DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1889

DO NOT DETACH THIS SLIP

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

This document has been recorded as

Exploration 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: Supply Division Reports and Records Date 10-3-57 OCT 8 1957

To: _____ Date _____

To: _____ Date _____

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INT.-DUP. SEC., WASH., D.C. 98868

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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

This document has been recorded as

APPLICATION FOR EXPLORATION PROJECT

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:	Lead-Zinc Branch	Date	7/27/51
To:	Coordinating Committee	Date	AUG 16 1951
To:	Reports & Records	Date	AUG 17 1951
To:		Date	
To:		Date	
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DO NOT DETACH

CONTROLLED DOCUMENT

FILE COPY
SURNAME: 350

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

OCT 8 1951

Newcomb (ETW)
McKnight
Billings
Bishop

Memorandum

Re: DMA-1889
Gold King Claims
Lincoln County, Montana
Exploration loan, $10,000
Lead, zinc

To: Reports and Records Unit
Administrative Management Div.

From: Chief, Lead-Zinc Branch

Subject: Denial of exploration loan

Completed

The applicant's property has been examined by a field team and their report recommends a denial of exploration assistance. The underground workings have followed a quartz vein and two weakly mineralized zones. No sulfides were observed, but abundant limonitic material suggests the former existence of iron sulfides. The exploration undertaken by the applicant has not given any indication that minable ore may exist on his property. For this reason, we feel further exploration is unwarranted. We concur with the field team in recommending a denial of an exploration loan.

Returned herewith are:

2 field team reports
2 copies Form MF-100
2 " " MF-103

T. P. Billings, Chief
Lead-Zinc Branch

Approved:
SIGNED
Director, Supply Division

not typed
R + R

ELNewcomb:emp
G 10-2-51

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

FILE COPY 350
SURNAME:

Newcomb (ETK)
McKnight
Billingsley
Bishop
Appleman

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

OCT 8 1951

Re: DMA-1889

A.E.C.

Mr. J. F. Templeman
3757 S. F. Clay
Portland 15, Oregon

Dear Mr. Templeman:

Your application for an exploration loan on the Gold King property has been reviewed by the Defense Minerals Administration. We have a field examination report made on your property at our request. Our available information indicates that sparse mineralization may exist on the Gold King Group. However, the exploration so far has not disclosed any minable ore. Limonitic material is abundant but from an examination underground we did not find sufficient evidence of lead and zinc to justify exploration assistance. I regret that we are unable to approve the expenditure of public funds for your project.

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

Very truly yours,

SIGNED

Tom Lyon, Director
Supply Division

8/10/8

ELNewcomb:emp
G 10-2-51

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

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

OCT 8 1951

Memorandum

Re: DMA-1889
Gold King Claims
Lincoln County, Montana
Exploration loan, $10,000
Lead, zinc

To: Reports and Records Unit
Administrative Management Div.

From: Chief, Lead-Zinc Branch

Subject: Denial of exploration loan

The applicant's property has been examined by a field team and their report recommends a denial of exploration assistance. The underground workings have followed a quartz vein and two weakly mineralized zones. No sulfides were observed, but abundant limonitic material suggests the former existence of iron sulfides. The exploration undertaken by the applicant has not given any indication that minable ore may exist on his property. For this reason, we feel further exploration is unwarranted. We concur with the field team in recommending a denial of an exploration loan.

Returned herewith are:

2 field team reports
2 copies Form MF-100
2 " " MF-103

T. P. Billings, Chief
Lead-Zinc Branch

Approved:

Director, Supply Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

September 19, 1951

Memorandum

To: T. P. Billings, Chief, Lead Zinc Branch

From: Field Team, Region II

Subject: Docket DMA 1889, Gold King Group, Lincoln County, Montana

Enclosed are copies of a report by Elton A. Youngberg, U. S. Geological Survey, on the Gold King property owned by J. F. Templeman of Portland, Oregon. Also enclosed are two copies of Form MF-103 plus the original docket material.

Mr. Youngberg recommends that the application on the Gold King property be denied on the grounds that no significant amounts of lead and zinc are present.

The Field Team concurs with this recommendation for denial.

By Field Team, Region II

OFFICAL FILE COPY

To	Init.	Date
350	A.E.C	9-24
210		

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

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

Enclosures

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
SEP 24 10 24 AM '51

SEP 24 1951 5

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

No. 157 Howard Street
Spokane 4, Washington

September 19, 1951

Memorandum

To: T. P. Billings, Chief, Lead Zinc Branch

From: Field Team, Region II

Subject: Docket DMA 1009, Gold King Group, Lincoln County, Montana

Enclosed are copies of a report by Elton A. Youngberg, U. S. Geological Survey, on the Gold King property owned by J. F. Templeman of Portland, Oregon. Also enclosed are two copies of Form MF-103 plus the original docket material.

