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

July 3, 1951

Memorandum

To: Landon F. Strobel, Executive Secretary

Through: Director Supply Division

From: Manganese Branch

Subject: DMA-1253-X, P. E. Dunn, 1450 Lawrence Street, Denver 2, Colo.

This request is for an exploration loan in amount of $3,000 to reopen a property near Centenial, Wyoming. The information supplied consists of a single assay showing bismuth, cobalt, manganese, and other metals, and a series of assays for gold, silver and bismuth. The content of manganese and bismuth is too low to indicate any commercial value and the one cobalt assay submitted is insufficient to permit approval on this basis. The opinion as to cobalt is concurred in by Mr. Bourret. The application is denied.

George B. Holderer

Approved

Director, Supply Division

FILE COPY
SURNAME:

Holden
Hanson

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

July 3, 1951

Mr. P. K. Dunn
1450 Lawrence Street
Denver 2, Colorado

In reply please refer to
DMA-1253-A

Dear Mr. Dunn:

Your request for an exploration project loan to cost $3,000.00, covering bismuth, manganese and cobalt in Albany County, Wyoming, has been reviewed by the commodity specialists dealing with those minerals.

The information you have supplied is not sufficient to be conclusive. However, the assays submitted indicate that the property has no value for either bismuth or manganese. As to cobalt, the project cannot be approved on the basis of the one assay presented. It is therefore necessary to deny your application.

Very truly yours,

Tom Lyon
Tom Lyon
Director, Supply Division

FWHanson:ec

CC: Adm. Reading File
Mr. Strobel
Mr. Holderer
Regional Field Team
Files

July 2, 1951

Index of File to Executive Secretary

Applicant:

P. E. Dunn
1450 Lawrence Street
Denver 2, Colorado

DMA-1253-X -- Manganese
Albany County, Wyoming

1. 1 Copy application on Form MF-103, maps and assay reports attached, with letter of transmittal, May 16, 1951, Field Team Region IV to Executive Secretary.

2. 1 Copy, Review of Application June 7, 1951 by M. D. Crittenden.

3. 1 Copy Office Memo. M. D. Crittenden to George Holderer, suggested letter to applicant June 19, 1951, also on same page suggested memo. to Executive Secretary.

G.E.C.

July 3, 1951

Mr. P. E. Dunn
1450 Lawrence Street
Denver 2, Colorado

In reply please refer to
DMA-1153-1

Dear Mr. Dunn:

Your request for an exploration project loan to cost $3,000.00, covering bismuth, manganese and cobalt in Albany County, Wyoming, has been reviewed by the commodity specialists dealing with these minerals.

The information you have supplied is not sufficient to be conclusive. However, the assays submitted indicate that the property has no value for either bismuth or manganese. As to cobalt, the project cannot be approved on the basis of the one assay presented. It is therefore necessary to deny your application.

Very truly yours,

Tom Lyon
Tom Lyon
Director, Supply Division

FWHanson:ec

CC: Adm. Reading File
Mr. Strobel
Mr. Holderer
Regional Field Team
Files

Mr. George Holderer June 19, 1951

M. D. Crittenden

DMA 1253 X

The following are suggested drafts of a letter to P. E. Dunn and a memo for Strobel dealing with subject docket.

Mr. P. E. Dunn
1450 Lawrence
Denver 2, Colorado

Dear Mr. Dunn:

Your request for an exploration project costing $3,000.00 for bismuth, manganese and cobalt in Albany County has been reviewed by the commodity specialists dealing with those minerals.

The information you have supplied is not sufficient to be conclusive. However, the assays submitted indicate that the property has no value for either bismuth or manganese. The situation regarding cobalt is not so discouraging, However, it is not possible to approve the project proposed on the basis of the one assay available. This is particularly true in the case of complex ores of this sort in which recovery of the cobalt is likely to present a serious problem. If you are able to submit additional information concerning the average width of veins and the cobalt content, it may be possible to reconsider your application. Also it would be desirable for you to obtain a statement from a potential cobalt treatment plant, such as that planned by Calera Mining Co. at Garfield, Utah as to the possible amenability of your ore to their process.

Sincerely yours,

Memorandum
To: Mr. Strobel
From: George Holderer
Subject: DMA 1253 X

P. E. Dunn, 1450 Lawrence, Denver 2, Colorado has requested an exploration project costing $3,000 to be reopened a property near Centennial, Wyoming. The information supplied consists of a single assay showing bismuth, cobalt and manganese content and a series of assays for gold, silver and bismuth. The manganese and bismuth content is too low to make the property of potential value for these commodities. The one assay submitted for cobalt is insufficient to permit approval on this basis. However, the applicant has been informed that his application will be reconsidered if additional evidence concerning cobalt content and recoverability can be supplied.

MDCrittenden:gt

FILE COPY
SURNAME:

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

May 28, 1951

Mr. P. E. Dunn
1450 Lawrence
Denver 2, Colorado

Subject: DMA-1253X
Re: Exploration Loan

My dear Mr. Dunn:

Receipt is acknowledged of your application and attachments of May 14, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1253X and was referred to Mr. P. R. Bradley, Chief, Manganese Branch on May 25, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1253X.

Sincerely yours,

LANDON F. STROBEL
jhs

Landon F. Strobel
Executive Secretary

LFSTROBEL:jhs
cc: Strobel-2
✓Files
Bradley
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 12153 X

Date received 5/21/51

Participation

P. E. Dunn
1450 Lawrence
Denver 2, Colorado

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application May 7, 1951

Estimated cost $3,000.00

Mineral or metal Manganese, Bismuth, Cobalt and Graphite

Percentage of Government participation

Location of mine Albany County, Wyoming

Sects. 4 and 9, T. 15N, Range 78W

Date of filing MF-100

DMA Docket Number, if available dma 12153X

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*2. If a partnership, state names and addresses of partners.

*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? Owner

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.

(Name of company)	By P. E. Dunn (Signature of authorized official)
(Date)	(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

May 14, 1951

United States Department of the Interior
Bureau of Mines
Office of Regional Director
224 New Customhouse
Denver 2, Colorado

Gentlemen:

(4) I have had twenty or more years mining experience but intend to hire a manager to run the project if I can get started.

(8) I have no liabilities except an invalid wife; perhaps $500 in the bank. I am working in a war plant - Coleman Motors in Littleton, Colorado.

(9) Expect to work out my share of loan. I am only asking for enough money to open up portals of two tunnels so government crews can get in to sample the vein.

(10) - a. I have about 80 acres, on the southeast side of the mountain, mostly patented. Mill, some machinery and 75 horsepower boiler. 10 Cabins, about 2500' of development work in mine, two tunnels and raise 240' connecting tunnels. The mine was operated for gold until 1937

(10) - b. Albany County, Wyoming - Sects. 4 and 9, Township 15N, Range 78W.

(11) Utopia Mining and Milling Company

(12) Mine is one mile from Centenial, Wyoming on oiled road, thirty miles due west of Laramie, Wyoming. Railroad runs through Centenial.

(13) Stream of water year round on each side of mountain.

(14) May be able to repair cabins and mill so we could use. No timber; no caves in mine.

(15) Could ship ore from Centenial to American Smelter in Ogden, Utah.

(16) - a. History of property -- Has been operated at different periods since 1890 for gold only couldn't save the values on account of graphite in ore, Mr. Alf Tellum tells me. Mr. Alf Tellum (deceased) examined

the property six years ago and gave me report on gold and bismuth. Am sending you copy of report and plat. Please return.

(16) - b. There are several other mines in this district but I have no information on any of them.

(16) - c. I had a qualitative analysis of ore made several years ago ~~but have lost the report~~ but it showed the minerals I have outlined on Form MF-103 per manganese, bismuth, cobalt ~~and graphite~~. Am sending copy

(17) Mine has not been in production since 1937.

(21) Portals are caved on two tunnels. Will take 3 to 4 weeks to clear and timber each.

(23) I will need two miners to help me do the work at $10 or $11 per day each. I will have to house and feed them. I will have to do this work before government engineers can get in to examine property. The vein runs from my side of the mountain to opposite side about 4 miles and runs from 40" to 11' wide.

Sincerely yours,

P. E. Dunn

P. E. Dunn

COPY

Assays
Analysis
Metallurgical
Problems

HAVEN & SON
Assayers - Chemists

4330 West 32th
Denver, Colorado

Management
Financing Methods
Reports
Examinations

QUALITATIVE ANALYSIS

Substance - Ore

	Aluminum	1.32%
	Bismuth	1.06%
	Calcium Oxide	3.87%
	Chlorine	0.11%
	Cobalt	2.42%
	Copper	0.54%
	Iron	7.70%
	Magnesia	2.63%
	Manganese	2.85%
	Nickel	0.50%
	Potassium	0.82%
	Sulfur	2.56%
	Sodium	1.04%
	Silica	67.61%
	Moisture	0.80%
Combined	Water	4.40%
	Carbon Dioxide	1.79%

Gold	0.20 Oz.	Value $7.00
Silver	1.70 Oz.	Value $1.21
Platinum	0.11 Oz.	Value $1.88

C. J. Haven
Chemist

EXAMINATIONS
ORE TESTING
MILL DESIGN
AND CONSTRUCTION
MILL OPERATION

MINES SERVICE ENGINEERS

2301 FIFTEENTH STREET
DENVER, COLORADO
GLENDALE 2768

MINE REPORTS
METALLURGICAL REPORTS
MILL FLOW SHEETS
CHEMICAL ANALYSIS
METALLURGICAL ANALYSIS

June 22nd 1944

Order No.[illegible]

Mrs. [illegible] Dunn,
Apartment No.3
1450 Lawrence,
Denver, 2
Colorado.

