FILE COPY
SURNAME:

Gowen
Lyon
Stuart 6/22

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

June 20, 1951

Hon. Mike Mansfield
House of Representatives
Washington 25, D. C.

Dear Mike:

This is in acknowledgment and reply to your letter of June 5, 1951 concerning the application of Mr. Howard F. Courtney, 326 W. Alabama Street, Butte, Montana for Government Aid for an Exploration Project.

A study of Mr. Courtney's application has disclosed an apparent misunderstanding of the Regulations Governing Government Aid in Defense Exploration Projects.

A copy of Mr. Lyon's letter to Mr. Courtney is enclosed herewith.

Sincerely yours,

JAMES BOYD

Administrator

JBG

Enclosure

JBGowen:ba

Copy to A. E. Wiessenborn, South 157 Howard Street, Spokane, Washington, W.C.I.
Executive Secretary, W.C.I.
Administrator's Reading File
Deputy Administrator, W. C. I.
Copper Commodity Committee, W.C.I.
Mr. Lyon
Mr. MacLaren
F i l e s

FILE COPY
SURNAME:

Gowen

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

June 20, 1951

Re: Docket No. DMA-1592X

Mr. Edward F. Courtney
326 N. Alabama Street
Butte, Montana

Dear Mr. Courtney:

Your application for Aid for an Exploration Project has been referred to the Copper Branch of the Defense Minerals Administration for consideration.

We are sorry to inform you that from a study of your application there appears to have been a misunderstanding of the Regulations governing Government Aid in Defense Exploration Projects as set forth in MD-5, a marked copy of which is enclosed.

It will be noted that according to Section 10, "The operator shall devote the land and all existing improvements, facilities, buildings, installations and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof."

Under Section 13, (d) second paragraph is stated "No items of general overhead, corporate management, interest, or any other indirect costs not expressly allowed by these regulations, or work performed or costs incurred before the date of the contract, shall be allowed as costs of the project in which the Government will participate."

In your application you have requested that the Government accept mine workings costing $150,000 as your share of the cost of the project, and that the Government match this amount in cash. You also state that the applicant has no funds available for the project.

Under the regulations, your application for Government aid cannot be approved and must be therefore regretfully denied.

Very truly yours,

Tom Lyon

Tom Lyon, Director
Supply Division

Enclosure
JBGowen:pf

Copy to: Executive Officer, DMA Field Team, Region II, South 157 Howard St, Spokane, Wash.
Executive Secretary
Copper Branch, Room 2522
Mr. Lyon
Mr. McClaren
Congressman Mike Mansfield
Files

Dura 1592

MIKE MANSFIELD
1ST DISTRICT, MONTANA

Bowen

COMMITTEE:
FOREIGN AFFAIRS

Congress of the United States
House of Representatives
Washington, D. C.

Ans. 6/20/51
Bowen

June 5, 1951.

Ans'd 6/29/51
JBB:ma

Mr Bowen
Dma - 1592 X

Mr. James Boyd, Administrator,
Defense Minerals Administration.

Dear Jim:

Mr. Edward Courtney of 326 N. Alabama Street, Butte, Montana has sent in his application for a mining loan.

I would appreciate it very much if you would check into this application and let me know what action is being taken on it.

Thanking you for your assistance and with best personal wishes, I am

Sincerely yours,

Mike Mansfield

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 11 1951
LANDON F. STROBEL
Executive Secretary

BUREAU OF MINES
MAIL ROOM
WASHINGTON, D. C.

JUN 6 1 09 PM '51

MIKE MANSFIELD
1ST DISTRICT, MONTANA

COMMITTEE:
FOREIGN AFFAIRS

Congress of the United States
House of Representatives
Washington, D. C.

June 5, 1951.

6/11/51
Bowers-
Lyly-Boyd

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Defense Minerals Administration.

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Mike Mansfield

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

FILE COPY
SURNAME:

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

June 20, 1951

Mr. Edward F. Courtney
326 N. Alabama Street
Butte, Montana

Subject: DMA-1592X
Re: Exploration Loan
Shorty, Addition, and
Lulu claims

My dear Mr. Courtney:

Receipt is acknowledged of your application and attachments of May 31, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1592X 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-1592X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
>Files
Lyon
Gowen

a. E. C. -

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

June 20, 1951

Memorandum

To: Executive Secretary

Through: Director, Supply Division

From: Acting Chief, Copper Branch

Subject: Docket DMA-1592X, Application for Exploration Aid, Edward F. Courtney, 326, North Alabama Street, Butte, Montana, Shorty, Addition, and Lulu Mining Claims.

Applicant states that "work done already on the property is to apply for operators share of cost, 2,675 linear feet of development plus stoping and surface cuts, road, etc. has been done. Operators have no money available."

Acceptance of work already done in lieu of applicant's share of an exploration project is contrary to Regulations MO-5. Therefore, denial is recommended.

The complete file on this case is transmitted herewith.

J. B. Gowen

J. B. Gowen, Acting Chief
Copper Branch, DMA

Enclosures

OK
Tom Lyon

FILE COPY
SURNAME:

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

June 20, 1951

Memorandum

To: Executive Secretary

Through: Director, Supply Division

From: Acting Chief, Copper Branch

Subject: Docket DMA-1592X, Application for Exploration Aid, Edward F. Courtney, 326, North Alabama Street, Butte, Montana, Shorty, Addition, and Lulu Mining Claims.

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Tom Lyon

J. B. Gowen, Acting Chief
Copper Branch, DMA

Enclosures

A. E. Wiessenborn, South 157 ~~XXXXXX~~Howard Street, Spokane, Washington
Copper Branch
Mr. Lyon
Mr. MacLaren
Files

DMA 1592

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 1592 X

Date received 6-5-51

Participation

EDWARD F. COU RTNEY et.al
326 N. Alabama St.
BUTTE, MONTANA

Name and address of applicant

Date May 31, 1951

FILL IN THIS BLOCK

Date of application May 31, 1951

Estimated cost $300,000.00

Mineral or metal Copper

Percentage of Government participation 50% Not o: Owners share is in lieu of 2400 Lin. Ft. of Drifts, 200 lin ft. raises & 75 ft of shafts already on property.

Location of mine 4 miles SE of Butte, Mont.

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? Partnership

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

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. does not apply

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

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

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. does not apply

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. None

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)? See enclosure

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

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

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. **Shorty, Addition, & Lulu/Lode Mining Claims**

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

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

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

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

*16. History: **see enclosu re**

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

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

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production: **Not operating**

(*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.) **s ee enclosure**

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

(*b*) Submit available maps and assay data.

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

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? **Copper ore in fissure veins**

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

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

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

THE REQUIREMENTS AND COSTS

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

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

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

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

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

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

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

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

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

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

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. **Refer t o enclosure to question #21.**

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 E. R. Courtney (Signature of authorized official)
5/21/51 (Date)	Part-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

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

4. The project will be under the supervision and management of Edward F. Courtney, one of the owners. He is a graduate of Montana State School of Mines, class of 1919, degree, E. M. He has had more than 30 years experience in the mining industry, and has filled positions in that industry from the lowest to the highest. His father's hobby was prospecting, and Mr. Courtney spent his youth learning how to run a wheelbarrow, and how to "point" holes with hand steel, or with an auger. He worked for the Anaconda Copper Mining Company at Butte for more than 20 years in capacities ranging from that of miner, surveyor and on up to assistant foreman(this job compares with thatof assistant superintendent in most camps.) He voluntarily left the employ of the ACM Company in 1942 to accept a "duration" job with the U.S. Bureau of Mines in the MPSD division. He personally examined and wrote reports on most of the metal mines, smelters, and affiliated facilities in Montana, and is the co-author With John A. Johnson of Information Circular 7356, and also of an article that was published in the Mining Congress Journal, issue of June 1945. He worked as mine clerk, and his duties as assistant foreman included preparing cost-estimates for mining operations, outlining mining procedures, and general management of a section of a large copper mine. On day shift he supervised the activites of about 300 men, and on night shift he was in full charge of the operation which employed nearly 700 men. He has spent several years working at manganese properties at Philipsburg, Montana and spent about a year's time at a phosphate operation at Garrison and Avon Montana as engineer and safety engineer. During his career with the ACM Company he worked as miner, mining engineer(surveyor), shift-boss andsafety and ventilation engineer, in addition to those positions stated above. He is thoroughly conversant with the geology of the Butte district, having lived there all his life, and having studied the various formations in co nection with his underground and surface work.

He graduated from a High School commercial course, worked as an office manager for a construction company in 1948-9 and is currently employed as an engineer with the Montana State Water Conservation Board in Helena, Montana.

While employed at the Montana Phosphate Products Company at Garrison Montana, he designed an air-operated shaft-pocket gate.

He is thoroughly competent to undertake the operation of this Project.

2. If a part nership, st ate names and addresses of partners.
Edward F. Courtney -326 N Alabama St. -Butte, Montana
E.Mildred Philips- Box M - Sweetgrass, Montana
H. M. Courtney - Box 422 - Grass Valley, Calif.
Julia E. Courtney- deceased - E.F.Courtney is administrator and has power of attorney.

9. How much money is the applicant prepared to invest in proposed project? etc-

Work done already on the property is to apply for operators share of cost. 2,675 lin feet of development plus stoping and surface cuts, roads etc. has been done. Operators have no money availab le.

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

(a) There are three claims, the Shorty, Addition, & Lulu pat ented lode mining claims, comprising approximately 55.8 acres and having a 2970 lineal foot length along the st rike of the known existing veins. See plan map & section.
(b) For a complete description of each claim, refer to the General Land Office, Helena Mont ana #0680 entered into record Dec.16, 1908 and Pat ent #81205 and Survey #8851. The area of the three claims is described as follows:- B eginning at the NW corner of the Shorty Lode Mining Claim from which the ¼Section corner on the S boundary line of the Section 28 T3N R7W bears N17°58'E a distance of 1389.1 feet, thence S88°18'E a distance of 1508.9 feet t o a point which is t he NE corner of t he Shorty claim, t hence N18°51'E a distance of 48.5 feet to a point which is the NW corner of the Addition claim, thence N89°10'E a distance of 1500.0 feet to a point which is the NE corner of the Addition claim, t hence S18°51'W for a distance of 628.7 feet t o the SE corner of the Addition claim, t hence S86°51'E 23.2 feet t o t he NE corner of the Lulu claim, t hence S4°59'E a distance of 610.0 feet to a point which is the SE corner of the Lulu claim, t hence N84°53'W a dist ance of 1500.0 feet to the SW corner of the Lulu claim, t hence N4°59'W a dist ance of 549.2 feet t o a point which is the SW corner of the Addition claim, thence S87°28'W a distance of 1502.6 feet to a point which is the SW corner of the Shorty claim, thence N11°13'W a distance of 85.0 feet and t hence N18°51'E a distance of 501.5 feet to point of beginning.

