DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 15977

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

Exploration [illegible]

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

Routing Slip

To:	[illegible]	Date	SEP 17 1951
To:	Reports and Records	Date	SEP 18 1951
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DO NOT DETACH

CONTROLLED DOCUMENT

DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. 1597

To: Reports and Records Branch R. M. Taylor

From: Lead Zinc Branch

Date: JUL 6 1951

The following action has been taken this date on the above Controlled Document.

Forwarded to

Type of request changed to:

Denied ☐ Withdrawn ☐

Approved in amount of $

Other action, specify:

on hand - holding for [illegible]

FILE COPY
SURNAME: 350

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

Campbell (E TKC)
McKwood
Bishop
Allenbye

SEP 18 1951

Re: DMA-1597X

A. E. C.

Mr. R. M. Tayler
~~S 726 Lincoln Place~~
Spokane, Washington

Dear Mr. Taylor:

Your application (DMA-1597X) for an exploration loan of $2,000 to be used for drifting at the St. Paul (Quartz) Mine in Lincoln County, Montana, has been reviewed again by the Defense Minerals Administration after a report of an examination of your property was received from our field staff.

From this report, we conclude that the mineralized structure upon which you propose to drift is too narrow to be mined successfully. Furthermore, there are no geological indications that the exploration work which you propose would encounter a significant tonnage of minable ore. The Defense Minerals Administration does not consider that the possibilities of finding significant new reserves of lead and zinc are great enough to warrant the expenditure of public funds which you request. I regret, therefore, that your application must be denied.

We wish to thank you for bringing this property to our attention.

Very truly yours,

Tom Lyon

J F 9/18

Tom Lyon, Director
Supply Division

ABCampbell:emp
G 9-14-51
Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Branch
E. T. McKnight 4204 GSA
O. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. file
DMA docket files

FILE COPY
SURNAME: 350

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

Campbell (ETM)
McKnight
Bishop
Billings

9-18

Re: DMA-1597X
St. Paul (quartz) Mine
Lincoln County, Montana
Exploration loan $2,000
Zinc and lead

Memorandum

To: Reports and Records Unit
Administrative Management Div.

From: Chief, Lead-Zinc Br.

Subject: Denial of exploration loan

A. E. C.

The applicant has requested an exploration loan of $2000 (Government participation 50%) for drifting at the St. Paul (Quartz) Mine in Lincoln County, Montana.

The Field Team Region II, has examined the property and submitted a report. This report states that 730 ft. of drifting at different levels on the vein (or possibly 2 veins) has revealed vein widths of 3 inches to over 2 feet, but has produced only 43 tons of shipping ore from one small ore shoot. The applicant proposes to extend an adit which has explored 194 feet of a vein averaging 1.5 feet in width. The last 70 feet of this vein contained mineral over a width from one inch to two feet not rich enough to be worked. In view of the narrow vein structure and the limited occurrence and width of the ore, the field team concludes that the geologic probability of finding a commercial ore deposit is limited and that the application for Government assistance should be denied.

The Lead-Zinc Branch concurs with the field team's recommendation.

Returned herewith are:

1 field team report
3 copies Form MF-103 and attachments
1 copy Form MF-100

9-18

F. P. Billings, Chief
Lead-Zinc Branch

ABCampbell:emp
G 9-14-51

Approved:

Director, Supply Division

Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
O. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Directors r. file
DMA docket files

SEP 1951

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

Memorandum

Re: DMA-1597X
St. Paul (quartz) Mine
Lincoln County, Montana
Exploration loan $2,000
Zinc and lead

To: Reports and Records Unit
Administrative Management Div.

From: Chief, Lead-Zinc Br.

Subject: Denial of exploration loan

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The Lead-Zinc Branch concurs with the field team's recommendation.

Returned herewith are:

1 field team report
3 copies Form MF-103 and attachments
1 copy Form MF-100

T. P. Billings, Chief
Lead-Zinc Branch

Approved:

Director, Supply Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
[illegible] Street
[illegible] 6, [illegible]

July [illegible], 1951

Through [illegible] Strobel

Memorandum

To: Mr. Tom Lyon, Chairman, Security Committee

From: Field Team, Section II

Subject: [illegible] (Quartz) Inc
Lincoln County, Montana

R. M. Taylor

Transmitted herewith is a report in quadruplicate by [illegible] Roedel, [illegible]. Also included is the fourth copy of the original application.

On the basis of the attached report, the Field Team recommends that Mr. Taylor's application for exploration assistance be denied.

[illegible] Strasbourg, Executive Officer
(U. S. Geological Survey)

[illegible] Lin, Director
(U. S. Bureau of Mines)

Concurred:

cc: [illegible] Strobel
[illegible] Moore
[illegible] Gray

DEPARTMENT OF THE INTERIOR
Defense Materials Administration
RECEIVED
JUL 23 1951
LANDON P. STROBEL
Executive Secretary

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

July 18, 1951

Through: Landon F. Strobel

Memorandum

To: Mr. Tom Lyon, Chairman, Commodity Committee

From: Field Team, Region II

Subject: St. Paul (Quartz) Mine DMA 1597 X
Lincoln County, Montana

Transmitted herewith is a report in quadruplicate by C. H. Broedel, U.S.G.S. Also included is the fourth copy of the original application.

On the basis of the attached report, the Field Team recommends that Mr. Taylor's application for exploration assistance be denied.

A. E. Weissenborn, Executive Officer
(U. S. Geological Survey)

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

Enclosures

cc: L. F. Strobel
U.S.B.M. Spokane
U.S.B.M. Albany

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 23 1951
LANDON F. STROBEL
Executive Secretary

JUL 24 1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible] Ward Street
[illegible]

July [illegible], 1951

[illegible] Landon F. Strobel

Memorandum

To: [illegible], Defense Minerals Administration

From: [illegible]

Subject: [illegible]
Lincoln County, Montana

[illegible] in a letter to [illegible] [illegible] roads. [illegible] also involved the north [illegible] of the original application.

In the basis of the above [illegible], the [illegible] recommends that the applicant for exploration assistance be denied.