Results of Sampling and Checking Reports on Utopia Tunnels of the Utopia Mining and Milling Co.
Sampled May 25th 26th and 27th 1929 by A.C. Dart, Mining Engineer, Laramie, Wyoming.

Resampled by Alfred Tellam, June 13th 1944

The purpose of this examination and sampling was to check the gold & silver and to determine the possible value in Bismuth.

By personally going over the property on foot checking Mr. Darts report and taking samples from approximately the same places where he showed ore in his report to be in place I feel that his report is very conservitive and the tonnage given (8000 tons) between tunnels No.2 and 4 is on the low side. Judging from the ore showing in the face of tunnel No.3 it would be safe to figure that another (8000 tons) has been developed since the date of Darts report.

Samples and Assays made by Tellam 6/20/44

Sample No.1— Face Tunnel No.3 including 4 inches Sulphide streak on foot wall — 36 inches center made up of mostly schist and 6 inch streak on hanging wall. This shows a very strong vein and probably will continue up to tunnel No.2 (240ft)

Gold ———	0.30 ounces @ $35.00		$ 10.50 per ton
Silver ———	1.70 " @ .70		.84 " "
Bismuth ———	0.20 % or 4 lbs @ $1.25		5.00 " "
Gross Value			$ 16.34 " "

Sample No.2 4 inch streak on foot wall

Gold ———	1.36 ounces	$35.00	$ 47.60 per ton
Silver ———	2.60 "	.70	1.82 " "
Bismuth ———	2.10 % or 42 lbs	$ 1.25	52.50 " "
Gross Value			$ 101.92

Sample No.3 Taken from 6" streak on hanging wall side of vein in tunnel face No.3

Gold ———	0.76 ounces	$35.00	$ 26.10 per ton
Silver ———	1.10 "	.70	.77 " "
Bismuth ———	0.60 % or 12 lbs	$ 1.25	15.00 "
Gross Value			$ 41.87 " "

EXAMINATIONS
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MINES SERVICE ENGINEERS
2801 FIFTEENTH STREET
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The Above 3 samples compare well with Mr.Darts sampling and assaying at about this point in tunnel No.3.

Sample No.4 Taken from back of tunnel No.3 about 25 feet from the inside point in the stop across 24" of vein matter.

Gold -------	0.12 ounces @ $35.00	$ 4.20 per ton
Silver ------	0.50 " @ .70	.35 " "
Bismuth ----	0.55 % or 11lbs @ 1.25	13.75 " "
Gross Value		$ 18.50 " "

This Sample shows that the ore in the stope continues for at least 50ft beyond its present workings and on to the breast. There was no way of checking the exact location of Mr.Darts sample,but all his samples were taken along this level in tunnel No.3 of which my sampling check within reason.

Sample No.5 This sample was taken from the east end of Stope under track in tunnel No.3 about 20ft down near Raise between No.3 and 4 tunnels. The sample represents a face of about 36 inches. This can be easily mined and dropped down Raise to tunnel No.4

Gold -------	0.54 ounces @ $35.00	$ 18.90 per ton
Silver ------	0.85 " @ .70	.60 " "
Bismuth ------	0.22 % or 4.4lbs @ 1.25	5.50
Gross Value		$ 25.00 " "

Sample No.6 Sample taken from west end of stope in tunnel No.3 showing 24 inches of Sulphides mixed with graphite in schist (this seems to be the class of ore treated in the Utopia Mill. This plant was a failure because the gold cyanide solutions were precipituted back into the carbon or graphite as soon as it was formed. No recovery could be expected. The carbon dropped the gold before it could get to the zinc boxes)

Gold -------	0.80 ounces @ $35.00	$ 28.00 per ton
Silver ------	0.95 " @ .70	.66 " "
Bismuth ------	0.92 % 18.4 lbs @ 1.25	23.00 " "
Gross Value		$ 51.66 " "

Sample No.7 Sample taken at mouth of short cross cut towards the north where the stope ends in a good strong vein. Alarge sample of this ore was broken down on canvas and all sacked and taken to sampling works. (this ore is near the ore chute connecting with tunnel No.4 through the raise.)

Gold -------	0.98 ounces @ $35.00	$ 34.30 per ton
Silver ------	1.42 " @ .70	1.00 " "
Bismuth ------	0.70 % or 14lbs @ 1.25	17.50 " "
Gross Value		$ 52.80 " "

From 1000 to 2000 tons of ore can be extracted from above and below tunnel No.3 through the raise connecting tunnel 3 & 4. This ore will average about $ 40.00 per ton Gross Value.

Owing to the presents of graphite there is no use in trying to mill this ore. This ore must be smelted in order to recover the Gold & Silver.

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CHEMICAL ANALYSIS
METALLURGICAL ANALYSIS

June 22nd 1944

The Bismuth is so low grade that it will have to be recovered from the stack fumes mostly and in a base Lead Bullion.
We were not able to get into tunnel No.4 or No.2 on account of cave in that blocked off our entrance . We spent two days draining tunnel No.3 before sampling. This t tunnel is in good condition and has a good air circulation down through the raise that came up from No.4 tunnel. We went down this raise and took sample No.5 which shows about 36 inches on a face to the east for about 20 feet. This body of ore extends up through tunnel level No.3 and has been stoped out for about 40 ft.high. There is ore exposed on all sides of this stope that could be considered as smelting ore,very little sorting would be necessary to recover an ore of about $40.00 gross value per ton, it is impossible to estimate the tonnage that could be extracted here,but there is room for say 1000 tons. Then in the face there is a good showing of ore that would run $16.00 This can be followed from the stope opened for 100ft,back.
I can see no reason why this ore would not continue along the same strike as shown in the outer workings. It is in the same formation.
There is not enough development done on the ore to determine the actual tonnage,but from all indications there should be a good tonnage of probable ore above the flat fault mentioned by Mr.Dart between tunnels No.4 & No.3 also on to above tunnel No.1.
Tunnel No.2 was so badly caved that we could not get in for inspection and sampling. We went up to tunnel No.1 and found it open. This tunnel was driven 20ft south, but after driving 50ft a crosscut was run north 40ft which contracted the main vein of the vein. At this point a winze was put down to tunnel No.2, The timbers were in bad shape and we did not go down to take samples. We sampled the vein in the cross cut which gave the assays.

Sample No.8 30 inch cross vein

Gold -------	0.14 ounces @ $35.00		$ 4.90 per ton
Silver -------	0.40 " @ .70		.28 " "
Bismuth -------	0.36 % or 5.2 lbs @ 1.25		6.50 " "
Gross value			$ 11.68 " "

Then we climbed to the top of the mountain along the strike of the vein to a shaft which had been put down by old timers . Here the vein shows up in many places .

Sample No.9 Taken from pile of ore extracted from shaft assayed

Gold -------	.18 ounces @ $35.00	$ 6.30 per ton
Silver -------	Trace	
Bismuth ------	None	

This is a white quartz oxidized and the gold content is free and will amalgamate. 95 %.

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June 22nd 1944

Conclusion:-

Owing to the fact that we could not get into the mine I was not able to study the faulting system,so I am attaching Mr.A.C.Darts report on this subject.
From the sampling and assaying done by me I feel that Mr.Dart report can be relyed on as being correct,and reliable.
I am very sorry that we could not get into sample No.3 & 4 tunnels,but from my work in tunnel No.3 I feel that the figures by Mr.Dart can be taken as facts up to the date of his report June 15th 1929

From June 15th 1929 up tp the present time there has been much work done on the property and a good deal of ore has been developed that can be considered as actual Ore, probable ore and possible Ore.

There has been a Mill on the property and was used for experimental purposes because all the processes were failures.

The Cyanide process was a failure,because the graphite destroyed all action of the Cyanide.

The gravity concentration was a failure,because a large part of the values are in the graphite and clays which were lost in the slimes..

The amalgamation,process failed,because owing to the graphitic condition and oily reaction the gold would not amalgamate with the mercury. Then the graphite its self carries gold and must be oxidized before a separation can be effected.
Before any metallurgical process is installed experimental work should be carried out on the Chapman Process. which is a combination of Cyanide and Flotation.

The ore is digested in cyanide solution then precipitated with Carbon, Transfering all the gold in the ore into the prophite or carbon. Then floating out the carbon containing all the gold along with the Bismuth.