12. St ate 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.

T he property is located about 4 miles sout h of Meaderville, a suburb of Butte, Montana at the base of the mountains on t he east side of Summit Valley and West of the Continental fault. The Northern Pacific Railway passes just west of the end line common t o the Addition & Shorty claims. An oil surfaced highway passes about 0.1 mile west of the west end line of the Shorty claim. All 3 claims are accessible by roads or roads may be constructed readily.

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

Constant flow of water from lowest tunnel on Shorty claim approximates 20 gal/m in which is sufficient for all operations. Shaft sinking

will in all probability greatly increase this flow as work progresses. 300 HP (200 pk ld) electric power from t he Montana Power Co. shall be sufficient for all operations, heat and power.

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

Two smelters are available for shipping ore to, the Anaconda smelter at Anaconda, Montana- and the US smelting & refining Co at Helena, Montana. Ore could be trucked on improved roads to the Washoe Sampler about 4 miles distant. Existing RR spurs are within about two miles from the property. Smelters at Anaconda and Helena are about 25 and 70 miles distant from Butte, so freight rates should be low. A railroad being across the property would mean a low cost for installation of loading bins on the property.

16. History: (a)Give a statement of previous exploration, development, operation, & production of property with reasons for suspensions. (b) State history & production of neighboring & adjoining properties. (c) Furnish any private reports that may apply to investigations.

(a) Gold & Silver bearing siliceous ore containing about 1/3% copper was mined thru surface tunnels on the Shorty and Addition claims in the oxidized portions of the veins.More than 400 tons of ore was shipped during the periods; 1904&1905 -1913 to 1916 and 1932 to 1935. Shipment records after 1913 showed values ranging as follows, ½ to 2 oz. of gold per ton, 3 to 30 oz. of silver per ton, 7 to 19% iron, 60 t o 85% silica, 0.1 t o 0.4% copper. Records of large shipments during 1904 and 1905 are not available, the ore being shipped to smelters now not in existence.

(b) No records are available of ore shipments from adjoingng claims. The Pittsmont Mine, which has produced millions, lies to the North approximately 1½ miles, and the main Butte district, the record of which is well known, adjoins the Pittsmont (East Butte Mining Co) on the West.

(c) None available. It is a general acceptance of fact the the Shorty & Addition Veins are a series of strong East-West veins and thot to be the same as those exposed on the West side of Summit Valley about 2 miles distant and undeveloped.

18. (a) Describe the ore or mineral deposits briefly. (b) Submit available maps and assay data. (c) Give estimated tonnage & ore reserves.

No work of importance has been done on the Lulu claim, but is included in the application as Diamond Drilling can be done to determine if any veins south exist. Both t hatshorty and Addition veins are fissure veins. The host rock is granite and aplite. The veins occur in t he aplite at or near the contact of the granite and t he aplit e dikes that dip about 50° to the west. Characteristics are thesame as the major East-West Butte system of veins and geologists agree that these veins doubtless belong to t hat system. Similarily these veins occur west of the "Continental" fault as do the veins on t he Butte Hill. The continental fault crosses the east end of the Addit ion claim. A NW fault cuts the shorty vein near the east end of the claim and shows clearly in the RR cut on surface. The Addition vein is fault ed at a point about 300 feet from the portal of a tunnel or about 700 feet from the shorty fault showing in the RR

Vein materials that has been commercially mined has been from the oxidized portions of the veins only, which probably extends to a 40 foot more or less depth on the Shorty claim and to about a 100 foot dept h more or less on the Addition claim. Mining widths averaged about 3 t o 6 feet on the Addition and H.J. Courtney of Philipsburg, Mont. reports about 5 t o 18 foot mining widths on the Shorty claim while mining t here in 1904 and 1905. Quartz, pyrite, and and chalcopyrite constitut e the primary mineralization of both veins. Secondary chalcocite that occurs as a film on pyrite grains account for the copper in the oxidized zone.

18 (b) Assay maps were not kept. Surveys on the Addition claim are fairly accurate, on the Shorty claim "sketchy". Geology shown on maps is surface geology.

(c) As most of the workings are caved and inaccesible, it is impossible to estimate ore reserves.

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

An example may be cited that copper was found about 1½ miles North of the Addition claim in a surface cut during highway construction. It is now being commercially mined and developed.

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

Exploration will be conducted as follows: (A). Extend lower tunnel on Shorty claim 300 to 500 feet to determine best location for shaft. Time-3 months. (B)Install surface plant for sinking, possibly on North side of Shorty vein. Time - 1 month. (C). Sink shaft 1500 feet in depth, crosscutting, diamond drilling to vein, and drifting on veins at regular depth intervals, simultaneously as work progresses. Time - 18 months. (D). Complete Diamond Drilling program etc. from bottom level. Time - 2 months.
T OTAL TIME OF PROJECT # - 2 years.

22 Furnish statement why expecting to find commercial ore bodies etc.

T he vein structures on t hese claims are strong, and characteristic of the main Butte structure which lie to the north. Copper was not predominant until depth was reached. There has been no deep development south of the Butte Hill. Veins on the "Timber Butte" hill which is 2 miles more or less west are structurally similiar indicating length and continuity similiar to the Butte Hill veins. These have not been prospected for depth either. Proximity to the continental fault of the Shorty & Addition Veins gives belief that this is the best place to sink for depth as some of the richest ore bodies in Butte lie immediately west of this fault, and the west end of the district tends to decrease in copper and increase in zinc content. Best indicative copper assays from surface shipments of oxidized zone lie closer to the continental fault also.

23. (a) Tabulate estimated cost of project by the following classes.
(a)Labor by numbers & classes, with wages of each.
6 contract drift miners-2000 lin ft dr & xc @$10.00
[illegible] cost of powder & steel $20,000.00

23 a cont'd 9 contract shaft miners - 1500 ft shaft @ $30.00 per ft incld cost powder & steel $45,000.00
3-hoistmen @ $15.00/day, 3-skilled mech. @ $15.00/day
2-laborers @ $12.50/day t ot -660 day @$115/day 69,900.00
2 t o 6 diamond drill runners & helpers on contract @ $2.00/ft. inclds cost of diamonds 15,000 ft drill 30,000.00
Tot for (a) $ 154,000.00

(b) supervisors
1-Manager, Supt. & Foreman @ $10,000.00/yr $20,000.00
3-Shiftbosses for operating @ $5,000.00/yr 30,000.00
1-Consulting geologist engineer @$5,000/yr(part t ime 10,000.00
Tot for (b) $60,000.00

(c) Repairs do not apply

(d) Installations, buildings etc.
Buildings, office, dry, warehouse, shops, etc.
2000 sq ft @ $7.50/sq ft. $15,000.00
Furnishing, heating, plumb ing etc for above 2,500.00
Compressor & Hoist House 4,000.00
Tot for (d) $21,500.00

(e) Items of equipment over $50.00
Headframe, Main Hoist, & Compressors $20,000.00
Underground sinking hoist-and pumps 9,000.00
6-Jackhammers & attachments to drifting 3,750.00
6-Mine Cars & Mancha Motor 2,250.00
1-pickup aut o truck for service 2,000.00
1-1½ ton auto truck 3,500.00
Tot for (e) $40,000.00

(f) Rentals
Do not plan to rant except possibly bulldozer for surface cuts & construction work.

(g) Rentals owned by owners - Does not apply

(h) Materials & Supplies (less than$50.00 each)
350,000 bd ft lumber for shaft @ $40.00/M $14,200.00
6,000 fir for guides @$200.00/M 1,200.00
15 ton Mine Rail 5,000.00
15 ton Pipe 5,600.00
Small tools & Misc supplies 8,000.00
Tot for (h) $34,000.00

(i) Power- 300 HP electric
Peak ld of 200 HP @ $5.00/HP month (tot for i) $24,000.00

MISC: Engnr work to outline project with manager, consulting geologist, & gov't supervisors. 1,000.00

GRAND TOTAL $334,500.00

Note:- The salvage value of equipment will reduce total to much less than $300,000.00

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 1592 X

Date received 6-5-51

Participation

EDWARD F. COU RTNEY et.al
326 N. Alabama St.
BUTTE, MONTANA

Name and address of applicant

Date May 31, 1951

FILL IN THIS BLOCK

Date of application May 31, 1951

Estimated cost $300,000.00

Mineral or metal Copper

Percentage of Government participation 50% Not ex Owners share is in lieu of 2400 Lin. Ft. of Drifts, 200 lin ft. raises & 75 ft of shafts already on property.

Location of mine 4 miles SE of Butte, Mont.

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? Partnership

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

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. does not apply

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

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

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. does not apply

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. None

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)? see enclosure

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

16—64067-1

THE PROPERTY

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

    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. Lode Shorty, Addition,& Lulu/Mining Claims
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. see enclosure
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source. see enclosure
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. None
15. State in detail how the ore could be shipped and how and where milled. see enclosure
*16. History: see enclosu re
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production: Not operating
    (*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.) s ee enclosure
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
see enclosure

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Copper ore in fissure veins
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. see enclosure
    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. see enclosure & maps

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows: see encl.
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. Refer t o enclosure to question #21.

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 E H Courtney (Signature of authorized official)
5/31/51 (Date)	Part 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

the applicant, (b) the person or persons who will manage the project .