Mr. Youngberg recommends that the application on the Gold King property be denied on the grounds that no significant amounts of lead and zinc are present.

The Field Team concurs with this recommendation for denial.

By Field Team, Region II

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

AEW/bh

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

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

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

No. 157 Howard Street
Spokane 4, Washington

September 19, 1951

Memorandum

To: T. P. Billings, Chief, Lead Zinc Branch

From: Field Team, Region II

Subject: Docket DMA 1863, Gold King Group, Lincoln County, Montana

Enclosed are copies of a report by Alson A. Youngberg, U. S. Geological Survey, on the Gold King property owned by J. F. Templeman of Portland, Oregon. Also enclosed are two copies of Form MT-103 plus the original docket material.

Mr. Youngberg recommends that the application on the Gold King property be denied on the grounds that no significant amounts of lead and zinc are present.

The Field Team concurs with this recommendation for denial.

By Field Team, Region II

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

AEW/bh

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

M. R. Vollum, Manager
(U. S. Bureau of Mines)

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

No. 1[illegible] Howard Street
Spokane 4, Washington

September 1[illegible], 1951

Memorandum

To: [illegible]. F. Billings, Chief, Lead Zinc Branch

From: Field Team, Section II

Subject: Docket DMW 1[illegible], Gold King Group, Lincoln County, Montana

Enclosed are copies of a report by Elton A. Youngberg, U. S. Geological Survey, on the Gold King property owned by J. F. Campbell of Portland, Oregon. Also enclosed are two copies of Form MT-103 plus the original docket material.

Mr. Youngberg recommends that the application on the Gold King property be denied on the grounds that no significant amounts of lead and zinc are present.

The Field Team concurs with this recommendation for denial.

By Field Team, Section II

A. L. Weissenborn, Exec. Officer
(U. S. Geological Survey)

ALW/bh

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

M. [illegible] Weaver
(U. S. Bureau of Mines)

Enclosures

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

September 17, 1951

Memorandum

To: A. E. Weissenborn, Exec. Officer, Defense Minerals Administration, Field Team, Region II

From: Elton A. Youngberg, Geologist

Subject: Docket DMA-1889, Commodity: Lead-Zinc; J. F. Templeman, 3757 S.E. Clay, Portland 15, Oregon.

PROPERTY

The property of J. F. Templeman is known as the Gold King Group and is located on the North Fork of Keeler Creek in Sections 10 and 15; T. 30 N., Range 34 W., Lincoln County, Montana. The property adjoins the old Silver King property to the south.

RECOMMENDATION

It is recommended that the applicant be denied aid in exploring the Gold King Group as the property contains no known objective worthy of exploration.

RESUME OF FIELD INVESTIGATION

The field examination was made with J. F. Templeman and Chris I. Nyland, September 13, 1951. Approximately four hours were spent on the Gold King Claims owned by the applicant and the Silver King Group adjoining on the south.

The principal workings on the Gold King claims are two short adits and an open cut which explore a vein and two weakly mineralized areas.

The rocks underlying the claims are Prichard argillites and quartzites of the Belt Series dipping 40° to 50° to the southwest and a meta diorite sill which has a northwesterly strike.

The main working, an adit 315 feet long, crosscuts the argillites and penetrates the meta diorite sill for about ten feet. A quartz vein dipping 25-30° to the northeast and crossing the bedding of the argillites was exposed approximately twenty feet

from the contact between the argillite and meta diorite sill. The quartz vein varies from 6" to 18" in width, and strikes N. 30-40° W. No sulphides were observed in the vein. Limonitic material filled fractures and other openings indicating some iron sulphides may have been present.

A second adit forty feet in length was driven northwesterly into the argillites to explore a weakly disturbed area. Several small quartz stringers ½" to 1" in width were noted parallel to the bedding. Sulphide minerals were not observed.

A short access road cut the meta diorite dike exposed in the main adit, and disclosed a weakly fractured and mineralized area. Several ½" to 1" quartz stringers were observed but contained no sulphides. Limonitic material filling fractures indicated some iron sulphides may have been originally present.

The examination of the property did not indicate the presence of significant amounts of lead and zinc or a suitable target for exploration. Consequently it is recommended that the applicant be denied exploration aid to further explore this property.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible] Howard Street
[illegible], Washington

[illegible]

[illegible]

To: [illegible], Exec. Officer, [illegible]

From: [illegible], Geologist

[illegible]

[illegible]

SUMMARY

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] property.

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. .....

Date received .....

Participation .....

J. P. Templeman
3757 S. E. Clay
Portland 15, Oregon

Name and address of applicant

Date July 9, 1951

FILL IN THIS BLOCK

Date of application July 9, 1951

Estimated cost $10,000

Mineral or metal Lead Zinc

Percentage of Government participation 50%

Location of mine 11 miles S.E. of Troy, Montana

Date of filing MF-100 July 9, 1951

DMA Docket Number, if available .....

