DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1980

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This document has been recorded as

EXPLORATION LOAN

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:	CODE-350 3618 ~~Lead-Zinc Br.~~	Date	8-20-51
To:	Code 300 Coordinating Committee	Date	AUG 31 1951
To:	Code 350 Lead Zinc Br.	Date	10-29-51
To:		Date	
To:	~~Supply Division~~	Date	NOV 2 1951
To:	~~Reports and Records~~	Date	NOV 6 1951
To:		Date	
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INT.-DUP. SEC., WASH., D.C. 98868

FILE COPY
SURNAME: 350

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

NOV 8 1951

Re: DMA-1980

Newcomb (ETX)
McKnight
O. M. Bishop
Johnson

Messrs. G. S. Gluck and
H. F. Weyerstall
Ramsay, Montana

Dear Messrs. Gluck and Weyerstall:

Your application for an exploration loan at the G-W mine, Beaverhead County, Montana, has been reviewed by the Defense Minerals Administration. We have a field report available to us, which was made on your property at our request.

The mineralization on your property is too low grade and the width of the vein too narrow to provide commercial grade ore. For this reason, the small area of unexplored ground remaining on your property does not warrant the work you propose to do. We conclude that sufficient ore cannot be developed from the unexplored ground to justify the construction of a mill. I regret therefore, that we must deny your application for an exploration loan.

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

Very truly yours,

Tom Lyon

Tom Lyon, Director
Supply Division

ELNewcomb:emp
G 11-1-51
Copies to: A. E. Weissenborn, Region II (2)
Lead-Zinc Br.
E. T. McKnight 4204 GSA
O. M. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. files
DMA docket files

FILE COPY
SURNAME:

350

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

NOV 6 1950

Newcomb (ETM)
McKnight
Bishop
Johnson

Re: DMA-1980
G-W Mine
Vipond Mining District
Beaverhead County, Mont.
Exploration loan, $19,610
Lead-silver

Memorandum

To: Reports and Records Unit
Administrative Management Div.

From: Lead-Zinc Branch

Subject: Denial of application

The field report on the subject property recommends a denial of the application.

The applicant proposes to drive an adit and winze on mineralization which occurs parallel to bedding near the crest of an anticline. Erosion has removed the west limb of the fold and the ground down the plunge of the anticline. The east limb has been explored by two winzes which showed the ore pinched out in this direction. The potential target near the crest of the anticline may be milling ore, but the size of this block of ground is too small to supply sufficient ore for a mill. The grade of the ore and the narrow width of the ore vein indicate that the property at best would be a marginal producer. We concur with the field team in recommending a denial of this application.

Returned herewith are:

4 Forms MF-103
1 Field team report

not stripped in R.V.R.

G. E. Johnson.
G. E. Johnson, Acting Chief
Lead-Zinc Branch

Approved:

Tom Lyon

Director, Supply Division

ELNewcomb:emp
G 11-1-51

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

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

OCT 29 8 46 AM '51

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

Mr. A. E. Weissenborn
Executive Officer, DMA Field Team
Region II
South 157 Howard Street
Spokane 8, Washington

Dear Sir:

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

Docket No. DMA-1980

Commodity Lead

Applicant George S. Gluck, Ramsay, Montana

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

Very truly yours,

Tom Lyon
Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Olaf P. Rove
For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-1980

Commodity Lead

Total Amount $19,610.00

Govt. Participation $9,805.00

1. Name and Address of Applicant George S. Gluck, Ramsay, Montana

2. Location of Property G-W Mine, S 1/2 Sec. 34, T. 1. S., R. 11 W., Vipond District, Beaverhead County, Montana

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

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination Needs examination

e) Is there an alternative and favorable project? No
(If so, attach an explanation)

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

6. If applicant is a lessee, is a copy of the lease attached? Does not apply

Does the lease have sufficient time to run to cover a future

productive period? Not applicable

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? No

b) MF-202 No

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

a) Available manpower Yes

b) Equipment and supplies Don't know, see attached statement
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Grading 1/2 mile access road needed

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? Check point "b"

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

Is a field check needed on this point? No

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

a) Is the project adequately described? Yes

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

b) Is there an adequate map or sketch of the proposed work? Yes

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

If not, what part of it is? _____

Item 8. (b) The applicant lists no road grading equipment, nor is there any indication the work will be contracted.

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? Yes

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

e) Are the cost estimates reasonable? Don't know

f) Should more information be requested from applicant?_____

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

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

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

c) Is a field check needed? See attached statement Item 8

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

a) Is it applicable? Yes

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

c) Are rents and charges reasonable? Don't know

d) Is a field check needed? Yes

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

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? See attached statement

c) Is the schedule excessive for the work proposed? See attached statement

d) Are the proposed wages and salaries reasonable? appear high

e) Is a field check needed? Yes

13. (b) and (c) It is noted that the proposed work is scheduled for June - November 1952, and June - November 1953. If the project should be approved and contract signed before November 1951, the schedule might not be adequate to allow for completion within 2 years of the contract date.

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? See attached statement for item 13

(All exploration must be completed within two years)

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

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

Reviewed by: B. Gildersleeve GS 8-2851

Date 8-30-51

INT.-DUP. SEC., WASH., D.C. 99009

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

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
OCT 29 8 46 AM '51

October 24, 1951

Memorandum

To: Tom Lyon, Chairman Coordinating Committee

From: Field Team, Region II

Subject: G-W mine, DMA Docket 1980
Beaverhead County, Montana

Enclosed are four copies of a DMA mine examination on the subject property prepared by Elton A. Youngberg, Geologist, U.S.G.S. Also enclosed are two copies of "Review of Application for Exploration Assistance" received from your office, and two copies of form MF-103 on the subject property.

Mr. Youngberg recommends denial of the application on the property in question on the grounds that it is not feasible for exploration. The Field Team concurs with Youngberg's recommendation.

By Field Team, Region II

Thor K. Stilagaard
FOR: A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

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

Enclosures

cc: U.S.B.M.

OCT 29 1951

OFFICE OF THE ADMINISTRATOR

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

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.
OCT 29 8 46 AM '51

So. 157 Howard Street
Spokane 4, Washington

October 19, 1951

Memorandum

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

From: Elton A. Youngberg, Geologist, U.S. Geological Survey

Subject: Docket DMA-1980, Lead, G-W Mine
Vipond Mining District
Beaverhead County, Montana

APPLICANT

The applicants are George S. Gluck, Ramsay, Montana, and H. Frank Weyerstall, Butte, Montana, co-owners of the G-W mine.

LOCATION OF PROPERTY

The G-W mine is composed of a group of three unpatented lode mining claims in the Vipond mining district. The three claims composing the group are the Madison, Rosalind and Jefferson. The claims are located in the S½, S. 34, T. 1 S., R. 11 W., P.M. of Montana. The property is reached from Butte, Montana via Divide and Dewey on the Big Hole River. A forestry road extends southward from Dewey to Vipond Park a distance of ten miles. An unimproved road 2½ miles long extends westward from Vipond Park to the claims.

RECOMMENDATIONS

It is recommended that the project be denied exploration aid because of the lack of a feasible exploration project.

CONCLUSIONS

An investigation of the property indicates that the applicant be denied exploration aid to develop the G-W mine for the following reasons:

1. The potential target is milling ore, but of too small a tonnage to warrant a mill.

2. The grade of ore and narrow width of the ore to be mined indicate that the property at best would be marginal even though the required tonnage were developed.

