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. Dma-36X

Date received 5/7/51

Geo. C. Darrah
818 Idaho St
Lewistown Montana

Name and address of applicant

Date April 23, 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) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) 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.

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 Six Shipments of ore made from the property

   If not in production or operation, estimated date when production will begin As soon as funds are available
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)
Geo. C. Darrah	Owner.	(No Corporation)					
	Total		x 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	$ (No	$ Corporation)	$		
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.)		None	None	None	None
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.

Page 1. General Technical Data.

1. (a). Gold, Silver, Copper, Lead, Zinc, Antimony, Sulphur, Iron, Aluminum Clay, Manganese.

2. Golden Armells, Armells Producer, Armells Bonanza, High Hope, Snow Bird, Iron King, Surprize.
(a). Linear feet of shafts:- 195 Feet on all claims.
(c). Linear feet of tunnels or adits:- 1242 feet.
(d). Linear feet of open cuts:- 430 feet.
Have water in one tunnel on the Golden Armells claim.
This ore body would require pumping if a shaft was sunk.
Not to great amount of water present.
The veins in these claims run from 8 inches to 20 foot some of them widening as depth is acquired.

3. (a). Shipping point is 4 miles north. Fergus is the closest town about 12 miles.
(b). Cone Butte Unorganized district.
(c). Sec. 15. Township 17 N. Range 20 E.
(d). Fergus County, Montana.

4. (a). Not in operation except for assessment work.
(b). Owner.

5. Experience of operators.
20 years experience in mining and prospecting under good mining men. High school graduate, with one year of college. Graduated from a business course, held a position as Book-keeper for two different firms, and have farmed prior to 1931.

7. History.
(a). We have done plenty of work on the property to determine the different ores and there approximate value at the depths we have gone. And by the study of the geology we are satisfied that there are large bodies of ore at lower depth.
(b). Murphy group of claims joining on the east had a small mill that produced some ore, also some shipments of ore was made. Amount unknown.
Vince Gies property to the south shipped some ore, amount unknown to me.
Old Glory group of claims joining on the east owned by L. Olson shipped over 400 tons of ore. On all of these properties there are showings of galena and zinc as well as gold and silver. Maiden is about 5 miles distant with a very large production of ore to its credit.
(c). We have had three or four mining engineers who have examined the property and all were favorably impressed with it. Both Mr Roby and Mr Robertson looked over the property.
We are in the Elk Peak territory that Engineer Hoyt mentioned favorably. From the fact that this territory is so heavily mineralized it would not be surprising to uncover some other scarce minerals that would be needed in defense.

Mineral 36 Fergus

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11. Yes. We expect to enlarge production according to equipment and means available.

12. Most of these ore deposits are contact veins in place. The contact is porphery and lime. With phonelite dykes near the ore bodies. We have no available geology report. A report on this district was made by Almon F. Robertson on the mines and mineral deposits of Fergus county in the Bureau of Mines information Circular 7544. He mentions my property in same. I am enclosing smelter sheets on the ore shipped.

Total Ore or Mineral Reserves:-

(a). As near as we can estimate by our working and measurements and the geology of the area, we would estimate the property to contain a minimum of 480.000 tons exclusive of the magnetite iron deposit and the clay deposit that contains a huge tonnage. The iron deposit is about 20 foot wide on the surface and we opened it up at 100 foot depth, and have a face of ore in the tunnel. The clay deposit is 15 foot wide or more. I am enclosing some assays. We have had hundreds of assays on the property but have lost a great number of them to parties who seemed to be interested, but never returned them.

(b). High Hope estimated tonnage 100,000 tons.
Metal content per ton:- 12.9 oz. silver, .020 oz. gold 5.8% lead, 3.6% zinc. (c). Gross value per ton $44.51 per ton.
(d). Net value $16.70 per ton.
(e). $27.81, including freight, hauling, mining, and smelting.

Armells Bonanza:- (a). estimated tonnage 60,000 tons.
(b). 2.1 oz. silver, .470 oz. gold. (c). Gross value per ton $131.25. Zinc. 37%. (d). Net value $81.34. (e). $59.91.

2 foot vein (a). estimated tons 50,500 tons.
(b). 2 assays 1.9 oz. silver, .080 oz. gold, 2.7% lead,& 0.6% zinc.
9.3 oz. silver, .020 oz. gold, 15.3% lead & 1.1% zinc
(c). Gross value $33.40. (d). Net value $10.40. (e). $23.00.

3½ foot vein 0.7 oz. silver,.23 oz. gold, 25,000 tons milling ore.

Golden Armells:- (a). estimated tons. 75,000 tons.
(b). Metal content:- 3.4 oz. silver, 0.78 oz gold.
(c). Gross value per ton $30.36.
(d). Net value per ton $10.37.
(e). Cost of production $19.99.

Armells Producer:- (a). estimated tons 100,000 tons.
(b). Metal content:- 4.3 oz. silver, .020 oz. gold, 27% lead 15.2% zinc. (c). Gross value per ton $149.57.
(d). Net value per ton $95.52. (e). Production cost $54.05.

Iron King:- (a). estimated tonnage 200,000 tons or more. It is a large deposit of high grade magnetite iron.

Snow Bird:- (a). Estimated tonnage 70,000 tons.
(b). Metal or mineral content:- 5.85% copper, 11.9 oz. silver, .010 oz gold, 3% zinc. (c). Gross value per ton $49.87.
(d). Net value per ton $21.96. (e). Production cost $28.91.
At other end of this claim is a large deposit of kaolin that contains aluminum.