[illegible]
[illegible], Executive Officer
([illegible])

[illegible], Director
[illegible]

Enclosure

[illegible]
[illegible]
[illegible]

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 23 1951
LANDON F. STROBEL
Executive Secretary

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
[illegible] Howard Street
[illegible], [illegible]

July 16, 1951

Through: [illegible] Kirchel

Memorandum

To: Mr. Tom [illegible], Chairman, Security Committee

From: Field Geologist, [illegible]

Subject: [illegible] (Carter) Inc
Lincoln County, Montana

[illegible] referred to [illegible] in [illegible] by [illegible] [illegible] included in the fourth copy of the original application.

On the basis of the attached report, the field [illegible] recommends that Mr. [illegible]'s application for exploration [illegible] be denied.

[illegible] Eisenbrom, Executive Officer
(U. S. Geological Survey)

[illegible] Lin, Member
(U. S. Bureau of Mines)

Enclosures

cc: [illegible] Kirchel
[illegible] Prouse
[illegible] Albury

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 23 1951
Executive Secretary

DMA 1597X

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

July 16, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 23 1951
LANDON F. STROBEL
Executive Secretary

Memorandum

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

From: C. H. Broedel, Geologist, U.S.G.S.

Subject: Report on St. Paul (Quartz) mine, T. 28 N., R. 31 W., Sec. 7, Lincoln County, Montana
Lessee--R. M. Taylor, Spokane, Washington

RECOMMENDATIONS

The examiner recommends that Mr. Taylor's application for exploration assistance on the No. 1 adit level be denied as the narrow vein structure and limited occurrence and width of the ore observed does not indicate that a commercial ore body will be found by an extension of this adit.

SUMMARY OF FIELD INVESTIGATION

The examiner was directed to the property by the owner, Mr. W. C. Zollars, who assisted in a survey of the adits.

The property is reached by a good gravel road to the Snowshoe mine via Snowshoe Creek. Workings are present on the Fern, Faith, and Topsy claims of the St. Paul Group. The adit on the Topsy claim was not visited as the vein and fault gouge is barren of ore. The workings on the Fern and Faith claims lie on a heavily forested slope and outcrops are limited. The country rock is Ravalli quartzite.

Four adits have been driven on vein and fault

gouge in a southeasterly direction on fissures apparently related to the prominent Snowshoe fault. (See composite plan map attached.) This property is described in U.S.G.S. Bulletin 956, pp. 117-118. A total of 730 feet of drifting has been done in the adits on persistent vein structure varying in width from 3 inches to over 2 feet. About 3 inches of gouge follows the footwall of the veins. The upper three adits are on the same fault fissure, whereas the lowest adit (No. 3) appears to lie on a parallel fissure or a faulted segment of the upper structure. The ore minerals are principally galena, sphalerite, and pyrite with a little manganese oxide, chalcopyrite, and sheelite locally. Gange minerals are quartz and carbonate. Adit No. 3 was driven 200 feet on a vein averaging 1.5 feet in width. The ore along the vein is discontinuous and varies from 4 inches to 2 feet in width. 43 tons of ore were shipped from a stope averaging 2 feet of ore near the portal of this tunnel. Adit No. 2 was driven 230 feet on a vein averaging 2 feet in width. The only ore observed was along three shears at the end of this adit. Adit No. 1 was driven 194 feet on a vein averaging 1.5 feet in width. Good ore ranging in width from 1 inch to 2 feet occurs in the last 70 feet of this adit. The uppermost adit is on a barren vein.

The applicant proposes to extend No. 1 adit to explore an extension of the ore exposed toward the end of this adit. Considering the narrow width of the veins and the limited amount of visible ore

in the adits of this property, it is unlikely that any commercial ore shoot would be encountered by extending No. 1 adit. Even though the entire vein should make ore, the average width would still fall short of a feasible stoping width. Furthermore, a continuous shoot of ore of reasonable width and linear extent is not indicated. Although the structure is continuous, the small percentage of ore observed within the veins suggests that no commercial ore shoots will be found on this property.

The applicant claims that the veins on this property are on the same structure as the Snowshoe fault and the Snowshoe mine, the veins of which are up to 12 feet in width. The examiner believes that the St. Paul veins are subsidiary to the Snowshoe fault, but being very much weaker structures, vein and ore widths similar to those at the Snowshoe mine are unlikely.

cc: U.S. Bur. Mines
Spokane, Wn.
Albany, Ore.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

July 16, 1951

Defense Minerals Administration
RECEIVED
JUL 23 1951
LINDSEY F. STEBBEL
Executive Secretary

Memorandum

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

From: C. H. Breedsl, Geologist, U.S.G.S.

Subject: Report on St. Paul (Quartz) mine, T. 28 N., R. 31 W., Sec. 7, Lincoln County, Montana
Lessee—R. M. Taylor, Spokane, Washington

RECOMMENDATIONS

The examiner recommends that Mr. Taylor's application for exploration assistance on the No. 1 adit level be denied as the narrow vein structure and limited occurrence and width of the ore observed does not indicate that a commercial ore body will be found by an extension of this adit.

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The examiner was directed to the property by the owner, Mr. W. C. Zollars, who assisted in a survey of the adits.

The property is reached by a good gravel road to the Snowshoe mine via Snowshoe Creek. Workings are present on the Fern, Faith, and Topsy claims of the St. Paul Group. The adit on the Topsy claim was not visited as the vein and fault gouge is barren of ore. The workings on the Fern and Faith claims lie on a heavily forested slope and outcrops are limited. The country rock is Ravalli quartzite.

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cc: U.S. Bur. Mines
Spokane, Wn.
Albany, Ore.

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. dmd 1597X

Date received 6-5-51

Participation

R. M. Taylor
S. 716 Lincoln Place
Spokane, Wash.

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

Name and address of applicant

Date May 30, 1951

FILL IN THIS BLOCK

Date of application May 30, 1951

Estimated cost $2000.00

Mineral or metal Zinc and lead

Percentage of Government participation 50

Location of mine 16 miles south of Libby, Mont.

By highway and mountain road.

Date of filing MF-100 May 31, 1951

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?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing. Yes

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? $1000.00 . Yes

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. St. Paul Quartz Mine (See lease for names of claims
(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. same.