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

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

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

16—64067-1

THE PROPERTY

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

Gold King Mining Co.
(Name of company)

By J. H. Templeman
(Signature of authorized official)

July 9, 1951
(Date)

Agent
(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

Form MF 103

8. No statement to make; have not operated

9. Prepared to invest $5,000
Yes, it is sufficient to meet over half of the budget as set forth

10. (a) Gold King claims Nos. 1, 2, 3, 4 & 5
Enclosed find filed notices of location.
(Please return when no longer needed.)
(b) Same

15. Shipped by truck to Wallace, Idaho or by truck to N.P. at Troy then to Helena smelter.

20. Zinc and lead ore.

21. Core drilling at locations as advised by Bureau of Mines Engineers.
Over a period of approximately two months.

22. Find enclosed Engineer's report.
Property not mapped unless filed in courthouse at Libby, Montana.

23.

(a)	Labor and working supervisor	$4,000
(b)		
(c)		300
(d)	None	
(e)		1,650
(f)		1,600
(g)	None	
(h)		200
(i)		400
	Total	$8,250

24. Two months for project
Expect $8350 may be spent, but figuring on a budget of $10,000 in event unforeseen expenses arise.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. _____

Date received _____

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 26 1951
LANDON F. STROBEL
Executive Secretary

J. F. Templeman
3757 S. E. Clay
Portland 15, Oregon

Name and address of applicant

Date July 9, 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) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) 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:
   - [x] Owner.
   - [ ] Lessee.
   - [ ] Contractor.
5. Number of years in production Not in production

   If not in production or operation, estimated date when production will begin Depending on exploration
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)
Frank Templeman 3757 S. E. Clay	Agent						
Chris T. Nyland 2735 S. E. 37th							
B. T. Hanson S. W. Vermont St.							
F. G. Neth 1520 S. W. Custer							
C. M. Corkum 2860 N.W. Shenandoah	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	$	$	$		
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.)	X				
2. Quantity of product processed (specify unit of measure and type of process)	X				
3. Quantity and grade of product sold or shipped (specify units of measure)	X				

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.

(*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)					

(*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.

Gold King Mining Co.
(Name of company)

By Jeff Tenefsloman
(Signature of authorized official)

July 9, 1951
(Date)

Agent
(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 100

General Technical Data

1. Materials produced
   (a) Lead, Zinc, Copper
   (b) Gold, Silver

2. Gold King Mining Co.
   Prospect only
   Robinhood, old name
   (a) 1 of 15 ft.
   (b) 1 of 15 ft.
   (c) 1 of 315 ft.
   1 of 40 ft.
   No flooding or pumping problems.
   Not producing

3. (a) 11 miles S.W. of Troy, Mont.
   (b) Grouse Mt.
   (c) Troy Section 10-15-T-30 N.,
   Range 34 N.P. P.M.
   (d) Lincoln County, Montana

4. (a) No
   (b) Owner

5.

6. (a) Prospecting and assessment work on 5 to 8 claims for 23 yrs. Building Contractor.
   (b) 3 men building contractors
   1 man carpenter
   1 man electrical contractor, more recently Safety Engineer

7. (a) In addition to accompanying Engineers' report one tunnel of 40 ft., one crosscut of 15ft. plus numerous prospect holes. Also 1500 ft. of private road. Considerable bull dozing or stripping hillside has been done, uncovering favorable evidence of Zinc Lead Ore. Waiting on deeper exploration to determine ore body before continuing operation.
   (b) Grouse Mt. mine on the north
   Operating probably since 1930
   Do not know production

   The Silver King on the south which has produced a considerable amount of silver, lead and zinc ore, high grade.

   The Snow Storm a short distance north has had a production in the past running into the millions, is now again in operation ready for production.

   (c) Private Engineer's report will be found appended.

Form MF 100

13. 11 miles to Great Northern R.R. at Troy County road maintained year around (graveled) in good condition. Goes through property

14. Very good source of water about 1000 ft. continuous flow spring fed stream year around

15. Power lines will have to be extended 1/2 mile Source at Troy.

16. None

17. Log cabin needing repairs. Hand tools and jack hammer, drill points and shanks.

This is the prevailing mineralogic condition in the Grouse Mountain Mine ore bodies, just north and east of the Gold King Mine; of the Bi-Metallic Mine, east; of the Silver King and Iron Mask Mines, south (all of the above mentioned properties practically adjoin the Gold King Mine); and of the famous Snow Storm Mine (which has a recorded production of about $6,000,000.00), a short distance north, and believed to be on very probably the same dyke as the Gold King.

