FILE COPY
SURNAME:

Gordon Bourret

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

June 21, 1951

Mr. Edward K. Burhans, Secy. Treas.
Independence Gold Mining Co., Inc.
1771 Pennsylvania Street #26
Denver 5, Colorado

Re: Platinum Group Metals
DMA Docket - 1537X

Dear Mr. Burhans:

Your application DMA-1507 of May 24, 1951 for an exploration project, estimated total cost $100,000, has been received by the Minor and Rare Metals Branch of the Supply Division.

After careful review, I regret to advise it has been decided to reject your application on the basis of your having submitted insufficient geologic evidence to justify this project.

I suggest, if at some future date you obtain a detailed assay-plan of your property, based upon systematic and complete sampling, you resubmit your application.

Yours very truly,

Tom Lyon

Tom Lyon, Director
Supply Division

WBourret/mh
cc: Adm. Reading File
Strobel
Lyon
Field Team, IV
McKnight, USGS
Bourret
Files

June 1951

a.E.R.

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

June 21, 1951

Memorandum

To: Landon F. Strobel, Executive Secretary

Through: Director, Supply Division

From: Chief, Minor and Rare Metals Branch

Subject: Platinum Group Metals, DMA docket 1507x

Under date of May 24, 1951, The Independence Gold Mining Company, Inc. of Centinnial, Wyoming, requested an exploration project for platinum group metals in the amount of $100.000.00.

This proposition was reviewed under date of June 18, 1951, by Mr. E. T. McKnight of the U. S. G. S., who states as follows: "It is my belief that some additional sampling will have to be done before this proposal could be considered". Our reviewer, on the following day, arrived at the same conclusion.

The attached letter, dated June 19, 1951, was sent to the applicant advising that his project has been denied. We are returning herewith the complete docket, as follows: (a) Two copies of form MF-103, (b) review of application by E. T. McKnight dated June 18, (c) letter to applicant from Executive Secretary, acknowledging receipt of application, (d) hand-written comments of our reviewer.

Approved:

Director, Supply Division

Attachment

Weston Bourret

Weston Bourret, Chief
Minor and Rare Metals Branch

FILE COPY
SURNAME:

Gordon Bowner

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

June 21, 1951

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Through: Director, Supply Division

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Weston Bourret W.H.

Approved

Tom Lyon
Director, Supply Division

Weston Bourret, Chief
Minor and Rare Metals Branch

WBourret/mh
cc: Adm. Redd. File
Strobel
Lyon
Field Team IV
McKnight USGS
Bourret
Files

FILE COPY
SURNAME:

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

June 20, 1951

Mr. Edward K. Burhans
Secretary-Treasurer
Independence Gold Mining Co., Inc.
Centennial, Wyoming

Subject: DMA-1507X
Re: Exploration Loan
Independence Mine

My dear Mr. Burhans:

Receipt is acknowledged of your application and attachments of May 24, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1507X and was referred to Mr. Weston G. Bourret, Acting Chief, Minor and Rare Metals Branch on June 7, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1507X.

Sincerely yours,

LANDON F. STROBEL
js

Landon F. Strobel
Executive Secretary

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

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-1507X

Date received 6/4/51

Participation

INDEPENDENCE GOLD MINING CO. INC.
Centennial
Wyoming

Edward K. Burhans, Secy.Treas.
1771 Pennsylvania St. #26
Denver 5, Colorado

Name and address of applicant

Date May, 24, 1951

FILL IN THIS BLOCK

Date of application May28, 1951

Estimated cost $100,000.00

Mineral or metal Platinum Group

Percentage of Government participation 90%

Location of mine Centennial, Wyoming

Sec.7 & 8 Twn.15 Range 78

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

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

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
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				

Development- ore on dump ore blocked

*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.

INDEPENDENCE GOLD MINING CO. INC.
(Name of company)

By Edward K Burkhart
(Signature of authorized official)

Centennial, Wyoming

May 28, 1951
(Date)

Secy-Treas Independence G. M. CO.
(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

MF-103

Independence Gold Mining Co. Inc.
Centennial, Wyoming

Edward K.Burhans,Secy-Treas.
1771 Pennsylvania St. #26
Denver 5, Colorado

1-Applicant is a Corporation, duly licenced to do business in Wyoming.
2-
3-Officers of Corporation & Directors
Alvin M. Burhans, Pres. Rt.4, Box 115, Golden, Colorado
Chris M. Dixon, Vice Pres. 508 Garfield St. Laramie, Wyoming
Edward K. Burhans, Secy-Treas. 1771 Penn. Denver 5, Colorado
Five largest Stockholders
Alvin M. Burhans
Chris M. Dixon
Edward K. Burhans
Frank M. Utter ---1104 - 20th St. So. Arlington, Va.
Leslie Utter, --- Winfield, Iowa
4-(a) Directors have had 20 years prospecting,mining & business experience.
(b) J. R. Wemlinger, Mining Engineer - 920-2nd Ave. Seattle, Wash. whose experience as an executive on mining operations, will manage the project. (30 years experience).
5-The Independence Gold Mining Co. Inc. is the sole owner.
6-There are no encumbrances on the property.
7-(No Lease)
8-Financial Statement - Attached on separate sheet.
9-Applicant is prepared to invest 10% of the total requested -- to be in form of labor (3 men), housing & equipment & what cash is made available.

(Exploratory project will require a period not to exceed two years.
Reference # 8 Financial Statement
14 unpatented Lode Mining Claims.
Cabin 20' by 30'
Powder Magazine
Approximately 400 ft of tunnel workings.
Three open cuts on 50 ft dyke above tunnel. At intervals of 100-300 and 450 ft. Several holes and trenches on Claim # 2 (Mottled Quartz).
Bridge and road serviceable.
Platinum values ranging from fraction of one ounce to over four ounces, reported by different chemists.
Recent test made by Mr. Andy Sweet at Denver Bureau of Mines Government laboratory showed platinum group metals.
Teasts made by Mr. J.R.Wemlinger, Mining Engineer at Seattle, Wash. showed platinum group metals on all samples tested.
Corporation tax paid last in 1950 showing a valuation not to exceed $50,000
Housing serviceable.

