Washington, or British Columbia smelters.

16. (a)The property, listed as lode locations, was first discovered in 1948. No prospecting had been(heretofore)done as far as known. An outcrop of zinc sulphide extends along a cliff some 20 feet high and approximately 400 feet long. It lays back from the river some 400 or 500 feet, behind a growth of hemlock and vine maple in the river bottom. The cliff is the bottom of the mountain rising northeasterly and offered no visible attraction to prospectors. The Bear Basin property, belonging to others and a well prospected property showing very good ore, and an extensive property of 25 claims had long been recognized as valuable. The strike across the Bear Basin property, S. 82°W. and lying to the east some 4 miles, lead to investigation on the Lennox River at the Langer No. 1 Claim, where first discovery was made. The exploratory work herein contemplated lies north, south, east and west from the Langer No. 1 Claim. The tunnel, driven in winter 1950-1951 lies at westerly end of Langer No. 1 Claim.
Exploration on the Langer No. 1 has been quite extensive and with very good results. It is intended to extend exploration over the area. Prospecting has revealed the veins to be substantially continuous. Cross cutting, core drilling, and tunnelling is necessary at this time to assemble data from which to determine the mining process of the property.

(b) The nearest producing property is the Sunset Mine some 15 miles north where copper was produced over a period of some 12 years, up to 1940, and where operation is resuming at present. Core drilling during summer of 1950 on the Sunset, blocked out in excess of 50,000 tons of excellent copper ore, which is the objective of the operation contemplated by them during 1951.
Howe Sound, Holden Mine, is some 35 miles east and north, and is in operation and production. The property for which this application is being made, was inaccessible until September 1951 when the mine to market road was constructed thru several claims of this group. Since the construction of this mine to market road there has been an increase in activity of mining effort. Some 6 or 8 properties are in process of being readied for development. No production has been possible heretofore because of lack of accessibility. Adjoingin on the west is the Lennox Mining and Development Co. property on which a tunnel has been driven 650 feet during the last 2 years, and on which, at present, core drilling is being done. This mine shows some very good assays and extensive outcropping.

(c) No written report is yet available. As a result of the tunnel work and core drilling during 1950, the mining engineer, Mr. C. F. Van Gunde, of Spokane, is now engaged in writing a report. He will continue his investigation

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 3.

The Property-contd.

16. (e) on thru 1951 with tunnelling and core drilling and other means of acquiring data which will be incorporated into the report.
Present knowledge of the property is such as to encourage continued investigation. Professor McMillin, head of College of Puget Sound (Tacoma) geology department, has reported on Bear Basin and refers to Langer No. 1 in his report, wherein he points to the indication of depth.

18 (a) The ore, so far opened up, shows copper, zinc, lead and some silver. Outcrops show manganese and a small amount of titanium.

(b) Maps not available at this time. Assays are not available owing to exclusive use in making up report.

(c) At this time, no estimate of tonnage or grade. It would only be a guess as area is too extensive. Work has been rushed and is in process, at present, on 17 of the northwesterly portion of the group.

19. So far, meager assays have shown 3 to 12% copper, 8% zinc, at times a 3% lead, with antimony in small amount. Other assays are not available altho the Mining Engineer is securing these assays at regular intervals, and at various locations on the property.

The Exploration

20. Copper, zinc, lead, with possibly a strike of antimony, are the metals expected to be found. It is expected that ore shoots off the main veins will be discovered. These appear to be present in a "budding" system.

21. The proposed work will consist of cross cutting the known veins extending across the entire property from east to west. Strike is S. 82°W. and N. 82°E. It is intended to do some core drilling along the surface, roughly, about 4000 lineal feet of core holes, at presently selected places. The cross cutting will require about 100 days. The core drilling will probably require 40 to 50 days.

22. The area lies in a zone of fracture and faulting surrounded by Granidiorite. The contacts show Quartzite with heavy sulphide deposits.