The series of intrusive dykes have not been accurately traced from the Snow Storm and Morning Mines on the north, to and through the Gold King, Silver King, Grouse Mountain and other mines of the district. It is probable that another mineralized dyke lies west of the Gold King dyke between the Gold King dyke and the road; and indications are, judging by float, that another dyke parallels the Gold King dyke several hundred feet to the east.

After prospecting and determining these conditions, the logical course of procedure would be to drive a lower working adit from road or creek level easterly cross-cutting the three dykes where mineralogic conditions warrant exploitation. This could be determined by Geophysical prospecting methods, or diamond drilling, much more cheaply than driving tunnels, drifts, winzes, etc.

Ore Bodies

The main working adit or tunnel cuts a verywell defined vein at a point about 160 feet from the portal. Strike N.W.S.E. dip about 40° S. The tunnel cuts diagonally through the vein and continues through the wall of the dyke and terminates after penetrating the dyke about twelve feet. The vein, which is several feet in width, is reported to carry promising gold values. With the limited time at my disposal, thus far I have not had the opportunity to thoroughly sample and assay the property. This should be done at once. After several years of experience in this district examining and operating mines, and 40 years active field work, I am led to believe that the most feasible and practical course of procedure in locating your ore body in this vein would be to follow it to the point where it contacts the dyke. This will necessitate sinking on the vein on an incline, or sinking a winze along the wall of the shaft on the contact between the Prichard slate and quartzite, down to the point where the vein contacts the dyke. The vein may turn and follow down the hanging wall of the dyke, or it may follow a fault through the dyke. In either case, a deposition of ore should occur and is likely to occur on the foot wall of the dyke; or, if the vein penetrates the dyke, in and along the faulted vein section in the dyke, or on the hanging wall of the dyke.

Power

It is about 1/2 mile from the transformers at the Grouse Mountain Mining and Milling Company Hydro-electric line to the Gold King Mine. Cost of electric power is one cent per K.H. This is the cheapest and most efficient source of power at and to the mine.

Water

There is perennial water in the North Fork of Keeler Creek for all mining and domestic purposes. (See map.)

PRELIMINARY REPORT

on the
GOLD KING MINE

by Calvin H. Barkdull
Consulting Hydraulic and Mining Engineer
July 10, 1937

In compliance with, and, at the request of, Mr. J. F. Templeman, 3510 S. E. Grant Street, Portland, Oregon, who is a part-owner of the property, I submit the following data and report.

Geographical Location

The Gold King Mine, consisting of five full size lode claims, 600 x 1500 feet each, is situated in Sec. 10-15-T-30N., R. 34 N.P. P.M., on the southwest slope of Grouse Mountain, Lincoln County, Montana. It is drained on the west by the north fork of Keeler Creek, a tributary of the Kootenai River; and is distant from Troy, "P.O. and G.N.R.R. Depot", about 12 miles in a southwesterly direction.

Transportation

There is a good auto road within about 600 feet from the portal of the tunnel that is maintained by the County and Forestry Department. It is free from snow from about April 15 to December 10. A trail leads from the road to the portal of the tunnel. Transportation conditions are ideal for economical development.

Timber

There is ample timber on the holdings and in the immediate vicinity for all mining and domestic purposes. This consists of pine (several species), fir, cedar, and tamerack. Lumber is available at Troy Saw Mill at regular rates, and can be delivered at the mine for about $5.00 per M.

Development Work

There has been completed about 290 feet of tunnel or working adit and several open surface cuts.

Strike of Adit N. 70° E., size 3-1/2 x 6 feet.

Equipment

Consists of usual drills, forge, saws, picks, shovels, etc., used in developing a mine or prospect. No buildings.

Geology

The geology is clearly and well defined. Very little over-burden or glacial debris covers the surface. The bedrock series consists of slates and quartzites, "Prichard", which have been intruded by a granodiorite dyke; a fissure filled by plutonic action which will probably be found to be mineralized, especially along the selvage of the hanging and foot walls, and, in this case, along fault and pressure planes within the confines of the dyke.

Conclusion

The Gold King prospect is a property worthy of further development. Situated as it is, on or very near a good auto road in the center of groups of mines that are operating and of proven merit and worth; with every natural advantage--timber, water, power, transportation and climatic conditions favorable for continuous operation every day of the year; with low grade ore values ascertained; and, located on one of the mineralized dykes that has made this section famous for its silver, lead, zinc and gold ores, the owners of this property should not hesitate to develop it further by competent geophysical engineers' determinations, diamond drilling, surface cross-cutting of the dyke following the vein, as directed in this report, etc.

Respectfully submitted by

Calvin H. Barkdull
Consulting Hydraulic and Mining Engineer
3646 - 36th Avenue South, Seattle, Washington

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 1889

Date received

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 26 1951
LANDON F. STROBEL
Executive Secretary

J. F. Templeman
3757 S. E. Clay
Portland 15, Oregon

Name and address of applicant

Date July 9, 1951

FILL IN THIS BLOCK

Date of application July 9, 1951

Estimated cost $10,000

Mineral or metal Lead Zinc

Percentage of Government participation 50%

Location of mine 11 miles S.W. of Troy, Montana

Date of filing MF-100 July 9, 1951

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

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

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

JUL 31 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.
    (*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.