Authorized Capitalization	$250,000.00	@ 10¢ par.
Directors hold	105,000.00	" " "
Stockholders hold	31,000.00	" " "
Issued ----------	136,000.00	" " "
Unissued ----------	114,000.00	" " "
Total	$250,000.00	" " "

Discovery work 14 lode claims ----------	$1,400.00
Tunnel work contracted at $20.00 per ft ----	8,000.00
Open trenches on Mt above tunnel ----------	3,000.00
Laboratory Milling Unit- Rod Mill, Pulverizer and Jig also three phase electric motors (used) and installed ---------- -	1,200.00
Engineering, mapping, analysis over 20 yrs ---	7,000.00
Administrative, Rodd, Bridges, Building etc.--	10,400.00
Total Expended	$ 31,000.00

Directors are not on salry, they have given freely of their time and money to keep work done at property since Govt. suspended moratorium on annual labor.

No debts outstanding other than Attorney fees.

9- Applicant is prepared to furnish three men, ~~and~~ equipment and housing during the exploratory period, equivelent to 10 % of the amount ($100,000.00 requested) Exploratory period to be completed within 2 yrs.

approved
Alvin M. Burhans

Edward K. Burhans

EY-105

Independence Gold Mining Co. Inc.
Centennial, Wyoming

Edward K. Burhans
1771 Pennsylvania St. #26
Denver 6, Colorado

10- (a) The property to be considered under this application is Independence Claims #1 and # 2 of the Corporation holdings.
(b) The legal description being Camp site of Company, Ground laying on Middle Fork of the Little Laramie River. Situated in Sec. 7- Tsn 15 R 78 Both being one and the same location.
11- The present name being the Independence Gold Mining Co. Inc. Independence being original discoverer of this ore body, no other name known.
12- The Independence property is located 6 miles S.W. of Centennial, R.R., has a fair road to shipping point Centennial, Wyo.
13- Water abundant for every purpose, Middle Fork of Little Laramie River. Propose to use Gas Motor untill water power may be developed. Cost not determined-
14-Cabin 20'by 30', Powder magazine, Forge , anvil, bridge, road.
15-Ore could be moved to Rail Road Centennial, but being a Platinum Group ore, do not know where ore could be refined after milling.
16- (a) Property was opened by surface open cut back in 1930. Crosscut tunnel was driven across fifty foot mineralized dyke, and drift on foot wall driven in approximately 300 ft (Three Hundred). Property was closed by Govt order during last war. Tunnel caved in and was reopened when work was resumed after moratorium. Impossibility to finance due to S.E.C. regulations.
(b) The Empire Property located by Jake Schmitzler ½ mile south of Independence showed platinum group minerals.
The Rambler Mine 6 miles SSE of Independence has a production record in platinum and palladium. The result of recent core drilling showed two ore bodies in Diamond Drilling.
(c) Report from Patzig Laboratory- Haven & Hout Report - Analysis from tunnel by Haven & Hout --- Reports attached to this application.
17- Property is under development
Approximately 2,000 tons of ore at dump, 50 ton at R.R. and over 50,000 tons blocked in workings. Values ranging from $50.00 to $400.00 per ton.
18- Open cuts at surface and tunnel workings haveproven large ore reserves. Ore body is 50 ft in width, and can be traced on the property length of two claims. Three trenches on Claim #1.
(b)Assay Reports attached.
(c)Over 50,000 tons of ore blocked- reports indicate value will run $50.00 and upward.
19- There is a strong vein laying approximately 300 ft. north of present workings. Another vein intersects the main ore body in neighborhood of dump.

EXPLORATION

20- We will carry on an exploration program for Platinum, Palladium, Iridium Osmium, Rhodium and Ruthenium. Some nickel, cobalt , copper and Bismuth. Gold values will range from $5.00 to $12.00 per ton.
21- We propose to drive drift back another 800 ft, crosscutting the fifty ft ore body- We propose to core drill on Claims #1 and #2 to determine reserves at depth. We propose to uncover the intersection mentioned in Paragraph 19/ Time required less than 12 months.
22- We would refer you to Geological Reports of District, Rambler Report, Empire Platinum discovery . Have no maps of property.

Requirements and Costs

23- (a) 2 Miners @$12. per 8 hr shift
(4 Muckers @ $10. per 8 hr shift
1 Millman @ $15. pre 8 hr shift
) b)1 Supervisor $400. per month
(c) $500. repairs to Bunk house
(d) Bunkhouse 20' by 30' --- Cook House 30'by 30' Cost $5,000.
(e) Compressor, Motor, Car , Track 1,000 ft.,2Drifters,1Jack hammer, Powder, Caps Fuse, Tools, Ore bins, Cost approximately $10,000.
(f) We propose to rent Core drilling Unit- for several tests of ore body-- Catapillar and Bulldozer may be rented at $8. per hour- Cost will depend on time required to prove the ore body.
(g) All equipment and buildings of Co. will be made available no cost
(h) Camp equipment, raincoats, hard hats, cots, carbide lamps. $1,500.
(i) Power and Utilities, water, sanitation, $8,000.

24 Core drilling- Drifting and crosscuts 6 months Cost- $40,000.
Open trenching of fifty ft dyke- 10 days Cost 1,000.
Housing and Cook House can be built of logs 1 month 3,000

Project can be completed in 12 months-- cost may run under $100,000.

THE INDEPENDENCE MINE

The Independence mining claims are located in the Centennial Mining District. Sections 7 and 8, Township 15, R. 78, W. Albany County, Wyoming.

ACCESSIBILITY

This property is situated on a good road and is only four miles from the town of Centennial, Wyoming, a Union Pacific railroad point.

TIMBER, CLIMATE and MINING FACILITIES

A very valuable asset to the property is the large amount of virgin timber now standing on the ground. (See photo #1). There is sufficient to carry on mining operations for a long time to come as well as furnish lumber for all necessary building purposes.

The climate is such that work can be carried on throughout the entire year without interruption from this source. Making general mining operations much cheaper and in every way more satisfactory than in many other mining localities.

GEOLOGY

This entire area is composed of pre-Cambrian formations. The formation appears to be composed of hard banded schist, high in silica and of very fine texture. This schist is cut by a Pegmatite dyke. It should be noted at this point that a zone of intersection such as appears here usually has a direct bearing on mineral concentration. The material of the immediate intersection is soft and can be rapidly and quite cheaply crushed. There is nothing at present to indicate the necessity of expensive specialized machinery.