4. The project will be under the supervision and management of Edward F. Courtney, one of the owners. He is a graduate of Montana State School of Mines, class of 1919, degree, E. M. He has had more than 30 years experience in the mining industry, and has filled positions in that industry from the lowest to the highest. His Father's hobby was prospecting, and Mr. Courtney spent his youth learning how to run a wheelbarrow, and how to "point" holes with hand steel, or with an auger. He worked for the Anaconda Copper Mining Company at Butte for more than 20 years in capacities ranging from that of miner, surveyor and on up to assistant foreman(this job compares with that of assistant superintendent in most camps.) He voluntarily left the employ of the ACM Company in 1942 to accept a "duration" job with the U.S. Bureau of Mines in the MPSD division. He personally examined and wrote reports on most of the metal mines, smelters, and affiliated facilities in Montana, and is the co-author With John A. Johnson of Information Circular 7356, and also of an article that was published in the Mining Congress Journal, issue of June 1945. He worked as mine clerk, and his duties as assistant foreman included preparing cost-estimates for mining operations, outlining mining procedures, and general management of a section of a large copper mine. On day shift he supervised the activites of about 500 men, and on night shift he was in full charge of the operation which employed nearly 700 men. He has spent several years working at manganese properties at Philipsburg, Montana and spent about a year's time at a phosphate operation at Garrison and Avon Montana as engineer and safety engineer. During his career with the ACM Company he worked as miner, mining engineer(surveyor), shift-boss andsafety and ventilation engineer, in addition to those positions stated above. He is thoroughly conversant with the geology of the Butte district, having lived there all his life, and having studied the various formations in connection with his underground and surface work.

He graduated from a High School commercial course, worked as an office manager for a construction company in 1948-9 and is currently employed as an engineer with the Montana State Water Conservation Board in Helena, Montana.

While employed at the Montana Phosphate Products Company at Garrison Montana, he designed an air-operated shaft-pocket gate.

He is thoroughly competent to undertake the operation of this Project.

2. If a part nership, st ate names and addresses of partners.
Edward F. Courtney -326 N Alabama St. -Butte, Montana
E.Mildred Philips- Box M - Sweetgrass, Montana
H. M. Courtney - Box 422 - Grass Valley, Calif.
Julia E. Courtney- deceased - E.F.Courtney is administrator and has power of attorney.

9. How much money is the applicant prepared to invest in proposed project? etc-

Work done already on the property is to apply for operators share of cost. 2,675 lin feet of development plus stoping and surface cuts, roads etc. has been done. Operators have no money availab le.

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

(a) There are three claims, the Shorty, Addition, & Lulu pat ented lode mining claims, comprising approximately 55.8 acres and having a 2970 lineal foot length along the st rike of the known existing veins. See plan map & section.
(b) For a complete description of each claim, refer to the General Land Office, Helena Mont ana #0680 entered into record Dec.16, 1908 and Pat ent #81205 and Survey #8851. The area of the three claims is described as follows:- B eginning at the NW corner of the Shorty Lode Mining Claim from which the ¼Section corner on the S boundary line of the Section 28 T3N R7W bears N17°58'W a distance of 1389.1 feet, thence S88°18'E a distance of 1508.9 feet t o a point which is t he NE corner of t he Shorty claim, t hence N18°51'E a distance of 48.5 feet to a point which is the NW corner of the Addition claim, thence N89°10'E a distance of 1500.0 feet to a point which is the NE corner of the Addition claim, t hence S18°51IW for a distance of 628.7 feet t o the SE corner of the Addition claim, t hence S86°51'E 23.2 feet t o t he NE corner of the Lulu claim, t hence S4°59'E a distance of 610.0 feet to a point which is the SE corner of the Lulu claim, t hence N84°33'W a dist ance of 1500.0 feet to the SW corner of the Lulu claim, t hence N4°59'W a dist ance of 549.2 feet t o a point which is the SW corner of the Addition claim, thence S87°28'W a distance of 1502.6 feet to a point which is the SW corner of the Shorty claim, thence N11°13'W a distance of 85.0 feet and t hence N18°51'E a distance of 501.5 feet to point of beginning.

12. St ate 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.

T he property is located about 4 miles sout h of Meaderville, a suburb of Butte, Montana at the base of the mountains on t he east side of Summit Valley and West of the Continental fault. The Northern Pacific Railway passes just west of the end line common t o the Addition & Shorty claims. An oil surfaced highway passes about 0.1 mile west of the west end line of the Shorty claim. All 3 claims are accessible by roads or roads may be constructed readily.

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

Constant flow of water from lowest tunnel on Shorty claim approximates 20 gal/m in which is sufficient for all operations. Shaft sinking

will in all probability greatly increase this flow as work progresses. 300 HP (200 pk ld) electric power from t he Montana Power Co. shall be sufficient for all operations, heat and power.

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

Two smelters are available for shipping ore to, the Anaconda smelter at Anaconda, Montana- and the US smelting & refining Co at Helena, Montana. Ore could be trucked on improved roads to the Washoe Sampler about 4 miles distant. Existing RR spurs are within about two miles from the property. Smelters at Anaconda and Helena are about 25 and 70 miles distant from Butte, so freight rates should be low. A railroad being across the property would mean a low cost for installation of loading bins on the property.

16. History: (a)Give a statement of previous exploration, development, operation, & production of property with reasons for suspensions. (b) State history & production of neighboring & adjoining properties. (c) Furnish any private reports that may apply to investigations.

(a) Gold & Silver bearing siliceous ore containing about 1/3% copper was mined thru surface tunnels on the Shorty and Addition claims in the oxidized portions of the veins.More than 400 tons of ore was shipped during the periods; 1904&1905 -1913 to 1916 and 1932 to 1935. Shipment records after 1913 showed values ranging as follows, ½ to 2 oz. of gold per ton, 3 to 30 oz. of silver per ton, 7 to 19% iron, 60 t o 85% silica, 0.1 t o 0.4% copper. Records of large shipments during 1904 and 1905 are not available, the ore being shipped to smelters now not in existence.

(b) No records are available of ore shipments from adjoining claims. The Pittsmont Mine, which has produced millions, lies to the North approximately 1½ miles, and the main Butte district, the record of which is well known, adjoins the Pittsmont (East Butte Mining Co) on the West.

(c) None available. It is a general acceptance of fact the the Shorty & Addition Veins are a series of strong East-West veins and thot to be the same as those exposed on the West side of Summit Valley about 2 miles distant and undeveloped.

18. (a) Describe the ore or mineral deposits briefly. (b) Submit available maps and assay data. (c) Give estimated tonnage & ore reserves.

No work of importance has been done on the Lulu claim, but is included in the application as Diamond Drilling can be done to determine if any veins south exist. Both t hatshorty and Addition veins are fissure veins. The host rock is granite and aplite. The veins occur in t he aplite at or near the contact of the granite and t he aplite dikes that dip about 30° to the west. Characteristics are thesame as the major East-West Butte system of veins and geologists agree that these veins doubtless belong to t hat system. Similarily these veins occur west of the "Continental" fault as do the veins on t he Butte Hill. The continental fault crosses the east end of the Addit ion claim. A NW fault cuts the shorty vein near the east end of the claim and shows clearly in the RR cut on surface. The Addition vein is fault ed at a point about 300 feet from the portal of a tunnel or about 700 feet from the shorty fault showing in the RR cut

Vein materials that has been commercially mined has been from the oxidized portions of the veins only, which probably extends to a 40 foot more or less depth on the Shorty claim and to about a 100 foot dept h more or less on the Addition claim. Mining widths averaged about 3 t o 6 feet on the Addition and H.J. Courtney of Philipsburg, Mon. reports about 5 t o 18 foot mining widths on the Shorty claim while mining t here in 1904 and 1905. Quartz, pyrite, and and chalcopyrite constitut e the primary mineralization of both veins. Secondary chalcocite that occurs as a film on pyrite grains account for the copper in the oxidized zone.

18 (b) Assay maps were not kept. Surveys on the Addition claim are fairly accurate, on the Shorty claim "sketchy". Geology shown on maps is surface geology.

(c) As most of the workings are caved and inaccesible, it is impossible to estimate ore reserves.

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

An example may be cited that copper was found about 1½ miles North of the Addition claim in a surface cut during highway construction. It is now being commercially mined and developed.

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

Exploration will be conducted as follows: (A). Extend lower tunnel on Shorty claim 300 to 500 feet to determine best location for shaft. Time-3 months. (B)Install surface plant for sinking, possibly on North side of Shorty vein. Time - 1 month. (C). Sink shaft 1500 feet in depth, crosscutting, diamond drilling to vein, and drifting on veins at regular depth intervals, simultaneously as work progresses. Time - 18 months. (D). Complete Diamond Drilling program etc. from bottom level. Time - 2 months.
T OTAL TIME OF PROJECT * - 2 years.

22 Furnish statement why expecting to find commercial ore bodies etc.

T he vein structures on t hese claims are strong, and characteristic of the main Butte structure which lie to the north. Copper was not predominant until depth was reached. There has been no deep development south of the Butte Hill. Veins on the "Timber Butte" hill which is 2 miles more or less west are structurally similiar indicating length and continuity similiar to the Butte Hill veins. These have not been prospected for depth either. Proximity to the continental fault of the Shorty & Addition Veins gives belief that this is the best place to sink for depth as some of the richest ore bodies in Butte lie immediately west of this fault, and the west end of the district tends to decrease in copper and increase in zinc content. Best indicative copper assays from surface shipments of oxidized zone lie closer to the continental fault also.