Gold King Mining Co.
(Name of company)

By J. F. Sampleman
(Signature of authorized official)

July 9, 1951
(Date)

Agent
(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

Form MF 103

8. No statement to make; have not operated

9. Prepared to invest $5,000
Yes, it is sufficient to meet over half of the budget as set forth

10. (a) Gold King claims Nos. 1, 2, 3, 4 & 5
Enclosed find filed notices of location.
(Please return when no longer needed.)
(b) Same

15. Shipped by truck to Wallace, Idaho or by truck to R.R. at Troy then to Helena smelter.

20. Zinc and lead ore.

21. Core drilling at locations as advised by Bureau of Mines Engineers. ✓
Over a period of approximately two months.

22. Find enclosed Engineer's report.
Property not mapped unless filed in courthouse at Libby, Montana.

23.

(a)	Labor and working supervisor	$4,000
(b)		
(c)		300
(d)	None	
(e)		1,850
(f)		1,600
(g)	None	
(h)		200
(i)		400
	Total	$8,350

24. Two months for project
Expect $8350 may be spent, but figuring on a budget of $10,000 in event unforeseen expenses arise.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. _____

Date received _____

J. F. Templeman
3757 S. E. Clay
Portland 15, Oregon

Name and address of applicant

Date July 9, 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) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) 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:
   - [x] Owner.
   - [ ] Lessee.
   - [ ] Contractor.
5. Number of years in production Not in production

   If not in production or operation, estimated date when production will begin Depending on exploration
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)
Frank Templeman	Agent						
3757 S. E. Clay							
Chris T. Nyland							
2735 S. E. 37th							
B. T. Hanson							
S. W. Vermont							
F. G. Neth							
1620 S. W. Custer							
C. M. Corkum							
2860 N.W. Shenandoah	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	$	$	$		
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.)	X				
2. Quantity of product processed (specify unit of measure and type of process)	X				
3. Quantity and grade of product sold or shipped (specify units of measure)	X				

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.

Form MF 100

General Technical Data

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   (a) Lead, Zinc, Copper
   (b) Gold, Silver

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   Prospect only
   Robinhood, old name
   (a) 1 of 15 ft.
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   (b) 3 men building contractors
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   The Snow Storm a short distance north has had a production in the past running into the millions, is now again in operation ready for production.

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15. Power lines will have to be extended 1/2 mile Source at Troy.

16. None

17. Log cabin needing repairs. Hand tools and jack hammer, drill points and shanks.

(*b*) If deposit is other than pla

(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)					

(*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.

Gold King Mining Co.
(Name of company)

By J. F. Templeman
(Signature of authorized official)

July 9, 1951
(Date)

Agent
(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

PRELIMINARY REPORT

ON THE

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by Calvin H. Barkdull
Consulting Hydraulic and Mining Engineer
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There is a good auto road within about 600 feet from the portal of the tunnel that is maintained by the County and Forestry Department. It is free from snow from about April 15 to December 10. A trail leads from the road to the portal of the tunnel. Transportation conditions are ideal for economical development.

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Equipment

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This is the prevailing mineralogic condition in the Grouse Mountain Mine ore bodies, just north and east of the Gold King Mine; of the Bi-Metallic Mine, east; of the Silver King and Iron Mask Mines, south (all of the above mentioned properties practically adjoin the Gold King Mine); and of the famous Snow Storm Mine (which has a recorded production of about $6,000,000.00), a short distance north, and believed to be on very probably the same dyke as the Gold King.

The series of intrusive dykes have not been accurately traced from the Snow Storm and Morning Mines on the north, to and through the Gold King, Silver King, Grouse Mountain and other mines of the district. It is probable that another mineralized dyke lies west of the Gold King dyke between the Gold King dyke and the road; and indications are, judging by float, that another dyke parallels the Gold King dyke several hundred feet to the east.

After prospecting and determining these conditions, the logical course of procedure would be to drive a lower working adit from road or creek level easterly cross-cutting the three dykes where mineralogic conditions warrant exploitation. This could be determined by Geophysical prospecting methods, or diamond drilling, much more cheaply than driving tunnels, drifts, winzes, etc.