The vein has been opened up by a tunnel, also three open cuts above the tunnel level at approximately 100 feet, 300 feet and 450 feet. Each open cut makes a good exposure of the vein, particularly the cut 450 above the tunnel which shows the vein 30 feet across - practically all ore. (See photo #2). Samples were taken for assay at various points on the property as indicated on the accompanying plat. The results of which are tabulated on the last sheet of this report. It is noteworthy at this point to call attention to the fact that in several cases no result was obtained from a fire assay regardless of flux charges. At the same time values were disclosed on the same ore by chemical means. We can only attribute this action to various elements contained in the ore which, due to their peculiar combination volatilized the values under the influence of heat.

IN CONCLUSION

There is a large, practically level area below the tunnel portal through which the Middle Fork of the Little Laramie River flows. Making an ideal camp site as well as the proper location for necessary mine buildings and mill. The stream has a fall sufficient to generate electricity for all purposes of light, power and domestic use and plenty of water for a good sized mill.

Respectfully submitted,

Wm. L. Hout
C. J. Haven

COPY

Assay of samples taken from
Independence Mine
Centennial, Wyoming. Sept. 1-1948

Description		Width Sampled		Oz. per Ton Gold	Pt	Value
No. 1 on hangingwall, marked	(1)	plate	1 8"	no result		
No. 2 " " "	(2)	"	1 6"	trace	4.70	$404.20
No. 3 " " "	(3)	"	1 8"	trace	1.90	163.40
No. 4-5-6-7-8 no result			34"	no result		
No. 9 " " "	(9)	"	1 11"		4.80	412.80
No. 10 " " "	(10)	"	1 6"		4.80	412.80
No. 11 " " "	(11)	"	1 7"		1.07	92.02
No. 12 " " "	(12)	"	1 12"	.48		16.80

The following 4 samples run by fire assay.

No. 1 marked HG from 3rd ledge		plate	1 4 to 6"	.18		6.30
No. 2 " AV " " "		"	1 X 30'	.18		6.30
No. 3 " oxidized streak	(DX)	"	1 20"	.24		8.40
No. 4 on hangingwall tunnel	(12)	"	1 12"	.48		16.80
Marked High grade from 3rd ledge 12' from exposed footwall	(HG)	"	1 4 to 6"	no result		
Average taken across 30' on 3rd ledge	(AV)	"	1 30'		.94	80.84
From graphite streak in the graphite sheered zone at footwall on 1st ledge	(XOX)		1 24"	no result		

All the above tests made on samples No. 1 to 12 inclusive and the two samples marked HG and AV were made by wet tests following scheme outlined in J. Bishops & Co., book on Technical & Industrial Platinum. It is worthy of note that in each of the samples taken from exposures the values are above average.

The values here are based on Gold at $35.00 per Oz. and Platinum @ $86.00 per Oz.

Signed Wm. L. Hout

C. J. Haven

COPY

Des Moines, Iowa
Jan. 30, 1936

Mr. W.A.Burhans
6th & Spring St.
Burlington, Iowa

Dear Sir:

On the sample of ore from the Independence property at Centennial Wyo., we obtained the following results at the Patzig LAB- at Des Moines, Iowa.

This ore was a picked sample by Alvin Burhans, taken on the outcrop of the vein, about 14 feet from the footwall and about 50 ft above the tunnel.

No. 1

	Oz. per ton	
Iridium	6.685	$401.10
Osmium	.825	49.50
Platinum	1.091	65.18
Gold	.36	11.00
Palladium	1.33	39.90
Rhodium	.41	21.50
		$580.57

No. 2

	Oz. per ton	
Iridium	6.918	$414.90
Osmium	1.395	83.70
Platinum	1.014	60.84
Gold	.30	10.00
Palladium	1.33	39.90
Rhodium	.45	23.40
		$632.34

The prices used in computing the above values were the average prices for the year 1934, as listed in the United States Bureau of Mines Year Book-- Iridium, $60.00 per oz., Osmium $60.00, Gold $35.00, Platinum $30.00, Palladium $22.00, Rhodium $52.00.

The method used was a wet analysis of the ore as recommended by the Chief Chemist of the American Platinum Co. A fire assay of the ore was made, as in ordinary fire assay for gold and silver but all the values of the rare metals were lost. There was considerable graphite present in theore, and this together with thepresence of Osmium probably accounts for the volitalization and the loss of the rare metals in the fire assay.

Yours truly,
(Signed) W.A.Sayer

WAS

DMA 1507X

Platinum Group metals

Independence Gold Mining Co. – Centennial, Wyoming

Data submitted ~~is too~~ states ~~that~~ "over 50,000 tons ore blocked – reports indicate value will run $50.00 and upward." Also, 50 tons of ore are at R.R. and approximately 2,000 tons of ore at dump. So, presence of Pt group should be established by marketing some of this ore and by mining and treating part of the known ore reserves. Profits from same should finance further exploration. If not, & Pt values definitely established by marketing product, we would be glad to consider an exploration project. With 1 to 4 oz Pt reported for widths of 6" to 11", it should not be difficult to block out a few tons by hand drilling, which requires no financing. RPG

Pt values

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

June 18. 1951

Re: DMA 1507X

Memorandum

To: Mr. Weston Bourret

From: Mr. E. T. McKnight

Subject: DMA 1507X, application of Independence Gold Mining Company, Centennial, Wyoming, for exploration loan of $100,000, 90% to be put up by Government, for exploration of a platinum lode.

This is a puzzling proposition. It is a known fact that the Rambler mine, 6 miles SW of this property, had platinum in copper ores that occurred in a diorite; the platinum ranged up to 1 oz. per ton of ore. Platinum is known to occur elsewhere with copper sulfides, but usually associated with basic rocks.

Very sketchy geologic description of Independence mine says that the platinum is in a "dyke", and another description says that there is a pegmatite "dyke" at the property, implying that this contains the platinum. However, a pegmatite dike is not a permissible platinum occurrence.

It seems to me that the whole matter hinges on the reliability of the two authorities for the high platinum content: (1) Hout and Haven and (2) Patzig Laboratory. (The latter, however, worked on samples collected by the applicant.)

Hout and Haven are evidently a combination of mining engineer and assayer. Their report on the Independence property is very amateurish with a promotional flair. Note that it is mimeographed.

Samples assayed by Patzig Laboratory are open to the suspicion that the applicant's samples may not be good.

Applicant is a stock selling gold mining company that had its mine closed during last war. Some of the proposed work (i.e., 500 ft. of crosscutting) would probably be helpful in developing their gold mine.