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

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

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

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled. Helena Smelter for sure and believe Trail smelter and mill. Investigating.

*16. History:
(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
(*b*) State briefly the known history and production of adjoining and neighboring properties.
(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

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

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
Summer operation at present. To ship, will need 900' monoOcable tram.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Lead - Zinc

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Not organized
(Name of company)

By R. M. Taylor
(Signature of authorized official)

May 30, 1951
(Date)

Lessee
(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

To be attached to MF 103

21. The proposed work consists in drifting along a good, commercial streak of zinc-lead sulphide ore in the drift at No. 1 level on the FAITH Quartz Claim of the St. Paul Mine, for a distance of 50 or 60 feet to prove further extension of the ore showing at that level, and to cut across and sample said streak about every 10 feet. Two or three months needed to complete this work, after project is approved.

22. The St. Paul Mine, consisting of three quartz claims, is in the Burke Quartzite and Wallace Shale formation as is the Snow Shoe Mine which is the principal mine in this camp. The veins are fissures and cut the formation on both dip and strike.

The St. Paul vein seems to have been faulted and one drift occurs below the fault line and two above it. The vein has a dip of 70 degrees or more in places and is from 3 to 5 feet in width. It has been proved over a horizontal distance of about 600 or 800 feet at the present time.

The writer has made no reports on the mine but looked it over for himself and took enough samples to satisfy himself to do this development himself this summer but sickness last winter has prevented this and he now makes application for help.

The ore, after getting out of the oxidized zone, is sphalerite and galena carrying a few ounces of silver and a trace of gold. Forty three tons was sorted and shipped from No. 3 level in 1942 and the zinc is favorable for manufacture of electrolytic zinc as Anaconda bought it from the mine after receiving a sample. This ore ran 13.2% zinc and 9.42 % lead and 4.1 oz. silver and 0.02 oz. gold.

It is felt that this strong vein (in the same formation as the Snow Shoe which has produced a million and a half up to 1912 and an unknown amount since that time) with a 15 or 18" streak of ore that sampled between 12 and 15% in both lead and zinc should be encouraging to develop at the present prices of the metals. The rest of the vein is composed of lower grade milling ore, in No. level.

23.

a.	1 miner 25 shifts at $12.00 per shift	$300.00
	1 mucker " " " 10.00 " "	250.00
	2 laborers 10 shifts each $8.00 per shift	160.00
	1 welder 4 shifts welding boiler tubing for air line at $18.00	72.00
b.	Supervisor Taylor-total for job $250.(and board) wages	250.00
c.	Repairs on house	35.00
d.		00.00
e.	Boiler tubing for air line 1200 ft. (road to mine)	192.00
f.	Rent Compressor one month $140., jackhammer $30.	170.00
	Rent car and rails	20.00
g.		00.00
h.	Gasoline (less State refund for non highway use)	100.00
	Powder	80.00
	Bits, fuse, caps, carbide est	88.00
	Groceries above amount charged to men and deducted	50.00
	Small tools, stove, oil, grease and Inc. and St. Comp. est.	$50 to 60.00
i.	Frt. Compressor $30. Deposit for return frt. ($30.) Frt. tubing $60.	120.00
	Hauling from Libby to mine est. 3 truckloads at $20.00	60.00
	Total	$2207.00

24. In 20 days after project approved expect to be milling, ending about $900.00
30 days 30 feet of drifting completed " " 1100.00

R M Taylor

COPY

AGREEMENT FOR THE SALE OF MINING PROPERTY

This agreement, made and entered into this 1st day of June, 1951, by and between Walter C. Zollars and wife, Irene R. Zollars, and Clyde R. Shanahan, parties of the first part, and R. M. Taylor, of Spokane, Washington, party of the second part, witnesseth:

That the parties of the first part, in consideration of the sum of $1.00 to them in hand paid and the receipt of which is hereby acknowledged, and in consideration of the covenants and obligations hereinafter contained, and the prompt, full and complete fulfillment and performance thereof by the party of the second part, his heirs, executors, administrators or assigns, hereby agree and covenant to sell and by good and sufficient deed convey to the said party of the second part, his heirs or assigns, all their right title and interest in and to the following described mining claims, located in Libby Unorganized Mining District, in the County of Lincoln, and State of Montana, to-wit:

The FERN Quartz Mining Claim, Number 29904, recorded in Record Book No. 66, Pages 568-569

The FAITH Quartz Mining Claim, Number 29903, recorded in Record Book No. 66, Pages 567-568

The TOPSY Q uartz Mining Claim, 26482, recorded in Record Book No. 70, page 142, in the office of the County Recorder, Libby, Monyana, County seat of Lincoln County, Montana.

WHEREAS: The party of the first part has agreed to give to the party of the secind part for the consideration herein se forth, an option to purchase said mining claims for the period and upon the terms and conditions herein specified:

NOW, THEREFORE, this agreement wirnesseth that for and in consideratione of the several covenants and agreements hereinafter specified and contained, the parties hereto mutually covenant and agree with the other as follows:

1. The party of the second part shall, until he be in default, as hereinafter provided, or until he relinquish in writing, have the sole right and option to purchase the above described mineral claims, for the sum of Thirty-five Thousand ($35,000.00) dollars, payable as follows:

The party of the second part shall pay to the parties of the first part a royalty of fifteen (15%) on the net smelter returns, meaning thereby net smelter returns less freight and smelter charges. Said royalties to be applied on the following payments, and paid by the smelter directly to the parties of the first part.

The sum of Thirty-five Thousand ($35,000.00) on or before June 1, 1956. It is mutually agreed by and between the parties to this contract, that the party of the second part may, at his option, make advance payments at any time upon the above mentioned payments in such sums as he may desire, to the end that this contract may be terminated as speedily as possible.

It is mutually agreed that the payment of royalties shall cease upon the completion of payment of said purchase price of Thirty-five Thousand ($35,000.00) dollars.