Surprize claim:- (a). Estimated tonnage:- Not developed enough to give an acurate estimate of tonnage as ore is in pockets in the lime. (b). Metal content:- 25.7 oz silver, 0.010 oz gold, 71.5% lead. (c) Gross value per ton $266.23.
(d). Net value per ton $193.20.
(e). Production cost $73.03.

13. Access Roads.
4 miles to shipping point. Dirt road to shipping point.
Road will have to have some repairs.
Supply and residence point 31 miles, Lewistown Highway.
14. Water Supply:- Mountain springs and streams. Plenty water all year.
15. Will have to be fuel oil or gas for the present. Natural gas about 2 miles away. Power line about 4 miles.
16. Labor:- None, but plenty of labor available.
17. Equipment and facilities.
Two buildings on the property. House 24x24 ft. machine shed 20x20 ft. needing some repairs. One jackhammer, two obsolete compressors and some small mining tools.
18. None.

(*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.

(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)	These	questions	answered	on attahed	sheets

(*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.

14. Water Supply:

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

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

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

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.

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

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.

Golden Armells
(Name of company)

By Geo C. Dorrah
(Signature of authorized official)

April 23, 1951
(Date)

Owner & 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.

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

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. Dma-36X

Date received 5/7/51

Participation

Geo. C. Darrah
818 Idaho St.
Lewistown, Montana

Name and address of applicant

Date April 23, 1951.

FILL IN THIS BLOCK

Date of application April 23 1951.

Estimated cost $200,000.00 to insure full production

Mineral or metal Manganese, Antimony, Iron, A.Clay. Copper. Gold, Silver, Lead, Zinc

Percentage of Government participation $100,000.00

Location of mine In Judith Mountains, about 12 miles southwest of Fergus. Mont.

Date of filing MF-100 April 23, 1951.

DMA Docket Number, if available D. M A.-36 X

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual.
*2. If a partnership, state names and addresses of partners. None
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. No Corporation.
*4. Describe the mining and general business experience of (a) the applicant, and (b) the person or persons who will manage the project. This question answered in no 6. MF-100.
*5. Are you the owner of the property? Owner.
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. Nothing against it.
7. If lessee, attach a copy of the lease and state if it is in good standing. Not a Lessee.

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. 8. Answered in Form NSRB-146 sent in Feb. 12, 1951.
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)? Am not able to furnish money to match loan, but am willing to give all the value of the work I have done on the project and to pay an equitable share of the money received from ore sales to pay the loan.

*If you take umbrage at these questions on MF-100, you need not answer the questions on this application.

THE PROPERTY

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

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

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.

*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.

THE EXPLORATION

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

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.

Golden Arrello Mining (Name of company) By Geo. C. Dorsch (Signature of authorized official)

April 23, 1957 (Date) Owner & 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

10. (a). The sev[illegible] cl[illegible]s mentioned in the descri[illegible]ion [illegible] the property
(b). same.
11. Golden Armells Mining Co. consisting of 7 claims as follows:-
Golden Armells, Armells Producer, Armells Bonanza, High Hope,
Iron King, Snow Bird, and Surprize.
12. Answered in MF-100 no 13.
13. Answered in MF-100 no 14 and 15.
14. Answered in MF-100 no- 17.
15. Could ship by rail, and milled at Helena, Anaconda, or Salt Lake .
16. History:- Property has been developed by shafts, tunnels and open cuts, with six shipments of ore made. Suspension of operation caused from lack of capital to properly develop ore bodies.
(b). Answered in MF-100 no 7.
(c). Answered in MF-100 no 7. (c).
17. Mine not in production.
18. Answered in MF-100 no 12. Total Ore or mineral reserves.
19. It is possible that other strategic minerals may be located while exploring.
20. Lead, Zinc, Copper, Manganese, Antimony, Gold, Silver, Iron Aluminum Clay and any other minerals uncovered during the exploration.
21. We propose to open up a Lead, Zinc, Antimony ore body with the use of a bulldozeer to determine acurately as possible the cheapest means of producing the ore. This can be completed inside of the limit allowed. We also intend to explore the other ore bodies of Lead, Zinc and Copper andthanganese on the property. This exploration will be done through a shaft and tunnel work.
22. The property is highly mineralized, with veins showing on surface and others opened up. Shipments of ore have been made. Am sending some assay sheets and smelter returns on some of the shipments.
23. (a) 8 to 10 miners wages about $30,000.00.
(b) 1 ---------- $ 5,000.00.
(c) cost of repairs to existing facilities including roads and buildings. ---------- $13,000.00.
(e). Bulldozer, compressor. air hammers, trucks, hoist, pipe and track, power engine, mine cars, cage or bucket.-- $37,000.00.
(f). None. (g) None.
(h). oil, gas, small tools, powder, caps and fuse and misc. ---------- $10,000.00.
Misc. such as social security, insurance and office supplies ---------- $ 5,000.00.

Total. $100,000.00

FILE COPY
SURNAME:

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

ALBrokaw
McKnight
Herres
Moto
Strobel 5/17

May 10, 1951

Memorandum

To: Executive Secretary, D. M. A.

From: Lead-Zinc Branch, D. M. A. Re: Docket DMA-36

Subject: Denial of application for exploration loan
George C. Harrah
518 Idaho Street
Lewistown, Montana

Commodity: Pb, Zn, Mn, Fe, Cu, Au, Ag, Sb.

The application for an exploration loan of $200,000 to explore and develop 7 mining claims in Fergus County owned by the applicant has been reviewed by the Lead-Zinc Branch.