It is my belief that some additional sampling will have to be done before this proposal could be considered, and it would have to be done by an engineer or geologist of recognized standing. I think the burden of proof is on the applicant. They didn't think well enough of the Hout and Haven assays to furnish us with the map mentioned in the report, showing location of the samples.

Edwin T. McKnight

Edwin T. McKnight
Geologist

Defense Minerals Administration
Reference Slip

Date 6/7/51

To: 1. Branch

2.

3.

4.

DMA 1507X

For Action ✓
Reply
Information
Remarks:

Sender LANDON F. STROBEL
BX

3
Mr. Strobel DMA 1507X

Forwarded to

Branch

Date

Sender

2
Mr. Strobel DMA 1507X

Forwarded to

Branch

Date

Sender

1
Mr. Strobel DMA 1507X

Forwarded to

Branch

Date

Sender

92758

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-1507X

Date received 6/4/51

Participation

INDEPENDENCE GOLD MINING CO. INC.
Centennial
Wyoming

Edward K. Burhans, Secy.Treas.
1771 Pennsylvania St. #26
Denver 5, Colorado

Name and address of applicant

Date May, 24, 1951

FILL IN THIS BLOCK

Date of application May28, 1951

Estimated cost $100,000.00

Mineral or metal Platinum Group

Percentage of Government participation 90%

Location of mine Centennial, Wyoming

Sec.7 & 8 Twn.15 Range 78

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

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

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
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				

Development- ore on dump ore blocked

*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.

INDEPENDENCE GOLD MINING CO. INC.
Centennial, Wyoming
(Name of company)

By Edward H. Burham
(Signature of authorized official)

May 28, 1951
(Date)

Secy-Treas Independence G.M.CO.
(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.

MP-103

Independence Gold Mining Co. Inc.
Centennial, Wyoming

Edward K.Durhans,Secy-Treas.
1771 Pennsylvania St. #36
Denver 5, Colorado

1-Applicant is a Corporation, duly licenced to do business in Wyoming.
2-
3-Officers of Corporation & Directors
Alvin M. Durhans, Pres. Rt.4, Box 115, Golden, Colorado
Chris M. Dixon, Vice Pres. 503 Garfield St. Laramie, Wyoming
Edward K. Durhans, Secy-Treas. 1771 Penn. Denver 5, Colorado
Five largest Stockholders
Alvin M. Durhans
Chris M. Dixon
Edward K. Durhans
Frank M. Utter ---1104 - 20th St. So. Arlington, Va.
Leslie Utter, --- Winfield, Iowa
4-(a) Directors have had 20 years prospecting,mining & business experience.
(b) J. H. Wemlinger, Mining Engineer - 920-2nd Ave. Seattle, Wash. whose experience as an executive on mining operations, will manage the project. (30 years experience).
5-The Independence Gold Mining Co. Inc. is the sole owner.
6-There are no encumbrances on the property.
7-(No Lease)
8-Financial Statement - Attached on separate sheet.
9-Applicant is prepared to invest 10% of the total requested -- to be in form of labor (3 men), housing & equipment & what cash is made available.

(Exploratory project will require a period not to exceed two years.
Reference # 8 Financial Statement
14 unpatented Lode Mining Claims.
Cabin 20' by 30'
Powder Magazine
Approximately 400 ft of tunnel workings.
Three open cuts on 60 ft dyke above tunnel. At intervals of 100-300 and 450 ft. Several holes and trenches on Claim # 8 (Mottled Quartz).
Bridge and road serviceable.
Platinum values ranging from fraction of one ounce to over four ounces, reported by different chemists.
Recent test made by Mr. Andy Sweet at Denver Bureau of Mines Government laboratory showed platinum group metals.
Tests made by Mr. J.H.Wemlinger, Mining Engineer at Seattle, Wash. showed platinum group metals on all samples tested.
Corporation tax paid last in 1950 showing a valuation not to exceed $50,000
Housing serviceable.

Authorized Capitalization	$250,000.00	$ 10¢ par.
Directors hold	105,000.00	" " "
Stockholders hold	31,000.00	" " "
Issued ----------	136,000.00	" " "
Unissued ----------	114,000.00	" " "
Total	$250,000.00	" " "

Discovery work 14 lode claims ----------	$1,000.00
Tunnel work contracted at $80.00 per ft ----	3,000.00
Open trenches on Mt above tunnel ----------	3,000.00
Laboratory Milling Unit- Rod Mill, Pulverizer and Jig also three phase electric motors (used) and installed ----------	1,000.00
Engineering, mapping, analysis over 20 yrs ---	7,000.00
Administrative, Rodd, Bridges, Building etc.--	16,000.00
Total Expended	$ 31,000.00

Directors are not on salry, they have given freely of their time and money to keep work done at property since Govt. suspended moratorium on annual labor.

o debts outstanding other than Attorney fees.

9- Applicant is prepared to furnish three men, ~~and~~ equipment and housing during the exploratory period, equivalent to 10 of the amount ($100,000.00 requested) Exploratory period to be completed within 2 yrs.

approved
Alvin M. Durhans Edward K Durhans

MF-103

Independence Gold Mining Co. Inc.
Centennial, Wyoming

Edward K. Burhans
1771 Pennsylvania St. #26
Denver 5, Colorado

10- (a) The property to be considered under this application is Independence Claims #1 and # 2 of the Corporation holdings.
(b) The legal description being Camp site of Company, ground laying on Middle Fork of the Little Laramie River. Situated in Sec. 7- Twn 15 R 78 Both being one and the same location.
11- The present name being the Independence Gold Mining Co. Inc . Independence being original discoverer of this ore body, no other name known.
12- The Independence property is located 6 miles S.W. of Centennial, R.R., has a fair road to shipping point Centennial, Wyo.
13- Water abundant for every purpose, Middle Fork of Little Laramie River. Propose to use Gas Motor untill water power may be developed. Cost not determined-
14-Cabin 20'by 30', Powder magazine, Forge , anvil, bridge, road.
15-Ore could be moved to Rail Road Centennial, but being a Platinum Group ore, do not know where ore could be refined after milling.
16- (a) Property was opened by surface open cut back in 1930. Crosscut tunnel was driven across fifty foot mineralized dyke, and drift on foot wall driven in approximately 500 ft (Three Hundred). Property was closed by Govt order during last war. Tunnel caved in and was reopened when work was resumed after moratorium. Impossibility to finance due to S.E.C. regulations.
(b) The Empire Property located by Jake Schnitzler ½ mile south of Independence showed platinum group minerals.
The Rambler Mine 6 miles SW of Independence has a production record in platinum and palladium. The result of recent core drilling showed two ore bodies in Diamond Drilling.
(c) Report from Patzig Laboratory- Haven & Hout Report - Analysis from tunnel by Haven & Hout --- Reports attached to this application.
17- Property is under development
Approximately 2,000 tons of ore at dump, 50 ton at R.R. and over 50,000 tons blocked in workings. Values ranging from $50.00 to $400.00 per ton.
18- Open cuts at surface and tunnel workings hasproven large ore reserves. Ore body is 50 ft in width, and can be traced on the property length of two claims. Three trenches on Claim #1.
(b)Assay Reports attached.
(c)Over 50,000 tons of ore blocked- reports indicate value will run $50.00 and upward. $2,500,000 — Start mining this to prove production of PT group.
19- There is a strong vein laying approximately 300 Ft. north of present workings. Another vein intersects the main ore body in neighborhood of dump.