The Requirements and Costs

23. (a) Labor - 1 cook	@ $150.00 per mo.-3 mos.	$ 450.00
1 " helper	@ 100.00 " " 3 "	300.00
3 men on cross cuts 40 das. @ $36.00		1440.00
core drill crew - 2 men and machine 40 das. @ $400.00		16000.00
(b) Supervisor - 1 supervisor @ $750 per mo. - 3 mos.		2250.00
(c) None		
(d) None		
(e) None		
(f) Rental and camp supplies		1500.00
(g) None		
(h) Groceries and small tools		1000.00
(i) Tractor-20 das. @ $75.00		1500.00
Total		$ 25440.00

24. 1st. mo. - organization and start cross cutting 10 das.
assemble drill crew and move in 10 "

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 4.

The Requirements and Costs Contd.

24. 2nd mo. -	Crew on crosscutting	30 das.
	Drill crew	30 das.
3rd mo. -	Complete and move out	30 das.
Probable cost as above		$25,500.00

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 15918

Date received 6-5-51

Participation

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

Name and address of applicant

Frank E. Langer

Port Orchard, Washington

Date May 29, 1951

FILL IN THIS BLOCK

Date of application May 29, 1951

Estimated cost $ 25,500.00

Mineral or metal copper, zinc, lead, antimony

Percentage of Government participation

Location of mine Ptn. E 1/2 Sec. 13, T. 25 N., R. 9 E., W.M. and Secs. 15, 16, 17, 18, 19, 20, 21 and 22, T. 25 N., R. 10 E., W.M. lying E & W of Lennox River, in King Co. Wash. & Buena Vista Minind Dist.

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.

*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. See supplemental sheet No. 1

*5. Are you the owner or the lessee of the property? Owner by possessory rights

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

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

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. See Supplemental Sheet No. 1

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

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area. See Supplemental Sheet No. 1

*11. State the present and former names of the property, if any. Supplemental Sheet No. 1

*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. Supplemental Sheet No. 1

*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. Supplemental Sheet No. 2

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. Supplemental Sheet No. 2

15. State in detail how the ore could be shipped and how and where milled. Supplemental Sheet No. 2

*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. Supplemental Sheet No. 2

(*b*) State briefly the known history and production of adjoining and neighboring properties. Supplemental Sheet No2

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. Sheet 2-contd. on S.S. No. 3.

*17. Production:

(*a*) If mine is in production, furnish the following information: Not in production

	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. Supplemental Sheet No. 3

(*b*) Submit available maps and assay data. " " No. 3

(*c*) Give estimated tonnage and grade of each class of ore reserves. No. 3

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

Supplemental Sheet No. 3

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? S.S. No. 3.

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

NOTE.—The Government will not participate in a project that will require more than 2 years to complete. S.S. No. 3.

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. S.S. No. 3.

THE REQUIREMENTS AND COSTS

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

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

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

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

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

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

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

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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. S.S. No. 3 and No. 4.

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 Frank E Langer
(Signature of authorized official)

(Date)

Owner
(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

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 1-

The Applicant

4. (a) General business experience- 3 yrs. on the property, study, investigation, exploration. Have employed engineers, prospectors, experienced miners.

(b) Expect to manage operation myself. Have access to experienced help, and expert advice.

8.

9.

The Property

10. Applicant is owner by possessory right, of a group of 20 claims upon which there has been driven a tunnel 5 x 7 ft. 400 ft. long, and 1000 ft. of core drilling, all having been done since Nov. 15, 1950. Project proposed to expand the information obtained from this work of 1950, and substantiate estimates as of present time.

(b) Area roughly portion of E 1/2 Sec. 13, T. 25 N., R. 9 E., W.M., Secs. 15, 16, 17, 18, 19, 20, 21 and 22, T. 25 N., R. 10 E., W.M., lying East and West of Lennox River and in King County, Washington, in Buena Vista Mining District.

11.