The applicant states that the amount of money needed to reach full production from the properties is $200,000. The Government's share would be $100,000. In answer to question 23 of Form DP-103 the applicant's itemized statement of requirements and costs is estimated at $100,000. No explanation for the remaining $100,000 is offered. It is possible that the exploratory phase of this proposal is estimated at $100,000 and that the $200,000 figure is for total cost of putting the property into production. If this is the correct interpretation, the Government's share would be reduced to $50,000.

The applicant is unable to match funds with the Government except in a manner that is not in accord with the established rules for the exploration program. He offers to give in the place of actual cash, all the value of work previously done on the property and in addition, an equitable share of the money received from future ore sales.

The Lead-Zinc Branch, therefore, recommends that the application be denied. The application has been considered, also, for a direct mining loan. Since there are no proven ore reserves on the property, it does not qualify for a loan of this type.

ALBrokaw:emp
G 5/10/51
Copies to: A. E. Weissenborn
Region II (2)
Chief, Lead-Zinc Branch
E. T. McKnight 4204 GSA
L. B. Moon
R. H. Mote
L. F. Strobel
T. Lyon

Otto Herres

Otto Herres, Chief
Lead-Zinc Branch

Directors reading file 4214 GSA
Br. reading file 4214 GSA
Files ✓

Docket 36

856

FILE COPY
SURNAME:

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

AlBrokaw
McKnight
Herzog
Moon
Strobel 5/17

May 10, 1951

Re: Docket DMA-36

Mr. George C. Darrah
813 Idaho Street
Louistown, Montana

Dear Mr. Darrah:

The Defense Minerals Administration has reviewed your application and accompanying letter. The review indicates that your property does not qualify for a direct mining loan because there are no proven ore reserves. The work you propose to do is exploration. In our letter of April 21, 1951, we pointed out that for exploration projects for lead-zinc, it is necessary that the applicant furnish 50 per cent of the required funds. Your proposal for furnishing your share of the money, by substituting the value of previous work done on the project, and by applying a percentage of the returns from future ore sales, is not acceptable under the rules established for the exploration program. It is, therefore, mandatory that your application be denied.

We wish to thank you for bringing this property to our attention. If in the future you are financially able to contribute to such a project we will reconsider your application.

Very truly yours,

Tom Lyon
Tom Lyon, Director
Supply Division

AlBrokaw:emp
G 5/10/51
Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Branch
E. T. McKnight 4204 GSA
L. B. Moon
R. H. Mote
L. F. Strobel
T. Lyon
Directors reading file 4214 GSA
Br. reading file 4214 GSA
Files

FILE COPY
SURNAME:

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

May 10, 1951

Mr. George C. Darrah
Lewistown
Montana

Subject: DMA-36 X
Re: Exploration
Loan - Golden Armella, Iron King and Snow Bird Mines

My dear Mr. Darrah:

Receipt is acknowledged of your application and attachments of April 23, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number 36 X and referred to Mr. Otto Herres, Chief, Lead-Zinc Branch, on May 8, 1951.

In any future correspondence relating to your application, kindly refer to DMA-36 X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:aec
cc: Strobel-2
files
Mr. Herres
Mr. Lyon

Stat. Kenner
~~LANDON~~

Lewistown, Montana.

United States, Department of Interior
Defense Minerals Administration
Washington 25, D. C.

DMA-36X
5-1-51

Gentlemen:- In reagard to my application for a loan of $100,000.00. under to Defense Production Act of 1950. I wish to say that this property through my firm belief contains large deposits of minerals and metals of strategic value and necessary to our government in time of a crisis we are now facing.
It is of course the intention of all mankind to obtain some remuneration for himself, but it is also my wish to help to provide minerals and metals necessary to help my government in its time of need. It is also possible that there may be other minerals underlying this property that may be discovered and which would help to provide more help to our nation.
It will be my intention in performing this exploration to keep in mind and to watch out for any other minerals or materials that may be needed at this time. If any such should be discovered during this exploration they will be annexed to those which I have mentioned.

It is my intention if I receive this loan to start the exploration immediately and to see that the project is worked in a business manner to bring it to fruitation as soon as possible. It is my intention by working a bulldozer on the Armells Producer claim to uncover this high grade lead and zinc ore, so as to determine the best and cheapest method of taking it out of the ground. On the High Hope and the Armells Bonanza claims we expect to explore at a greater depth by means of one tunnel and a shaft so as to produce a greater volume of ore.

These are the three claims that are the nearest to production. On the other claims although we have already located the ore I will continue exploration to locate larger bodies of greater value. On the Surprize claim while we have already discovered high grade ore in pockets in the lime we will continue our exploration expecting to uncover a large body of this high grade ore. This work of exploration can be done with the bulldozer. We will also need this bulldozer for road work, and have decided that it would be more economical to own the bulldozer than to pay high rental on one, as we could always use it in the winter time to keep the roads open. In regard to the Iron ore on the Iron King claim. The ore is in sight at surface and continues at a depth of 100 feet. On the Snow Bird claim we will explore the copper tunnel further to uncover a larger vein. And the clay with some aluminum content in it is in plain view at the surface. A large deposit of it.

If I secure the loan I will rush the work to bring it to a conclusion well inside the alloted 2 year term.

Yours very truly
Geo C. Darrah
Geo. C. Darrah

DMA-36

MAY 8 1951

FILE COPY
SURNAME:

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

APR 12 1951

Mr. George C. Darrah
818 W. Idaho Street
Lewistown, Montana

In reply please
refer to DMA-36

Dear Mr. Darrah:

One of the purposes of the Defense Production Act of 1950 is the encouragement of exploration, development and mining of strategic minerals and metals. Where an applicant has proven reserves of strategic materials, Federal aid in mining can be given through procurement contracts for such materials as are in short supply. On the strength of these contracts, the applicant can obtain private financing in most instances.