EXPLORATION

20- We will carry on an exploration program for Platinum, Palladium, Iridium Osmium, Rhodium and Ruthenium. Some nickel, cobalt , copper and bismuth. Gold values will range grom $5.00 to $12.00 per ton.
21- We propose to drive drift back another 500 ft, crosscutting the fifty ft ore body- We propose to core drill on Claims #1 and #2 to determine re erves at deapth. We propose to uncover the intersection mentioned in Paragraph 19/ Time required less than 12 months.
22- We would refer you to Geological Reports of District, Rambler Report, Empire Platinum discovery . Have no maps of property.

Requirements and Costs

23- (a) 2 Miners @$12. per 8 hr shift
(4 Muckers @ $10. per 8 hr shift
1 Millman @ $15. pre 8 hr shift
) b)1 Supervisor $400. per month
(c) $500. repairs to Bunk house
(d) Bunkhouse 20' by 30' --- Cook House 30'by 30' Cost $3,000.
(e) Compressor, Motor, Car , Track 1,000 ft.,2Drifters,1jack hammer, Powder, Caps Fuse, Tools, Ore bins, Cost approximately $10,000.
(f) We propose to rent Core drilling Unit- for several tests of ore body-- Catapillar and Bulldozer may be rented at $8. per hour- Cost will depend on time required to prove the ore body.
(g) All equipment and buildings of Co. will be made available no cost
(h) Camp equipment, raincoats, hard hats, cots, carbide lamps. $1,500.
(i) Power and Utilities, water, sanitation, $8,000.
24 Core drilling- Drifting and crossouts 6 months Cost- $40,000.
Open trenching of fifty ft dyke- 10 days Cost 1,000.
Housing and Cook House can be built of logs 1.month 3,000
Project can be completed in 12 months-- cost may run under $100,000.

THE INDEPENDENCE MINE

The Independence mining claims are located in the Centennial Mining District. Sections 7 and 8, Township 15, R. 78, W. Albany County, Wyoming.

ACCESSIBILITY

This property is situated on a good road and is only four miles from the town of Centennial, Wyoming, a Union Pacific railroad point.

TIMBER, CLIMATE and MINING FACILITIES

A very valuable asset to the property is the large amount of virgin timber now standing on the ground. (See photo #1). There is sufficient to carry on mining operations for a long time to come as well as furnish lumber for all necessary building purposes.

The climate is such that work can be carried on throughout the entire year without interruption from this source. Making general mining operations much cheaper and in every way more satisfactory than in many other mining localities.

GEOLOGY

This entire area is composed of pre-Cambrian formations. The formation appears to be composed of hard banded schist, high in silica and of very fine texture. This schist is cut by a Pegmatite dyke. It should be noted at this point that a zone of intersection such as appears here usually has a direct bearing on mineral concentration. The material of the immediate intersection is soft and can be rapidly and quite cheaply crushed. There is nothing at present to indicate the necessity of expensive specialized machinery.

The vein has been opened up by a tunnel, also three open cuts above the tunnel level at approximately 100 feet, 300 feet and 450 feet. Each open cut makes a good exposure of the vein, particularly the cut 450 above the tunnel which shows the vein 30 feet across - practically all ore. (See photo #2). Samples were taken for assay at various points on the property as indicated on the accompanying plat. The results of which are tabulated on the last sheet of this report. It is noteworthy at this point to call attention to the fact that in several cases no result was obtained from a fire assay regardless of flux charges. At the same time values were disclosed on the same ore by chemical means. We can only attribute this action to various elements contained in the ore which, due to their peculiar combination volatilized the values under the influence of heat.

IN CONCLUSION

There is a large, practically level area below the tunnel portal through which the Middle Fork of the Little Laramie River flows. Making an ideal camp site as well as the proper location for necessary mine buildings and mill. The stream has a fall sufficient to generate electricity for all purposes of light, power and domestic use and plenty of water for a good sized mill.

Respectfully submitted,

Wm. L. Hout
C. J. Haven

COPY

Assay of samples taken from
Independence Mine
Centennial, Wyoming. Sept. 1-1948

Description	Width	Sampled	Oz. per Ton Gold	Oz. per Ton Pt	Value
No. 1 on hangingwall, marked	(1)	plate 1 8"	no result		
No. 2 " " "	(2)	" 1 6"	trace	4.70	$404.20
No. 3 " " "	(3)	" 1 8"	trace	1.90	163.40
No. 4-5-6-7-8 no result		34"	no result		
No. 9 " " "	(9)	" 1 11"		4.80	412.80
No. 10 " " "	(10)	" 1 6"		4.80	412.80
No. 11 " " "	(11)	" 1 7"		1.07	92.02
No. 12 " " "	(12)	" 1 12"	.48		16.80

The following 4 samples run by fire assay.

No. 1 marked HG from 3rd ledge		plate 1 4 to 6"	.18		6.30
No. 2 " AV " " "		" 1 X 30'	.18		6.30
No. 3 " oxidized streak	(DX)	" 1 20"	.24		8.40
No. 4 on hangingwall tunnel	(12)	" 1 12"	.48		16.80
Marked High grade from 3rd ledge 12' from exposed footwall	(HG)	" 1 4 to 6"	no result		
Average taken across 30' on 3rd ledge	(AV)	" 1 30'		.94	80.84
From graphite streak in the graphite sheered zone at footwall on 1st ledge	(XOX)	1 24"	no result		

All the above tests made on samples No. 1 to 12 inclusive and the two samples marked HG and AV were made by wet tests following scheme outlined in J. Bishops & Co., book on Technical & Industrial Platinum. It is worthy of note that in each of the samples taken from exposures the values are above average.