23. (a) Tabulate estimated cost of project by the following classes.
(a)Labor by numbers & classes, with wages of each.
6 contract drift miners-2000 lin ft dr & xc @$10.00 per ft incld.cost of powder & steel $20,000.00

23 a cont'd 9 contract shaft miners - 1500 ft shaft @ $30.00 per ft incld cost powder & steel $45,000.00
3-hoistmen @ $15.00/day,3-skilled mech. @ $15.00/day
2-laborers @ $12.50/day t ot -600 day @$115/day 69,000.00
2 t o 6 diamond drill runners & helpers on contract
@ $2.00/ft. inclds cost of diamonds 15,000 ft drill 30,000.00
Tot for (a) $ 164,000.00

(b) supervisors
1-Manager, Supt. & Foreman @ $10,000.00/yr $20,000.00
3-Shiftbosses for operating @ $5,000.00/yr 30,000.00
1-Consulting geologist engineer @$5,000/yr(part t ime 10,000.00
Tot for (b) $60,000.00

(c) Repairs do not apply

(d) Installations, buildings etc.
Buildings, office, dry, warehouse, shops, etc.
2000 sq ft @ $7.50/sq ft. $15,000.00
Furnishing, heating, plumb ing etc for above 2,500.00
Compressor & Hoist House 4,000.00
Tot for (d) $21,500.00

(e) Items of equipment over $50.00
Headframe, Main Hoist, & Compressors $20,000.00
Underground sinking hoist-and pumps 9,000.00
6-Jackhammers & attachments to drifting 3,750.00
6-Mine Cars & Mancha Motor 2,250.00
1-pickup aut o truck for service 2,000.00
1-1½ ton auto truck 3,500.00
Tot for (e) $40,000.00

(f) Rentals
Do not plan to rent except possibly bulldozer for surface cuts & construction work.

(g) Rentals owned by owners - Does not apply

(h) Materials & Supplies (less than$50.00 each)
350,000 bd ft lumber for shaft @ $40.00/M $14,200.00
6,000 fir for guides @$200.00/M 1,200.00
15 ton Mine Rail 5,000.00
15 ton Pipe 5,600.00
Small tools & Misc supplies 8,000.00
Tot for (h) $34,000.00

(i) Power- 300 HP electric
Peak ld of 200 HP @ $5.00/HP month (tot for i) $24,000.00

MISC: Engnr work to outline project with manager, consulting geologist, & gov't supervisors. 1,000.00

GRAND TOTAL $334,500.00

Note:- The salvage value of equipment will reduce total to much less than $300,000.00

April 4, 1951

Hon. Mike Mansfield
House of Representatives
Washington 25, D. C.

Dear Mike:

Enclosed you will find a copy of a letter which I have just written to Mr. Ed Courtney, regarding mining loans.

I am always glad of an opportunity to do anything I can for you.

Sincerely yours,

JAMES BOW

Administrator

Enclosure

TLyon/ad

cc: Administrator
Deputy Administrator
Executive Secretary
Exec. Officer, FieldTeam, Region II
Mr. Lyon
Files

April 4, 1951

Mr. Ed Courtney
326 N. Alabama Street
Butte, Montana

Dear Mr. Courtney:

At the request of the Hon. Mike Mansfield, we are sending you two press releases, one of which is dated December 5, 1950, describing a loan plan for producing ore, etc.; the other one, dated February 20, describes the exploration program.

If you will let us know which of these programs you have in mind, we will be glad to furnish you with the necessary application blanks.

Very truly yours,

Administrator

Enclosure 2

TLyon/ad

cc: Administrator
Deputy Administrator
Executive Secretary
Exec.Officer, Field Team, Region II
Mr. Lyon
Files

MIKE MANSFIELD
1st District, Montana

[illegible]
[illegible]
Foreign Affairs

Congress of the United States
House of Representatives
Washington, D. C.

March 28, 1951.

APR - 3 1951
Mr. Boyd
Reply

Mr. James Boyd, Director,
Defense Minerals Administration,
Interior Department.

Dear Jim:

I am enclosing letter I received from Mr. Ed Courtney and after you have read this over, I would appreciate your sending Mr. Courtney the necessary information relative to the mining leases under the defense program.

Would you return his letter after it has served its purpose.

Thanking you and with best personal wishes, I am

Sincerely yours,

Mike Mansfield

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR - 3 1951
LANDON F. STROBEL
Executive Secretary

I haven't returned to work yet but my next week.

326 N. Alabama St
Butte Montana
Feb. 20 1951

Dear Mike:

John is pretty busy these days so I am writing for him to thank you for the donation to the Boys' Central Record. The team played in Kalispell last night & lost 24-61. He (Roy, the coach) didn't start John - but put him in in the first quarter after Kalispell was ahead 15 to 1. He played the remainder of the game. The team play at Missoula tonight.

I have been reading the newspapers & listening to the radio on the U.S. & the world situation particularly the draft of 18-year-old boys. John was 18 on Jan. 27, and as Jimmy knows we have been planning all along on John going to college. I believe he has [illegible] in mind. He has between [illegible] money available for [illegible] a [illegible] and also he was [illegible] the money [illegible] intend [illegible] has had. At [illegible] thigh [illegible] & [illegible] necessary [illegible] operate [illegible] & then [illegible] time he [illegible] now his [illegible]

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR - 3 1951
LANDON F. STROBEL
Executive Secretary

lower jaw" goes out of joint and has to be reset by someone who knows how to do it. A few years ago he had a stomach attack for about a week + every time he vomited the jaws kept coming out. The first time it happened his mother took him to the hospital. He was no sooner home than out they went again. Then Every time that happened Elizabeth set the jaws herself. Yesterday morning (Feb. 9, 1951) when John arose, he yawned + his jaws dislocated. His mother reset it and a few minutes later out it went again so she had to reset it again. He is helpless when that occurs + can't reset the jaw himself. He is unable to talk then also. I pray that he may be elected to attend college. He is a bright boy + a good student, also he is well-behaved and hasn't caused us, or anyone else that we know of, any trouble.

There is another matter that I've read about recently and that is the newspaper articles concerning the R.F.C. [illegible] years now any other or [illegible] and I have been trying to receive aid in opening up the [illegible] some mining claims [illegible] mining engineer [illegible] these claims [illegible] mineral possibilities [illegible] point to [illegible] in the copper [illegible] of the so-called

DEPARTMENT OF THE INTERIOR
Defense Materials Administration
RECEIVED
APR - 3 1951
LANDON F. STROBEL
Executive Secretary

Continental fault. In 1946, or thereabout,
applied to the Reconstruction Finance Corporation
for a small loan so that the vein may be
investigated. This was handled through the
Helena office and a man named
Joel Heisler made the investigation. He
in [illegible] of our conversation that
[illegible] him I would receive the
[illegible] old workings were inaccessible
[illegible] satisfactory samples, and
[illegible] C. who made the final
[illegible] property but were guided
[illegible] returns. [illegible] the late
[illegible] I did some work but couldn't
[illegible] because of physical and
[illegible] Heisler took a sample
[illegible] gosh sake, but a representative
[illegible] obtained at that spot.
[illegible] I believe he still is,
[illegible] state [illegible] (quartz) with
[illegible]
[illegible] Mr. Heisler had
[illegible] domestic manganese
[illegible] obtained from Cobalt

DEPARTMENT OF THE INTERIOR
Bureau of Land Management
RECEIVED
APR - 3 1951
LANDON F. STROBEL
Executive Secretary

familiar with that property ~~and~~ to some extent
for I had been there ~~only to~~ some
during World War II with an engineer
Frank Belina, where the Bureau of
Mining Division was supervising drilling
diamond drill holes at or near the
vein. My information was that the drilling
did not reveal any commercial ore. Also
I visited the Tsarina mine in my official
later when I was working with the Bureau
of Mines, Safety Division; this was after
shaft had been rehabilitated & drifting
done on the vein. I did not see
of commercial ore, and I was not familiar with
manganese (psilomelane) in both the
Butte and Philipsburg districts.

Mr. Heinz [illegible] answered my question
to the effect that the officials in the
Helena Office [illegible] recommended that
a loan be [illegible] the D. M. & D. Co
to explore the [illegible] mine, but these
recommendations [illegible] and the loan was
granted by [illegible] Office. Our mines
have not been [illegible] sulfide zone, but even
the oxidized [illegible] carbonate copper. Copper is,
I understand [illegible] not understand how
one [illegible] belief can obtain
[illegible] you & the family &
[illegible] Ed Hartney

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR - 31951
LANDON F. STROBEL
Executive Secretary

Form MF-103
(April 1951)

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 1592 X

Date received 6-5-51

Participation

EDWARD F. COU RTNEY et.al
326 N. Alabama St.
BUTTE, MONTANA

Name and address of applicant

Date May 31, 1951

FILL IN THIS BLOCK

Date of application May 31, 1951

Estimated cost $300,000.00

Mineral or metal Copper

Percentage of Government participation 50% Not as Owners share is in lieu of 2400 Lin. Ft. of Drifts, 200 lin ft. raises & 75 ft of shafts already on property.

Location of mine 4 miles SE of Butte, Mont.

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. does not apply

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

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

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. does not apply

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. None

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)? see enclosure

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

16—64067-1

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10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

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

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. Lode Shorty, Addition,& Lulu/Mining Claims

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

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

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

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

*16. History: see enclosu re

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

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

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production: Not operating

(*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.) s ee enclosure

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

(*b*) Submit available maps and assay data.

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

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

see enclosure

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Copper ore in fissure veins

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

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

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

THE REQUIREMENTS AND COSTS

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

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

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

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

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

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

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

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

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

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

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. Refer t o enclosure to question #21.

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 E. H. Courtney
(Signature of authorized official)

5/31/51
(Date)

Part 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.

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

4. The project will be under the supervision and management of Edward F. Courtney, one of the owners. He is a graduate of Montana State School of Mines, class of 1919, degree, E. M. He has had more than 30 years experience in the mining industry, and has filled positions in that industry from the lowest to the highest. His father's hobby was prospecting, and Mr. Courtney spent his youth learning how to run a wheelbarrow, and how to "point" holes with hand steel, or with an auger. He worked for the Anaconda Copper Mining Company at Butte for more than 20 years in capacities ranging from that of miner, surveyor and on up to assistant foreman(this job compares with that of assistant superintendent in most camps.) He voluntarily left the employ of the ACM Company in 1942 to accept a "duration" job with the U.S. Bureau of Mines in the MPSD division. He personally examined and wrote reports on most of the metal mines, smelters, and affiliated facilities in Montana, and is the co-author With John A. Johnson of Information Circular 7356, and also of an article that was published in the Mining Congress Journal, issue of June 1945. He worked as mine clerk, and his duties as assistant foreman included preparing cost-estimates for mining operations, outlining mining procedures, and general management of a section of a large copper mine. On day shift he supervised the activites of about 300 men, and on night shift he was in full charge of the operation which employed nearly 700 men. He has spent several years working at manganese properties at Philipsburg, Montana and spent about a year's time at a phosphate operation at Garrison and Avon Montana as engineer and safety engineer. During his career with the ACM Company he worked as miner, mining engineer(surveyor), shift-boss andsafety and ventilation engineer, in addition to those positions stated above. He is thoroughly conversant with the geology of the Butte district, having lived there all his life, and having studied the various formations in co nection with his underground and surface work.