The program recently approved for encouragement of exploration of strategic materials calls for participation on the part of the applicant. For zinc, lead and copper deposits it will be necessary to match Government funds on an equal basis. Funds advanced by the Government will be considered a loan, to be repaid if the exploration is profitable, but to be canceled if unsuccessful. The details of the plan, explaining the projects that will be eligible for assistance, the terms and schedules of financing, repayment, and other pertinent information, are enclosed.

A review of your application (DMA-36) for financial aid in expanding the workings of the Golden Axnell group of claims indicates that your proposal may be considered under this exploration program. Details concerning expenditures that will be considered chargeable to exploration aid will be subject to a final determination by negotiation, but as a preliminary appraisal, we believe that the program will apply to your entire request of $100,000.00.

Before we can proceed further with consideration of your application, which may or may not require a field examination, please indicate your willingness to provide your share of the funds needed to carry out the proposed exploration. Any modification of your original proposal that you may wish to make will be considered, but you should be specific concerning the work you wish to undertake.

Very truly yours,

Otto Herres

OTTO HERRES, Chief
Lead-Zinc Branch

ETMcKnight:bsp
G 3/21/51

Copies to: Chief, Lead-Zinc Branch
USGS McKnight
L. B. Moon
R. H. Mote
2 copies to A. E. Weissenborn
Exec. Officer, Region II

Enclosures

L. F. Strobel
C. O. Mittendorf
Files

Darrah 36

Ema 36

LANDON F. STROBEL

Lewistown, Montana.
Feb. 18th, 1951.

FB 26 9 23 PM '51

Dr. James Boyd.
Administrator Defense Minerals.
Department of the Interior, Washington 25, D. C.

Dear Sir:

In reply to Otto Herres, Chief Lead-Zinc Division, DMA I am enclosing a description of this property in answer to the questionaire sent me by Mr Otto Herres. And also have filled out the forms sent me as near as possible to do so,

Further in description of this property, from my own exploration and from the views expressed by several mining engineers who have looked the property over I am confident that at a greater depth, large deposits of these ores will be encountered. These claims which lie in the Elk Peak territory which territory received a favorable report by engineer Hoyt. These claims are in the center of a territory that has produced large quantities of ore in the past. At the time we were working these claims lead was only worth about 6 cents a pound and were unable to get any payment for the Zinc content. So there was not incentive for working lead and Zinc. But with the price at the present levels it would make it appear a fair proposition. And besides the various ores that we mentioned present, there may be othere ores present at a deeper level.

With the situation facing our government at the present time it would seem that there will be need of a large amount of these metals, and it would be our intention to mine as much of these ores as possible. The amount asked for in this loan $100,000.00 would seem like a small amount for such a project, but with the preliminary work that we have done on it, and as we are to the actual ore, with the actual machinery and labor this amount would procure we should be able to produce in a very short time. Once we are in production we feel confident that the production will pay for its self and also repay the loan asked.

Trusting the enclosed is the desired information.

I am, Yours very truly,

Geo. C. Darrah

Geo C. Darrah

No1.

Date Feb. 12, 1951.

1. Geo. C. Darrah - Golden Armells Mining Co.
2. Lead, Zinc, Copper, Gold, Silver, Manganese, Magnetite Iron and a Kaolin Deposit.
3. Tunnels, Shafts and some open pit workings.
The lead, Zinc, copper, manganese, Iron, silver and Kaolin workings are dry workings at present. One gold vein wet.
High Hope Claim:- 12 foot shaft and 20 foot tunnel. Fissure contact vein of lime and syenite porphery. A two foot vein at surface in the porphery widening out as depth is gained. containing lead, zinc, silver and some gold.
This is the vein that Engineer Mr Robertson said in all probability would widen out into alarge body of ore.
Armells Bonanza claim:- One- 25 foot shaft, one- 137 foot tunnel one- 50 foot open pit, one 20 foot open pit and various other open cuts and small tunnels. These workings contain Lead, Zinc, Silver, Gold, and some manganese. The 50 foot open pit contains a Ten foot Gold, Silver and Zinc vein. The 137 foot tunnel contains a 3 foot vein of gold and silver. This tunnel if driven in about 45 feet more will tap aLead Zinc, Silver, Manganese and gold vein at a 100 foot depth. This vein is mentioned next.
The 20 foot open cut has a 2 foot vein of lead, zinc, silver, gold and manganese. A short distance to the north of this open cut another gold, silver and zinc deposit 4 foot in width is uncovered.
Golden Armells Claim:- Two Tunnels one 100 foot in length, The other 90 foot. One shaft 50 foot in depth. Other various small workings. These workings are on a contact vein of lime and syenite porphery. The vein varies from 9 inches to 4½ foot in width.
Armells Producer:- Two shafts about 30 foot in depth, on a contact of lime and syenite porphery, containing Lead, Zinc, Silver, and gold. One foot of Zinc and 2 foot of lead.
Iron King :- An open cut 20 foot in length, a 90 foot tunnel and other small workings. A large deposit of magnetite iron about 20 foot in width. A face of magnetite iron in 90 foot tunnel at 100 foot depth. A 20 foot shaft at south end of claim containing some copper, lead and zinc.
Snow bird claim:- A 200 foot tunnel on contact of lime and syenite porphery, containing a 2 foot vein of copper, zinc, and silver. Some high grade copper in this vein. At other end of this claim is a deposit of kaolin in a 20 foot open cut. Contains some aluminum, amount unknown.
Surprize claim:- Contains High grade lead and zinc with some gold and silver. This work so far is on open cut work.
4. All property is in the Judith Mountains about 5 miles from Armells on the Chicago Milwaukee R.R.. Nearest shipping point Romundstadt Spur about 3 miles. District is the Cone Butte unorganized. Township 17N, Range 20E, Section 15. County Fergus, Montana.
5. George C. Darrah manager and owner. 20 years of propecting and mining experience. Several years under the guidance of an old miner who had worked at Butte, Cripple Creek, Leadville, and other mines of the west. I also studied Geology and mineralogy Am a High School graduate and one year of college.
Graduated from a course of typing, short-hand, and worked for two different firms as a book-keeper before coming to Montana from Iowa. At present time employed as head of the cream grading department of the Fergus County Creamery of Lewistown.