Langer No. 1	Stock	Banker
Langer No. 2	Dodge	North Dakota
Langer No. 3	Stance	Senator
Jane	Frank	Atom
Helen	Hannah	Athea
Rolf	Plymouth	Attor
Olin	Vera	Ano
Prospector	Tamlin	Aloe
Margaret	Friend	El Do
Eddy	Goff	Ra Wa
Bill	Cab	La Do
Hattie	Now	Way
Harriett	Annie	High
Frank	Class	Mateo
Jim	Cliff	Lonnie
Clara	Drop	Taw
Ward	Hart	Real
Jack	Dan D.	Frid
Mary	Sheila	Sat
Henry	Evelyn	May
Madelyn	Ione	Lincoln
Pete	Ray	Lindy
John	Charles	San Mo.
Senator	Jacob	
Magician	Tommy	
Jane C.	Port Orchard	

12. Property is 33 miles northwesterly from North Bend, King County, Washington, in the Cascade Mountains. A mine to market road, well built and in excellent condition. Road traverses the property from northwest to southeast thru the approximate middle. Air compressor and machinery is being carried over the route, expeditiously. North Bend is shipping point via N.P.R.R. The property is more fully described as being ib Sections 15, 16, 17, 18, 19, 20, 21 & 22, T. 25 N., R. 10 E., W.M. and Sec. 13, T. 25 N., R. 9 E., W.M.

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 2.

The Property-contd.

13. Water supply is from the Lennox River and tributary creeks at intervals on the property. Amount available will be up to 100 c.f.s. if required. Electric power or diesel power, or both, would be used at this time according to the present plans.

14. A modern camp, with electric lights, hot and cold water, facilities for 6 men with extra cook's quarters, is available and belongs to the applicant. This camp is centrally located so that all parts of the property is readily accessible.

15. It is intended, and practical, to ship ore from the mine, via ore trucks, to cars on N.P.R.R. at North Bend, and by railroad to smelter at Tacoma, Washington, Spokane, Washington, or British Columbia smelters.

16. (a)The property, listed as lode locations, was first discovered in 1948. No prospecting had been(heretofore)done as far as known. An outcrop of zinc sulphide extends along a cliff some 20 feet high and approximately 400 feet long. It lays back from the river some 400 or 500 feet, behind a growth of hemlock and vine maple in the river bottom. The cliff is the bottom of the mountain rising northeasterly and offered no visible attraction to prospectors. The Bear Basin property, belonging to others and a well prospected property showing very good ore, and an extensive property of 25 claims had long been recognized as valuable. The strike across the Bear Basin property, S. 82°W. and lying to the east some 4 miles, lead to investigation on the Lennox River at the Langer No. 1 Claim, where first discovery was made. The exploratory work herein contemplated lies north, south, east and west from the Langer No. 1 Claim. The tunnel, driven in winter 1950-1951 lies at westerly end of Langer No. 1 Claim.
Exploration on the Langer No. 1 has been quite extensive and with very good results. It is intended to extend exploration over the area. Prospecting has revealed the veins to be substantially continuous. Cross cutting, core drilling, and tunnelling is necessary at this time to assemble data from which to determine the mining process of the property.

(b) The nearest producing property is the Sunset Mine some 15 miles north where copper was produced over a period of some 12 years, up to 1940, and where operation is resuming at present. Core drilling during summer of 1950 on the Sunset, blocked out in excess of 50,000 tons of excellent copper ore, which is the objective of the operation contemplated by them during 1951.
Howe Sound, Holden Mine, is some 35 miles east and north, and is in operation and production. The property for which this application is being made, was inaccessible until September 1951 when the mine to market road was constructed thru several claims of this group. Since the construction of this mine to market road there has been an increase in activity of mining effort. Some 6 or 8 properties are in process of being readied for development. No production has been possible heretofore because of lack of accessibility. Adjoingin on the west is the Lennox Mining and Development Co. property on which a tunnel has been driven 650 feet during the last 2 years, and on which, at present, core drilling is being done. This mine shows some very good assays and extensive outcropping.

(c) No written report is yet available. As a result of the tunnel work and core drilling during 1950, the mining engineer, Mr. C. F. Van Gunde, of Spokane, is now engaged in writing a report. He will continue his investigation

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 3.

The Property-contd.

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Present knowledge of the property is such as to encourage continued investigation. Professor McMillin, head of College of Puget Sound (Tacoma) geology department, has reported on Bear Basin and refers to Langer No. 1 in his report, wherein he points to the indication of depth.