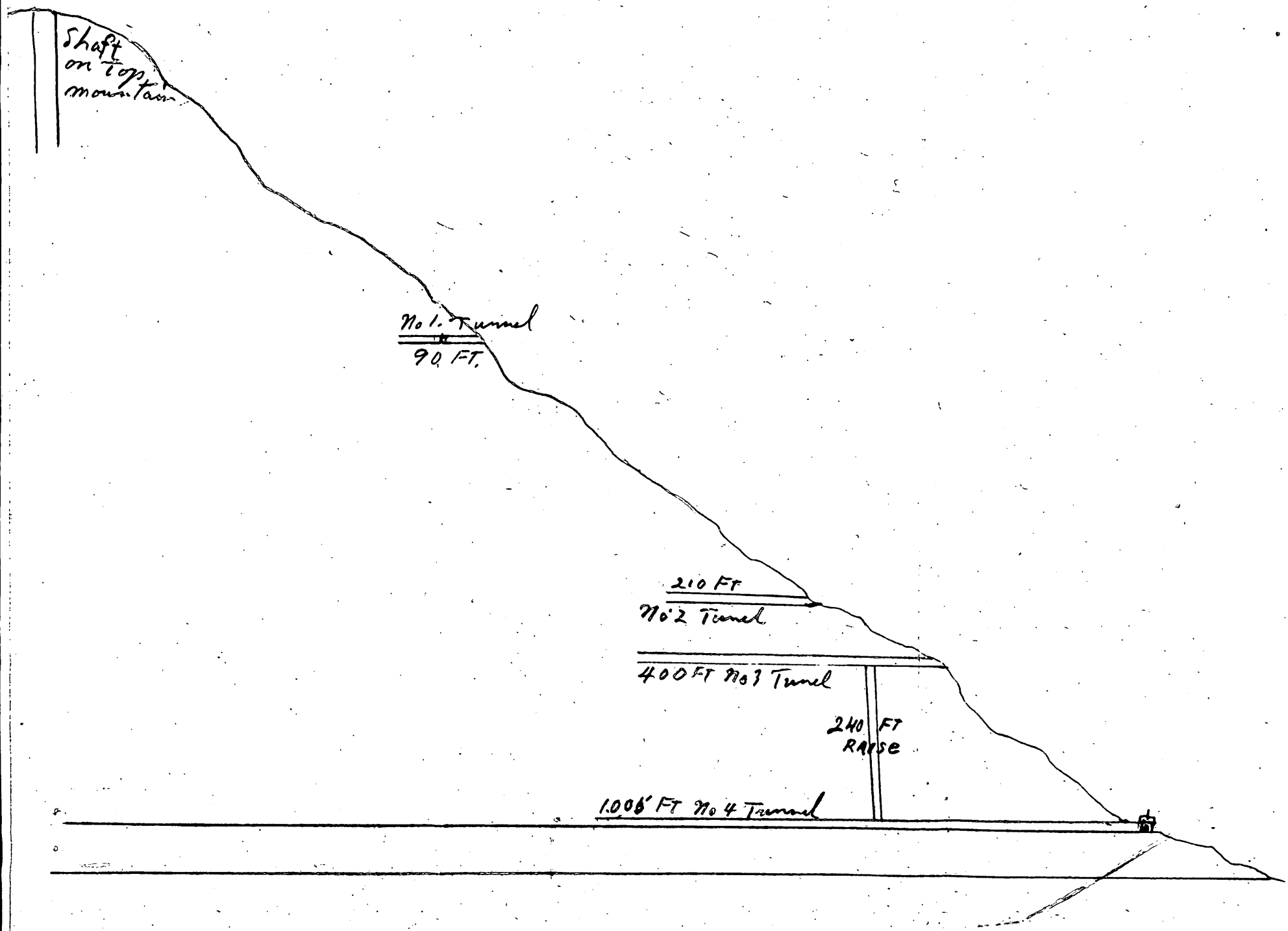
Shipping a Graphite -Carbon Concentrate containing Gold,Silver & Bismuth.

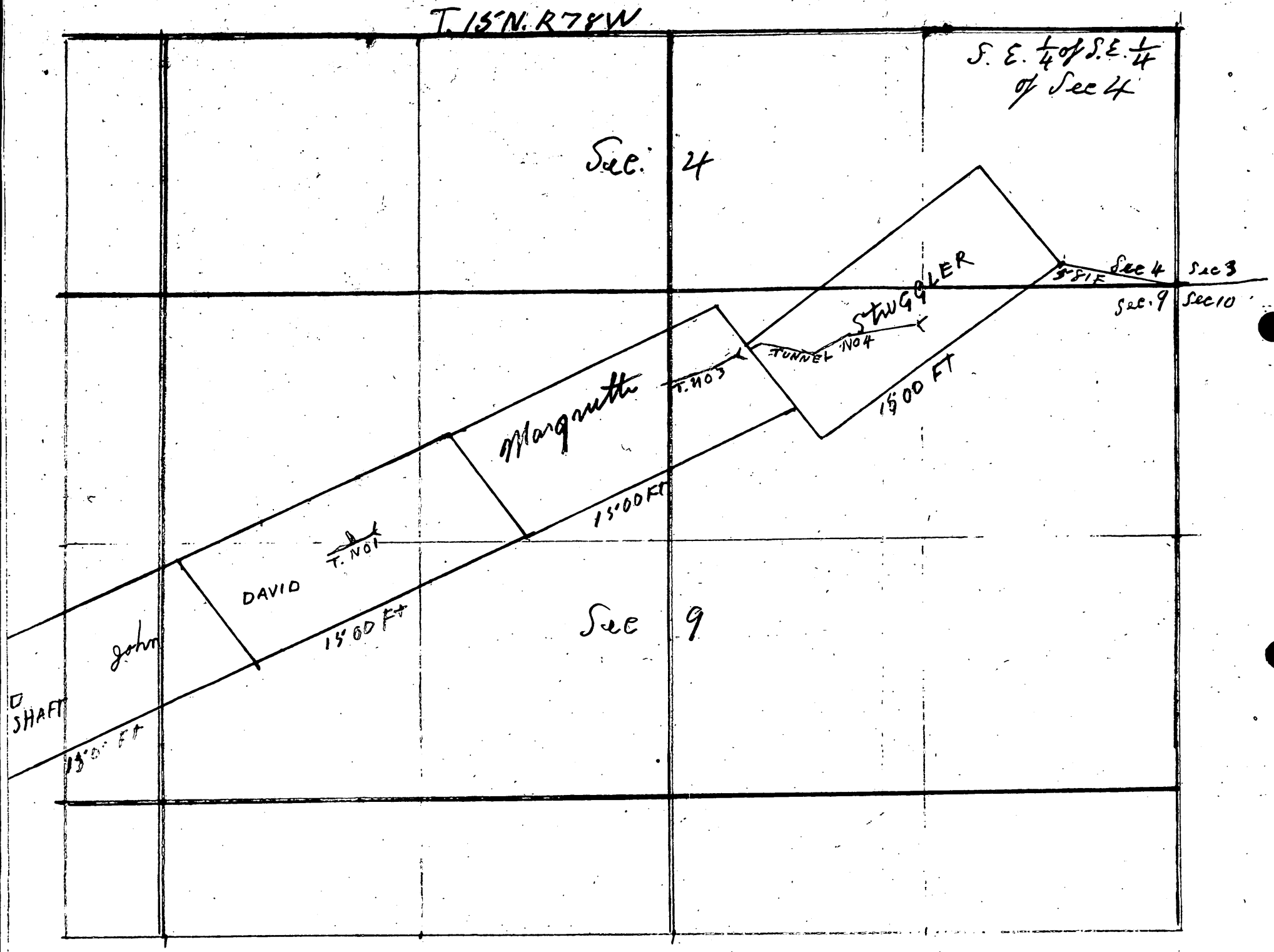
There has be a much money spent on this property where the management was ill advised. and there is much more to be spent to put this property on a paying basis,with a process to separate and concentrate the value so that they can be shipped to market at a profit.
The first thing to be done is to open up and retimber the entrance to the three tunnels No.4 - 3 & 2. Then clean out the raises from No.4 to No.3. Then from No.3 to 2 and 2 to 1 and a survey and all ores sampled. If enough ore can be found to justify further development. work should be done on the Chapman process.
From what I have seen I think thate profitable project can be made of the Utapia Mine of Centenial Wyoming.

Respectfully,Submitted

Alf Ellam

Mines Service Engineers.