6.(a) We have driven these tunnels, shafts and open cuts as mentioned on the preceeding pages. Have shipped two small carloads of gold ore and one truck load, also 3 tons of lead and zinc ore. Some years previous to the time I gained control of this property two carloads of lead and zinc ore was shipped. Also a small shipment of copper ore was made.
(b). The Murphy group of claims joining to the east had a small mill that milled some ore, also several small shipments were made. Amount unknown.
Vince Gies property to the south shipped several carloads of ore. The Old Glory group of claims joining on the east owned by L. Olson shipped over 400 tons of ore.
On all three of these properties there is showings of Galena and zinc. Maiden is about 5 miles distant with a large production of ore.
(c). We have had three or four mining engineers who have looked the property over and all were favorably impressed with it.
Both Mr Roby and Mr Robertson looked the property over.
We are on the Elk Peak territory that Mr Hoyt mentioned favorably.
7. No production at this time, only assessment work.
8. On the High Hope Claim as far as we have traced it the depth is unknown. The vein shows 2 foot at surface, and widens out as it goes down. Mr Robertson stated this vein at surface had indications of widening to 20 foot at depth. With a possible chance of replacement of a body of galena in the lime. The ore is in the porphery. The formation as far as traced shows about 1000 feet in length. The peak that the ore crops out on is about 700 to 900 foot high. Indicating that much depth on the formation and more. This ore is Lead, Zinc, silver and some gold.
Armells Bonanza Claim:- 2 foot lead, zinc,silver,manganese vein showing more width as depth is gained. Lays in a lime and porphery contact vein that indicates a length of formation of about 800 foot, a depth of possibly 900 foot or better.
The 4 foot gold,silver and zinc, the 10 foot gold, silver and zinc, and the 3 foot gold vein all lay in this same formation. In fact these veins showing on surface may be the same body of ore at a depth. Which points to a large body of ore.
Golden Armells claim:- A gold vein in contact of lime and porphery. vein varries in width from 9 inches to 4½ foot. Estimated depth would be 800 or 900 foot or better. Length of formation about 1000 foot. Indications of a good body of ore. Troubled with water on this vein.
Armells Producer Claim:- Lead, Zinc, silver and gold vein, about 3 foot in width or better. Formation indicated depth about 1000 feet or better. Length 600 to 700 foot or better.
Contact of lime and syenite porphery. Phonolite dykes are close to all mentioned are deposits. Indicating some association with the ore. These phonolite dykes cut the formations.
Iron King Claim:- Magnetite Iron deposit 20 foot in width, developed to 100 foot depth. Formation runs full length of claim and longer. Formation of Syenite porphery and quatzite. Some copper and spalerite also small amount of galena present on this claim.
Snow Bird Claim:- Lime and syenite porphery contact vein 2 foot wide or better. Formation 1200 foot in length or better. Depth of formation 700 foot or better. Contains copper, zinc, silver and gold.
Surprize Claim:- Vein 8 inches and wider of high grade lead, zinc and silver with some gold. Formation 1100 or 1200 foot in length or better, Depth possibly 600 to 700 foot or better. Lime andporphery contact. Ore mostly in the lime.

Ore or Mineral reserves on High Hope Claim:- Estimated possilbe tonnage 100,000 tons or better.
Metal or mineral content per ton as per assays:- 12.9 oz. silver, .020 oz. gold, 5.8 % lead, 3.6% zinc. Mineral content may get better with more development.
Gross value per ton $44.51 per ton.
Net value per ton $16.70 per ton after deducting smelter charges freight, and production.
Estimated cost of production about $5.00 per ton. This cost may be reduced later on.

Armells Bonanza:- Estimated possible tonnage of 2 foot vein 50,500 ton
Mineral content:- 2 average assays at surface NO 1. 1.9 oz silver, .050 oz gold, 2.7% lead, and 0.6% zinc.
NO 2 sample 9.3 oz silver, .020 oz gold, 15.3% lead, and 1.1% zinc.
This vein will widen out and show better values with more development.
Average gross value per ton as per assays:- $33.40
Net value per ton $10.40
Estimated possible tonnage of 4½ foot vein:- 60.000 tons.
Mineral content 2 average assays:- NO 1. 2.1 oz. silver, and .470 oz gold
NO 2. separate sample of the zinc. 37.2% zinc, 0.2 oz silver, .010 oz gold
Zinc in this vein seems to be separated from the gold.
Average gross value:- gold and silver $18.34
" gross value zinc:- $131.25
Net value for all metals- $ 81.34
Estimated possible tonnage of 3½ foot vein:- 25,000 tons
Mineral content as per assay:- 0.7 oz. silver, and .23 oz gold per ton.
Milling ore.
These three veins on this claim may merge together at a depth and be just one vein. On surface they are close together.