2. Until the party of the second part shall be in default under this agreement he shall have the right to mine any and all ores from the said mineral claims, or any of them, and to mill, treat, ship for treatment, or otherwise recover the values from such ores, whether in its original or reduced form, all mineral operations, however, to be carried on in a good and miner-like manner; provided however that the parties of the first part shall be entitled to and shall be paid fifteen percent (15%) of the net smelter returns from ore mined from the said mineral claims, or any of them; the " net smelter returns " to be understood as being the amount due and payable from the smelter after deducting fraight from the mine to the smalter and treatment charges by the smelter. The parties of the fir st part shall be furnished with duplicate smelter settlement sheet as well as the above mentioned fifteen percent royalty direct from the smelter.

3. The parties of the first part shall at all reasonable times prior to the payment in ful l of the said purchase price have the right to inspect the workings on the said mineral claims, or any of them, and shall be furnished with statements as to returns from ore shipped and treated.

4. The parties of the first part covenant that they have a good tit le to the siad unpatented mineral claims and that upon the completion by the party of the second part of all payments, as provided in this agreement, they will convey the said mineral claims to the party of the second part, or his heirs, representatives, grantors, or assigns, by conveyance in statutery form and with the customary statutery covenants.

5. It is further agreed that in the event the party of the second part makes default under this agreement, or suffer his rights hereunder to become forfeited, the said parties of the first part shall have the right to reenter and repossess itself of the said mineral claims, all all of the other property herein agreed to be sold to the party of the second part and shall retain all monies paid to it on the within agreement as liquidated damages for the use of said premises by the party of the second part.

6. The party of the second part shall have the right at any time to relinquish this option by notice in writing given to the parties of the first part, and upon such notice being given, all rights and liabilities thenceforth and thereafter shall be at an end under this agreement.

7. The party of the second part shall comply with all state and federal laws applying to the employment of labor and operation of mines and shall, at all times keep posted at the property notices stating that the owners of said mineral claims are in no way responsible for any labor or other bills at the property.

8. The party of the first part agrees to perform an average of not less than 50 shifts of labor per month during a minimum of eight months each year beginning in 1951,

9. In case of default by party of the second part, in any of the terms and conditions of this agreement, parties of the first part shall give notice in writing to the second party, and he shall have thirty days in which to rectify such default.

10. In case of default or termination of this agreement, the party of the second part shall have the right to remove all machinery, equipment and personal effects belonging to him from the property, but any buildings constructed by shall

party of the second part, shall remain on said pr perty.

11. This agrement and every matter and thing herein contained shall, whereever the context allows, include, extend to, bind and inure to the benefit of not only the parties hereto, but also to their and each of their heirs, executors, administrators, successors, and assigns, respectively.

IN WITNESS WHEREOF, the parties hereto have signed this agreement as of and dating from the day and year first above written.

Signed by:-
Walter C. Zollars
Irene R. Zollars
Clyde R. Shanahan
R. M. Taylor

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane, Washington

May 31, 1951

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

Dear Mr. Strobel:

Enclosed herewith are three copies each of Form MF-100 and MF-103, submitted by Mr. R. M. Tayler of Spokane for an exploration contract on the St. Paul mine in the Libby mining district, Lincoln County, Montana. One copy of MF-100 and one of MF-103 are being retained here to facilitate early examination.

The applicant has not submitted a subordination agreement and we will attempt to obtain this and other information that may be lacking, as soon as possible.

Sincerely yours

[illegible] Eisenborn
Executive Officer, DMA
Field Team, Region I

Enclosures

cc: M. S. Volin

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

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1597X

Date received 6-5-51

Participation

R. L. Taylor
S. 720 Lincoln Place
Spokane, Wash.

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

Name and address of applicant

Date May 30, 1951

FILL IN THIS BLOCK

Date of application May 0, 1951

Estimated cost $2000.00

Mineral or metal Zinc and lead

Percentage of Government participation 50

Location of mine 16 miles South of Libby, Mont.

By highway and mountain road.

Date of filing MF-100 May 31, 1951

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?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Cannot do.
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)?

$1,000.00 Yes.

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. St. Paul Quartz Mine. (See lease for names of claims)
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. Same.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

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

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

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled. Helena lead smelter for sure and believe to Trail Smelter and mill. Investigating.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

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

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
Summer operation at present. To ship will need 900' mono-cable tram.

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Not organized (Name of company)

By R M Taylor (Signature of authorized official)

May 30, 1951

Lessee (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.

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 1597 X

Date received 6-5-51

Participation

R. M. Taylor
S. 716 Lincoln Place
Spokane, Wash.

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

Name and address of applicant

May 30, 1951

FILL IN THIS BLOCK

Date of application May 30, 1951

Estimated cost $2000.00

Mineral or metal Zinc and lead

Percentage of Government participation 50

Location of mine 16 miles South of Libby, Mont.
By highway and mountain road.

Date of filing MF-100 May 31, 1951

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?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Cannot do.
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)? $1,000.00 Yes.

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. St. Paul Quartz Mine. (See lease for names of claims
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. Same.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

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

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

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled. Helena lead smelter for sure and believe to Trail Smelter and mill. Investigating.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

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

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
Summer operation at present. To ship will need 900' mono-cable tram.

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Not organized
(Name of company)

By R M Taylor
(Signature of authorized official)

May 30, 1951
(Date)

Lessee
(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

To be attached to MF 103

21. The proposed work consists in drifting along a good, commercial streak of zinc-lead sulphide ore in the drift at No. 1 level on the FAITH Quartz Claim of the St. Paul Mine, for a distance of 50 or 60 feet to prove further extension of the ore showing at that level, and to cut across and sample said streak about every 10 feet. Two or three months needed to complete this work, after project is approved.

22.

The St. Paul Mine, consisting of three quartz claims, is in the Burke Quartzite and Wallace Shale formation as is the Snow Shoe Mine which is the principal mine in this camp. The veins are fissures and cut the formation on both dip and strike.

The St. Paul vein seems to have been faulted and one drift occurs below the fault line and two above it. The vein has a dip of 70 degrees or more in places and is from 3 to 5 feet in width. It has been proved over a horizontal distance of about 600 or 800 feet at the present time.