MINE WORKINGS

The mine workings consist of two inclined shafts down the dip of the bedding which explore a flat-dipping vein in limestone. The north inclined shaft is approximately 265 feet long and the south inclined shaft is 200 feet long. The two shafts converge at the bottom and apparently lack only a few feet of intersecting. Several open cuts along the outcrop explore the flat-lying vein on its strike. A short adit and several cuts explore a small fissure vein a short distance to the west of the south inclined shaft.

GEOLOGY

The rocks underlying the G-W mine are limestones of the Pilgrim formation of the Upper Cambrian. The beds are flat-lying, dipping gently to the northeast. Two types of veins are present on the property. One set of veins are steeply dipping fissures in which quartz, copper, lead and zinc sulphides and silver have deposited and along which the limestone wall rocks contain replacement of these minerals. The second type of veins are quartz and lead sulphide replacements of limestone along bedding planes. The vein under consideration for exploration at the G-W mine is of this type. This vein appears to be situated in a favorable bed in the Pilgrim formation below an argillaceous limestone horizon. The mineralized portion of the favorable bed occupies the crest of a small anticlinal structure with limbs dipping at 10°-15° to the east and west. The west limb has been removed in part by erosion. The east limb dips easterly into the mountain. The favorable ore horizon has been explored in this direction by two inclined shafts and the ore was found to pinch out quickly down the dip away from the crest of the anticline.

The ore is composed of massive quartz replacing limestone which contains small amounts of galena. The quartz bands obtain a maximum thickness of about 18". Narrower quartz stringers separated by unreplaced limestone were observed as the ore weakened down the dip of the bedding. A small slip containing a small amount of gouge usually marked the foot and hanging wall of the ore horizon.

ORE POSSIBILITIES

Exploration to date and geologic information indicate that 5,000 to 7,000 tons of lead silver ore assaying 3 to 4 percent lead and 1 to 2 ounces silver per ton is the maximum tonnage which might be developed. Erosion has removed the ore from the west limb of the fold and down the plunge of the anticline leaving only the east limb open for exploration. The east limb has been explored by two winzes which showed the ore quickly pinches out in this direction. This leaves a potential ore target along the crest of the anticline of approximately 200 x 300 x $1\frac{1}{2}$ feet containing 5,000to 7,000 tons of ore as indicated above.

TECHNICAL CONSIDERATIONS

The ore which has been exposed to date is of milling grade. There is little geologic evidence which would indicate shipping ores will be found by further exploration. For the project to be economically successful, therefore, it is necessary that the potential ore target be large enough to justify the construction of a mill. Since the maximum potential tonnage now indicated is in the order of 5,000 to 7,000 tons of 3 to 4 percent lead ore, it does not appear that the project is a feasible one. The exploration target is also of marginal grade as indicated by its low tenor and narrow widths.

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

FILE COPY
SURNAME: 350

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

AUG 31 1951

Gildersleeve (ETM)
McKnight
Billinger
Mote
Ron

Re: DMA-1980

G. E. C.

Mr. George S. Gluck

Ramsay, Montana

Dear Mr. Gluck:

The Lead-Zinc Branch has reviewed your application (DMA-1980) for exploration assistance at the G-W mine. It is being sent to Mr. A. E. Weissenborn, Executive Officer, DMA Field Team, South 157 Howard Street, Spokane 8, Washington, for further information and advice.

Very truly yours,

Tom Lyon

Tom Lyon, Director
Supply Division

BGildersleeve:emp
G 8-30-51
Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Reports & Records
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

AUG 31 1951

Ref: [illegible]A-1930

Mr. George W. Clack

Lamar, Colorado

Dear Mr. Clack:

The Lead-Zinc Branch has reviewed your application ([illegible]A-1930) for exploration assistance at the [illegible] mine. It is being sent to Mr. [illegible] Weissenborn, Executive Officer, [illegible] Field Area, South 157 Howard Street, Spokane 1, Washington, for further information and review.

Very truly yours,

[illegible]

[illegible], Director
Supply Division

Wilder:sleeve:cmp
8-30-51
Copies to: A. [illegible] Weissenborn Region II (2)
Chief, Lead-Zinc Br.
[illegible] McKnight 4204, GSA
R. H. Note
Reports & Records
Directors r. File 4214, GSA
Br. r. File 4214, GSA
Files

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C. OCT 23 8 47 AM '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 1980

Date received 8-17-51

Participation

GEORGE S. GLUCK

RAMSAY, MONTANA

Name and address of applicant

Date August 11, 1951

FILL IN THIS BLOCK

Date of application August 11, 1951

Estimated cost $19610.00

Mineral or metal Lead Ore

Percentage of Government participation 50%

Location of mine Vipond Mining District, Beaverhead co, Montana

S½, S34, T1S, R11W, P.M.of Montana

Date of filing MF-100

DMA Docket Number, if available 1980

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 Form MF-200, for your signature.

DEPARTMENT OF THE INTERIOR Defense Minerals Administration RECEIVED AUG 17 1951

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Joint owners
*2. If a partnership, state names and addresses of partners. See annexed sheet One
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. Inapplicable
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See annexed sheet One
*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. Inapplicable

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement See annexed sh. One
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 annexed sheet One.

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

AUG 20 1951

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 annexed sheet Two

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

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

*11. State the present and former names of the property, if any. See annexed sheet Two

*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 annexed sheet Two

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

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

15. State in detail how the ore could be shipped and how and where milled. See annexed sheet Two

*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. See annexed sheet Two

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

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. Not available

*17. Production:

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

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

*18. Ore or mineral reserves: (If property is or has been operating.) Property is not 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. None known

THE EXPLORATION See annexed sheet Three

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

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 See annexed sheet Four

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.

(Name of company)

By Georgia Luck
(Signature of authorized official)

(Date)

N. F. Weyerstall
(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.

2. George S. Gluck - Ramsay, Montana
H. Frank Weyerstall - 648 Majors Str., Butte, Montana.

4. The project will be managed jointly by the owners of the mining claims.
G.S.Gluck - graduate mining engineer (Montana School of Mines, class of 1925. For 25 years has been connected with different mining companies; for the last ten years as a designing engineer for Anaconda Copper Mining Co, Butte, Montana.

H. Frank Weyerstall - attended Montana School of Mines for 3 years; for 20 years prospecting, trapping and homesteadding.

8. Assets:
3 lead mining claims.
1 air compressor
1 5-ton winch
Sundry mining equipment and small tools.

Liabilities:
None, no accounts payable.
Up to now all work has been done by owners. All of the items of equipment which the operators now own have been bought for cash.

9. $9805 in cash and equivalent.

The Property.

10 a. Three unpatented claims: Madison, Rosalind and Jefferson, recorded in Beaverhead county court, Dillon, Montana, books 126, 126 and 108, pages 43-4, 45-6, and 27-8, respectively.

b. The exploration is to be conducted on Madison and Rosalind claims only.

11. The above claims have been located by the applicant and were given a general name of G-W Mine. Former names, if any, are unknown.

12 The claims are located in South ½, Sec. 34, T1S,R11W, P.M. of Montana; Vipond mining district, Beaverhead county, Montana. The nearest shipping point is Divide on the S.O.L. r.rd., about 19 miles from the claims. From Divide, westward, up the Big Hole river to Dewey, along paved highway, then 10 miles southward to Vipond Park along the improved Forestry road, next about two miles westward along unimproved road of which last half a mile to the proposed camp site has to be graded.