Shaft on top mountain
No 1. Tunnel
90 FT.
210 FT
No 2 Tunel
400 FT No 3 Tunel
240 FT RAISE
1.006 FT No 4 Tunnel


T. 15 N. R 78 W
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Sec. 4
Sec 4
Sec 3
Sec. 9
Sec 10
S. 81 E
Smuggler
TUNNEL NO 4
T. NO 3
Marquette
1500 FT
1500 FT
T. NO 1
DAVID
1500 FT
Sec 9
John
SHAFT
1500 FT

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 1 1951
LANDON F. STROBEL
Executive Secretary

May 28, 1951

Mr. P. K. Dunn
1850 Lawrence
Denver 2, Colorado

Subject: DMA-1253X
Re: Exploration Loan

My dear Mr. Dunn:

Receipt is acknowledged of your application and attachments of May 14, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1253X and was referred to Mr. P. R. Bradley, Chief, Manganese Branch on May 25, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1253X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:jhs
cc: Strobel-2
Files
Bradley
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 1253X

Date received 5/21/51

Participation

P. E. Dunn
1450 Lawrence
Denver 2, Colorado

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application May 7, 1951

Estimated cost $3000

Mineral or metal Manganese, Bismuth, Cobalt and Graphite

Percentage of Government participation

Location of mine Albany County, Wyoming

Sects. 4 and 9, T. 15N, Range 78W

Date of filing MF-100

DMA Docket Number, if available DMA 1253X

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*2. If a partnership, state names and addresses of partners.

*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? Owner

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.

(Name of company)	By R E Dunn (Signature of authorized official)
(Date)	(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

May 14, 1951

United States Department of the Interior
Bureau of Mines
Office of Regional Director
224 New Customhouse
Denver 2, Colorado

Gentlemen:

(4) I have had twenty or more years mining experience but intend to hire a manager to run the project if I can get started.

(8) I have no liabilities except an invalid wife; perhaps $500 in the bank. I am working in a war plant - Coleman Motors in Littleton, Colorado.

(9) Expect to work out my share of loan. I am only asking for enough money to open up portals of two tunnels so government crews can get in to sample the vein.

(10) - a. I have about 80 acres, on the southeast side of the mountain, mostly patented. Mill, some machinery and 75 horsepower boiler. 10 Cabins, about 2500' of development work in mine, two tunnels and raise 240' connecting tunnels. The mine was operated for gold until 1937

(10) - b. Albany County, Wyoming - Sects. 4 and 9, Township 15N, Range 78W.

(11) Utopia Mining and Milling Company

(12) Mine is one mile from Centenial, Wyoming on oiled road, thirty miles due west of Laramie, Wyoming. Railroad runs through Centenial.

(13) Stream of water year round on each side of mountain.

(14) May be able to repair cabins and mill so we could use. No timber; no caves in mine.

(15) Could ship ore from Centenial to American Smelter in Ogden, Utah.

(16) - a. History of property -- Has been operated at different periods since 1890 for gold only couldn't save the values on account of graphite in ore , Mr. Alf Tellum tells me. Mr. Alf Tellum (deceased) examined

the property six years ago and gave me report on gold and bismuth. Am sending you copy of report and plat. Please return.

(16) - b. There are several other mines in this district but I have no information on any of them.

(16) - c. I had a qualitative analysis of ore made several years ago ~~but have lost the report~~ but it showed the minerals I have outlined on Form MF-103 per manganese, bismuth, cobalt and ~~graphite~~. Can mail copy

(17) Mine has not been in production since 1937.

(21) Portals are caved on two tunnels. Will take 3 to 4 weeks to clear and timber each.

(23) I will need two miners to help me do the work at $10 or $11 per day each. I will have to house and feed them. I will have to do this work before government engineers can get in to examine property. The vein runs from my side of the mountain to opposite side about 4 miles and runs from 40" to 11' wide.

Sincerely yours,

P. E. Dunn

P. E. Dunn

COPY

Assays
Analysis
Metallurgical
Problems

HAVEN & SON
Assayers - Chemists

4330 West 34th
Denver, Colorado

Management
Financing Methods
Reports
Examinations

QUALITATIVE ANALYSIS

Substance - Ore

	Aluminum	1.32%
	Bismuth	1.06%
	Calcium Oxide	3.87%
	Chlorine	0.11%
	Cobalt	0.42%
	Copper	0.54%
	Iron	7.70%
	Magnesia	2.63%
	Manganese	2.85%
	Nickel	0.50%
	Potassium	0.82%
	Sulfur	2.56%
	Sodium	1.04%
	Silica	67.61%
	Moisture	0.80%
Combined	Water	4.40%
	Carbon Dioxide	1.79%

Gold	0.20 Oz.	Value $7.00
Silver	1.70 Oz.	Value $1.21
Platinum	0.11 Oz.	Value $1.88

C. J. Haven
Chemist

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	Sodium	1.04%
	Silica	67.61%
	Moisture	0.80%
Combined	Water	4.40%
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Gold	0.20 Oz.	Value $7.00
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C. J. Haven
Chemist

EXAMINATIONS
ORE TESTING
MILL DESIGN
AND CONSTRUCTION
MILL OPERATION

MINES SERVICE ENGINEERS

2801 FIFTEENTH STREET
DENVER, COLORADO
GLENDALE 2768

MINE REPORTS
METALLURGICAL REPORTS
MILL FLOW SHEETS
CHEMICAL ANALYSIS
METALLURGICAL ANALYSIS

June 22nd 1944

Order No.[illegible]

Mrs. [illegible] Dunn,
Apartment No.3
1429 Lawrence,
Denver, 2
Colorado.

Results of Sampling and Checking Reports on Utopia Tunnels of the Utopia Mining and Milling Co.
Sampled May 25th 26th and 27th 1929 by A.C. Dart, Mining Engineer, Laramie, Wyoming.

Resampled by Alfred Tellam, June 15th 1944

The purpose of this examination and sampling was to check the gold & silver and to determine the possible value in Bismuth.

By personally going over the property on foot checking Mr. Darts report and taking samples from approximately the same places where he showed ore in his report to be in place I feel that his report is very conservitive and the tonnage given (8000 tons) between tunnels No.2 and 4 is on the low side. Judging from the ore showing in the face of tunnel No.3 it would be safe to figure that another (8000tons) has been developed since the date of Darts report.

Samples and Assays made by Tellam 6/20/44

Sample No.1— Face Tunnel No.3 including 4 inches Sulphide streak on foot wall — 36 inches center made up of mostly schist and 6 inch streak on hanging wall. This shows a very strong vein and probably will continue up to tunnel No.2 (240ft)

Gold	0.30 ounces	@ $35.00		$ 10.50 per ton
Silver	1.70 "	@ .70		.84 " "
Bismuth	0.20 % or 4 lbs	@ $1.25		5.00 " "
Gross Value				$ 16.34 " "

Sample No.2 4 inch streak on foot wall

Gold	1.36 ounces	$35.00	$ 47.60 per ton
Silver	2.60 "	.70	1.82 " "
Bismuth	2.10 % or 42 lbs	@ 1.25	52.50 " "
Gross Value			$ 101.92

Sample No.3 Taken from 6" streak on hanging wall side of vein in tunnel face No.3

Gold	0.76 ounces	@35.00	$ 26.10 per ton
Silver	1.10 "	@ .70	.77 " "
Bismuth	0.60 % or 12 lbs	@ 1.25	15.00 " "
Gross Value			$ 41.87 " "

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The Above 3 samples compare well with Mr.Darts sampling and assaying at about this point in tunnel No.3.

Sample No.4 Taken from back of tunnel No.3 about 25 feet from the inside point in the stop across 24" of vein matter.

Gold -------	0.12 ounces @ $35.00	$ 4.20 per ton
Silver ------	0.50 " @ .70	.35 " "
Bismuth -----	0.55 % or 11lbs @ 1.25	13.75 " "
Gross Value		$ 18.30 " "

This Sample shows that the ore in the stope continues for at least 50ft beyond its present workings and on to the breast. There was no way of checking the exact location of Mr.Darts sample,but all his samples were taken along this level in tunnel No.3 of which my sampling check within reason.

Sample No.5 This sample was taken from the east end of Stope under track in tunnel No.3 about 20ft down near Raise between No.3 and 4 tunnels. The sample represents a face of about 36 inches. This can be easily mined and dropped down Raise to tunnel No.4

Gold -------	0.54 ounces @ $35.00	$ 18.90 per ton
Silver ------	0.85 " @ .70	.60 " "
Bismuth -----	0.22 % or 4.4lbs @ 1.25	5.50
Gross Value		$ 25.00 " "

Sample No.6 Sample taken from west end of stope in tunnel No.3 showing 24 inches of Sulphides mixed with graphite in schist (this seems to be the class of ore treated in the Utopia Mill. This plant was a failure because the gold cyanide solutions were precipituted back into the carbon or graphite as soon as it was formed. No recovery could be expected. The carbon dropped the gold before it could get to the zinc boxes)

Gold -------	0.80 ounces @ $35.00	$ 28.00 per ton
Silver ------	0.95 " @ .70	.66 " "
Bismuth -----	0.92 % 18.4 lbs @ 1.25	23.00 " "
Gross Value		$ 51.66 " "

Sample No.7 Sample taken at mouth of short cross cut towards the north where the stope ends in a good strong vein. Alarge sample of this ore was broken down on canvas and all sacked and taken to sampling works. (this ore is near the ore chute connecting with tunnel No.4 through the raise.)