Ore Bodies

The main working adit or tunnel cuts a very well defined vein at a point about 160 feet from the portal. Strike N.W.S.E. dip about 40° S. The tunnel cuts diagonally through the vein and continues through the wall of the dyke and terminates after penetrating the dyke about twelve feet. The vein, which is several feet in width, is reported to carry promising gold values. With the limited time at my disposal, thus far I have not had the opportunity to thoroughly sample and assay the property. This should be done at once. After several years of experience in this district examining and operating mines, and 40 years active field work, I am led to believe that the most feasibleand practical course of procedure in locating your ore body in this vein would be to follow it to the point where it contactsthe dyke. This will necessitate sinking on the vein on an incline, or sinking a winze along the wall of the shaft on the contact between the Prichard slate and quartzite, down to the point where the vein contacts the dyke. The vein may turn and follow down the hanging wall of the dyke, or it may follow a fault through the dyke. In either case, a deposition of ore should occur and is likely to occur on the foot wall of the dyke; or, if the vein penetrates the dyke, in and along the faulted vein section in the dyke, or on the hanging wall of the dyke.

Power

It is about 1/2 mile from the transformers at the Grouse Mountain Mining and Milling Company Hydro-electric line to the Gold King Mine. Cost of electric power is one cent per K.H. This is the cheapest and most efficient source of power at and to the mine.

Water

There is perennial water in the North Fork of Keeler Creek for all mining and domestic purposes. (See map.)

Conclusion

The Gold King prospect is a property worthy of further development. Situated as it is, on or very near a good auto road in the center of groups of mines that are operating and of proven merit and worth; with every natural advantage—timber, water, power, transportation and climatic conditions favorable for continuous operation every day of the year; with low grade ore values ascertained; and, located on one of the mineralized dykes that has made this section famous for its silver, lead, zinc and gold ores, the owners of this property should not hesitate to develop it further by competent geophysical engineers' determinations, diamond drilling, surface cross-cutting of the dyke following the vein, as directed in this report, etc.

Respectfully submitted by

Calvin H. Barkdull
Consulting Hydraulic and Mining Engineer
3646 - 36th Avenue South, Seattle, Washington

PRELIMINARY REPORT

ON THE

GOLD KING MINE

by Calvin H. Barkdull
Consulting Hydraulic and Mining Engineer
July 10, 1937

In compliance with, and, at the request of, Mr. J. F. Templeman, 3510 S. E. Grant Street, Portland, Oregon, who is a part-owner of the property, I submit the following data and report.

Geographical Location

The Gold King Mine, consisting of five full size lode claims, 600 x 1500 feet each, is situated in Sec. 10-15-T-30N., R. 34 N.P. P.M., on the southwest slope of Grouse Mountain, Lincoln County, Montana. It is drained on the west by the north fork of Keeler Creek, a tributary of the Kootenai River; and is distant from Troy, "P.O. and G.N.R.R. Depot", about 12 miles in a southwesterly direction.

Transportation

There is a good auto road within about 600 feet from the portal of the tunnel that is maintained by the County and Forestry Department. It is free from snow from about April 15 to December 10. A trail leads from the road to the portal of the tunnel. Transportation conditions are ideal for economical development.

Timber

There is ample timber on the holdings and in the immediate vicinity for all mining and domestic purposes. This consists of pine (several species), fir, cedar, and tamerack. Lumber is available at Troy Saw Mill at regular rates, and can be delivered at the mine for about $5.00 per M.

Development Work

There has been completed about 290 feet of tunnel or working adit and several open surface cuts.

Strike of Adit N. 70° E., size 3-1/2 x 6 feet.

Equipment

Consists of usual drills, forge, saws, picks, shovels, etc., used in developing a mine or prospect. No buildings.

Geology

The geology is clearly and well defined. Very little over-burden or glacial debris covers the surface. The bedrock series consists of slates and quartzites, "Prichard", which have been intruded by a granodiorite dyke; a fissure filled by plutonic action which will probably be found to be mineralized, especially along the selvage of the hanging and foot walls, and, in this case, along fault and pressure planes within the confines of the dyke.

This is the prevailing mineralogic condition in the Grouse Mountain Mine ore bodies, just north and east of the Gold King Mine; of the Bi-Metallic Mine, east; of the Silver King and Iron Mask Mines, south (all of the above mentioned properties practically adjoin the Gold King Mine); and of the famous Snow Storm Mine (which has a recorded production of about $6,000,000.00), a short distance north, and believed to be on very probably the same dyke asthe Gold King.

The series of intrusive dykes have not been accurately traced from the Snow Storm and Morning Mines on the north, to and through the Gold King, Silver King, Grouse Mountain and other mines of the district. It is probable that another mineralized dyke lies west of the Gold King dyke between the Gold King dyke and the road; and indications are, judging by float, that another dyke parallels the Gold King dyke several hundred feet to the east.

After prospecting and determining these conditions, the logical course of procedure would be to drive a lower working adit from road or creek level easterly cross-cutting the three dykes where mineralogic conditions warrant exploitation. This could be determined by Geophysical prospecting methods, or diamond drilling, much more cheaply than driving tunnels, drifts, winzes, etc.