13. Adson creek crosses the south part of the Madison claim. Although this creek was never gaged by the applicant, it is reqsonably estimated that the available water would be suffiecent for all mining and domestic purposes, as well as for operating a mill of 60-75 ton capacity.
Power line would be available about 1½-2 miles from the claims (Quartz Hill Mine). However it is proposed to drive the air compressor with a gasoline engine (about 25 hp).

15. The neares smelter is located at E.Helena, Montana (Am. Smelting and Refining Co) about 100 miles distant from the claims.
As to milling, the mill has to be erected on the property when sufficien amount of ore is assured.

16 a. The is one inclined addit (about 15 from the horizontal) on the Madison claim, about 250 ft. long. This addit was driven in search for silver ore in early 1890-ties, at the time when other properties of the district were in operation. No record of any shipment is available, neither thereis any indication that ore was shipped, although the addit is driven along the shoot of lead ore for about 75 feet.

b. There have been a number of properties in operation in 1880- and 1890-ties. The mutual position of these properties is shown on the annexed map "A2". At present mining has been resumed on the Gray Jockey group about 1 mile east of the claims.

The Exploration.

20. Lead ore occurring both as beddeing and as fissure veins in limestone.

21. Setting up the camp site which involves building of two cabins and grading about ½ mile of road . . . . . 1.5 mos

Driving one adit 5'x_6', 400 ft. long . . . . . 4.5 "

Driving one winze 4'x7', 200 ft. long . . . . . 3.0 "

Allowance for delays and loss of time . . . . . 1.0 "

Total 10.0 months.

Work to be performed in two summer seasons of 5 months each, approximately from June 1st to November 1st.

22. Claims have been located by the applicant on the basis of natural outcrops of lead ore as well as on the basis of disclosures made by prospectors of 1980-ties in their search for silver ores.

Bedded type of veins consists of galena and quartz. These veins conform to the bedding planes of limestone (Pilgrim formation of Upper Cambrian) dipping at about 15 from the horizontal and are genetically related to the fissure veins. The veins of the latter type dip at about 80 from the horizontal. Mineralogically they are more complex and, in addition to lead, they carry some copper and zinc.

Assays of few samples of ore sorted for shipment are as follows:

Location	Pb	Cu	Ag	Au	
a. Jefferson claim	24.2%	0.77%	40.6 oz	0.10 oz.	(fissure vein)
b. Madison claim	8.0		2.9		(bedded plane)
c. Madison claim	6.5	1.34	36.5	0.01	(fissure vein)
d. Madison claim	14.15	1.75	56.6	0.05	(fissure vein).

In addition, in October 1950 one shipment of ore of 6879 lbs (dry weight) was made to the Amer. Smelting and Refining Co/
This shipment was made up of ore from Rosalind claim (bedded type), Jefferson claim (fissure type) and from Madison claim (fissure type), and run as follows:

Pb - 8.9 %, Ag - 27.3 oz, Cu- 0.55%, Zn - 4.3 %.

Two maps are attached to theapplication. Map A2" shows relation of the applicant's claims to other claims in the district. Map "A" shows location of veins and proposed exploration.

The Requirements and Costs.

23 a. Labor:

2 miners @$15 per day		
Adit - 250 man-shifts	$3750	
Winze 168 " "	2520	$ 6270

b. Supervision and Engineering:

One man @ $450 per month		4500

c. 0

d. Camp Site:

Road grading	300	
1 cabin 12'x16'	960	
1 cabin 10'x14'	700	
1 Compressor shed 10'x 10'	200	2160

e.

Jackhammer with mounting . .	560	
Submarine and Air receiver . .	110	
Hoses with fittings . .	80	
2" Air pipe . .	160	
12# Track and one car . .	310	
1 Double drum Tugger . .	500	
1 Fan and piping for Winze . .	700	2420

g.

Air compressor @ $100 per month	900	
Truck @$500 per trip	425	1325

h

	Adit	Winze	
Powder @ $8 per box	$820	$160	
Fuse @$10 per 1000	70	50	
Caps @$2.50	25	20	
Drill steel and bits (tungsten carbide)	464	132	
Gas and Oil	216	108	
Carbide and small tools	100	100	
	1195	670	1865

1 Insurance, Tax and Soc. Securities		1070
	Total	$19610.00

24

	1952 (June to November)	1953 (June to November)	
Camp Site	$2160		
Equipment	1720	$ 700	
Labor	2550	3720	
Supervision	2250	2250	
Rents	725	600	
Supplies	800	1065	
Insurance	570	500	
	$ 10775.00	$ 8835.00	$19610.00

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.
OCT 29 8 47 AM '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. .....

Date received .....

Participation .....

GEORGE S. GLUCK
RAMSAY, MONTANA

Name and address of applicant

Date August 11, 1951

FILL IN THIS BLOCK

Date of application August 11, 1951

Estimated cost $19610.00

Mineral or metal Lead Ore

Percentage of Government participation 50%

Location of mine Vipond Mining District, Beaverhead co, Montana
S½, S34, T1S,R11W, P.M.of Montana

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? Joint owners
*2. If a partnership, state names and addresses of partners. See annexed sheet One
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. Inapplicable
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See annexed sheet One
*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. Inapplicable

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. See annexed sh.One
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 annexed sheet One

*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 annexed sheet Two

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

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

*11. State the present and former names of the property, if any. See annexed sheet Two

*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 annexed sheet Two

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

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

15. State in detail how the ore could be shipped and how and where milled. See annexed sheet Two

*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. See annexed sheet Two

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

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. Not available

*17. Production:

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

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

*18. Ore or mineral reserves: (If property is or has been operating.) Property is not 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. Non known

THE EXPLORATION See annexed sheet Three

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

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 See annexed sheet Four

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.

(Name of company)

By Georges Gleen
(Signature of authorized official)

(Date)

A. F. Weyerstall
(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.

2. George S. Gluck - Ramsay, Montana
   H. Frank Weyerstall - 648 Majors Str., Butte, Montana.

4. The project will be managed jointly by the owners of the mining claims.
   G.S.Gluck - graduate mining engineer (Montana School of Mines, class of 1925. For 25 years has been connected with different mining companies; for the last ten years as a designing engineer for Anaconda Copper Mining Co, Butte, Montana.

   H. Frank Weyerstall - attended Montana School of Mines for 3 years; for 20 years prospecting, trapping and homesteadding.

8. Assets:
   3 lead mining claims.
   1 air compressor
   1 5-ton winch
   Sundry mining equipment and small tools.

   Liabilities:
   None, no accounts payable.
   Up to now all work has been done by owners. All of the items of equipment which the operators now own have been bought for cash.

9. $9805 in cash and equivalent.

The Property.

10 a. Three unpatented claims: Madison, Rosalind and Jefferson, recorded in Beaverhead county court, Dillon, Montana, books 126, 126 and 108, pages 43-4, 45-6, and 27-8, respectively.

b. The exploration is to be conducted on Madison and Rosalind claims only.

11. The above claims have been located by the applicant and were given a general name of G-W Mine. Former names, if any, are unknown.

12 The claims are located in South ½, Sec. 34, T1S,R11W, P.M. of Montana; Vipond mining district, Beaverhead county, Montana. The nearest shipping point is Divide on the S.O.L. r.rd., about 19 miles from the claims. From Divide, westward, up the Big Hole river to Dewey, along paved highway, then 1o miles southward to Vipond Park along the improved Forestry road, next aboub two miles westward along unimproved road of which last half a mile to the proposed camp site has to be graded.