He graduated from a High School commercial course, worked as an office manager for a construction company in 1948-9 and is currently employed as an engineer with the Montana State Water Conservation Board in Helena, Montana.

While employed at the Montana Phosphate Products Company at Garrison Montana, he designed an air-operated shaft-pocket gate.

He is thoroughly competent to undertake the operation of this Project.

2. If a part nership, st ate names and addresses of partners.
Edward F. Courtney -326 N Alabama St. -Butte, Montana
E.Mildred Philips- Box M - Sweetgrass, Montana
H. M. Courtney - Box 422 - Grass Valley, Calif.
Julia E. Courtney- deceased - E.F.Courtney is administrator and has power of attorney.

9. How much money is the applicant prepared to invest in proposed project? etc-

Work done already on the property is to apply for operators share of cost. 2,675 lin feet of development plus stoping and surface cuts, roads etc. has been done. Operators have no money availab le.

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

(a) There are three claims, the Shorty, Addition, & Lulu pat ented lode mining claims, comprising approximately 55.8 acres and having a 2970 lineal feet length along the st rike of the known existing veins. See plan map & section.
(b) For a complete description of each claim, refer to the General Land Office, Helena Mont ana #0680 entered into record Dec.16, 1908 and Pat ent #81205 and Survey #8851. The area of the three claims is described as follows:- B eginning at the NW corner of the Shorty Lode Mining Claim from which the ¼Section corner on the S boundary line of the Section 28 T3N R7W bears N17°58'W a distance of 1389.1 feet, thence S88°18'E a distance of 1508.9 feet t o a point which is t he NE corner of t he Shorty claim, t hence N18°51'E a distance of 48.5 feet to a point which is the NW corner of the Addition claim, thence N89°10'E a distance of 1500.0 feet to a point which is the NE corner of the Addition claim, t hence S18°51'W for a distance of 628.7 feet t o the SE corner of the Addition claim, t hence S86°51'E 23.2 feet t o t he NE corner of the Lulu claim, t hence S4°59'E a distance of 610.0 feet to a point which is the SE corner of the Lulu claim, t hence N84°33'W a dist ance of 1500.0 feet to the SW corner of the Lulu claim, t hence N4°59'W a dist ance of 549.2 feet t o a point which is the SW corner of the Addition claim, thence S87°28'W a distance of 1502.6 feet to a point which is the SW corner of the Shorty claim, thence N11°13'W a distance of 85.0 feet and t hence N18°51'E a distance of 501.5 feet to point of beginning.

12. St ate 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.

T he property is located about 4 miles sout h of Meaderville, a suburb of Butte, Montana at the base of the mountains on t he east side of Summit Valley and West of the Continental fault. The Northern Pacific Railway passes just west of the end line common t o the Addition & Shorty claims. An oil surfaced highway passes about 0.1 mile west of the west end line of the Shorty claim. All 3 claims are accessible by roads or roads may be constructed readily.

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

Constant flow of water from lowest tunnel on Shorty claim approximates 20 gal/m in which is sufficient for all operations. Shaft sinking

will in all probability greatly increase this flow as work progresses. 300 HP (200 pk ld) electric power from t he Montana Power Co. shall be sufficient for all operations, heat and power.

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

Two smelters are available for shipping ore to, the Anaconda smelter at Anaconda, Montana- and the US smelting & refining Co at Helena, Montana. Ore could be trucked on improved roads to the Washoe Sampler about 4 miles distant. Existing RR spurs are within about two miles from the property. Smelters at Anaconda and Helena are about 25 and 70 miles distant from Butte, so freight rates should be low. A railroad being across the property would mean a low cost for installation of loading bins on the property.

16. History: (a)Give a statement of previous exploration, development, operation, & production of property with reasons for suspensions. (b) State history & production of neighboring & adjoining properties. (c) Furnish any private reports that may apply to investigations.

(a) Gold & Silver bearing siliceous ore containing about 1/3% copper was mined thru surface tunnels on the Shorty and Addition claims in the oxidized portions of the veins.More than 400 tons of ore was shipped during the periods; 1904&1905 -1913 to 1916 and 1932 to 1935. Shipment records after 1913 showed values ranging as follows, ½ to 2 oz. of gold per ton, 3 to 30 oz. of silver per ton, 7 to 19% iron, 60 t o 85% silica, 0.1 t o 0.4% copper. Records of large shipments during 1904 and 1905 are not available, the ore being shipped to smelters now not in existence.

(b) No records are available of ore shipments from adjoining claims. The Pittsmont Mine, which has produced millions, lies to the North approximately 1½ miles, and the main Butte district, the record of which is well known, adjoins the Pittsmont (East Butte Mining Co) on the West.

(c) None available. It is a general acceptance of fact the the Shorty & Addition Veins are a series of strong East-West veins and thot to be the same as those exposed on the West side of Summit Valley about 2 miles distant and undeveloped.

18. (a) Describe the ore or mineral deposits briefly. (b) Submit available maps and assay data. (c) Give estimated tonnage & ore reserves.

No work of importance has been done on the Lulu claim, but is included in the application as Diamond Drilling can be done to determine if any veins south exist. Both t hatshorty and Addition veins are fissure veins. The host rock is granite and aplite. The veins occur in t he aplite at or near the contact of the granite and t he aplit e dikes that dip about 30° to the west. Characteristics are thesame as the major East-West Butte system of veins and geologists agree that these veins doubtless belong to t hat system. Similarily these veins occur west of the "Continental" fault as do the veins on t he Butte Hill. The continental fault crosses the east end of the Addit ion claim. A NW fault cuts the shorty vein near the east end of the claim and shows clearly in the RR cut on surface. The Addition vein is faulted at a point about 300 feet from the portal of a tunnel or about 700 feet from the shorty fault showing in the RR cut.

Vein materials that has been commercially mined has been from the oxidized portions of the veins only, which probably extends to a 40 foot more or less depth on the Shorty claim and to about a 100 foot dept h more or less on the Addition claim. Mining widths averaged about 3 t o 6 feet on the Addition and H.J. Courtney of Philipsburg Mon. reports about 5 t o 18 foot mining widths on the Shorty claim while mining t here in 1904 and 1905. Quartz, pyrite, and and chalcopyrite constitut e the primary mineralization of both veins. Secondary chalcocite that occurs as a film on pyrite grains account for the copper in the oxidized zone.

18 (b) Assay maps were not kept. Surveys on the Addition claim are fairly accurate, on the Shorty claim "sketchy". Geology shown on maps is surface geology.

(c) As most of the workings are caved and inaccesible, it is impossible to estimate ore reserves.

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

An example may be cited that copper was found about 1½ miles North of the Addition claim in a surface cut during highway construction. It is now being commercially mined and developed.

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

Exploration will be conducted as follows: (A). Extend lower tunnel on Shorty claim 300 to 500 feet to determine best location for shaft. Time-3 months. (B)Install surface plant for sinking, possibly on North side of Shorty vein. Time - 1 month. (C). Sink shaft 1500 feet in depth, crosscutting, diamond drilling to vein, and drifting on veins at regular depth intervals, simultaneously as work progresses. Time - 18 months. (D). Complete Diamond Drilling program etc. from bottom level. Time - 2 months.
T OTAL TIME OF PROJECT * - 2 years.

22 Furnish statement why expecting to find commercial ore bodies etc.

T he vein structures on t hese claims are strong, and characteristic of the main Butte structure which lie to the north. Copper was not predominant until depth was reached. There has been no deep development south of the Butte Hill. Veins on the "Timber Butte" hill which is 2 miles more or less west are structurally similiar indicating length and continuity similiar to the Butte Hill veins. These have not been prospected for depth either. Proximity to the continental fault of the Shorty & Addition Veins gives belief that this is the best place to sink for depth as some of the richest ore bodies in Butte lie immediately west of this fault, and the west end of the district tends to decrease in copper and increase in zinc content. Best indicative copper assays from surface shipments of oxidized zone lie closer to the continental fault also.

23. (a) Tabulate estimated cost of project by the following classes.
(a)Labor by numbers & classes, with wages of each.
6 contract drift miners-2000 lin ft dr & xc @$10.00
per ft incld.cost of powder & steel $20,000.00

23 a cont'd 9 contract shaft miners - 1500 ft shaft @ $30.00 per ft incld cost powder & steel $45,000.00
3-hoistmen @ $15.00/day, 3-skilled mech. @ $15.00/day
2-laborers @ $12.50/day t ot -660 day @$115/day 69,000.00
2 t o 6 diamond drill runners & helpers on contract @ $2.00/ft. inclds cost of diamonds 15,000 ft drill 30,000.00
Tot for (a) $ 164,000.00

(b) supervisors
1-Manager, Supt. & Foreman @ $10,000.00/yr $20,000.00
3-Shiftbosses for operating @ $5,000.00/yr 30,000.00
1-Consulting geologist engineer @$5,000/yr(part t ime 10,000.00
Tot for (b) $60,000.00

(c) Repairs do not apply

(d) Installations, buildings etc.
Buildings, office, dry, warehouse, shops, etc.
2000 sq ft @ $7.50/sq ft. $15,000.00
Furnishing, heating, plumb ing etc for above 2,500.00
Compressor & Hoist House 4,000.00
Tot for (d) $21,500.00

(e) Items of equipment over $50.00
Headframe, Main Hoist, & Compressors $20,000.00
Underground sinking hoist-and pumps 9,000.00
6-Jackhammers & attachments to drifting 3,750.00
6-Mine Cars & Mancha Motor 2,250.00
1-pickup aut o truck for service 2,000.00
1-1½ ton auto truck 3,500.00
Tot for (e) $40,000.00

(f) Rentals
Do not plan to rent except possibly bulldozer for surface cuts & construction work.