Gold -------	0.98 ounces @ $35.00	$ 34.30 per ton
Silver ------	1.42 " @ .70	1.00 " "
Bismuth -----	0.70 % or 14lbs @ 1.25	17.50 " "
Gross Value		$ 52.80 " "

From 1000 to 2000 tons of ore can be extracted from above and below tunnel No.3 through the raise connecting tunnel 3 & 4. This ore will average about $ 40.00 per ton Gross Value.

Owing to the presents of graphite there is no use in trying to mill this ore. This ore must be smelted in order to recover the Gold & Silver.

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June 22nd 1944

The Bismuth is so low grade that it will have to be recovered from the stack fumes mostly and in a base Lead Bullion.
We were not able to get into tunnel No.4 or No.2 on account of cave in that blocked off our entrance . We spent two days draining tunnel No.3 before sampling. This t tunnel is in good condition and has a good air circulation down through the raise that came up from No.4 tunnel. We went down this raise and took sample No.5 which shows about 36 inches on a face to the east for about 20 feet. This body of ore extends up through tunnel level No.3 and has been stoped out for about 40 ft.high. There is ore exposed on all sides of this stope that could be considered as smelting ore,very little sorting would be necessary to recover an ore of about $40.00 gross value per ton, it is impossible to estimate the tonnage that could be extracted here,but there is room for say 1000 tons. Then in the face there is a good showing of ore that would run $16.00 This can be followed from the stope opened for 100ft,back.
I can see no reason why this ore would not continue along the same strike as shown in the outer workings. It is in the same formation.
There is not enough development done on the ore to determine the actual tonnage,but from all indications there should be a good tonnage of probable ore above the flat fault mentioned by Mr.Dart between tunnels No.4 & No.3 also on to above tunnel No.1.
Tunnel No.2 was so badly caved that we could not get in for inspection and sampling. We went up to tunnel No.1 and found it open. This tunnel was driven 20ft south, but after driving 50ft a crosscut was run 70ft which contracted the main vein. At this point a winze was put down to tunnel No.2, The timbers were in bad shape and we did not go down to take samples. We sampled the vein in the cross cut which gave the assays.

Sample No.8 30 inch cross vein

Gold	0.14 ounces @ $35.00		$ 4.90 per ton
Silver	0.40 " @ .70		.28 " "
Bismuth	0.36 % or 5.2 lbs @ 1.25		6.50 " "
Gross value			$ 11.68 " "

Then we climbed to the top of the mountain along the strike of the vein to a shaft which had been put down by old timers . Here the vein shows up in many places .

Sample No.9 Taken from pile of ore extracted from shaft assayed

Gold	.18 ounces @ $35.00	$ 6.30 per ton
Silver	Trace	
Bismuth	None	

This is a white quartz oxidized and the gold content is free and will amalgamate. 95 %.

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June 22nd 1944

Conclusion:-

Owing to the fact that we could not get into the mine I was not able to study the faulting system,so I am attaching Mr.A.C.Darts report on this subject.
From the sampling and assaying done by me I feel that Mr.Dart report can be relyed on as being correct,and reliable.
I am very sorry that we could not get into sample No.3 & 4 tunnels,but from my work in tunnel No.3 I feel that the figures by Mr.Dart can be taken as facts up to the date of his report June 15th 1929

From June 15th 1929 up tp the present time there has been much work done on the property and a good deal of ore has been developed that can be considered as actual Ore, probable ore and possible Ore.

There has been a Mill on the property and was used for experimental purposes because all the processes were failures.

The Cyanide process was a failure,because the graphite destroyed all action of the Cyanide.

The gravity concentration was a failure,because a large part of the values are in the graphite and clays which were lost in the slimes..

The amalgamation,process failed,because owing to the graphitic condition and oily reaction the gold would not amalgamate with the mercury. Then the graphite its self carries gold and must be oxidized before a separation can be effected.
Before any metallurgical process is installed experimental work should be carried out on the Chapman Process. which is a combination of Cyanide and Flotation.

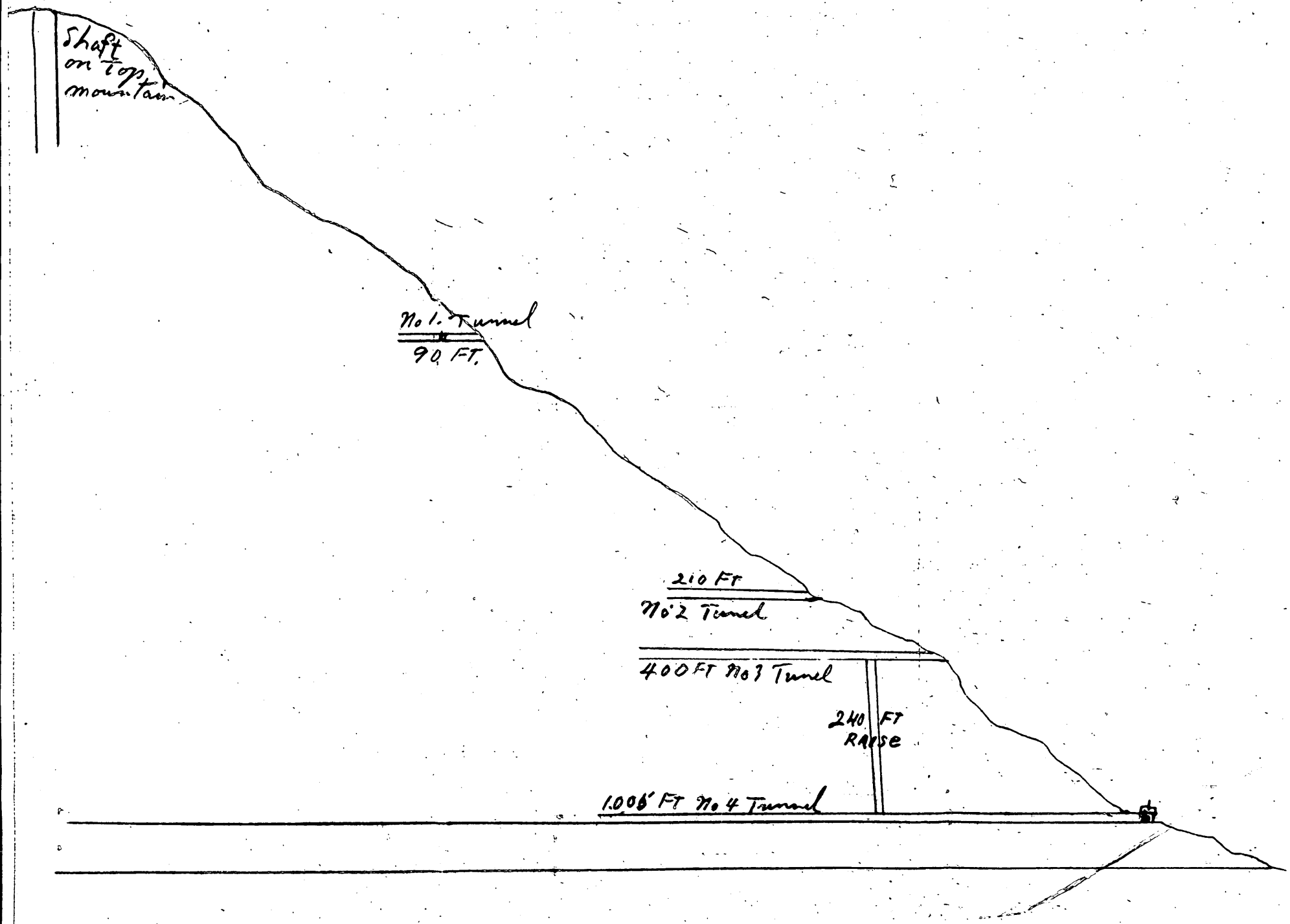
The ore is digested in cyanide solution then precipitated with Carbon, Transfering all the gold in the ore into the prophite or carbon. Then floating out the carbon containing all the gold along with the Bismuth.