13. Adson creek crosses the south part of the Madison claim. Although this creek was never gaged by the applicant, it is reqsonably estimated that the available water would be suffiecent for all mining and domestic purposes, as well as for operating a mill of 60-75 ton capacity.
Power line would be available about 1½-2 miles from the claims (Quartz Hill Mine). However it is proposed to drive the air compressor with a gasoline engine (about 25 hp).

15. The neares smelter is located at E.Helena, Montana (Am. Smelting and Refining Co) about 100 miles distant from the claims.
As to milling, the mill has to be erected on the property when sufficien amount of ore is assured.

16 a. The is one inclined addit (about 15 from the horizontal) on the Madison claim, about 250 ft. long. This addit was driven in search for silver ore in early 1890-ties, at the time when other properties of the district were in operation. No record of any shipment is available, neither thereis any indication that ore was shipped, although the addit is driven along the shoot of lead ore for about 75 feet.

b. There have been a number of properties in operation in 1880- and 1890-ties. The mutual position of these properties is shown on the annexed map "A2". At present mining has been resumed on the Gray Jockey group about 1 mile east of the claims.

The Exploration.

20. Lead ore occurring both as beddeing and as fissure veins in limestone.

21. Setting up the camp site which involves building of two cabins and grading about ½ mile of road . . . . . 1.5 mos

Driving one adit 5'x_6', 400 ft. long . . . . . 4.5 "

Driving one winze 4'x7', 200 ft. long . . . . . 3.0 "

Allowanse for delays and loss of time . . . . . 1.0 "

Total 10.0 months.

Work to be performed in two summer seasons of 5 months each, approximately from June 1st to November 1st.

22. Claims have been located by the applicant on the basis of natural outcrops of lead ore as well as on the basis of disclosures made by prospectors of 1980-ties in their search for silver ores.

Bedded type of veins consists of galena and quartz. These veins conform to the bedding planes of limestone (Pilgrim formation of Upper Cambrian) dipping at about 15 from the horizontal and are genetically related to the fissure veins. The veins of the latter type dip at about 80 from the horizontal. Mineralogically they are more complex and, in addition to lead, they carry some copper and zinc.

Assays of few samples of ore sorted for shipment are as follows:

Location	Pb	Cu	Ag	Au	
a. Jefferson claim	24.2%	0.77%	40.6 oz	0.10 oz.	(fissure vein)
b. Madison claim	8.0		2.9		(bedded plane)
c. Madison claim	6.5	1.34	36.5	0.01	(fissure vein)
d. Madison claim	14.15	1.75	56.6	0.05	(fissure vein).

In addition, in October 1950 one shipment of ore of 6879 lbs (dry weight) was made to the Amer. Smelting and Refining Co/
This shipment was made up of ore from Rosalind claim (bedded type), Jefferson claim (fissure type) and from Madison claim (fissure type), and run as follows:

Pb - 8.9 %, Ag - 27.3 oz, Cu- 0.55%, Zn - 4.3 %.

Two maps are attached to theapplication. Map A2" shows relation of the applicant's claims to other claims in the district. Map "A" shows location of veins and proposed exploration.

The Requirements and Costs.

23 a. Labor:

2 miners @$15 per day		
Adit - 250 man-shifts	$3750	
Winze 168 " "	2520	$ 6270

b. Supervision and Engineering:

One man @ $450 per month		4500

c. 0

d. Camp Site:

Road grading	300	
1 cabin 12'x16'	960	
1 cabin 10'x14'	700	
1 Compressor shed 10'x 10'	200	2160

e.

Jackhammer with mounting . .	560	
Submarine and Air receiver . .	110	
Hoses with fittings . .	80	
2" Air pipe . .	160	
12# Track and one car . .	310	
1 Double drum Tugger . .	500	
1 Fan and piping for Winze . .	700	2420

g.

Air compressor @ $100 per month	900	
Truck @$500 per trip	425	1325

h

	Adit	Winze	
Powder @ $8 per box	$820	$160	
Fuse @$10 per 1000	70	50	
Caps @$2.50	25	20	
Drill steel and bits (tungsten carbide)	464	132	
Gas and Oil	216	108	
Carbide and small tools	100	100	
	1195	670	1865

1 Insurance, Tax and Soc. Securities 1070

Total $19610.00

24

	1952 (June to November)	1953 (June to November)	
Camp Site	$2160		
Equipment	1720	$ 700	
Labor	2550	3720	
Supervision	2250	2250	
Rents	725	600	
Supplies	800	1065	
Insurance	570	500	
	$ 10775.00	$ 8835.00	$19610.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard St.
Spokane 4, Washington

August 14, 1951

DM 4
1980

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

Dear Mr. Strobel:

Enclosed are three copies of an application for exploration project submitted by Mr. George S. Gluck, Ramsay, Montana, to develop a property in the Vipond Mining District, Beaverhead County, Montana. One copy of the application has been retained here to facilitate an early field examination.

Sincerely yours,

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 17 1951

August 20, 1951

Mr. George S. Gluck
Ramsay, Montana

Subject: G-W Mine
Re: Exploration Loan

My dear Mr. Gluck:

This will acknowledge receipt of your application dated August 17, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA-1980 and referred to the Lead-Zinc Branch.

Kindly refer to DMA-1980 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

AUG 20 1951
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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 1980

Date received 8-17-51

Participation

GEORGE S. GLUCK
RAMSAY, MONTANA

Name and address of applicant

Date August 11, 1951

FILL IN THIS BLOCK

Date of application August 11, 1951

Estimated cost $19610.00

Mineral or metal Lead Ore

Percentage of Government participation 50%

Location of mine Vipond Mining District, Beaverhead co, Montana
S½, S34, T1S, R11W, P.M. of Montana.

Date of filing MF-100

DMA Docket Number, if available 1980

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 application. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application 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.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 17 1951

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Joint owners
*2. If a partnership, state names and addresses of partners See annexed sheet One
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. Inapplicable
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See annexed sheet One
*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. Inapplicable

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. See annexed sh. One
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 annexed sheet One.

*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 annexed sheet Two

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

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.

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*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 annexed sheet Two

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

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

15. State in detail how the ore could be shipped and how and where milled. See annexed sheet Two

*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. See annexed sheet Two

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

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. Not available

*17. Production:

(*a*) If mine is in production, furnish the following information: Mine is not in production.

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

*18. Ore or mineral reserves: (If property is or has been operating.) Property is not 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. None known.

THE EXPLORATION See annexed sheet Three

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

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 See annexed sheet Four

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:

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

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

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

CERTIFICATION

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

(Name of company)

By George Gluer
(Signature of authorized official)

(Date)

W. F. Weyerstall
(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.

2. George S. Gluck - Ramsay, Montana
H. Frank Weyerstall - 648 Majors Str., Butte, Montana.

4. The project will be managed jointly by the owners of the mining claims.
G.S.Gluck - graduate mining engineer (Montana School of Mines, class of 1925. For 25 years has been connected with different mining companies; for the last ten years as a designing engineer for Anaconda Copper Mining Co, Butte, Montana.

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8. Assets:
3 lead mining claims.
1 air compressor
1 5-ton winch
Sundry mining equipment and small tools.

Liabilities:
None, no accounts payable.
Up to now all work has been done by owners. All of the items of equipment which the operators now own have been bought for cash.

9. $9805 in cash and equivalent.

The Property.

10 a. Three unpatented claims: Madison, Rosalind and Jefferson, recorded in Beaverhead county court, Dillon, Montana, books 126, 126 and 108, pages 43-4, 45-6, and 27-8, respectively.

b. The exploration is to be conducted on Madison and Rosalind claims only.