(g) Rentals owned by owners - Does not apply

(h) Materials & Supplies (less than$50.00 each)
350,000 bd ft lumber for shaft @ $40.00/M $14,200.00
6,000 fir for guides @$200.00/M 1,200.00
15 ton Mine Rail 5,000.00
15 ton Pipe 5,600.00
Small tools & Misc supplies 8,000.00
Tot for (h) $34,000.00

(i) Power- 300 HP electric
Peak ld of 200 HP @ $5.00/HP month (tot for i) $24,000.00

MISC: Engnr work to outline project with manager, consulting geologist, & gov't supervisors. 1,000.00

GRAND TOTAL $334,500.00

Note:- The salvage value of equipment will reduce total to much less than $300,000.00

McDowell Co., Billings, Mont.
B. E. Calkins Co., Butte, Mont.
McKee Stationery Co., Great Falls, Mont.

Know All Men By These Presents:

THAT Julia E. Courtney

have made, constituted and appointed, and by these presents do make, constitute and appoint

Edward F. Courtney

her *true and lawful Attorney for* her *and in* her *name, place and stead*

to transact any and all business in relation to those certain mining claims or premises known as the Shorty, Addition, and Lulu Lode Mining Claims, designated by the Surveyor General as Survey No. 8851, embracing a portion of Township Three North of Range Seven West of the Montana Meridian, in the County of Silver Bow, and State of Montana; to make, execute, and deliver any deed or conveyance necessary to transfer my interest in any and/or all of the above designated mining claims. And to make any conveyance, quittance, receipt, or any other property necessary to carrying out any contract, agreement, or other document entered into by myself to and with any person whatsoever, in relation to the above designated mining claims or premises known as the Shorty, Addition, and Lulu Lode Mining Claims, designated by the Surveyor General as Survey No. 8851.

giving and granting unto him said Attorney Edward F. Courtney full power and authority to do and perform all and every act and thing whatsoever requisite and necessary to be done in and about the premises as fully to all intents and purposes, as I might or could do if personally present, hereby ratifying and confirming all that my said Attorney Edward F. Courtney shall lawfully do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this day of A. D. one thousand nine hundred and

Signed, Sealed and Delivered in the Presence of

Katherine B. Hall

Humphrey M. Courtney

Julia E. Courtney (SEAL)

(SEAL)

(SEAL)

STATE OF ~~XXXXXXXXX~~ California

County of Nevada } ss.

On this 29 day of April nineteen hundred and 48 before me Charles L. Allan a Notary Public in and for the State of ~~Montana~~ California, personally appeared Julia E. Courtney

known to me to be the person whose name subscribed to the within instrument, and acknowledged to me that she executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year in this certificate above written.

Chas L Allan

Notary Public for the State of ~~XXXXXXX~~ Notary Public in and for the County of Nevada, State of California

Residing at Grass Valley, California

My commission expires Sept 7 1948

Power of Attorney

TO

Edward F. Courtney

STATE OF MONTANA, } ss.

County of

Filed and recorded on the

day of A. D. 19

at o'clock M., in Book

of page

County Recorder.

Deputy Recorder.

Recorded Vol 18 Page 1

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 1592X

Date received 6-5-51

Participation

EDWARD F. COU RTNEY et.al
326 N. Alabama St.
BUTTE, MONTANA

Name and address of applicant

Date May 31, 1951

FILL IN THIS BLOCK

Date of application May 31, 1951

Estimated cost $300,000.00

Mineral or metal Copper

Percentage of Government participation 50% Not e: Owners share is in lieu of 2400 Lin. Ft. of Drifts, 200 lin ft. raises & 75 ft of shafts already on property.

Location of mine 4 miles SE of Butte, Mont.

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? Partnership

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

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. does not apply

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

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

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. does not apply

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. None

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)? see enclosure

*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 enclosure

(*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. Lode

*11. State the present and former names of the property, if any. Shorty, Addition,& Lulu/Mining Claims

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

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

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

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

*16. History: see enclosu re

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

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

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

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

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

(*b*) Submit available maps and assay data.

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

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

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20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Copper ore in fissure veins

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

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

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(*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.

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(*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. Refer t o enclosure to question #21.

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.

S/ (Name of company) — By E. G. Courtney (Signature of authorized official)

8/31/51 (Date) — Part 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

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

4. The project will be under the supervision and management of Edward F. Courtney, one of the owners. He is a graduate of Montana State School of Mines, class of 1919, degree, E. M. He has had more than 30 years experience in the mining industry, and has filled positions in that industry from the lowest to the highest. His father's hobby was prospecting, and Mr. Courtney spent his youth learning how to run a wheelbarrow, and how to "point" holes with hand steel, or with an auger. He worked for the Anaconda Copper Mining Company at Butte for more than 20 years in capacities ranging from that of miner, surveyor and on up to assistant foreman(this job compares with that of assistant superintendent in most camps.) He voluntarily left the employ of the ACM Company in 1942 to accept a "duration" job with the U.S. Bureau of Mines in the MPSD division. He personally examined and wrote reports on most of the metal mines, smelters, and affiliated facilities in Montana, and is the co-author with John A. Johnson of Information Circular 7356, and also of an article that was published in the Mining Congress Journal, issue of June 1945. He worked as mine clerk, and his duties as assistant foreman included preparing cost-estimates for mining operations, outlining mining procedures, and general management of a section of a large copper mine. On day shift he supervised the activites of about 300 men, and on night shift he was in full charge of the operation which employed nearly 700 men. He has spent several years working at manganese properties at Philipsburg, Montana and spent about a year's time at a phosphate operation at Garrison and Avon Montana as engineer and safety engineer. During his career with the ACM Company he worked as miner, mining engineer(surveyor), shift-boss andsafety and ventilation engineer, in addition to those positions stated above. He is thoroughly conversant with the geology of the Butte district, having lived there all his life, and having studied the various formations in connection with his underground and surface work.

He graduated from a High School commercial course, worked as an office manager for a construction company in 1948-9 and is currently employed as an engineer with the Montana State Water Conservation Board in Helena, Montana.

While employed at the Montana Phosphate Products Company at Garrison Montana, he designed an air-operated shaft-pocket gate.

He is thoroughly competent to undertake the operation of this Project.

2. If a partnership, state names and addresses of partners.
Edward F. Courtney -326 N Alabama St. -Butte, Montana
E.Mildred Philips- Box M - Sweetgrass, Montana
H. M. Courtney - Box 422 - Grass Valley, Calif.
Julia E. Courtney- deceased - E.F.Courtney is administrator and has power of attorney.

9. How much money is the applicant prepared to invest in proposed project? etc-

Work done already on the property is to apply for operators share of cost. 2,675 lin feet of development plus stoping and surface cuts, roads etc. has been done. Operators have no money availab le.

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

(a) There are three claims, the Shorty, Addition, & Lulu pat ented lode mining claims, comprising approximately 55.8 acres and having a 2970 lineal foot length along the st rike of the known existing veins. See plan map & section.
(b) For a complete description of each claim, refer to the General Land Office, Helena Mont ana #0680 entered into record Dec.16, 1908 and Pat ent #81205 and Survey #8851. The area of the three claims is described as follows:- B eginning at the NW corner of the Shorty Lode Mining Claim from which the ¼Section corner on the S boundary line of the Section 28 T3N R7W bears N17°58'W a distance of 1389.1 feet, thence S88°18'E a distance of 1508.9 feet t o a point which is t he NE corner of t he Shorty claim, t hence N18°51'E a distance of 48.5 feet to a point which is the NW corner of the Addition claim, thence N89°10'E a distance of 1500.0 feet to a point which is the NE corner of the Addition claim, t hence S18°51'W for a distance of 628.7 feet t o the SE corner of the Addition claim, t hence S86°51'E 23.2 feet t o t he NE corner of the Lulu claim, t hence S4°59'E a distance of 610.0 feet to a point which is the SE corner of the Lulu claim, t hence N84°33'W a dist ance of 1500.0 feet to the SW corner of the Lulu claim, t hence N4°59'W a dist ance of 549.2 feet t o a point which is the SW corner of the Addition claim, thence S87°28'W a distance of 1502.6 feet to a point which is the SW corner of the Shorty claim, thence N11°13'W a distance of 85.0 feet and t hence N18°51'E a distance of 501.5 feet to point of beginning.

12. St ate 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.

T he property is located about 4 miles sout h of Meaderville, a suburb of Butte, Montana at the base of the mountains on t he east side of Summit Valley and West of the Continental fault. The Northern Pacific Railway passes just west of the end line common t o the Addition & Shorty claims. An oil surfaced highway passes about 0.1 mile west of the west end line of the Shorty claim. All 3 claims are accessible by roads or roads may be constructed readily.

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

Constant flow of water from lowest tunnel on Shorty claim approximates 20 gal/m in which is sufficient for all operations. Shaft sinking

will in all probability greatly increase this flow as work progresses. 300 HP (200 pk ld) electric power from t he Montana Power Co. shall be sufficient for all operations, heat and power.

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

Two smelters are available for shipping ore to, the Anaconda smelter at Anaconda, Montana- and the US smelting & refining Co at Helena, Montana. Ore could be trucked on improved roads to the Washoe Sampler about 4 miles distant. Existing RR spurs are within about two miles from the property. Smelters at Anaconda and Helena are about 25 and 70 miles distant from Butte, so freight rates should be low. A railroad being across the property would mean a low cost for installation of loading bins on the property.

16. History: (a)Give a statement of previous exploration, development, operation, & production of property with reasons for suspensions. (b) State history & production of neighboring & adjoining properties. (c) Furnish any private reports that may apply to investigations.

(a) Gold & Silver bearing siliceous ore containing about 1/3% copper was mined thru surface tunnels on the Shorty and Addition claims in the oxidized portions of the veins.More than 400 tons of ore was shipped during the periods; 1904&1905 -1913 to 1916 and 1932 to 1935. Shipment records after 1913 showed values ranging as follows, ½ to 2 oz. of gold per ton, 3 to 30 oz. of silver per ton, 7 to 19% iron, 60 t o 85% silica, 0.1 t o 0.4% copper. Records of large shipments during 1904 and 1905 are not available, the ore being shipped to smelters now not in existence.