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The Exploration

20. Copper, zinc, lead, with possibly a strike of antimony, are the metals expected to be found. It is expected that ore shoots off the main veins will be discovered. These appear to be present in a "budding" system.

21. The proposed work will consist of cross cutting the known veins extending across the entire property from east to west. Strike is S. 82°W. and N. 82°E. It is intended to do some core drilling along the surface, roughly, about 4000 lineal feet of core holes, at presently selected places. The cross cutting will rrequire about 100 days. The core drilling will probably require 40 to 50 days.

22. The area lies in a zone of fracture and faulting surrounded by Granidiorite. The contacts show Quartzite with heavy sulphide deposits.

The Requirements and Costs

23. (a) Labor - 1 cook	@ $150.00 per mo.-3 mos.	$ 450.00	
1 " helper	@ 100.00 " " 3 "	300.00	
3 men on cross cuts	40 das. @ $36.00	1440.00	
core drill crew - 2 men and machine	40 das. @ $400.00	16000.00	
(b) Supervisor - 1 supervisor @ $750 per mo. - 3 mos.		2250.00	
(c) None			
(d) None			
(e) None			
(f) Rental and camp supplies		1500.00	
(g) None			
(h) Groceries and small tools		1000.00	
(i) Tractor-20 das. @ $75.00		1500.00	
	Total	$ 25440.00	
24. 1st. mo. - organization and start cross cutting			10 das.
assemble drill crew and move in			10 "

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 4.

The Requirements and Costs contd.

24. 2nd mo. -	Crew on crosscutting	30 das.
	Drill crew	30 das.
3rd mo. -	Complete and move out	30 das.
Probable cost as above		$25,500.00

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 1591 X

Date received 6-5-51

Participation

Frank E. Langer

Port Orchard, Washington

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

Name and address of applicant

Date May 29, 1951

FILL IN THIS BLOCK

Date of application May 29, 1951

Estimated cost $ 25,500.00

Mineral or metal copper, zinc, lead, antimony

Percentage of Government participation

Location of mine Ptn. E 1/2 Sec. 13, T. 25 N., R. 9 E., W.M. and Secs. 15, 16, 17, 18, 19, 20, 21 and 22, T. 25 N., R. 10 E., W.M. lying E & W of Lennox River, in King Co. Wash. & Buena Vista Minind Dist.

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.

*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. See supplemental sheet No. 1

*5. Are you the owner or the lessee of the property? Owner by possessory rights

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

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

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. See Supplemental Sheet No. 1

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

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area. See Supplemental Sheet No. 1

*11. State the present and former names of the property, if any. Supplemental Sheet No. 1

*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. Supplemental Sheet No. 1

*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. Supplemental Sheet No. 2

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. Supplemental Sheet No. 2

15. State in detail how the ore could be shipped and how and where milled. Supplemental Sheet No. 2

*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. Supplemental Sheet No. 2

(*b*) State briefly the known history and production of adjoining and neighboring properties. Supplemental Sheet No2.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. Sheet 2-contd. on S.S. No. 3.

*17. Production:

(*a*) If mine is in production, furnish the following information: Not in production

	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. Supplemental Sheet No. 3

(*b*) Submit available maps and assay data. " " No. 3

(*c*) Give estimated tonnage and grade of each class of ore reserves. No. 3

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

Supplemental Sheet No. 3

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? S.S. No. 3.

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

NOTE.—The Government will not participate in a project that will require more than 2 years to complete. S.S. No. 3.

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. S.S. No. 3.

THE REQUIREMENTS AND COSTS

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

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

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

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

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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. S.S. No. 3 and No. 4.

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 Frank E. Langer (Signature of authorized official)
(Date)	Owner (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

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 1-

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Prospector	Tamlin	Aloe
Margaret	Friend	El Do
Eddy	Goff	Ra Wa
Bill	Cab	La Do
Hattie	Now	Way
Harriett	Annie	High
Frank	Class	Mateo
Jim	Cliff	Lonnie
Clara	Drop	Taw
Ward	Hart	Real
Jack	Dan D.	Frid
Mary	Sheila	Sat
Henry	Evelyn	May
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12. Property is 33 miles northwesterly from North Bend, King County, Washington, in the Cascade Mountains. A mine to market road, well built and in excellent condition. Road traverses the property from northwest to southeast thru the approximate middle. Air compressor and machinery is being carried over the route, expeditiously. North Bend is shipping point via N.P.R.R. The property is more fully described as being ib Sections 15, 16, 17, 18, 19, 20, 21 & 22, T. 25 N., R. 10 E., W.M. and Sec. 13, T. 25 N., R. 9 E., W.M.