11. The above claims have been located by the applicant and were given a general name of G-W Mine. Former names, if any, are unknown.

12 The claims are located in South ½, Sec. 34, T1S,R11W, P.M. of Montana; Vipond mining district, Beaverhead county, Montana. The nearest shipping point is Divide on the S.O.L. r.rd., about 19 miles from the claims. From Divide, westward, up the Big Hole river to Dewey, along paved highway, then lo miles southward to Vipond Park along the improved Forestry road, next about two miles westward along unimproved road of which last half a mile to the proposed camp site has to be graded.

13. Adson creek crosses the south part of the Madison claim. Although this creek was never gaged by the applicant, it is reqsonably estimated that the available water would be suffiecent for all mining and domestic purposes, as well as for operating a mill of 60-75 ton capacity.
Power line would be available about 1½-2 miles from the claims (Quartz Hill Mine). However it is proposed to drive the air compressor with a gasoline engine (about 25 hp).

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As to milling, the mill has to be erected on the property when sufficien amount of ore is assured.

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b. There have been a number of properties in operation in 1880- and 1890-ties. The mutual position of these properties is shown on the annexed map "A2". At present mining has been resumed on the Gray Jockey group about 1 mile east of the claims.

The Exploration

1. Lead ore occurring both as bedding and as fissures veins in limestone.

21. Setting up the camp site which involves building of two cabins and grading about ½ mile of road . . . . . 1.5 mos.

Driving one adit 5'x 6', 400 ft long . . . . . 4.5 "

Driving one winze 4'x7', 200 ft deep . . . . . 3.0 "

Allowance for delays and loss of time . . . . . 1.0 "

Total 10. 0 months.

Work to be performed in two summer seasons of 5 months each, approximately from June 1st to November 1 st.

22. Claims have been located by the applicant on the basis of natural outcrops of lead ore as well as on the basis of disclosures made by prospectors of 1890-ties in their search for silver ores.

Bedded type of veins consists of galena and quartz. Theses veins conform to the bedding planes of limestone (Pilgrim formation of Upper Cambrian) dipping at about 15 from the horizontal and are genetically related to the fissure veins. The veins of the latter type dip at about 80 from the horizontal. Mineralogically they are more complex and, in addition to lead, they carry some copper and zinc.

Assays of a few samples of ore sorted for shipment are as follows:

	Location	Pb	Cu	Ag	Au	
a.	Jefferson cl.	24.2%	0.77%	40.6 oz	0.10 oz	(fissure vein)
b.	Madison claim	8.0		2.9		(bedded vein)
c.	Madison "	6.55	1.34	36.5	0.01	(fissure vein)
d.	Madison "	14.15	175	56.6	0.05	(fissure vein)

In addition, in October of 1950 one shipment of ore of 6879 lbs (dry weight) was made to Am. Smelting and Ref. Co Co

This shipment was made up of ore from Rosalind claim (bedded type), Jefferson claim (fissure type) and from Madison claim (fissure type) and run as follows:

Pb - 8.9 %, Ag - 27.3 oz, Cu - 0.55 %, Zn - 4.3 %.

Two maps are attached to the application. Map "A2" shows the relation of the applicants claims to other claims in the district. Map "A" shows location of veins and proposed exploration.

The Requirements and Costs.

23 a. Labor:

2 miners @$15 per day		
Adit - 250 man-shifts	$3750	
Winze 168 " "	2520	$ 6270

b. Supervision and Engineering:

One man @ $450 per month		4500

c. 0

d. Camp Site:

Road grading	300	
1 cabin 12'x16'	960	
1 cabin 10'x14'	700	
1 Compressor shed 10'x 10'	200	2160

e.

Jackhammer with mounting . .	560	
Submarine and Air receiver . .	110	
Hoses with fittings . .	80	
2" Air pipe . .	160	
12# Track and one car . .	310	
1 Double drum Tugger . .	500	
1 Fan and piping for Winze . .	700	2420

g.

Air compressor @ $100 per month	900	
Truck @$500 per trip	425	1325

h

	Adit	Winze	
Powder @ $8 per box	$820	$160	
Fuse @$10 per 1000	70	50	
Caps @$2.50	25	20	
Drill steel and bits (tungsten carbide)	464	132	
Gas and Oil	216	108	
Carbide and small tools	100	100	
	1195	670	1865

1 Insurance, Tax and Soc. Securities		1070
	Total	$19610.00

24

	1952 (June to November)	1953 (June to November)	
Camp Site	$2160		
Equipment	1720	$ 700	
Labor	2550	3720	
Supervision	2250	2250	
Rents	725	600	
Supplies	800	1065	
Insurance	570	500	
	$ 10775.00	$ 8835.00	$19610.00

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 1980

Date received 8-17-51

Participation

GEORGE S. GLUCK
RAMSAY, MONTANA

Name and address of applicant

Date August 11, 1951

FILL IN THIS BLOCK

Date of application August 11, 1951

Estimated cost $19610.00

Mineral or metal Lead Ore

Percentage of Government participation 50%

Location of mine Vipond Mining District, Beaverhead Co, Mont.
South ½, S 34, T1S, R11W; P.M. of Montana

Date of filing MF-100

DMA Docket Number assigned 1980

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 17 1951

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? Joint owners.

*2. If a partnership, state names and addresses of partners. See annexed sheet One.

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

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

*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. Inaaplicable

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. See annexed sh, One

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 annexed sheet One.

*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 annexed sheet Two

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

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

*11. State the present and former names of the property, if any See annexed sheet Two

*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 annexed sheet Two

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

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

15. State in detail how the ore could be shipped and how and where milled. See annexed sheet Two

*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. See annexed sheet Two

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

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. Not available

*17. Production:

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

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

*18. Ore or mineral reserves: (If property is or has been operating.) Property is not 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. Non known.

THE EXPLORATION See annexed sheet Three

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

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 See annexed sheet Four

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.

(Name of company)

By George Shuen
(Signature of authorized official)

(Date)

H. F. Weyerstall
(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.

2. George S. Gluck - Ramsay, Montana
H. Frank Weyerstall - 648 Majors Str., Butte, Montana

4. The project will be managed jointly by the owners of the mining claims.

G. S. Gluck - graduate mining engineer (Montana School of Mines, class of 1925) For 25 years has been connected with different mining companies; for the last ten years as a designing engineer for Anaconda Copper Mining Co, Butte, Montana.

H. Frank Weyerstall - attended Montana School of Mines for 3 years; for 20 years prospecting, trapping and homesteadding.

8. Assets:
3 lead mining claims.
1 air compressor
1 5-ton winch
Sundry mining equipment and small tools.

Liabilities:
None, no accounts payable.
Up to now all work has been done by owners. All of the items of equipment which the operators now own have been bought for cash.

9. $ 9805 in cash and equivalent.

The Property.

10 a. Three unpatented mining claims: Madison, Rosalind and Jefferson, recorded in Beaverhead county court, Dillon, Montana, books 126, 126 and 108, pages 43-4, 45-6, and 27-8, respectively.

b. The exploration is to be conducted on Madison and Rosalind claims only.

11The above claims have been located by the applicant and were given a general name of G-W Mine. Former names, if any, are unknown.