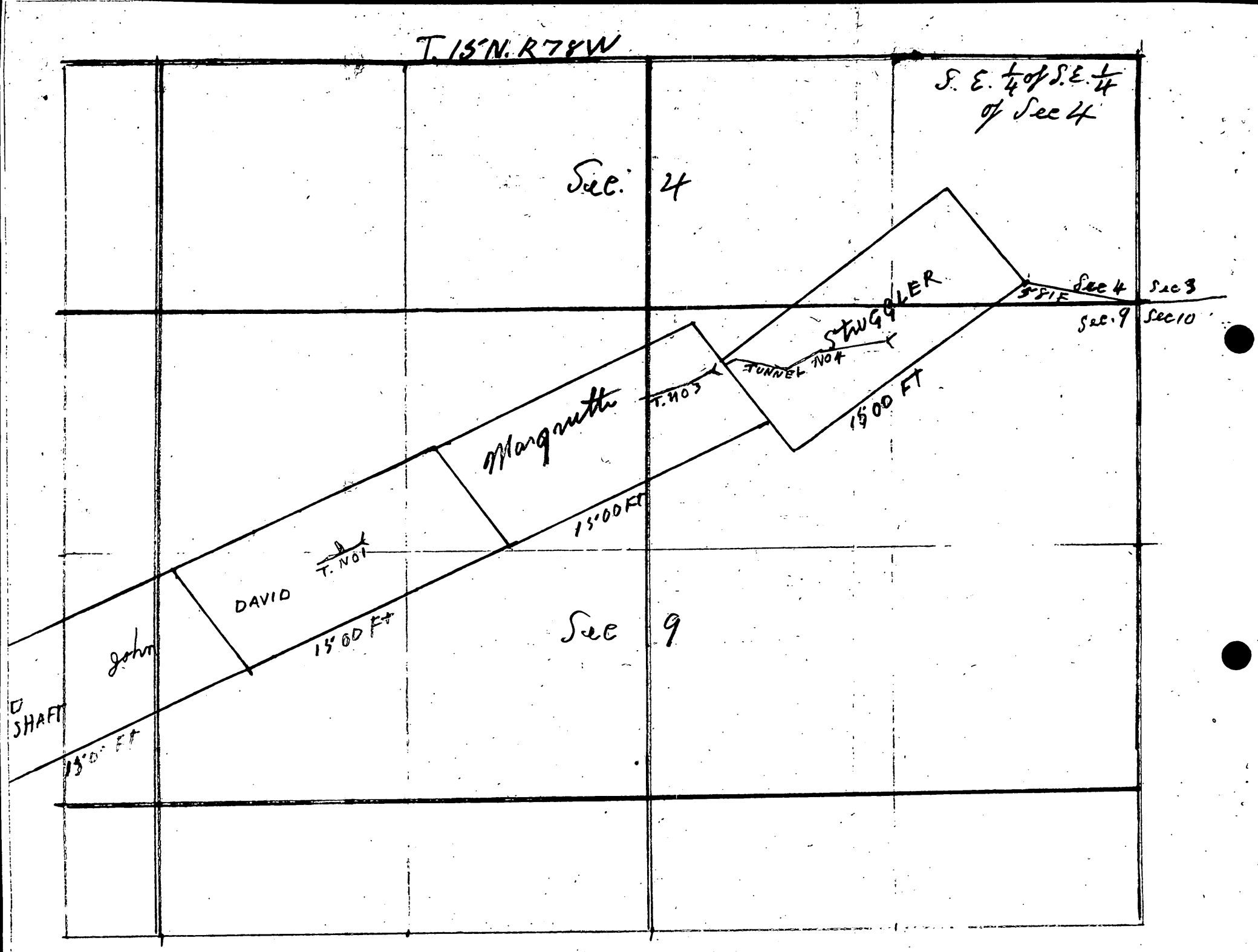
Shipping a Graphite -Carbon Concentrate containing Gold,Silver & Bismuth.

There has be a much money spent on this property where the management was ill advised, and there is much more to be spent to put this property on a paying basis,with a process to separate and concentrate the value so that they can be shipped to market at a profit.
The first thing to be done is to open up and retimber the entrance to the three tunnels No.4 - 3 & 2. Then clean out the raises from No.4 to No.3. Then from No.3 to 2 and 2 to 1 and a survey and all ores sampled. If enough ore can be found to justify further development. work should be done on the Chapman process.
From what I have seen I think thats profitable project can be made of the Utopia Mine of Centenial Wyoming.

Respectfully,Submitted

Mines Service Engineers.


Shaft on top mountain
No 1. Tunnel
90 FT.
210 FT
No 2 Tunel
400 FT No 3 Tunel
240 FT RAISE
1,006 FT No 4 Tunnel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Sec 4
Sec 3
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Sec. 9
Sec 10
Smuggler
TUNNEL NO 4
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Marquette
T. NO 3
1500 FT
DAVID
T. NO 1
1500 FT
John
SHAFT
1500 FT
Sec 9

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 1 1951
LANDON F. STROBEL
Executive Secretary

dma 1253X

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OFFICE OF
REGIONAL DIRECTOR

REGION IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

May 16, 1951

Memorandum

To: Landon Strobel, Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Application of P. E. Dunn, 1450 Lawrence, Denver 2, Colorado

We are enclosing three copies of application form MF-103 submitted by the above applicant.

P. T. Allsman, Alternate

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 1 1951
LANDON F. STROBEL
Executive Secretary

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 12538

Date received 5/21/51

Participation

P. E. Dunn
1450 Lawrence
Denver 2, Colorado

Name and address of applicant

Date

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Date of application May 7, 1951

Estimated cost $3,000.00

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Sects. 4 and 9, T. 15N, Range 78W

Date of filing MF-100

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(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.

(Name of company)	By P. E. Drum (Signature of authorized official)
(Date)	(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

May 14, 1951

United States Department of the Interior
Bureau of Mines
Office of Regional Director
224 New Customhouse
Denver 2, Colorado

Gentlemen:

(4) I have had twenty or more years mining experience but intend to hire a manager to run the project if I can get started.

(8) I have no liabilities except an invalid wife; perhaps $500 in the bank. I am working in a war plant - Coleman Motors in Littleton, Colorado.

(9) Expect to work out my share of loan. I am only asking for enough money to open up portals of two tunnels so government crews can get in to sample the vein.

(10) - a. I have about 80 acres, on the southeast side of the mountain, mostly patented. Mill, some machinery and 75 horsepower boiler. 10 Cabins, about 2500' of development work in mine, two tunnels and raise 240' connecting tunnels. The mine was operated for gold until 1937

(10) - b. Albany County, Wyoming - Sects. 4 and 9, Township 15N, Range 78W.

(11) Utopia Mining and Milling Company

(12) Mine is one mile from Centenial, Wyoming on oiled road, thirty miles due west of Laramie, Wyoming. Railroad runs through Centenial.

(13) Stream of water year round on each side of mountain.

(14) May be able to repair cabins and mill so we could use. No timber; no caves in mine.

(15) Could ship ore from Centenial to American Smelter in Ogden, Utah.

(16) - a. History of property -- Has been operated at different periods since 1890 for gold only couldn't save the values on account of graphite in ore , Mr. Alf Tellum tells me. Mr. Alf Tellum (deceased) examined

the property six years ago and gave me report on gold and bismuth. Am sending you copy of report and plat. Please return.

(16) - b. There are several other mines in this district but I have no information on any of them.

(16) - c. I had a qualitative analysis of ore made several years ago ~~but have lost the report~~ but it showed the minerals I have outlined on Form MF-103 per manganese, bismuth, cobalt and ~~graphite~~. Am sending copy

(17) Mine has not been in production since 1937.

(21) Portals are caved on two tunnels. Will take 3 to 4 weeks to clear and timber each.

(23) I will need two miners to help me do the work at $10 or $11 per day each. I will have to house and feed them. I will have to do this work before government engineers can get in to examine property. The vein runs from my side of the mountain to opposite side about 4 miles and runs from 40" to 11' wide.

Sincerely yours,

P.E. Dunn

P. E. Dunn

COPY

Assays
Analysis
Metallurgical
Problems

HAVEN & SON
Assayers - Chemists

4330 West 34th
Denver, Colorado

Management
Financing Methods
Reports
Examinations

QUALITATIVE ANALYSIS

	Substance - Ore	
	Aluminum	1.32%
	Bismuth	1.06%
	Calcium Oxide	3.87%
	Chlorine	0.11%
	Cobalt	2.42%
	Copper	0.54%
	Iron	7.70%
	Magnesia	2.63%
	Manganese	2.85%
	Nickel	0.50%
	Potassium	0.82%
	Sulfur	2.56%
	Sodium	1.04%
	Silica	67.61%
	Moisture	0.80%
Combined	Water	4.40%
	Carbon Dioxide	1.79%

Gold	0.20 Oz.	Value $7.00
Silver	1.70 Oz,	Value $1.21
Platinum	0.11 Oz.	Value $1.88

C. J. Haven
Chemist

EXAMINATIONS
ORE TESTING
MILL DESIGN
AND CONSTRUCTION
MILL OPERATION

MINES SERVICE ENGINEERS

2301 FIFTEENTH STREET
DENVER, COLORADO
GLENDALE 2768

MINE REPORTS
METALLURGICAL REPORTS
MILL FLOW SHEETS
CHEMICAL ANALYSIS
METALLURGICAL ANALYSIS

June 2:nd I944

Order No.5068

Mrs. ".H.Dunn,
Apartment No.3
I450 Lawerance,
Denver, 2
Colorado.

Results of Sampling and Checking Reports on Utopia Tunnels of the Utopia Mining and Milling Co.
Sampled May 25th 26th and 27th I929 by A.C. Dart, Mining Engineer, L r mie, Wyoming.

Resampled by Alfred Tellam, June I3th I944

The purpose of this examination and sampling was to check the gold & silver and to determine the possible value in Bismuth.