Golden Armells Claim:- Estimated possilbe tonnage 75,000 tons.
Vein is from 9 inches to 4½foot in width.
Mineral content as per assays and smelter returns:- 3.4 oz. silver, and 0.780 oz gold.
Gross value per ton:- $30.36
Net value per ton:- $10.37 per ton. Three shipments made from this claim

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Armells Producer:- Estimated possilbe tonnage 100,000 tons.
Mineral oremetal content per ton as per assays and smelter returns:- 4.3 oz. silver, .020 oz gold, 27% lead, and 15.2% zinc. per ton.
Gross value per ton:- $149.57.
Net value per ton:- $ 95.52.
Three shipments of ore made from this claim.

Iron King Claim:- Hard to estimate tonnage on this claim.
There is a large deposit of magnetite iron of high grade value in the middle of the claim. About 400 feet to the north a stringer of copper crops out on this claim. To the south of the claim on this same claim some spalerite, galena, and copper crops out. Have no assays on this ore. Although I have driven a tunnel about 90 foot in length at 100 foot depth under the magnetite iron. Have the iron at the face.

Snow Bird Claim :- Estimated tonnage on this claim:- 70,000 tons.
Metal or mineral content:- 5.85% copper, 11.9 oz. silver, .010 oz gold, 3.0% zinc.
Gross value per ton:- $49.87
Net value per ton :- $21.96.
On the other end of this claim is a large deposit of kaolin or clay. This clay and kaolin contains quite a little aluminum.

Surprise Claim:- Estimated tonnage:- This claim is not developed enough to make any estimate of the tonnage as the ore is in pockets in the lime. Metal or mineral content as per two assays:-
25.7 oz silver, .010 oz gold, 71.5% lead. There is also a zinc content in this ore.
Gross value per ton $266.23
Net value per ton $193.20.

The lead and zinc ore in this property would most likely have to be shipped to Salt Lake City in order to get paid for both the lead and Zinc Anaconda does not pay you for the lead, and East Helena does not pay you for the Zinc.

---

9. The property is about 4 miles to shipping point.
31 miles to supply point and residence (Lewistown)
There is a cabin 24 by 24 foot on the property.
It will take some improvements on road to part of the claims, and will take quite a little work on roads to the other claims.
I would estimate the cost of road work at not more than $10,000.00 and possibly less.
10. Climate:- semi- arid but varies some-what.
Average rain and snow-fall would be from 15 to 20 inches per year.
Temperature ranges from 95 degrees above in the summer to 25 degrees below in the winter.
11. The water supply is plentiful. It is sufficient for all times of the year. Abundant enough for milling purposes.
Also quite a lot of timber on the property.
12. Electric R. E. A. 3 miles distant. Montana Power line 5 miles distant. Deisel or gas power could also be used.
13.(a) No labor employed at present. It will take about 6 to 8 men to start with. More help as property is developed.
(b). I am able to get enough experienced help.
(c). Wage scale would be governed by Butte, Montana.
Wage scale from $10.00 to $16.00 per 8 hour shift.
14. (a). Will need new equipment and repairs to buildings on the property
(b). Hoist and power, Bull-Dozer, 2 air-hammers, Portable compressor, Ore cars and ore bucket or cage, Air pipe, and track, Dump- truck, Also other small mining tools.
15. Government Loan of $100,000.00.
(3) Purchase contracts:- After we get opened up, we could use purchase contracts.

dmd 36

QUESTIONNAIRE

In supplying the information needed, the numbering shown in this questionnaire should be used, but the questions need not be repeated. Please return this questionnaire with your reply.

Date_____

1. Name and address of company (or individual)

2. Materials produced

   What are the chief mine, mill or smelter products?
   What are the byproducts, if any?

3. Name (s) and type (s) of mine (s), mill (s), smelter (s), refinery (ies), pit, quarry, drilling operation (s)

   Extent of workings. Wet or Dry.
   Size or productive capacity

4. Location (of each operation listed above)

   Distance and direction from nearest town and shipping point.
   Mining District
   Township, Section, Range
   County, State

5. Experience of Operators

   Give in full the mining and general business experience of (a) the applicant and (b) the person or persons who will manage the project.

6. History

   (a) Give a full statement of previous exploration, development, operation, and production of property.

   (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.

7. Production

[illegible] (a)	[illegible] (b)	1946 TOTAL (c)	1947 TOTAL (d)	1950 TOTAL (e)	[illegible] QUANTITY (f)
1. Quantity of product mined. (Short, long, metric tons; barrels, pounds, etc.)					
2. Quantity of product processed (specify unit of measure)					
3. Total dollar value of products based on [illegible] and [illegible] or other quotations (specify) f.o.b. mine, mill, smelter or refinery.					

8. 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 that might be pertinent.

(1) Submit assay plans and/or sections showing location and size of proved (measured), probable (indicated), and possible (inferred) ore reserves.

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

TOTAL RESERVES

Ore or Mineral Reserve	Estimated tons	Total or Mineral content per ton (grade)	Gross value per ton	Recoverable Unit value per ton	Estimated cost of production per ton
Measured					
Indicated					
Inferred					

9. Access Roads

Give road distances to shipping, supply and residence points, stating kind and condition of roads. If road must be built or improved for the purpose of this operation (or related project) or for subsequent production describe in detail and estimate cost.