The writer has made no reports on the mine but looked it over for himself and took enough samples to satisfy himself to do this development himself this summer but sickness last winter has prevented this and he now makes application for help.

The ore, after getting out of the oxidized zone, is sphalerite and galena carrying a few ounces of silver and a trace of gold. Forty three tons was sorted and shipped from No. 3 level in 1942 and the zinc is favorable for manufacture of electrolytic zinc as Anaconda bought it from the mine after receiving a sample. This ore ran 13.2% zinc and 9.42 % lead and 4.1 oz. silver and 0.02 oz. gold.

It is felt that this strong vein (in the same formation as the Snow Shoe which has produced a million and a half up to 1912 and an unknown amount since that time) with a 15 or 18" streak of ore that sampled between 12 and 15% in both lead and zinc should be encouraging to develop at the present prices of the metals. The rest of the vein is composed of lower grade milling ore, in No. level.

23.

a.	1 miner 25 shifts at $12.00 per shift	$300.00
	1 mucker " " " 10.00 " "	250.00
	2 laborers 10 shifts each $8.00 per shift	160.00
	1 welder 4 shifts welding boiler tubing for air line at $18.00	72.00
b.	Supervisor Taylor-total for job $250.(and board) wages	250.00
c.	Repairs on house	35.00
d.		00.00
e.	Boiler tubing for air line 1200 ft. (road to mine)	192.00
f.	Rent Compressor one month $140., jackhammer $30.	170.00
	Rent car and rails	20.00
g.		00.00
h.	Gasoline (less State refund for non highway use)	100.00
	Powder	80.00
	Bits, fuse, caps, carbide est	88.00
	Groceries above amount charged to men and deducted	50.00
	Small tools, stove, oil, grease and Inc. and St. Comp. est. $50 to	60.00
i.	Frt. Compressor $30. Deposit for return frt. ($30.) Frt. tubing $60.	120.00
	Hauling from Libby to mine est. 3 truckloads at $20.00	60.00
	Total	$2007.00

24. In 30 days after project approved expect to be drilling, costing about $900.00
60 days 60 feet of drifting completed " " 1100.00

Rus Taylor

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. _____

Date received _____

R. M. Taylor
S. 716 Lincoln Place
Spokane, Wash.

Name and address of applicant

Date May 30, 1951

INSTRUCTIONS

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

5

GENERAL TECHNICAL DATA

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

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

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

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

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
one or two among the following list of old partners if the result of this application is favorable.							
~~The applicant will contact~~							
Harry L. Larsen ~~Newport, Wash.~~		none	$2000 to $5000				
M. L. Seamon 2116 Federal Blvd. Denver, Colo.		none	$25,000				
Leland Howard Group 3865 Pierce Street Wheatridge, Colo.		none	$5000				
R. M. Taylor S. 716 Lincoln Pl. Spokane, Wash.							
	Total		x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

Answered on MF 103

U. S. DEPARTMENT OF THE INTERIOR
DEFENCE MINERALS ADMINISTRATION

Form MF-100

Submitted by R. M. Taylor
So. 716 Lincoln Place
Spokane, Washington

GENERAL TECHNICAL DATA

1. Materials Produced:

(a) Zinc and lead.
(b) A little silver and gold.

2. Name of Mine and Type: St. Paul(Quartz)Mine

(a) none
(b) About 400' of drifts
(c) none
(d) none

No water problems as no shafts or winzes.

3. (a) The mine is located 18 miles south of Libby, Montana.
(b) Libby Unorganized Mining District.
(c) Section 7, Twp. 28N. Rge. 31 W. M. P. M.
(d) Lincoln County, Montana

4. a.No

B. Lessee

5. None. Production is expected this fall.

6. (a) and (b) Applicant expects to operate property. Technically educated mining engineer with about thirty years experience mostly as lessee and superintendent of mines, and work in examination of mines, and prospects.

7.a The mine has been developed mainly by the personal work of one of the old owners over a period of many years. The Oro Mining Co., of Sandpoint, Idaho, not incorporated, cleared out and retimbered the portal of the lower, or No. 3 tunnel and sorted and shipped 43 tons to the Anaconda Smelter in June of 1942 as a test shipment. The zinc contained was suitable for Anaconda Zinc plant.

This 43 ton shipment ran 13.2% zinc, 9.42% lead, 4.1 oz. silver and 0.02 oz. gold per ton and returned $425.45 above freight, smelter and mill charges and royalty, with zinc at 8.25¢ and lead 6.5¢ per pound. This is the only shipment that the applicant knows about and the ore mined during early development is on the dumps and as the development was not carried far into the sulphide zone, this dump ore is mostly oxidized and could not be milled.

The main reason that this operation was suspended was because funds were not available at that time to develop the better showing in Level No. 1 as metal prices were too low and pending arrangments to have ore milled at Snow Shoe mill had not been completed and this mill has been taken out by a snow slide. After the war, we intended to start the property again but Anaconda Mill was not handling zinc-lead milling ore.

U. S. DEPARTMENT OF THE INTERIOR
DEFENCE MINERALS ADMINISTRATION

Form MF-100

Submitted by R. M. Taylor
So. 716 Lincoln Place
Spokane, Washington

GENERAL TECHNICAL DATA, Continued

7 b.

The Snow Shoe Mine is a close neighboring property. According to the Bureau of Mines of Spokane, Washington, F. C. Gilbert in his directory of Mineral Properties, Meme 15, the Snow Shoe Mine is located in Sec. 7, Twp. 28 N., Rge. 31 W. M. P. M. at an elevation of 4800 to 6000 feet, (about the same as the St. Paul Mine) 10 miles south of Libby, Montana. It was located in 1870 and its production to 1912 was $1,500,000.00 from a vein in the Burke Quartzite and Wallace shale, the ore from which averaged 10% lead, 5 oz. silver and 0.05 oz gold with the zinc values not given,(but they have always been considerable in that camp).

In hte early forties, a selective flotation mill was operated by a small group and good grades of zinc and lead concentrates were shipped. Later, coarse tailings, from an old jig, table concentrating mill, were floated at this mill which was taken out by a snow slide later in the forties.