(b) No records are available of ore shipments from adjoining claims. The Pittsmont Mine, which has produced millions, lies to the North approximately 1½ miles, and the main Butte district, the record of which is well known, adjoins the Pittsmont (East Butte Mining Co) on the West.

(c) None available. It is a general acceptance of fact the the Shorty & Addition Veins are a series of strong East-West veins and thot to be the same as those exposed on the West side of Summit Valley about 2 miles distant and undeveloped.

18. (a) Describe the ore or mineral deposits briefly. (b) Submit available maps and assay data. (c) Give estimated tonnage & ore reserves.

No work of importance has been done on the Lulu claim, but is included in the application as Diamond Drilling can be done to determine if any veins south exist. Both t hatshorty and Addition veins are fissure veins. The host rock is granite and aplite. The veins occur in t he aplite at or near the contact of the granite and t he aplit e dikes that dip about 30° to the west. Characteristics are thesame as the major East-West Butte system of veins and geologists agree that these veins doubtless belong to t hat system. Similarily these veins occur west of the "Continental" fault as do the veins on t he Butte Hill. The continental fault crosses the east end of the Addit ion claim. A NW fault cuts the shorty vein near the east end of the claim and shows clearly in the RR cut on surface. The Addition vein is fault ed at a point about 300 feet from the portal of a tunnel or about 700 feet from the shorty fault showing in the RR cut.

Vein materials that has been commercially mined has been from the oxidized portions of the veins only, which probably extends to a 40 foot more or less depth on the Shorty claim and to about a 100 foot dept h more or less on the Addition claim. Mining widths averaged about 3 t o 6 feet on the Addition and H.J. Courtney of Philipsburg, Mont. reports about 5 t o 18 foot mining widths on the Shorty claim while mining t here in 1904 and 1905. Quartz, pyrite, and and chalcopyrite constitut e the primary mineralization of both veins. Secondary chalcocite that occurs as a film on pyrite grains account for the copper in the oxidized zone.

18 (b) Assay maps were not kept. Surveys on the Addition claim are fairly accurate, on the Shorty claim "sketchy". Geology shown on maps is surface geology.

(c) As most of the workings are caved and inaccesible, it is impossible to estimate ore reserves.

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

An example may be cited that copper was found about 1½ miles North of the Addition claim in a surface cut during highway construction. It is now being commercially mined and developed.

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

Exploration will be conducted as follows: (A). Extend lower tunnel on Shorty claim 300 to 500 feet to determine best location for shaft. Time-3 months. (B)Install surface plant for sinking, possibly on North side of Shorty vein. Time - 1 month. (C). Sink shaft 1500 feet in depth, crosscutting, diamond drilling to vein, and drifting on veins at regular depth intervals, simultaneously as work progresses. Time - 18 months. (D). Complete Diamond Drilling program etc. from bottom level. Time - 2 months.
T OTAL TIME OF PROJECT * - 2 years.

22 Furnish statement why expecting to find commercial ore bodies etc.

T he vein structures on t hese claims are strong, and characteristic of the main Butte structure which lie to the north. Copper was not predominant until depth was reached. There has been no deep development south of the Butte Hill. Veins on the "Timber Butte" hill which is 2 miles more or less west are structurally similiar indicating length and continuity similiar to the Butte Hill veins. These have not been prospected for depth either. Proximity to the continental fault of the Shorty & Addition Veins gives belief that this is the best place to sink for depth as some of the richest ore bodies in Butte lie immediately west of this fault, and the west end of the district tends to decrease in copper and increase in zinc content. Best indicative copper assays from surface shipments of oxidized zone lie closer to the continental fault also.

23. (a) Tabulate estimated cost of project by the following classes.
(a)Labor by numbers & classes, with wages of each.
6 contract drift miners-2000 lin ft dr & xc @$10.00 per ft incld.cost of powder & steel $20,000.00

23 a cont'd 9 contract shaft miners - 1500 ft shaft @ $30.00 per ft incld cost powder & steel $45,000.00
3-hoistmen @ $15.00/day,3-skilled mech. @ $15.00/day
2-laborers @ $12.50/day t ot -600 day @$115/day 69,000.00
2 t o 6 diamond drill runners & helpers on contract
@ $2.00/ft. inclds cost of diamonds 15,000 ft drill 30,000.00
Tot for (a) $ 164,000.00

(b) supervisors
1-Manager, Supt. & Foreman @ $10,000.00/yr $20,000.00
3-Shiftbosses for operating @ $5,000.00/yr 30,000.00
1-Consulting geologist engineer @$5,000/yr(part t ime 10,000.00
Tot for (b) $60,000.00

(c) Repairs do not apply

(d) Installations, buildings etc.
Buildings, office, dry, warehouse, shops, etc.
2000 sq ft @ $7.50/sq ft. $15,000.00
Furnishing, heating, plumb ing etc for above 2,500.00
Compressor & Hoist House 4,000.00
Tot for (d) $21,500.00

(e) Items of equipment over $50.00
Headframe, Main Hoist, & Compressors $20,000.00
Underground sinking hoist-and pumps 9,000.00
6-Jackhammers & attachments to drifting 3,750.00
6-Mine Cars & Mancha Motor 2,250.00
1-pickup aut o truck for service 2,000.00
1-1½ ton auto truck 3,500.00
Tot for (e) $40,000.00

(f) Rentals
Do not plan to rent except possibly bulldozer for surface cuts & construction work.

(g) Rentals owned by owners - Does not apply

(h) Materials & Supplies (less than$50.00 each)
350,000 bd ft lumber for shaft @ $40.00/M $14,200.00
6,000 fir for guides @$200.00/M 1,200.00
15 ton Mine Rail 5,000.00
15 ton Pipe 5,600.00
Small tools & Misc supplies 8,000.00
Tot for (h) $34,000.00

(i) Power- 300 HP electric
Peak ld of 200 HP @ $5.00/HP month (tot for i) $24,000.00

MISC: Engnr work to outline project with manager, consulting geologist, & gov't supervisors. 1,000.00

GRAND TOTAL $334,500.00

Note:- The salvage value of equipment will reduce total to much less than $300,000.00

E. T. Courtney
326 N. Alabama St.
Butte, Montana

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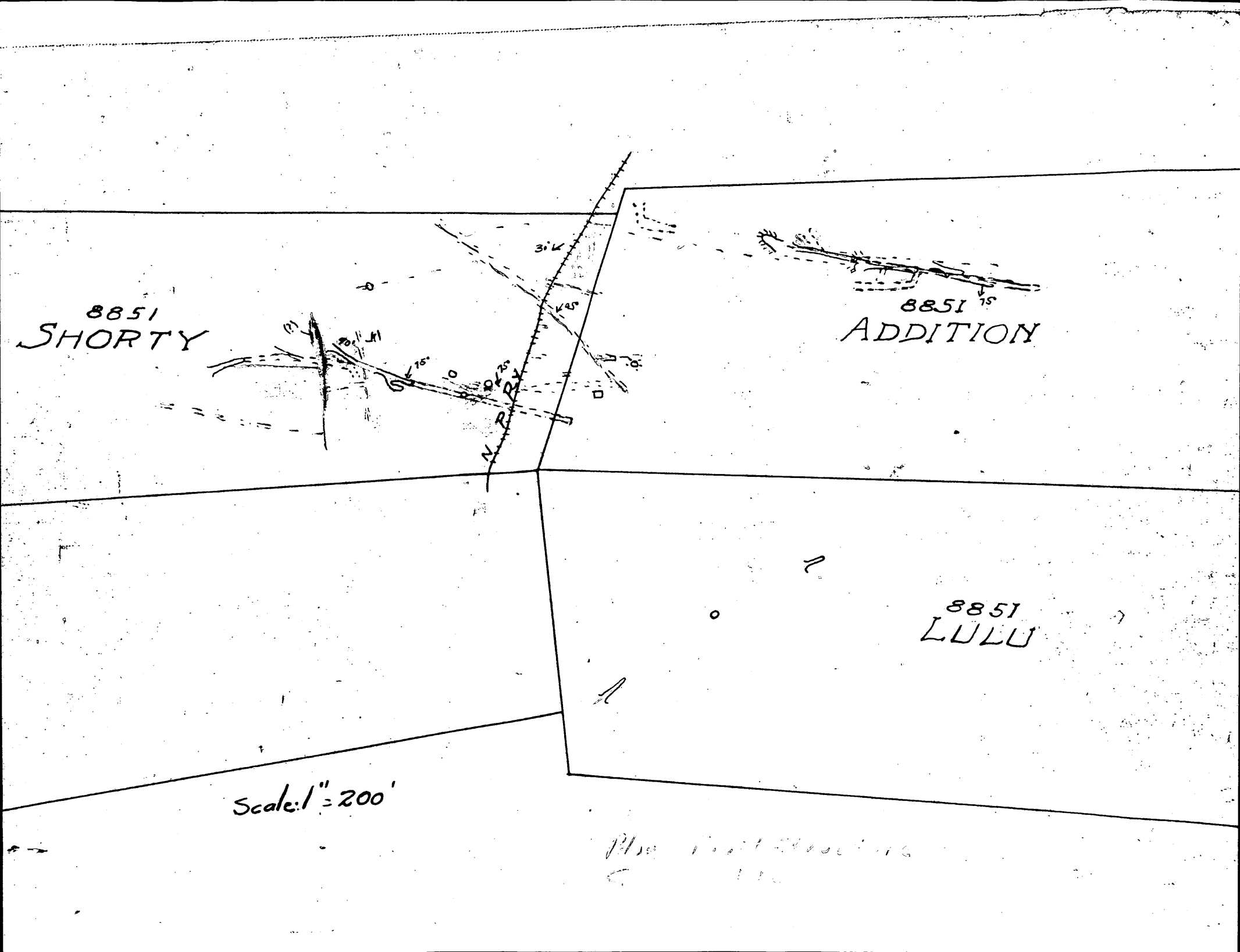
dual 1592 x

JAMES M BOYD
Defense Minerals Administrator

WASHINGTON
D. C.