10. Climate

Describe climate insofar as it affects operations. (rainfall, snowfall, temperature range)

11. Water Supply

State source and quantity of water available for operations and whether sufficient for all seasons of year. If water supply must be developed for purpose of this project or for subsequent operations, describe how this is to be done and give estimated cost.

12. Power

State power requirements and source thereof. If new power facilities must be installed, describe in detail.

13. Labor and Housing

(a) State number and classes (miners, muckers, millmen, etc.) of men employed.

(b) State whether an adequate supply of experienced workmen of all classes are available.

(e) State current wage scale in district or in nearest mining district.

14. Equipment and Facilities

(a) Describe fully present equipment on the property, including buildings. (state condition).

(b) Are additional equipment or facilities necessary? If so, describe fully.

15. Government Assistance

Describe briefly type (s) of government assistance to be requested:

(1) Priorities, allocation of materials, maintenance, repair and operating supplies?

(2) Government loans?

(3) Purchase contracts?

(4) Other types of contracts?

(5) Amortization Deductions?

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

JAN 11 1951

McKnight
Mote
Herres

Mr. George C. Darrah

In replying please refer to DMA Docket No. 36

Lewistown, Montana

Dear Mr. Darrah:

Your request for assistance under the Defense Production Act of 1950 has been reviewed by the Lead-Zinc Division of the Defense Minerals Administration. Before your application can be considered further, certain additional information is required.

You state that you have uncovered additional information since Mr. Robertson of the Bureau of Mines examined your properties. The assays that you quote are insufficient to establish the value of the properties as potential zinc and lead producers, ~~to establish the value of the properties as potential zinc and lead producers,~~ as there is no evidence to show how large a tonnage the lead-zinc assays represent. We are therefore sending you a questionnaire to fill out which should supply this needed information and, in addition, much additional information that will be needed if your properties are to be considered for a loan. We are also enclosing 5 copies of DMB form 146, 4 copies of which should be filled out and returned, with the answers to the questionnaire, to Dr. James Boyd, Administrator Defense Minerals Administration, Department of the Interior, Washington 25, D. C.

When this information is received, we will be glad to give your application further attention.

Very truly yours,

Zinc
Lead

OTTO HERRES

OTTO HERRES, Chief
Lead-Zinc Division, DMA

Enclosures 5

ETMcKnight:jeh
G-1/2/51

copy to: Chairman, Commodity Committee
Geological Survey- McKnight
C. W. Merrill
S. H. Williston
J. H. Hedges

R. H. Mote
2 copies to Executive Officer, Regional Field Team, Region II
Base Metals Branch
Files

JAN 11 1951

Mr. ... Moran

Lewistown, Montana

In replying please refer
to DMA Docket No. 36

Dear Mr. Moran:

Your request for assistance under the Defense Production Act of 1950 has been reviewed by the Lead-Zinc Division of the Defense Minerals Administration. Before your application can be considered further, certain additional information is required.

You state that you have uncovered additional information since Mr. ... of the Bureau of Mines examined your properties. The assays that you quote are insufficient to establish the value of the properties as potential zinc and lead producers, xxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
as there is no evidence to show how large a tonnage the lead-zinc assays represent. We are therefore sending you a questionnaire to fill out which should supply this needed information and, in addition, much additional information that will be needed if your properties are to be considered for a loan. We are also enclosing 5 copies of DMA Form 146, 4 copies of which should be filled out and returned, with the answers to the questionnaire, to Mr. James Boyd, Administrator, Defense Minerals Administration, Department of the Interior, Washington 25, D. C.

When this information is received, we will be glad to give your application further attention.

Very truly yours,

OTTO HERRES

Otto Herres, Chief
Lead-Zinc Division, DMA

Enclosures 6

ETMcKnight:jeh
-1/2/51

copy to: Chairman, Commodity Committee
Geological Survey- McKnight
C. W. Merrill
... Hillington
J. H. Hedges

... Mote
2 copies to Executive
Officer, Regional Field
Team, Region I.
Base Metals Branch
Files

~~C. W. MERRILL~~
L. K. Strobel

Lewistown, Montana.
Jan. 6th, 1951.

DMA - 36

United States Depatment of Interior.
Bureau of Mines Washington, D. C.
Charles W. Merrill Chief
Base Metals Branch.

Dear Sir:

Your letter of Dec. 4th stating that my request for assistance under the Defence Production Act of 1950 had been received and was being considered for eligibility under the Act has been received by me.
The docket Number is DMA-36.

I wish to state that until now I have been unable to answer your letter. I wish to thank you for considering my property, and I think it will proove out alright. If there is any more information you wish me to give you I will be very pleased to do all I can.

Very truly yours,

George C. Darrah

BUREAU OF MINES
WASHINGTON, D. C.
JAN 15 1 29 PM '95

December 4, 1950

Mr. Geo. C. Dorrah

Lewistown, Montana

Dear Mr. Dorrah:

Your request for assistance under the Defense Production Act of 1950 has been received and is being considered for eligibility under the Act.

All correspondence relating to your project should be identified with the Docket Number DMA-36.

Very truly yours,

CHARLES W. MERRILL, Chief
Base Metals Branch

CWMERRILL:mec

Copy to - Base Metals Branch
Lowell Moon
Files

FILE COPY
Surplus

December 4, 1950

Mr. Geo. C. Dorrah

Lewistown, Montana

Dear Mr. Dorrah:

Your request for assistance under the Defense Production Act of 1950 has been received and is being considered for eligibility under the Act.

All correspondence relating to your project should be identified with the Docket Number DMA-36.