12. The claims are located in South ½, Sec.34, T1S, R11W, P.M. of Montana; Vipond mining district, Beaverhead county, Montana. The nearest shipping point is Divide on the O.S.L. rail rd., about 19 miles from the claims. From Divide, westward, up the Big Hole river to Dewey, along paved highway, then 10 miles southward to Vipond park along the improved Forrestry road, next about 2 miles westward along unimproved road of which last half a mile to the proposed camp site has to be graded.

13. Adson creek crosses the south part of the Madison claim. Although this creek was never gaged by the applicant, it is reasonably estimated that the available water would be sufficecent for all mining and domestic purposes, as well as for operating a mill of 60-75 ton capacity.
Power line would be available about 1½ - 2 miles from the claims (Quartz Hill Mine). However it is proposed to drive the air compressor with a gasoline engine (about 25 hp).

15. The nearest smelter is located at E. Helena, Montana (Am. Smelting and Refining Co) about 100 miles distant from the claims.
As to milling, the mill has to be erected on the property when sufficecent amount of ore is assured.

16 a. There is one inclined addit (about 15 from the horizontal) on the Madison claim, about 250 ft. long. This addit was driven in search for silver ore in early 1890-ties, at the time when other propert ties of the district were in operation.No record of any shipment is available, neither there is any indication that ore was shipped, although the addit is driven along the shoot of lead ore for about 75 ft.

b. There have been a number of properties in operation in 1880- and 1890-ties. The mutual position of these properties is shown on the annexed map "A2". At present mining has been resumed on the Gray Jockey group about 1 mile east of the claims..

The Exploration.

20. Lead ore occurring both as beddeing and as fissure veins in limestone.

21. Setting up the camp site which involves building of two cabins and grading about ½ mile of road . . . . . 1.5 mos

Driving one adit 5'x_6', 400 ft. long . . . . . 4.5 "

Driving one winze 4'x7', 200 ft. long . . . . . 3.0 "

Allowanse for delays and loss of time . . . . . 1.0 "

Total 10.0 months.

Work to be performed in two summer seasons of 5 months each, approximately from June 1st to November 1st.

22. Claims have been located by the applicant on the basis of natural outcrops of lead ore as well as on the basis of disclosures made by prospectors of 1980-ties in their search for silver ores.

Bedded type of veins consists of galena and quartz. These veins conform to the bedding planes of limestone (Pilgrim formation of Upper Cambrian) dipping at about 15 from the horizontal and are genetically related to the fissure veins. The veins of the latter type dip at about 80 from the horizontal. Mineralogically they are more complex and, in addition to lead, they carry some copper and zinc.

Assays of few samples of ore sorted for shipment are as follows:

Location	Pb	Cu	Ag	Au	
a. Jefferson claim	24.2%	0.77%	40.6 oz	0.10 oz.	(fissure vein)
b. Madison claim	8.0		2.9		(bedded plane)
c. Madison claim	6.5	1.34	36.5	0.01	(fissure vein)
d. Madison claim	14.15	1.75	56.6	0.05	(fissure vein).

In addition, in October 1950 one shipment of ore of 6879 lbs (dry weight) was made to the Amer. Smelting and Refining Co/
This shipment was made up of ore from Rosalind claim (bedded type), Jefferson claim (fissure type) and from Madison claim (fissure type), and run as follows:

Pb - 8.9 %, Ag - 27.3 oz, Cu- 0.55%, Zn - 4.3 %.

Two maps are attached to theapplication. Map A2" shows relation of the applicant's claims to other claims in the district. Map "A" shows location of veins and proposed exploration.

The Requirements and Costs.

23 a. Labor:

2 miners @ $15 per day		
Adit - 250 man shifts . . .	$3750	
Winze - 168 " " . . .	2520	
		$ 6270

b. Supervision and Engineering:

One man @ $450 per month		4500

c. 00

d. Camp Site:

Road grading	300	
1 Cabin 12'x16' . . .	960	
1 Cabin 10'x14' . . .	700	
1 Compressor shed 10'x10' . .	200	
		2160

e.

Jackhammer with mounting . .	560	
Submarine and Air receiver . .	110	
Hoses with fittings . .	80.0	
2" Air pipe . .	160	
12# track and one car . .	310	
1 Double drum tugger . .	500	
1 Fan and piping for winze . .	700	
		2420

g.

Air compressor @100 per month	$900	
Truck @$5.00 per trip	425	
		1325

h.

	Adit	Winze	
Powder @$8per box	$ 320	$160	
Fuse @$10 per 1000	70	50	
Caps @$2.50	25	20	
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	1195	670	1865