7 c. None available except that the writer sampled the various workings and recommends further drifting on the vein in No 1 level. The vein is about four feet in width with a 15 to 18" streak of high grade milling ore that assayed between 12 and 15% in both lead and zinc beside a little silver and gold. The balance of the vein consists of lower grade milling ore. The vein on this level has been in the sulphide zone for 20 or 30' and as the slope of the hill is over 30°, depth is being quite rapidly gained.

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

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve. No ore blocked

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads. About 6 miles highway and 10 miles fair mountain road to Libby, Montana.

14. Water Supply:

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

Creek water available throughout the year for all purposes.

15. Power:

State amount of power used, rate per hour, and source thereof. No. electric power available and expect to use gasoline compressor for air in this development or exploration and for future mining.

16. Labor:

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

not applicable

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation. None. Expect to rent house.

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

Summer operation until County keeps road open. 900' mono-cable tram needed if warranted by development.

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.

Not organized
(Name of company)

By R M Taylor
(Signature of authorized official)

May 30, 1951
(Date)

Lessee
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

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

1597

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane, Washington

May 31, 1951

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

Dear Mr. Strobel:

Enclosed herewith are three copies each of Form MF-100 and MF-103, submitted by Mr. R. M. Taylor of Spokane for an exploration contract on the St. Paul mine in the Libby mining district, Lincoln County, Montana. One copy of MF-100 and one of MF-103 are being retained here to facilitate early examination.

The applicant has not submitted a subordination agreement and we will attempt to obtain this and other information that may be lacking, as soon as possible.

Sincerely yours

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

Enclosures

cc: M. E. Volin

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

JUN 11 1951

UNITED STATES
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GEOLOGICAL SURVEY

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Executive Officer, DMA
Field Team, Region II

Enclosures

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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 1597-X

Date received

Participation

L. A. Taylor
Box 710 Lincoln Place
Spokane, Wash.

Name and address of applicant

Date May 10, 1951

FILL IN THIS BLOCK

Date of application May 9, 1951

Estimated cost $2000.00

Mineral or metal Zinc and lead

Percentage of Government participation 50

Location of mine 10 miles South of Libby, Mont.

By highway and mountain road.

Date of filing MF-100 May 21, 1951

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?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Cannot do.
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)? $1,000.00 Yes.

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. St. Paul Quartz Mine. (See lease for names of claims
    (*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. Same.

*11. State the present and former names of the property, if any.

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

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

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled. Helena lead smelter for sure and believe to Trail Smelter and mill. Investigating.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

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

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
Summer operation at present. To ship will need 900' one-cable tram.

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Not Organized (Name of company)

By R M Taylor (Signature of authorized official)

May 20, 1951 (Date)

President (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

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

To be attached to MF 103

21. The proposed work consists in drifting along a good, commercial streak of zinc-lead sulphide ore in the drift at No. 1 level on the FAITH Quartz Claim of the St. Paul Mine, for a distance of 50 or 60 feet to prove further extension of the ore showing at that level, and to cut across and sample said streak about every 10 feet. Two or three months needed to complete this work, after project is approved.

22. The St. Paul Mine, consisting of three quartz claims, is in the Burke Quartzite and Wallace Shale formation as is the Snow Shoe Mine which is the principal mine in this camp. The veins are fissures and cut the formation on both dip and strike.

The St. Paul vein seems to have been faulted and one drift occurs below the fault line and two above it. The vein has a dip of 70 degrees or more in places and is from 3 to 5 feet in width. It has been proved over a horizontal distance of about 600 or 800 feet at the present time.

The writer has made no reports on the mine but looked it over for himself and took enough samples to satisfy himself to do this development himself this summer but sickness last winter has prevented this and he now makes application for help.

The ore, after getting out of the oxidized zone, is sphalerite and galena carrying a few ounces of silver and a trace of gold. Forty three tons was sorted and shipped from No. 3 level in 1942 and the zinc is favorable for manufacture of electrolytic zinc as Anaconda bought it from the mine after receiving a sample. This ore ran 13.2% zinc and 9.42 % lead and 4.1 oz. silver and 0.02 oz. gold.

It is felt that this strong vein (in the same formation as the Snow Shoe which has produced a million and a half up to 1912 and an unknown amount since that time) with a 15 or 18" streak of ore that sampled between 12 and 15% in both lead and zinc should be encouraging to develop at the present prices of the metals. The rest of the vein is composed of lower grade milling ore, in No. level.

23.

a.	1 miner 25 shifts at $14.00 per shift	$500.00
	1 sucker " " " 10.00 " "	250.00
	2 laborers 10 shifts each $8.00 per shift	160.00
	1 welder 4 shifts welding boiler tubing for air line at $18.00	72.00
b.	Supervisor Taylor-total for job $250.(and board) wages	250.00
c.	Repairs on house	25.00
d.		00.00
e.	Boiler tubing for air line 1200 ft. (road to mine)	192.00
f.	Rent Compressor one month $140., jackhammer 30.	170.00
	Rent car and rails	20.00
g.		00.00
h.	Gasoline (less State refund for non highway use)	100.00
	Powder	80.00
	Bits, fuse, caps, carbide est	88.00
	Groceries above amount charged to men and deducted	50.00
	Small tools, stove, oil, grease and Inc. and St. Comp. est.	$50 to 60.00
i.	Frt. Compressor $50. Deposit for return frt. ($30.) Frt. tubing $60.	120.00
	Hauling from Libby to mine est. 3 truckloads at $20.00	60.00
	Total	$2807.00

24. In 30 days after project approved expect to be drilling, costing about $900.00
60 days 60 feet of drifting completed " " 1100.00

R M Taylor

To be attached to MF 103

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d.		00.00
e.	Boiler tubing for air line 1200 ft. (road to mine)	192.00
f.	Rent Compressor one month $140., jackhammer $30.	170.00
	Rent car and rails	20.00
g.		00.00
h.	Gasoline (less State refund for non highway use)	100.00
	Powder	80.00
	Bits, fuse, caps, carbide est	80.00
	Groceries above amount charged to men and deducted	50.00
	Small tools, stove, oil, grease and Inc. and St. Comp. est.	$50 to 60.00
i.	Frt. Compressor $30. Deposit for return frt. ($30.) Frt. tubing $60.	120.00
	Hauling from Libby to mine est. 3 truckloads at $20.00	60.00
	Total	$2007.00