Very truly yours,

CHARLES W. MERRILL, Chief
Base Metals Branch

CWMERRILL:mec

Copy to - Base Metals Branch
Lowell Moon
Files

File 36

856

Lewistown, Montana.
Oct. 30, 1950.

DMA-36

Mr. S. M. Shelton.
Regional Director, Region 11.
Bureau of Mines, Box 492.
Albany, Oregon.

Dear Sir:- Oct. 8th I wrote Mr James Boyd in regard to Government financial assisstance in reopening the Golden Armells mining property at Armells Montana.
My letter was answered by Charles W. Merrill, Chief Base Metals Branch. He stated that I should write to you in regard to the property.

To date we have spent most of our time in the develoment of the gold deposits on the property and have neglected the other metal deposits on the property.
But of late the price of these other metals makes their develoment more profitable. The Golden Armells property has deposits of Lead, Zinc and silver with some gold content in 4 different places on the property.
Several shipments of ore has been made from one of these places to date. I also have two other claims with a showing of copper and iron. The names of these claims are the Iron King and the Snow Bird. The Snow Bird has a deposit of clay also that contains some aluminum (content unknown).
I sent three samples from the Iron King to the Atomic Energy Lab. Washington D. C. for a check on radio- activity.
It did not contain enough. One sample was high grade magnetite iron and one copper. I also have another claim named the surprise from which assays of 70 to 80 percent lead as well as some zinc content showed. This deposit is small.

Mr Merrill in his letter asked me to make you a rough estimate on manpour and equipment required.
Also a rough estimate of the potential production.
In regard to man-power I presume to start with 5 or 6 men besides myself would be sufficient. More help could be added as the property expanded. The equipment needed to start with would include a good compressor, air hammers, hoist and hoistingequiment, and other small mining tools.
We would either have to hire or buy a Bull- Dozer.
Some of the exploration requires Dozer work in opening up the deposits quicker. On the Armells Producer I am going to open up the deposit with a Dozer if possible before it freezes up. Later on if the property should proove good enough it will require the installation of a mill.

In regard to a rough estimate on production this would depend on the manpower and the extent of the ore deposit. It could be anywhere from 10 to 50 tons daily, and there might be a possible chance of it producing more.

Mr Almon F. Robertson a Bureau of Mines engineer examined some of this property. His findings are in the Bureau of Mines Information Circular 7544. As his time was limited the examination was also limited. Since his examination I have uncovered further data on the property.
I will include this data on separate sheet.

Trusting this property will be given your consideration,

Very truly yours.

Geo C. Donnal

U. S. BUREAU OF MINES
RECEIVED
NOV 2 1950
ALBANY, OREGON

Data uncovered since Engineers examination.

Uncovered a 4 foot gold deposit that contains zinc assaying as high as 37%. on the Armells Bonanza claim. On the Armells Producer I had an assay of 41% zinc about a foot wide. This is caved in and will require some Dozer work to uncover Possibly 2 or 3 days work with a Dozer.

Assays I had made since examination.

Sample 1 Armells Bonanza 4½ foot vein-

oz silver	oz gold per ton	lead%	zinc%
2.1	.47	0	0

Sample no 2. Armells Bananza 2foot vein.

oz silver	oz gold per ton	Lead%	Zinc%
1.9	.050	2.7	0.6

Sample no 3. Armells Producer 2 foot vein

oz silver	oz gold per ton	Lead%	Zinc. %
4.3	0.02	27.0	15.2

Sample No 4. Armells Bonanza 3½ foot vein.

Oz silver	oz gold per ton	Lead%	Zinc%
0.7	.230	0	0

Sample No 5. High Hope 2 foot vein

oz silver	oz gold per ton	Lead%	Zinc%
12.9	.040	3.3	6.2

Sample No 6. Golden Armells 2 foot.

oz silver	oz gold per ton	Lead%	zinc%
0.6	.300	0	0

---

sample no 7. Armells Bonanza 3 foot

oz silver	oz gold per ton	lead%	zinc%
0.2	.010	0	0

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sample no8 Qtz King Porphery 10 foot.

oz silver	oz gold per ton	lead%	zinc%
0.3	.020	0	0

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sample no 9 Qtz King 10 foot wide.

oz silver	oz gold per ton	lead%	zinc%
1.6	.300	0	0

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sample no 1 Armells Bananza

oz. silver	oz gold per ton	lead%	zinc.
0.2	.010	0	37.2

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sample no 2 Armells Bonanza

oz. silver	oz gold per ton	lead%	zinc%
9.3	.020	15.3	1.1

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sample no 3 Armells Producer

oz silver	oz gold per ton	)ead%	zinc%
7.6	.200	0	0

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sample no 4 High Hope

oz silver	oz gold per ton	lead%	zinc%
2.1	.015	0	0.7

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sample no 5 High Hope

oz silver	oz gold per ton	lead%	zinc%
12.9	.020	5.8	3.6

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sample no6 Golden Armells

oz. silver	oz gold per ton	lead%	zinc%
1.0	.010	0	0

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sample no 7 Surprise

oz. silver	oz gold per ton	lead%	zinc%
25.7	.010	71.5	0

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sample no 1 Snow Bird

oz silver	oz gold per ton	copper%	lead%	zinc%
1.5	.002	1.54	0	3.0

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sample no2 Snow Bird

oz silver	oz gold per ton	copper%	lead%	zinc%
0.1	.002	0.03	0	0.8

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sample no3 Snow Bird.

oz silver	oz gold per ton	copper%	lead%	zinc%
11.9	.010	5.85	0	0

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