The values here are based on Gold at $35.00 per Oz. and Platinum @ $86.00 per Oz.

Signed Wm. L. Hout

C. J. Haven

COPY

Des Moines, Iowa
Jan. 20, 1936

Mr. W.A.Burhans
6th & Spring St.
Burlington, Iowa

Dear Sir:

On the sample of ore from the Independence property at Centennial Wyo., we obtained the following results at the Patzig Lab at Des Moines, Iowa.

This ore was a picked sample by Alvin Burhans, taken on the outcrop of the vein, about 14 feet from the footwall and about 50 Ft above the tunnel.

No. 1

	Oz. per ton	
Iridium	6.685	$401.10
Osmium	.825	49.50
Platinum	1.891	66.18
Gold	.34	11.90
Palladium	1.33	30.59
Rhodium	.41	21.30
		$580.57

No. 2

	Oz. per ton	
Iridium	6.916	$414.96
Osmium	1.395	83.70
Platinum	1.914	66.99
Gold	.36	12.60
Palladium	1.33	30.59
Rhodium	.45	23.40
		$632.24

The prices used in computing the above values were the average prices for the year 1934 , as listed in the United States Bureau of Mines Year Book-- Iridium, $60.00 per oz., Osmium $60.00, Gold $35.00, Platinum $35.00, Palladium $22.50, Rhodium $52.00.

The method used was a wet analysis of the ore as recommended by the Chief Chemist of the American Platinum Co. A fire assay of the ore was made, as in ordinary fire assay for gold and silver but all the values of the rare metals were lost. There was considerable graphite present in theore , and this together with thepresence of Osmium probably accounts for the volitalization and the loss of the rare metals in the fire assay.

Yours truly,
(Signed) E.A.Sayer

EKB

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 - 1507 X

Date received 6/4/51

Participation

INDEPENDENCE GOLD MINING CO. INC.
Centennial
Wyoming

Edward K. Burhans, Secy.Treas.
1771 Pennsylvania St. 26
Denver 5, Colorado

Name and address of applicant

Date May, 26, 1951

FILL IN THIS BLOCK

Date of application May28, 1951

Estimated cost $100,000.00

Mineral or metal Platinum Group

Percentage of Government participation 90%

Location of mine Centennial, Wyoming

Sec.7 & 8 Twn.15 Range 78

Date of filing MF-100

DMA Docket Number, if available

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INDEPENDENCE COAL MINING CO. INC.
(Name of company)

By Edward H. Burbank
(Signature of authorized official)

Centennial, Wyoming
(Date)

May 28, 1951
(Title)

Sec-Treas Independence C. M. Co.

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MF-103

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1771 Pennsylvania St. #26
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Laboratory Milling Unit- Rod Mill, Pulverizer and Jig also three phase electric motors (used) and installed ---------- -	1,200.00
Engineering, mapping, analysis over 20 yrs ---	7,000.00
Administrative, Rodd, Bridges, Building etc.--	10,000.00
Total Expended	$ 31,000.00

Directors are not on salry, they have given freely of their time and money to keep work done at property since Govt, suspended moratorium on annual labor.

No debts outstanding other than Attorney fees.

9- Applicant is prepared to furnish three men, and equipment and housing during the exploratory period, equivelent to 10 % of the amount ($100,000.00 requested) Exploratory period to be completed within 2 yrs.

Approved
Alvin M. Burhans Edward K. Burhans

MP-103

Independence Gold Mining Co. Inc.
Centennial, Wyoming

Edward K. Burhans
1771 Pennsylvania St. #26
Denver 5, Colorado

10- (a) The property to be considered under this application is Independence Claims #1 and # 2 of the Corporation holdings.
(b) The legal description being Camp site of Company, ground laying on Middle Fork of the Little Laramie River. Situated in Sec. 7- Twn 15 R 78 Both being one and the same location.
11- The present name being the Independence Gold Mining Co. Inc . Independence being original discoverer of this ore body, no other name known.
12- The Independence property is located 6 miles S.W. of Centennial, R.R., has a fair road to shipping point Centennial, Wyo.
13- Water abundant for every purpose, Middle Fork of Little Laramie River. Propose to use Gas Motor untill water power may be developed. Cost not determined-
14-Cabin 20'by 30', Powder magazine, Forge , anvil, bridge, road.
15-Ore could be moved to Rail Road Centennial, but being a Platinum Group ore, do not know where ore could be refined after milling.
16- (a) Property was opened by surface open cut back in 1930. Crosscut tunnel was driven across fifty foot mineralized dyke, and drift on foot wall driven in approximately 300 ft (Three Hundred). Property was closed by Govt order during last war. Tunnel caved in and was reopened when work was resumed after moratorium. Impossibility to finance due to S.E.C. regulations.
(b) The Empire Property located by Jake Schnitzler ½ mile south of Independence showed platinum group minerals.
The Rambler Mine 6 miles SW of Independence has a production record in platinum and palladium. The result of recent core drilling showed two ore bodies in Diamond Drilling.
(c) Report from Patzig Laboratory- Haven & Hout Report - Analysis from tunnel by Haven & Hout --- Reports attached to this application.
17- Property is under development
Approximately 2,000 tons of ore at dump, 50 ton at R.R. and over 80,000 tons blocked in workings. Values ranging from $50.00 to $400.00 per ton.
18- Open cuts at surface and tunnel workings hasproven large ore reserves. Ore body is 50 ft in width, and can be traced on the property length of two claims. Three trenches on Claim #1.
(b)Assay Reports attached.
(c)Over 50,000 tons of ore blocked- reports indicate value will run $50.00 and upward.
19- There is a strong vein laying approximately 300 Ft. north of present workings. Another vein intersects the main ore body in neighborhood of dump.

EXPLORATION

20- We will carry on an exploration program for Platinum, Palladium, Iridium Osmium, Rhodium and Ruthenium. Some nickel, cobalt , copper and bismuth. Gold values will range grom $5.00 to $12.00 per ton.
21- We propose to drive drift back another 500 ft, crosscutting the fifty ft ore body- We propose to core drill on Claims #1 and #2 to determine re erves at deapth. We propose to uncover the intersection mentioned in Paragraph 19/ Time required less than 12 months.
22- We would refer you to Geological Reports of District, Rambler Report, Empire Platinum discovery . Have no maps of property.