l. Insurance, Tax, Soc.Securities		1070
Total		$19610.00

24

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Camp Site	$2160		
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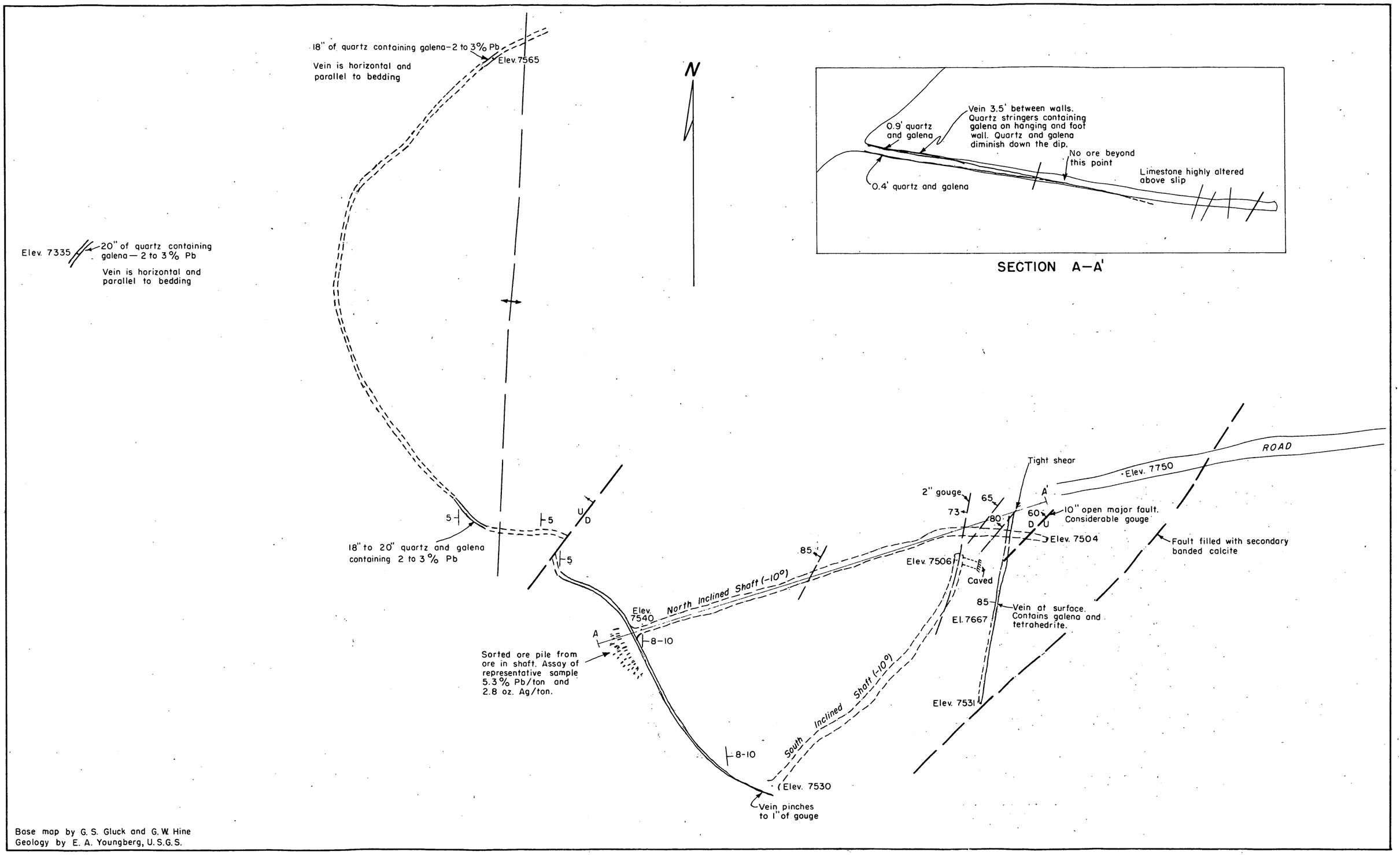
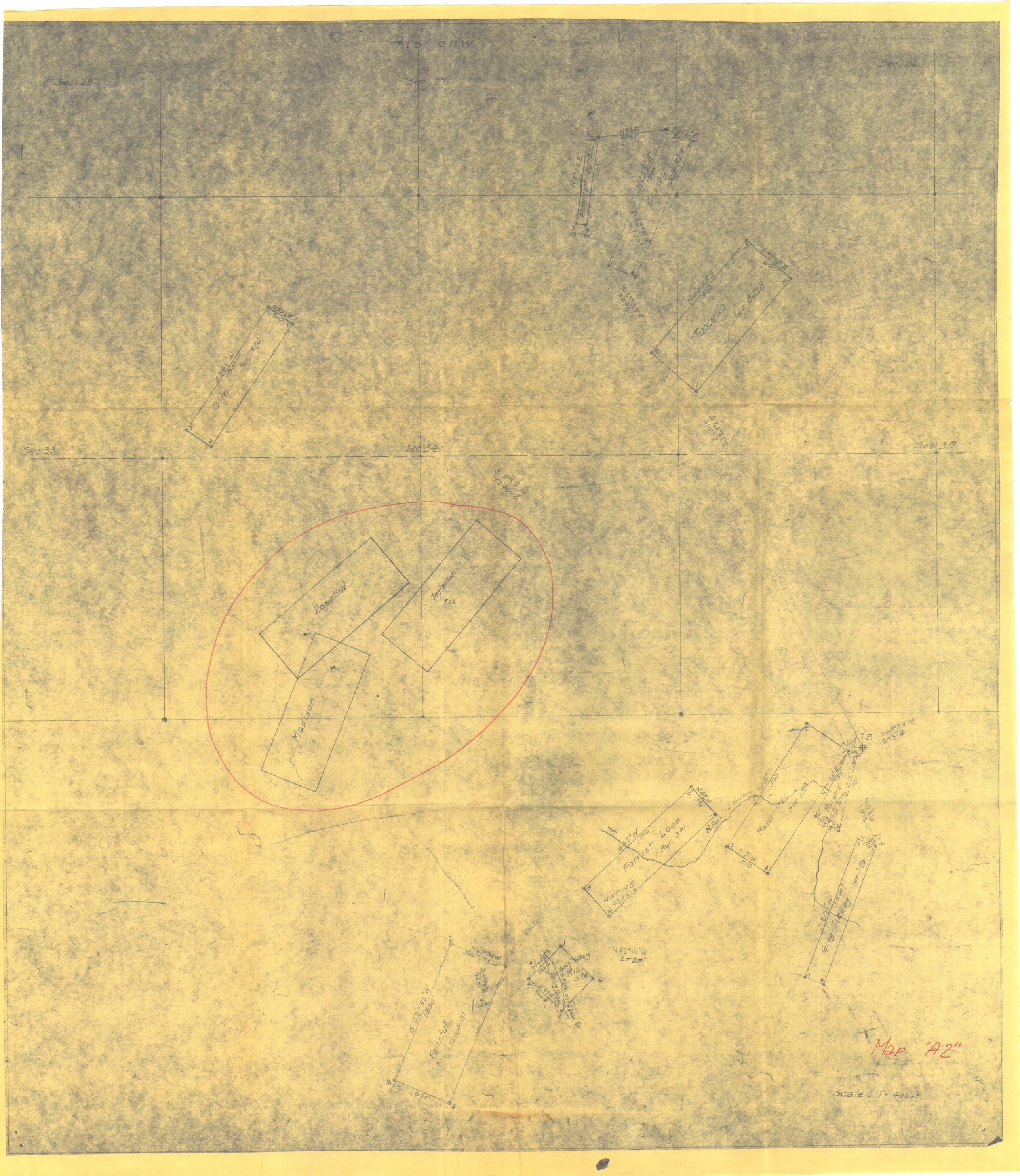
Rents	725	600	
Supplies	800	1065	
Insurance	570	500	
	$10775	$8835	19610



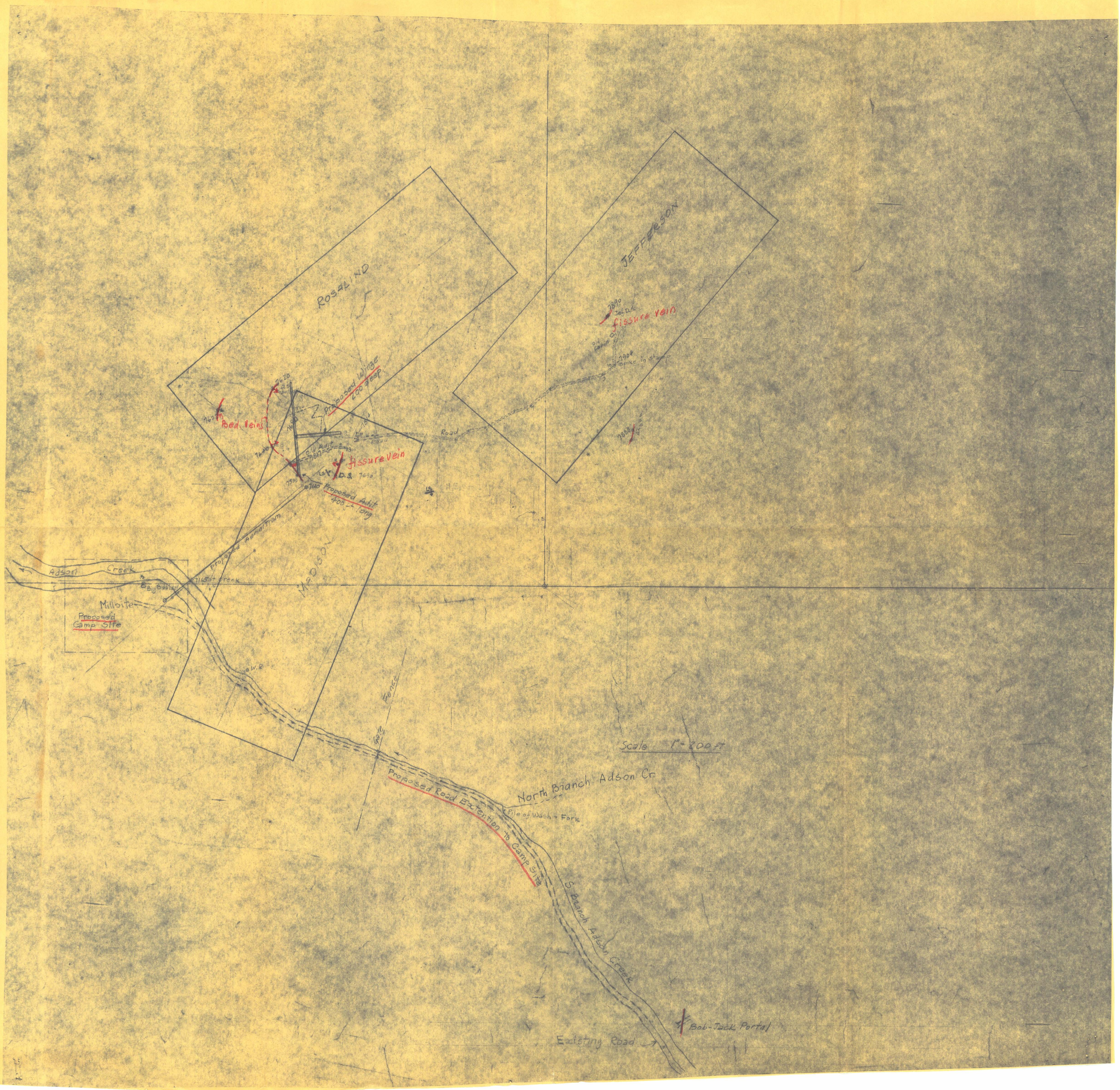
GEOLOGIC MAP OF G-W MINE, VIPOND MINING DISTRICT, BEAVERHEAD COUNTY, S 1/2, SEC. 34, T. 1 S., R. 11 W., P.M., MONTANA