Frank E. Langer-Port Orchard, Wash.
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The Requirements and Costs

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	3 men on cross cuts	40 das. @ $36.00	1440.00
	core drill crew - 2 men and machine	40 das. @ $400.00	16000.00
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(c)	None		
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(f)	Rental and camp supplies		1500.00
(g)	None		
(h)	Groceries and small tools		1000.00
(i)	Tractor-20 das. @ $75.00		1500.00
		Total	$ 25440.00

24. 1st. mo. - organization and start cross cutting 10 das.
assemble drill crew and move in 10 "

Frank E. Langer-Port Orchard, Wash.
Supplemental Sheet No. 4.

The Requirements and Costs contd.

24. 2nd mo. -	Crew on crosscutting	30 das.
	Drill crew	30 das.
3rd mo. -	Complete and move out	30 das.
Probable cost as above		$25,500.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

No. 157 Howard Street
Spokane, Washington

June 1, 1951

Mr. L. F. Strobel
Executive Secretary
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Strobel:

Enclosed herewith are three copies of Form MF-103, submitted by Frank G. Langer, Fort Orchard, Washington, for an exploration contract.

One copy of the application is being retained in this office to facilitate early field examination.

Sincerely yours,

A. A. Eisenborn
Executive Officer, DMA
Field Team, Region II

Enclosures

cc: A. A. Volin

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
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June 1, 1951

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Department of the Interior
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DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 5-1951
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Enclosures

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6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1591X

Commodity COPPER - ZINC, LEAD, ANTIMONY

Total Amount $25,500.00

Govt. Participation $13,750.00

1. Name and Address of Applicant FRANK E. LANGER
PORT ORCHARD, WASHINGTON

2. Location of Property PTN. E1/2 SEC 13, T25N, R9E, WM, and SECS 15, 16, 17, 18, 19, 20, 21 & 22 T25N, R10E, WM lying E & W of LENNOR RIVER, KING COUNTY WASHINGTON

3. Mineral or metal COPPER ZINC LEAD ANTIMONY 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

c) None ✓ - recommendation of field team

Stop Here! >>>

d) Don't know—needs field examination

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

5. Is the applicant's right to the property clearly stated? YES - OWNER
(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

7. Are subordination agreements necessary? No

a) MF-201? —

b) MF-202 —

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

a) Available manpower Yes

b) Equipment and supplies Does not list equipment
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? ~~Yes Check on equipment.~~ No

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

Is a field check needed on this point? No

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

a) Is the project adequately described? No

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

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

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

If not, what part of it is?

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? YES

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

e) Are the cost estimates reasonable? YES except Supervision

f) Should more information be requested from applicant? No

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

11. Exhibit B (question 23-d)*

a) Is it applicable? No

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

c) Is a field check needed? No

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

a) Is it applicable? only f. is applicable.

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

c) Are rents and charges reasonable? Can't tell - not stemmed

d) Is a field check needed? ~~YES~~ No

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

a) Are there sufficient data? YES

b) Is the schedule adequate for the work proposed? Can't tell - no footage or crosscuts or drillingprogram.

c) Is the schedule excessive for the work proposed? same as above.

d) Are the proposed wages and salaries reasonable? Supervision is HIGH

e) Is a field check needed? ~~YES.~~ No

EXHIBIT A

The ground work will consist of cross cutting the known focus extending across the entire property from east to west. Core drilling will be done about 4000 linear feet from holes at previously selected sites.