Requirements and Costs

23- (a) 2 Miners @$12. per 8 hr shift
(4 Muckers @ $10. per 8 hr shift
1 Millman @ $15. pre 8 hr shift
) b)1 Supervisor $400. per month
(c) $500. repairs to Bunk house
(d) Bunkhouse 20' by 30' --- Cook House 30'by 30' Cost $3,000.
(e) Compressor, Motor, Car , Track 1,000 ft.,2Drifters,1-Jack hammer, Powder, Caps Fuse, Tools, Ore bins, Cost approximately $10,000.
(f) We propose to rent Core drilling Unit- for several tests of ore body-- Catapillar and Bulldozer may be rented at $8. per hour- Cost will depend on time required to prove the ore body.
(g) All equipment and buildings of Co. will be made available no cost
(h) Camp equipment, raincoats, hard hats, cots, carbide lamps. $1,500.
(i) Power and Utilities, water, sanitation, $8,000.
24 Core drilling- Drifting and crosscuts 6 months Cost- $40,000.
Open trenching of fifty ft dyke- 10 days Cost 1,000.
Housing and Cook House can be built of logs 1.month 3,000
Project can be completed in 12 months-- cost may run under $100,000.

THE INDEPENDENCE MINE

The Independence mining claims are located in the Centennial Mining District. Sections 7 and 8, Township 15, R. 78, W. Albany County, Wyoming.

ACCESSIBILITY

This property is situated on a good road and is only four miles from the town of Centennial, Wyoming, a Union Pacific railroad point.

TIMBER, CLIMATE and MINING FACILITIES

A very valuable asset to the property is the large amount of virgin timber now standing on the ground. (See photo #1). There is sufficient to carry on mining operations for a long time to come as well as furnish lumber for all necessary building purposes.

The climate is such that work can be carried on throughout the entire year without interruption from this source. Making general mining operations much cheaper and in every way more satisfactory than in many other mining localities.

GEOLOGY

This entire area is composed of pre-Cambrian formations. The formation appears to be composed of hard banded schist, high in silica and of very fine texture. This schist is cut by a Pegmatite dyke. It should be noted at this point that a zone of intersection such as appears here usually has a direct bearing on mineral concentration. The material of the immediate intersection is soft and can be rapidly and quite cheaply crushed. There is nothing at present to indicate the necessity of expensive specialized machinery.

The vein has been opened up by a tunnel, also three open cuts above the tunnel level at approximately 100 feet, 300 feet and 450 feet. Each open cut makes a good exposure of the vein, particularly the cut 450 above the tunnel which shows the vein 30 feet across - practically all ore. (See photo #2). Samples were taken for assay at various points on the property as indicated on the accompanying plat. The results of which are tabulated on the last sheet of this report. It is noteworthy at this point to call attention to the fact that in several cases no result was obtained from a fire assay regardless of flux charges. At the same time values were disclosed on the same ore by chemical means. We can only attribute this action to various elements contained in the ore which, due to their peculiar combination volatilized the values under the influence of heat.

IN CONCLUSION

There is a large, practically level area below the tunnel portal through which the Middle Fork of the Little Laramie River flows. Making an ideal camp site as well as the proper location for necessary mine buildings and mill. The stream has a fall sufficient to generate electricity for all purposes of light, power and domestic use and plenty of water for a good sized mill.

Respectfully submitted,

Wm. L. Hout
C. J. Haven

COPY

Assay of samples taken from
Independence Mine
Centennial, Wyoming. Sept. 1-1948

Description		Width Sampled	Oz. per Ton Gold	Pt	Value
No. 1 on hangingwall, marked	(1) plate	1 8"	no result		
No. 2 " " "	(2) "	1 6"	trace	4.70	$404.20
No. 3 " " "	(3) "	1 8"	trace	1.90	163.40
No. 4-5-6-7-8 no result		34"	no result		
No. 9 " " "	(9) "	1 11"		4.80	412.80
No. 10 " " "	(10) "	1 6"		4.80	412.80
No. 11 " " "	(11) "	1 7"		1.07	92.02
No. 12 " " "	(12) "	1 12"	.48		16.80

The following 4 samples run by fire assay.

No. 1 marked HG from 3rd ledge	plate	1 4 to 6"	.18		6.30
No. 2 " AV " " "	"	1 X 30'	.18		6.30
No. 3 " oxidized streak	(DX) "	1 20"	.24		8.40
No. 4 on hangingwall tunnel	(12) "	1 12"	.48		16.80
Marked High grade from 3rd ledge 12' from exposed footwall	(HG) "	1 4 to 6"	no result		
Average taken across 30' on 3rd ledge	(AV) "	1 30'		.94	80.84
From graphite streak in the graphite sheered zone at footwall on 1st ledge	(XOX)	1 24"	no result		

All the above tests made on samples No. 1 to 12 inclusive and the two samples marked HG and AV were made by wet tests following scheme outlined in J. Bishops & Co., book on Technical & Industrial Platinum. It is worthy of note that in each of the samples taken from exposures the values are above average.

The values here are based on Gold at $35.00 per Oz. and Platinum @ $86.00 per Oz.

Signed Wm. L. Hout

C. J. Haven

COPY

Des Moines, Iowa
Jan. 20, 1936

Mr. W.A.Burhans
6th & Spring St.
Burlington, Iowa

Dear Sir:

On the sample of ore from the Independence property at Centennial Wyo., we obtained the following results at the Patzig Lab at Des Moines, Iowa.

This ore was a picked sample by Alvin Burhans, taken on the outcrop of the vein, about 14 feet from the footwall and about 50 ft above the tunnel.

No. 1

	Oz. per ton	
Iridium	6.685	$401.10
Osmium	.825	49.50
Platinum	1.091	66.18
Gold	.34	11.90
Palladium	1.33	30.59
Rhodium	.41	21.30
		$580.57

No. 2

	Oz. per ton	
Iridium	6.916	$414.96
Osmium	1.395	83.70
Platinum	1.914	66.90
Gold	.36	12.60
Palladium	1.33	30.59
Rhodium	.45	23.40
		$632.34

The prices used in computing the above values were the average prices for the year 1934, as listed in the United States Bureau of Mines Year Book-- Iridium, $60.00 per oz., Osmium $60.00, Gold $35.00, Platinum $35.00, Palladium $22.50, Rhodium $52.00.