By personally going over the property on foot checking Mr.Darts report and taking samples from approximately the same places where he showed ore in his report to be in place I feel that his report is very conservitive and the tonnage given(8000 tons) between tunnels No.[illegible] and 4 is on the low side. Judging from the ore showing in the face of tunnel No.3 it would be safe to figure that another (1000tons) has been developed since the date of Darts report.

Samples and assays made by Tellam 6/20/44

Sample No.I-- Face tunnel No.3 including 4 inches sulphide streak on foot wall -- 36 inches center made up of mostly schist and 6 inch streak on hanging wall. This shows a very strong vein and probably will continue up to tunnel No.[illegible] (240ft)

Gold	0.30 ounces	$35.00		$ I0.50 per ton
Silver	I.70 "	.70		.64 " "
Bismuth	0.20 % or 4 lbs	I.25		5.00 " "
Gross Value				$ I6.34 " "

Sample No.2 4 inch streak on foot wall

Gold	I.36 ounces	$35.00	$47.60 per ton
Silver	2.60 "	.70	I.82 " "
Bismuth	2.10 % or 4 lbs	I.25	52.50 " "
Gross Value			$ I0I.92

Sample No.3 Taken from 6" streak on hanging wall side of vein in tunnel Face No.3

Gold	0.76 ounces	$35.00	$26.10 per ton
Silver	I.I0 "	.70	.77 " "
Bismuth	0.60 % or I2 lbs	I.25	I5.00 " "
Gross Value			$ 4I.87 " "

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The Above 3 samples compare well with Mr.Darts sampling and assaying at about this point in tunnel No.3.

Sample No.4 Taken from back of tunnel No.3 about 25 feet from the inside point in the stop across 24" of vein matter.

Gold -------	0.12 ounces	$35.00	$ 4.20 per ton
Silver -----	0.50 "	.70	.35 " "
Bismuth ***	0.55 % or 11lbs	1.25	13.75 " "
Gross Value			$ 18.30 " "

This Sample shows that the ore in the stope continues for at least 50ft beyond its present workings and on to the breast. There was no way of checking the exact location of Mr.Darts sample,but all his samples were taken along this level in tunnel No.3 of which my sampling check within reason.

Sample No.5 This sample was taken from the east end of Stope under track in tunnel No.3 about 20ft down near Raise between No.3 and 4 tunnels. The sample represents a face of about 36 inches. This can be easily mined and dropped down Raise to tunnel No.4

Gold ------	0.54 ounces	@ $35.00	$ 18.90 per ton
Silver -----	0.85 "	.70	.60 " "
Bismuth -----	0.22 % or 4.4lbs	1.25	5.50
Gross Value			$ 25.00 " "

Sample No.6 Sample taken from west end of stope in tunnel No.3 showing 24 inches of Sulphides mixed with graphite in schist (this seems to be the class of ore treated in the Utopia Mill. This plant was a failure because the gold cyanide solutions were precipituted back into the carbon or graphite as soon as it was formed. No recovery could be expected. The carbon dropped the gold before it could get to the zinc boxes)

Gold -------	0.80 ounces	@ $35.00	$ 28.00 per ton
Silver ------	0.95 "	.70	.66 " "
Bismuth ------	0.92 % 18.4 lbs	1.25	23.00 " "
Gross Value			$ 51.66 " "

Sample No.7 Sample taken at mouth of short cross cut towards the north where the stope ends in a good strong vein. Alarge sample of this ore was broken down on canvas and all sacked and taken to sampling works. (this ore is near the ore chute connecting with tunnel No.4 through the raise.)

Gold -------	0.98 ounces	$35.00	$ 34.30 per ton
Silver ------	1.4[illegible] "	.70	1.00 " "
Bismuth -----	0.70 % or 14lbs	1.25	17.50 " "
Gross Value			$ 52.80 " "

From 1000 to 2000 tons of ore can be extracted from above and below tunnel No.3 through the raise connecting tunnel 3 & 4. This ore will average about $ 40.00 per ton Gross Value.

Owing to the presents of graphite there is no use in trying to mill this ore. This ore must be smelted in order to recover the Gold & Silver.

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June 22nd 1944

The Bismuth is so low grade that it will have to be recovered from the stack fumes mostly and in a base Lead Bullion.
We were not able to get into tunnel No.4 or No.2 on account of cave in that blocked off our entrance . We spent two days draining tunnel No.3 before sampling. This tunnel is in good condition and has a good air circulation down through the raise that came up from No.4 tunnel. We went down this raise and took sample No.5 which shows about 36 inches on a face to the east for about 20 feet. This body of ore extends up through tunnel level No.3 and has been stoped out for about 40 ft.high. There is ore exposed on all sides of this stope that could be considered as smelting ore,very little sorting would be necessary to recover an ore of about $40.00 gross value per ton, it is impossible to estimate the tonnage that could be extracted here,but there is room for say 1000 tons. Then in the face there is a good showing of ore that would run $16.00 This can be followed from the stope opened for 100ft,back.
I can see no reason why this ore would not continue along the same strike as shown in the outer workings. It is in the same formation.
There is not enough development done on the ore to determine the actual tonnage,but from all indications there should be a good tonnage of probable ore above the flat fault mentioned by Mr.Dart between tunnels No.4 & No.3 also on to above tunnel No.1.
Tunnel No.2 was so badly caved that we could not get in for inspection and sampling. We went up to tunnel No.1 and found it open. This tunnel was driven 20ft south, but after driving 50ft a crosscut was run 60ft which contracted the main vein. At this point a winze was put down to tunnel No.2, The timbers were in bad shape and we did not go down to take samples. We sampled the vein in the cross cut which gave the assays.

Sample No.8 30 inch cross vein

Gold -------	0.14 ounces	$35.00		$ 4.90 per ton
Silver -------	0.03 "	.70		.26 " "
Bismuth ------	0.36 % or 5.4 lbs	1.25		6.50 " "
Gross value				$ 11.66 " "

Then we climbed to the top of the mountain along the strike of the vein to a shaft which had been put down by old timers . Here the vein shows up in many places .

Sample No.9 Taken from pile of ore extracted from shaft assayed

Gold -------	.18 ounces	$35.00	$ 6.30 per ton
Silver ------	trace		
Bismuth -----	None		

This is a white quartz oxidized and the gold content is free and will amalgamate. 95 %.

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June 22nd 1944

Conclusion:-

Owing to the fact that we could not get into the mine I was not able to study the faulting system,so I am attaching Mr.A.C.Dart's report on this subject.
From the sampling and assaying done by me I feel that Mr.Dart report can be relyed on as being correct,and reliable.
I am very sorry that we could not get into sample No. & 4 tunnels,but from my work in tunnel No.3 I feel that the figures by Mr.Dart can be taken as facts up to the date of his report June 15th 1929

From June 15th 1929 up to the present time there has been much work done on the property and a good deal of ore has been developed that can be considered as Actual Ore, probable ore and possible ore.

There has been a Mill on the property and was used for experimental purposes because all the processes were failures.

The Cyanide process was a failure,because the graphite destroyed all action of the Cyanide.

The gravity concentration was a failure,because a large part of the values are in the graphite and clays which were lost in the slimes..

The amalgamation,process failed,because owing to the graphitic condition and oily reaction the gold would not amalgamate with the mercury. Then the graphite its self carries gold and must be oxidized before a separation can be effected.
Before any metallurgical process is installed experimental work should be carried out on the Chapman Process. which is a combination of Cyanide and Flotation.