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The main working adit or tunnel cuts a verywell defined vein at a point about 160 feet from the portal. Strike N.W.S.E. dip about 40° S. The tunnel cuts diagonally through the vein and continues through the wall of the dyke and terminates after penetrating the dyke about twelve feet. The vein, which is several feet in width, is reported to carry promising gold values. With the limited time at my disposal, thus far I have not had the opportunity to thoroughly sample and assay the property. This should be done at once. After several years of experience in this district examining and operating mines, and 40 years active field work, I am led to believe that the most feasible and practical course of procedure in locating your ore body in this vein would be to follow it to the point where it contacts the dyke. This will necessitate sinking on the vein on an incline, or sinking a winze along the wall of the shaft on the contact between the Prichard slate and quartzite, down to the point where the vein contacts the dyke. The vein may turn and follow down the hanging wall of the dyke, or it may follow a fault through the dyke. In either case, a deposition of ore should occur and is likely to occur on the foot wall of the dyke; or, if the vein penetrates the dyke, in and along the faulted vein section in the dyke, or on the hanging wall of the dyke.

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Conclusion

The Gold King prospect is a property worthy of further development. Situated as it is, on or very near a good auto road in the center of groups of minesthat are operating and of proven merit and worth; with every natural advantage—timber, water, power, trasportation and climatic conditions favorable for continuous operation every day of the year; with low grade ore values ascertained; and, located on one of the mineralized dykes that has made this section famous for its silver, lead, zinc and gold ores, the owners of this property should not hesitate to develop it further by competent geophysical engineers' determinations, diamond drilling, surface cross-cutting of the dyke following the vein, as directed in this report, etc.

Respectfully submitted by

Calvin H. Barkdull
Consulting Hydraulic and Mining Engineer
3646 - 36th Avenue South, Seattle, Washington

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 1889

Date received

Participation

J. F. Tomlinson
3757 S. E. Clay
Portland 15, Oregon

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 26 1951
LANDON F. STROBEL
Executive Secretary

Name and address of applicant

Date July 9, 1951

FILL IN THIS BLOCK

Date of application July 9, 1951

Estimated cost 010,000

Mineral or metal Lead Zinc

Percentage of Government participation 50%

Location of mine 11 miles S.E. of Troy, Montana

Date of filing MF-100 July 9, 1951

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

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

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

16—64067-1

THE PROPERTY

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

Gold King Mining Co.
(Name of company)

By J. F. Hemphleman
(Signature of authorized official)

July 9, 1951
(Date)

Agent
(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

Form IF 103

8. No statement to make; have not operated

9. Prepared to invest $5,000
Yes, it is sufficient to meet over half of the budget as set forth

10. (a) Gold King claims Nos. 1, 2, 3, 4 & 5
Enclosed find filed notices of location.
(Please return when no longer needed.)
(b) Same

15. Shipped by truck to Wallace, Idaho or by truck to R.R. at Troy then to Helena smelter.

20. Zinc and lead ore.

21. Core drilling at locations as advised by Bureau of Mines Engineers.
Over a period of approximately two months.

22. Find enclosed Engineer's report.
Property not mapped unless filed in courthouse at Libby, Montana.

23.

(a)	Labor and working supervisor	$4,000
(b)		
(c)		300
(d)	None	
(e)		1,650
(f)		1,600
(g)	None	
(h)		200
(i)		400
	Total	$8,350

24. Two months for project
Expect $8350 may be spent, but figuring on a budget of $10,000 in event unforeseen expenses arise.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. _____

Date received _____

J. F. Templeman
2757 S. W. Clay
Portland 15, Oregon

Name and address of applicant

Date July 9, 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) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) 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:
   - [x] Owner.
   - [ ] Lessee.
   - [ ] Contractor.
5. Number of years in production Not in production

   If not in production or operation, estimated date when production will begin Depending on exploration
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)
Frank Tomlinson 3757 S. E. Clay	Prent						
Charle T. Hyland 2735 S. E. 37th							
T. T. Hogan S. W. Vermont St.							
R. G. Inth 1620 S. W. Custer							
G. H. Corlan 2860 N.W. Shenandoah	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	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

Form MF 100

General Technical Data

1. Materials produced
   (a) Lead, Zinc, Copper
   (b) Gold, Silver

2. Gold King Mining Co.
   Prospect only
   Robinhood, old name
   (a) 1 of 15 ft.
   (b) 1 of 15 ft.
   (c) 1 of 315 ft.
   1 of 40 ft.
   No flooding or pumping problems.
   Not producing

3. (a) 11 miles S.W. of Troy, Mont.
   (b) Grouse Mt.
   (c) Troy Section 10-15-T-30 N.,
   Range 34 N.P. P.M.
   (d) Lincoln County, Montana

4. (a) No
   (b) Owner

5.