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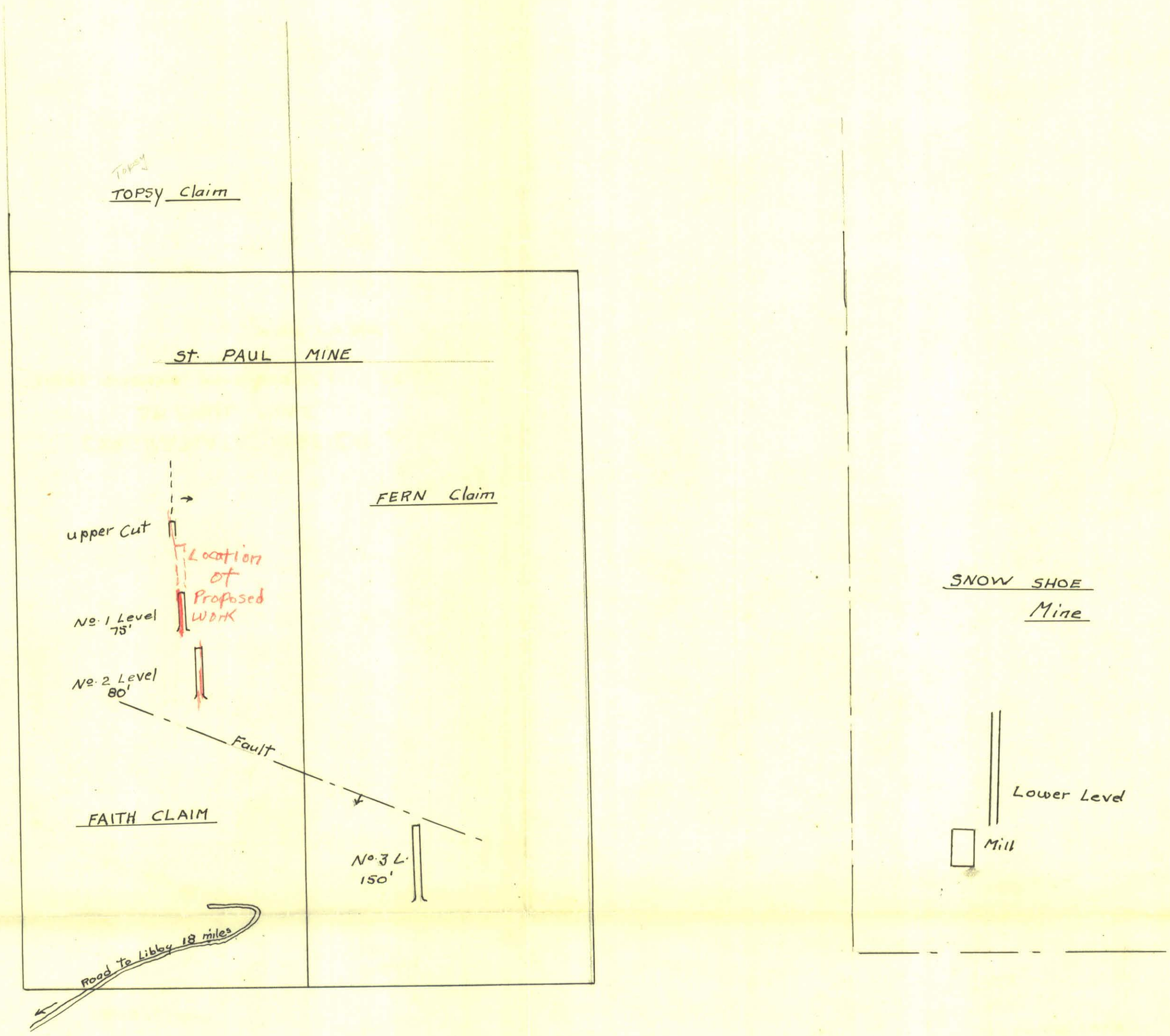
R M Taylor