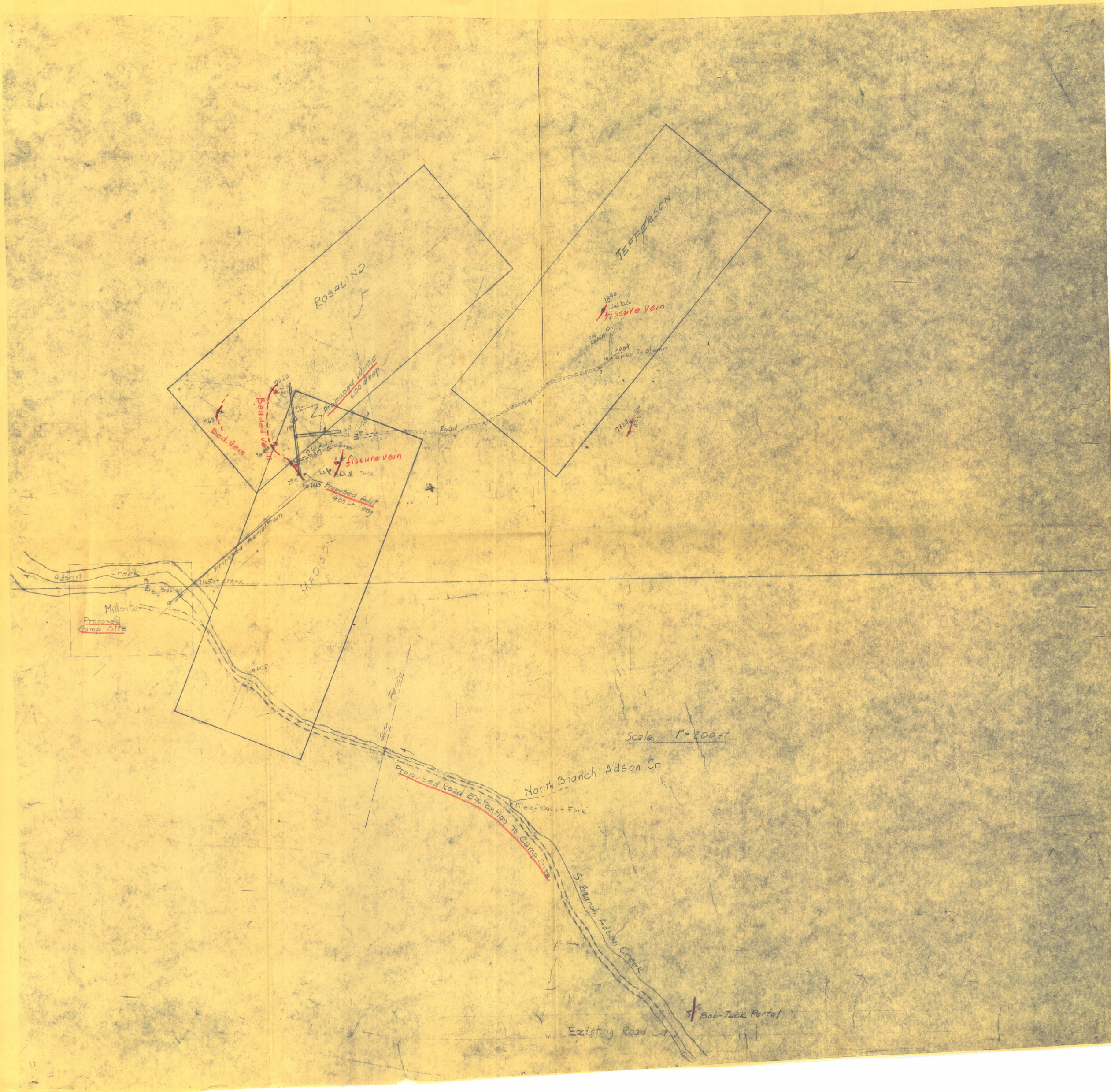
0 50 100 150 200 Feet

Rosalind
D.S.
1565
18" VEIN
Z-3% Pb
20" Qtz + Culens
7535 HORIZONTAL
Open Cut
Trail
24
26
25
27
AXIS FOLD
18" Qtz.
3.4% Pb
Hot
Outcrop
Trail
U
D
5°
5°
Camp
1949
ROSA
2' GAUGE
BROKEN
FAULT
7750
7504
7506.5
7540
N. Incline
AVERAGE
7-10% ORE
Tree
2.3% ORE
7532
New Adit
7530
S. Incline
SAMPLE No 1
GRAB FROM DUMP
5.3% Pb + 2 oz Ag.
short adit
7667
Madison D. P.
(Stump)
7631
FAULT FILLED WITH
BANDED SECONDARY CALCITE
Scale 1" = 50 Ft.


T.1 S. R.11 W.
Sec. 28
Sec. 27
Sec. 26
Sec. 33
Sec. 34
Sec. 35
Rosalind
Jefferson
Madison
Tuxedo
Sur. 8028
Olin
Sur. 524
Forest Lode
Sur. 391
Gray Jackey
Sur. 340
Fairhaul
Sur. 4081
Gray Jackey Mill Site
Scale 1" = 400 ft

Map "A2"


ROSALIND
JEFFERSON
MADISON
Fissure vein
Old Cabin
Spike in stump
Bed. Veins
Proposed Wings
200 Deep
Trail
Road
Old Adit
Fissure vein
Proposed Adit
400 ft long
Proposed Aerial Tram
Adson Creek
Big Bend
Millsite
Proposed Camp Site
Gate
Fence
Scale 1" = 200 ft
North Branch Adson Cr.
Pile of Wash + Fork
Proposed Road Extention to Camp Site
S. Branch Adson Creek
Bob-Jack Portal
Existing Road


ROSALIND
JEFFERSON
MADISON
Bed. Vein
Bedded Vein
Proposed Winze 200 deep
fissure vein
Old Adit
Proposed Adit 400 long
Road
fissure vein
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Spike in stump
Proposed Aerial Tram
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Millsite Creek
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