6. (a) Prospecting and assessment work on 5 to 6 claims for 23 yrs. Building Contractor.
   (b) 3 men building contractors
   1 man carpenter
   1 man electrical contractor, more recently Safety Engineer

7. (a) In addition to accompanying Engineers' report one tunnel of 40 ft., one crosscut of 15ft. plus numerous prospect holes. Also 1500 ft. of private road. Considerable bull dozing or stripping hillside has been done, uncovering favorable evidence of Zinc Lead Ore. Waiting on deeper exploration to determine ore body before continuing operation.
   (b) Grouse Mt. mine on the north
   Operating probably since 1930
   Do not know production

   The Silver King on the south which has produced a considerable amount of silver, lead and zinc ore, high grade.

   The Snow Storm a short distance north has had a production in the past running into the millions, is now again in operation ready for production.

   (c) Private Engineers report will be found appended.

Form MF 100

13. 11 miles to Great Northern R.R. at Troy
County road maintained year around (graveled)
in good condition. Goes through property

14. Very good source of water about 1000 ft.
continuous flow spring fed stream year around

15. Power lines will have to be extended 1/2 mile
Source at Troy.

16. None

17. Log cabin needing repairs. Hand tools and jack
hammer, drill points and shanks.

(*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)					

(*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.

Gold King Mining Co.
(Name of company)

By J. H. Templeman
(Signature of authorized official)

July 9, 1951
(Date)

Agent
(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

PRELIMINARY REPORT

ON THE

GOLD KING MINE

by Calvin H. Barkdull
Consulting Hydraulic and Mining Engineer
July 10, 1937

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There is a good auto road within about 600 feet from the portal of the tunnel that is maintained by the County and Forestry Department. It is free from snow from about April 15 to December 10. A trail leads from the road to the portal of the tunnel. Transportation conditions are ideal for economical development.

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Strike of Adit N. 70° E., size 3-1/2 x 6 feet.

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Consists of usual drills, forge, saws, picks, shovels, etc., used in developing a mine or prospect. No buildings.

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Conclusion

The Gold King prospect is a property worthy of further development. Situated as it is, on or very near a good auto road in the center of groups of mines that are operating and of proven merit and worth; with every natural advantage--timber, water, power, transportation and climatic conditions favorable for continuous operation every day of the year; with low grade ore values ascertained; and, located on one of the mineralized dykes that has made this section famous for its silver, lead, zinc and gold ores, the owners of this property should not hesitate to develop it further by competent geophysical engineers' determinations, diamond drilling, surface cross-cutting of the dyke following the vein, as directed in this report, etc.

Respectfully submitted by

Calvin H. Barkdull
Consulting Hydraulic and Mining Engineer
3646 - 36th Avenue South, Seattle, Washington

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The series of intrusive dykes have not been accurately traced from the Snow Storm and Morning Mines on the north, to and through the Gold King, Silver King, Grouse Mountain and other mines of the district. It is probable that another mineralized dyke lies west of the Gold King dyke between the Gold King dyke and the road; and indications are, judging by float, that another dyke parallels the Gold King dyke several hundred feet to the east.

After prospecting and determining these conditions, the logical course of procedure would be to drive a lower working adit from road or creek level easterly cross-cutting the three dykes where mineralogic conditions warrant exploitation. This could be determined by Geophysical prospecting methods, or diamond drilling, much more cheaply than driving tunnels, drifts, winzes, etc.

Ore Bodies

The main working adit or tunnel cuts a very well defined vein at a point about 160 feet from the portal. Strike N.W.S.E. dip about 40° S. The tunnel cuts diagonally through the vein and continues through the wall of the dyke and terminates after penetrating the dyke about twelve feet. The vein, which is several feet in width, is reported to carry promising gold values. With the limited time at my disposal, thus far I have not had the opportunity to thoroughly sample and assay the property. This should be done at once. After several years of experience in this district examining and operating mines, and 40 years active field work, I am led to believe that the most feasible and practical course of procedure in locating your ore body in this vein would be to follow it to the point where it contacts the dyke. This will necessitate sinking on the vein on an incline, or sinking a winze along the wall of the shaft on the contact between the Prichard slate and quartzite, down to the point where the vein contacts the dyke. The vein may turn and follow down the hanging wall of the dyke, or it may follow a fault through the dyke. In either case, a deposition of ore should occur and is likely to occur on the foot wall of the dyke; or, if the vein penetrates the dyke, in andalong the faulted vein section in the dyke, or on the hanging wall of the dyke.

Power

It is about 1/2 mile from the transformers at the Grouse Mountain Mining and Milling Company Hydro-electric line to the Gold King Mine. Cost of electric power is one cent per K.H. This is the cheapest and most efficient source of power at and to the mine.

Water

There is perennial water in the North Fork of Keeler Creek for all mining and domestic purposes. (See map.)