MF-103

REGISTERED
No. 9030

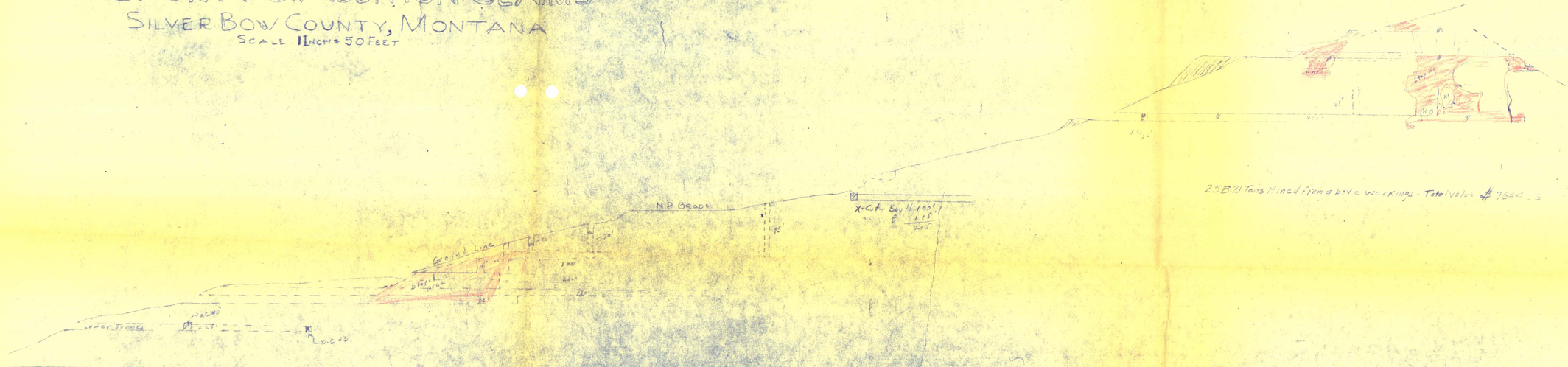

8851
SHORTY
8851
ADDITION
8851
LULU
N P RY
Scale: 1" = 200'

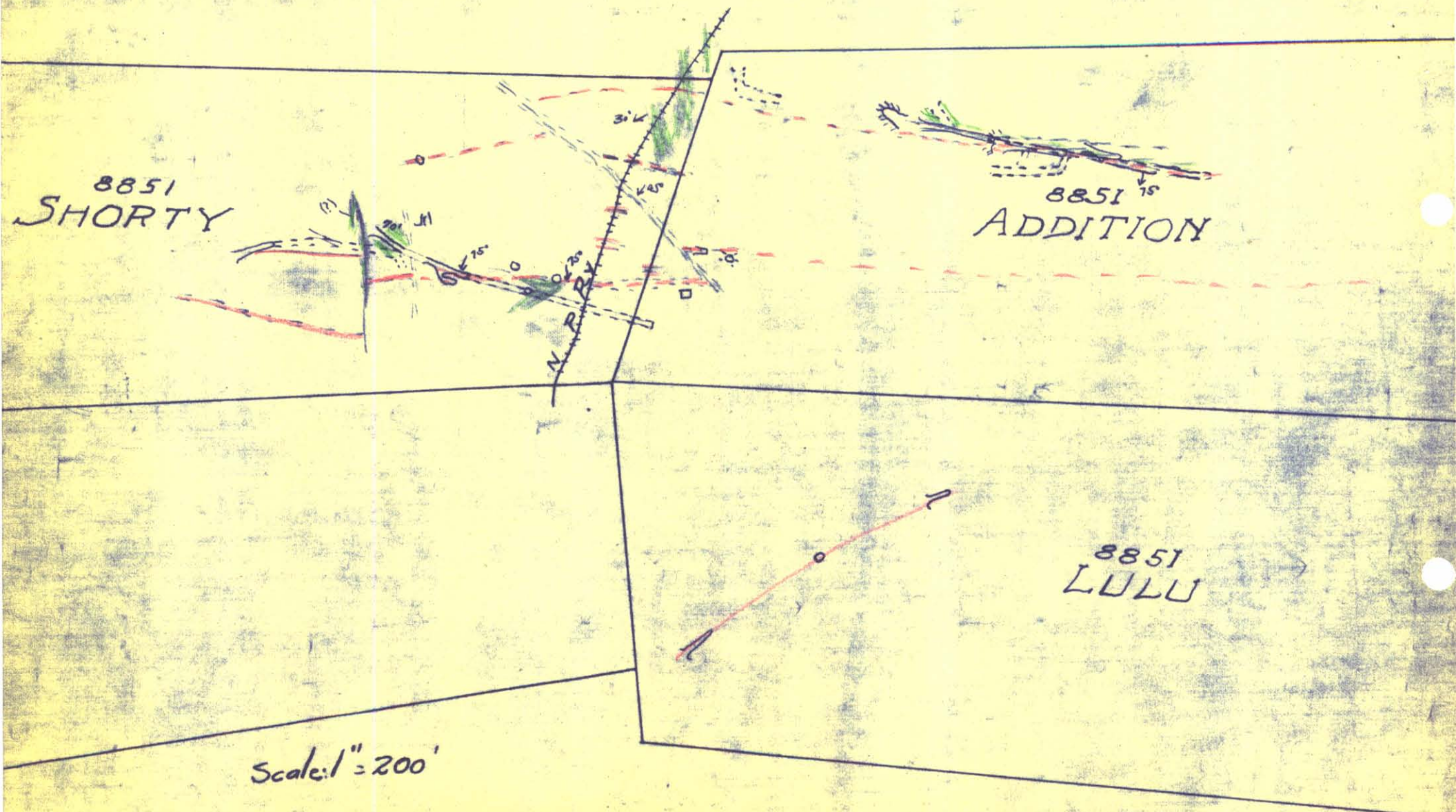
LONGITUNAL SECTION

SHORTY & ADDITION CLAIMS

SILVER BOW COUNTY, MONTANA

SCALE 1 INCH = 50 FEET





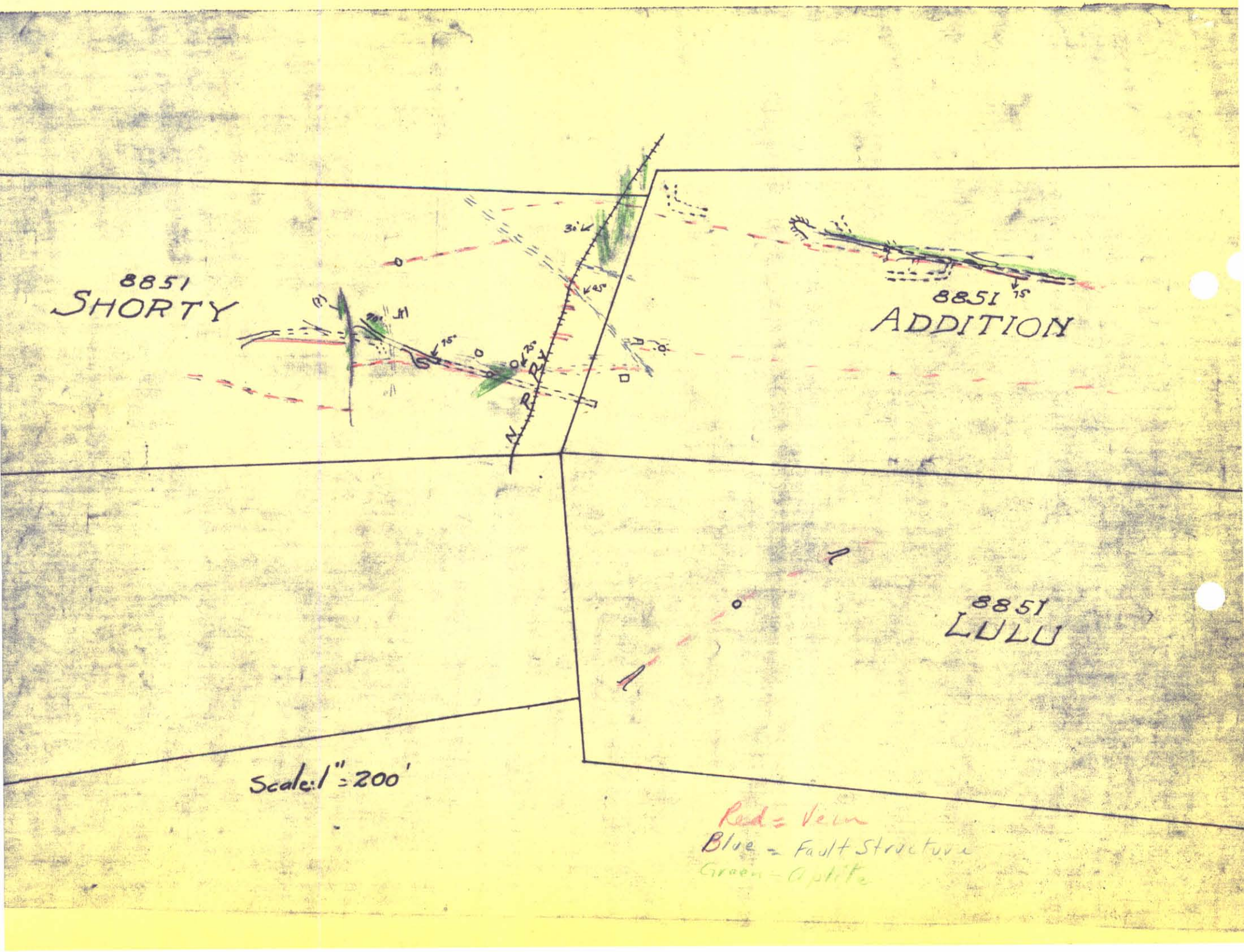
Red = Vein
Blue = Fault + Structure
Green = aplite.

LONGITUNAL SECTION

SHORTY & ADDITION CLAIMS

SILVER BOW COUNTY, MONTANA

SCALE: 1 INCH = 50 FEET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