LABOR	$18,190.00
SUPERVISOR 750 per Mo	2250.00
RENTAL & CAMP SUPPLIES	1500.00
GROCERIES & SMALL TOOLS	1000.00
TRACTOR @ $75.00 for 20 DAYS	1500.00
TOTAL	$24440.00

EXHIBIT C

f. RENTAL & CAMP SUPPLIES	$1500.00
TRACTOR - 20 DAYS @ $75.00	$1500.00
h. GROCERIES & SMALL TOOLS	1000.00
TOTAL	$4000.00

EXIBIT D.

1 COOK @ $150.00/Mo. FOR 3 Mos	$450.00
1" HELPER @ $100.00 for 3 Mos.	300.00
3 MEN ON CROSS CUTS 40 DAYS @ $36.00	1440.00
CORE DRILL CREW - 2 MEN & MACHINE 40 DAYS @ $400.00	16000.00
TOTAL	$18,190.00
SUPERVISOR @ 750/Mo for 3 Mos.	2250.00
	$20440.00

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data? —

c) Reasonable? —

d) Field check needed? No

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

(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? Field Team does not recommend this property. Denial recommended

Reviewed by: R. Waugh
D.E. MacKaren
C.H. Johnson

Date

97692

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1591X

Commodity Copper-Zinc, Lead, Antimony

Total Amount 25,500.00

Govt. Participation 13,750.00

1. Name and Address of Applicant FRANK E. LANGER
PORT ORCHARD, WASHINGTON

2. Location of Property PTN. E½ SEC. 13, T 25N, R 9E, WM, and SECS 15, 16, 17, 18, 19, 20, 21 & 22 T 25N, R 10E, WM lying E & W of LENNOX RIVER, KING COUNTY WASHINGTON

3. Mineral or metal Copper Zinc Lead Antimony 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

c) None ✓ Recommendation of Field Engr.

d) Don't know—needs field examination

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

5. Is the applicant's right to the property clearly stated? Yes - Owner
(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

7. Are subordination agreements necessary? No

a) MF-201? –

b) MF-202 –

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

a) Available manpower Yes

b) Equipment and supplies Does not list equipment
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? ~~Yes if [illegible]~~ No

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

Is a field check needed on this point? No

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

a) Is the project adequately described? No

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

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

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

If not, what part of it is?

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? Yes

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

e) Are the cost estimates reasonable? Yes [illegible]

f) Should more information be requested from applicant? No

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

11. Exhibit B (question 23-d)*

a) Is it applicable? No

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

c) Is a field check needed? No

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

a) Is it applicable? [illegible]

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

c) Are rents and charges reasonable? Can't tell - [illegible]

d) Is a field check needed? ~~Yes~~ No

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

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? [illegible] Can't tell - [illegible]

c) Is the schedule excessive for the work proposed? [illegible]

d) Are the proposed wages and salaries reasonable? Supervisor & High

e) Is a field check needed? ~~Yes~~ No

EXHIBIT A

The proposed work will consist of cross cutting the known veins extending across the property from east to west. Core drilling will be done about 400 lineal feet from holes at previously selected holes.

LABOR	$18,140.00
SUPERVISOR 750 per Mo	2250.00
RENTAL & CAMP SUPPLIES	1500.00
GROCERIES & SMALL TOOLS	1000.00
TRACTOR @ $75.00 for 20 DAYS	1500.00
TOTAL	$24440.00

EXHIBIT C

f. RENTAL & CAMP SUPPLIES	$1500.00
TRACTOR - 20 DAYS @ $75.00	$1500.00
h. GROCERIES & SMALL TOOLS	1000.00
TOTAL	$4000.00

EXIBIT D.

1 COOK @ $150.00/Mo FOR 3 Mos	$450.00
1" HELPER @ $100.00 for 3 Mos.	300.00
3 MEN ON CROSS CUTS 40 DAYS @ $36.00	4440.00
1 ORE DRILL CREW - 2 MEN & MACHINE 40 DAYS @ $400.00	16,000.00
TOTAL	$18,190.00
SUPERVISOR @ 750/Mo for 3 Mos.	2250.00
	$20440.00

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data? –

c) Reasonable? –

d) Field check needed? No

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

(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? Field Team has not recommended this property. ~~Rec~~ Denial recommended

Reviewed by: [illegible]

D B Mackson

Date

97692