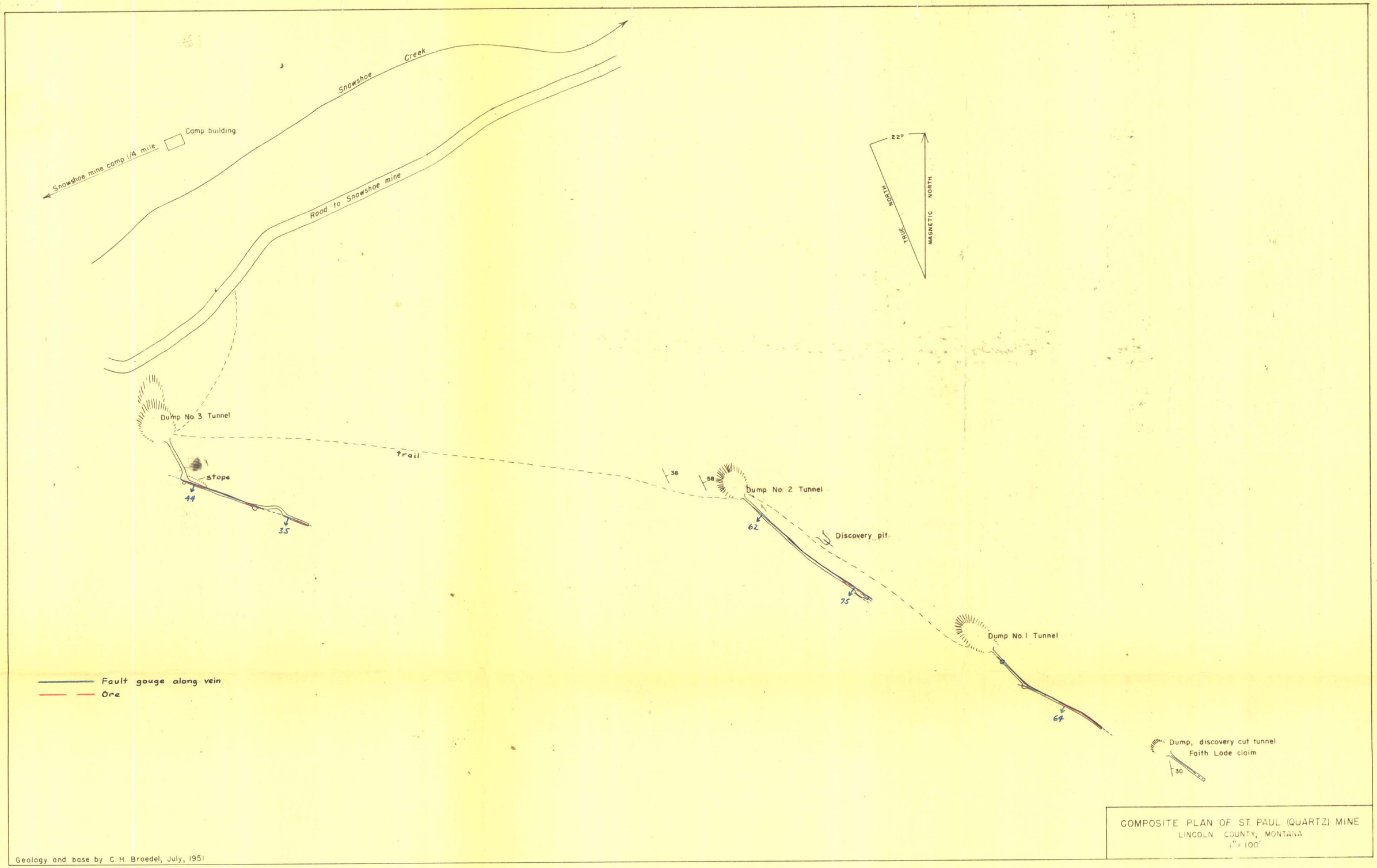


DIAGRAMATIC SKETCH

ST. PAUL MINE

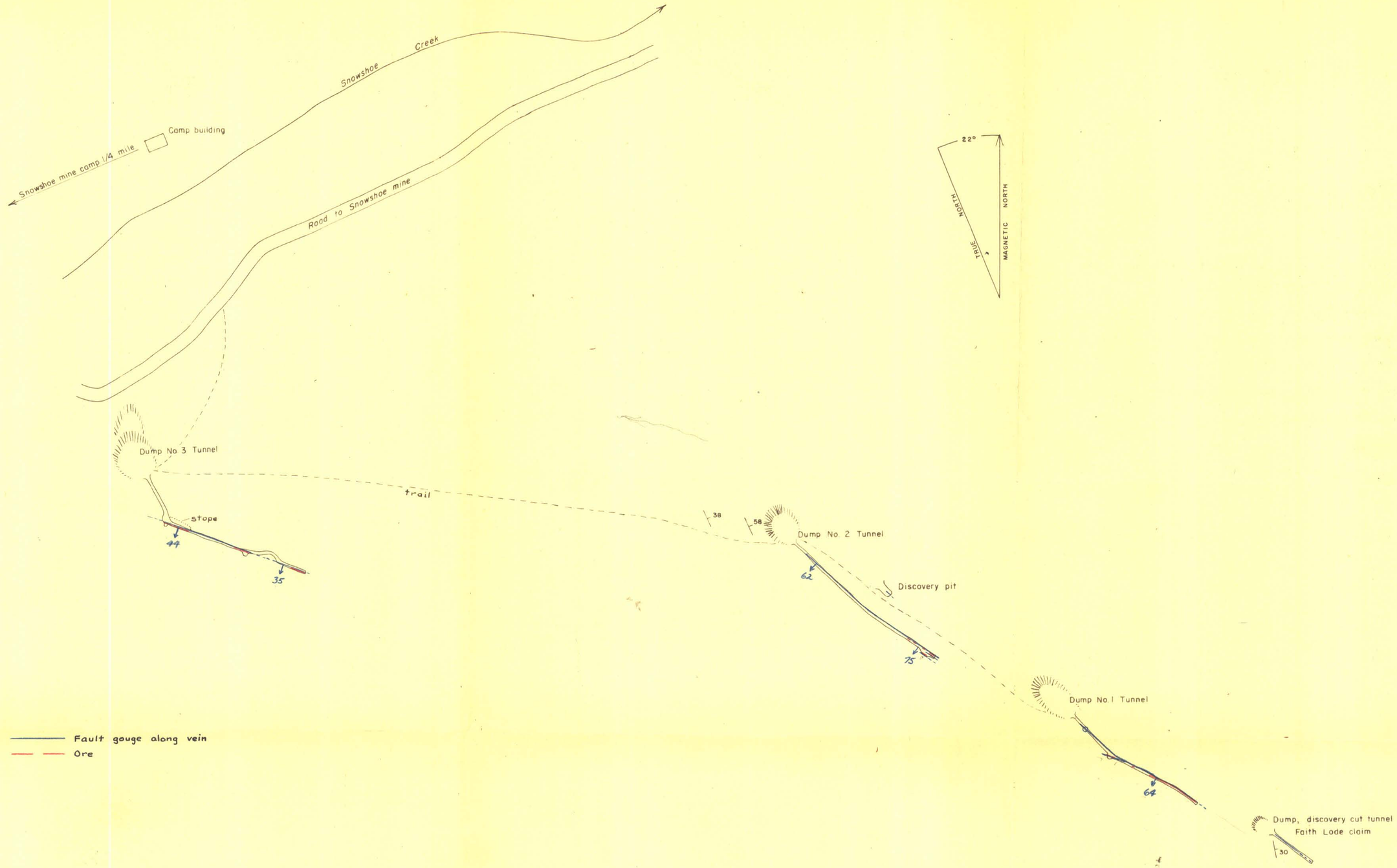
LIBBY, MONTANA, UNORGANIZED DISTRICT

SCALE 1" = 200'



COMPOSITE PLAN OF ST. PAUL (QUARTZ) MINE
LINCOLN COUNTY, MONTANA
1" = 100'

Geology and base by C. H. Broedel, July, 1951



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