The method used was a wet analysis of the ore as recommended by the Chief Chemist of the American Platinum Co. A fire assay of the ore was made, as in ordinary fire assay for gold and silver but all the values of the rare metals were lost. There was considerable graphite present in theore, and this together with thepresence of Osmium probably accounts for the volitalization and the loss of the rare metals in the fire assay.

Yours truly,
(Signed) F.A.Sayer

FAS

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-1507X

Date received 6/4/51

Participation

INDEPENDENCE GOLD MINING CO. INC.
Centennial
Wyoming

Edward R. Burhanc, Secy.-Treas.
1771 Pennsylvania St. 206
Denver 8, Colorado

Name and address of applicant

Date May, 24, 1951

FILL IN THIS BLOCK

Date of application May23, 1951

Estimated cost $100,000.00

Mineral or metal Platinum Group

Percentage of Government participation 90%

Location of mine Centennial, Wyoming

Sec.7 & 8 Twn.15 Range 78

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

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

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
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				

Development- ore on dump ore blocked

*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.

INDEPENDENCE GOLD MINING CO. INC.
(Name of company)

By _____
(Signature of authorized official)

Centennial, Wyoming
(Date)

Edward H. Burfoss
(Title) Sec-Treas

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.

May 25, 1981

Secy-Treas Independence G. M. CO.

*Same as footnote on page 1.

MF-103

Independence Gold Mining Co. Inc.
Centennial, Wyoming

Edward K.Burhans,Secy-Treas.
1771 Pennsylvania St. #26
Denver 5, Colorado

1-Applicant is a Corporation, duly licenced to do business in Wyoming.
2-
3-Officers of Corporation & Directors
Alvin M. Burhans, Pres. Rt.4, Box 115, Golden, Colorado
Chris M. Dixon, Vice Pres. 508 Garfield St. Laramie, Wyoming
Edward K. Burhans, Secy-Treas. 1771 Penn. Denver 5, Colorado
Five largest Stockholders
Alvin M. Burhans
Chris M. Dixon
Edward K. Burhans
Frank M. Utter ---1104 - 20th St. So. Arlington, Va.
Leslie Utter, --- Winfield, Iowa
4-(a) Directors have had 20 years prospecting,mining & business experience.
(b) J. R. Wemlinger, Mining Engineer - 920-2nd Ave. Seattle, Wash. whose experience as an executive on mining operations, will manage the project. (30 years experience).
5-The Independence Gold Mining Co. Inc. is the sole owner.
6-There are no encumbrances on the property.
7-(No Lease)
8-Financial Statement - Attached on separate sheet.
9-Applicant is prepared to invest 10% of the total requested -- to be in form of labor (3 men), housing & equipment & what cash is made available.

(Exploratory project will require a period not to exceed two yeard.
Reference # 8 Financial Statement
14 unpatented Lode Mining Claims.
Cabin 20' by 30'
Powder Magazine
Approximately 400 ft of tunnel workings.
Three open cuts on 50 ft dyke above tunnel. At intervals of 100-300 and 450 ft. Several holes and trenches on Claim # 2 (Mottled Quartz).
Bridge and road serviceable.
Platinum values ranging from fraction of one ounce to over four ounces, reported by different chemists.
Recent test made by Mr. Andy Sweet at Denver Bureau of Mines Government laboratory showed platinum group metals.
Teasts made by Mr. J.R.Wemlinger, Mining Engineer at Seattle, Wash. showed platinum group metals on all samples tested.
Corporation tax paid last in 1950 showing a valuation not to exceed $50,000
Housing serviceable.

Authorized Capitalization	$250,000.00	@	10¢	par.
Directors hold	105,000.00	"	"	"
Stockholders hold	31,000.00	"	"	"
Issued ----------	136,000.00	"	"	"
Unissued ----------	114,000.00	"	"	"
Total	$250,000.00	"	"	"

Discovery work 14 lode claims ----------	$1,400.00
Tunnel work contracted at $20.00 per ft ----	8,000.00
Open trenches on Mt above tunnel ----------	3,000.00
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Wm. L. Hout
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Average taken across 30' on 3rd ledge	(AV)	"	1 30'		.94	80.84
From graphite streak in the graphite sheered zone at footwall on 1st ledge	(XOX)		1 24"	no result		

All the above tests made on samples No. 1 to 12 inclusive and the two samples marked HG and AV were made by wet tests following scheme outlined in J. Bishops & Co., book on Technical & Industrial Platinum. It is worthy of note that in each of the samples taken from exposures the values are above average.

The values here are based on Gold at $35.00 per Oz. and Platinum @ $86.00 per Oz.

Signed Wm. L. Hout

C. J. Haven

COPY

Des Moines, Iowa
Jan. 20, 1936

Mr. W.A.Burhans
6th & Spring St.
Burlington, Iowa

Dear Sir:

On the sample of ore from the Independence property at Centennial Wyo., we obtained the following results at the Patzig Lab at Des Moines, Iowa.

This ore was a picked sample by Alvin Burhans, taken on the outcrop of the vein, about 14 feet from the footwall and about 50 Ft above the tunnel.

No. 1

	Oz. per ton	
Iridium	6.685	$401.10
Osmium	.825	49.50
Platinum	1.391	66.18
Gold	.34	11.90
Palladium	1.33	30.59
Rhodium	.41	21.30
		$580.57

No. 2

	Oz. per ton	
Iridium	6.916	$414.96
Osmium	1.395	83.70
Platinum	1.914	66.99
Gold	.36	12.60
Palladium	1.33	30.59
Rhodium	.45	23.40
		$632.24

The prices used in computing the above values were the average prices for the year 1934 , as listed in the United States Bureau of Mines Year Book-- Iridium, $60.00 per oz., Osmium $60.00, Gold $35.00, Platinum $35.00, Palladium $22.50, Rhodium $52.00.

The method used was a wet analysis of the ore as recommended by the Chief Chemist of the American Platinum Co. A fire assay of the ore was made, as in ordinary fire assay for gold and silver but all the values of th rare metals were lost. There was considerable graphite present in theore , and this together with thepresence of Osmium probably accounts for the volitalization and the loss of the rare metals in the fire assay.

Yours truly,
(Signed) E.A.Sayer

EKB