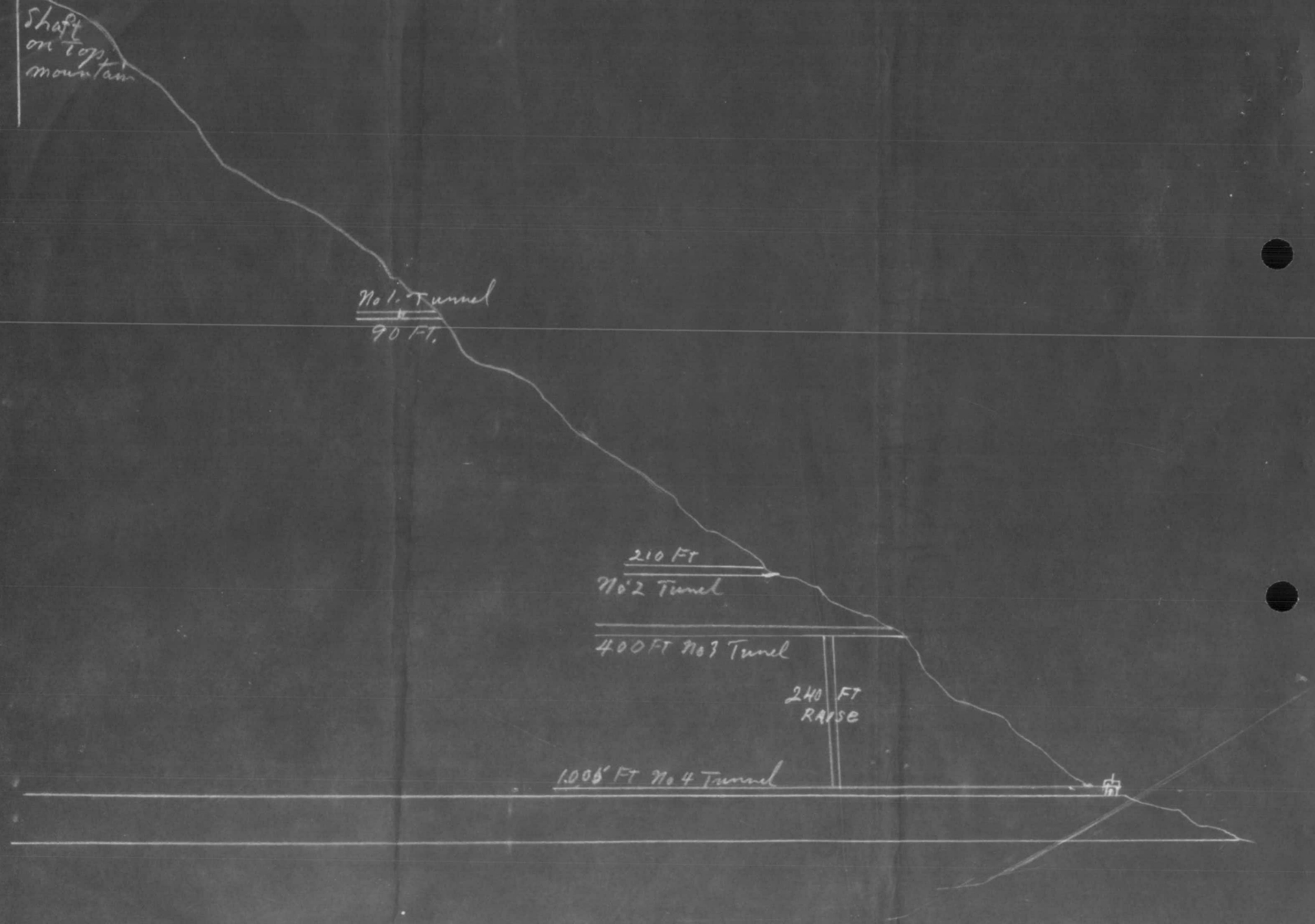
The ore is digested in cyanide solution then precipitated with Carbon, Transfering all the gold in the ore into the prophite or carbon. Then floating out the carbon containing all the gold along with the Bismuth.

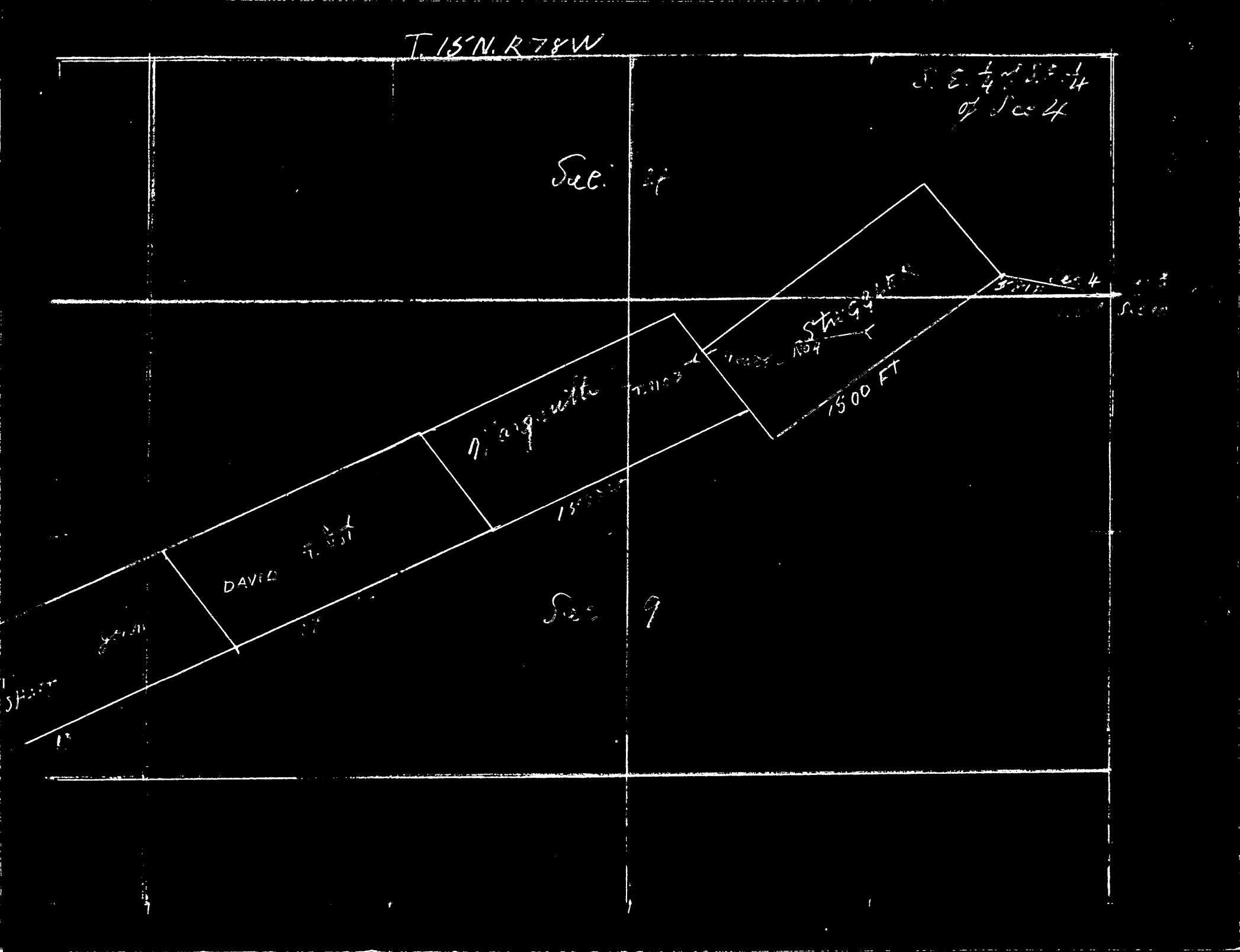
Shipping a Graphite -Carbon Concentrate containing Gold,Silver & Bismuth.

There has be n much money spent on this property where the management was ill advised. and there is much more to be spent to put this property on a paying basis,with a process to separate and concentrate the value so that they can be shipped to market at a profit.
The first thing to be done is to open up and retimber the enterance to the three tunnels No.4 - 3 & 2. Then clean out the raises from No.4 to No.3. Then from No.3 to 2 and 2 to 1 and a survey and all ores sampled. If enough ore can be found to justify further development. work should be done on the Chapman process.
From what I have seen I think thata profitable project can be made of the Utapis Mine of Centenial Wyoming.

Respectfully,Submitted

Mines Service Engineers.


Shaft on top mountain
No 1. Tunnel
90 FT.
210 FT
No 2 Tunnel
400 FT No 3 Tunnel
240 FT RAISE
1.005 FT No 4 Tunnel


T. 15 N. R 78 W
S. E. 1/4 of S. E. 1/4 of Sec 4
Sec. 4
Sec. 9
DAVID
1500 FT

dmu 12531

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 21 1951
LANDON F. STROBEL
Executive Secretary

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-1253 X

Commodity Mn ~~Dx~~ Co

Total Amount 3,000.

Govt. Participation 2250

1. Name and Address of Applicant - P E Durin, 1450 Lawrence, Denver 2, Colo

2. Location of Property Sec 4 & 9, T 5 N, R 78 W, Albany County Wyoming

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

If not, application will be rejected.

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

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

a) Good

b) Poor X

c) None X

d) Don't know -- needs field examination Based on assays submitted.

e) Is there an alternative and favorable project? (If so, attach an explanation)

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

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

Does the lease have sufficient time to run to cover a future productive period?

*Question numbers are those of MF-103

7. Are subordination agreements necessary? _____

a) MF-201? _____

b) MF-202 _____

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

a) Available manpower _____

b) Equipment and supplies _____
(question 14 plus general knowledge of availability)

c) Accessibility (question 12) _____

d) Water (question 13) _____

e) Power (question 13) _____

Is a field check needed on any of these points? _____

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

_____

Is a field check needed on this point? _____

10. Exhibit A. (questions 21 and 22)

a) Is the project adequately described? _____

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

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

_____

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

If not, what part of it is? _____

_____

_____

_____

Is this part a worthwhile exploration project? _____

d) Are the cost estimates detailed? _____

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

e) Are the cost estimates reasonable? _____

f) Should more information be requested from applicant? _____

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

11. Exhibit B (question 23-d)

a) Is it applicable? _____

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

c) Is a field check needed? _____

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

a) Is it applicable? _____

b) Sufficient data? _____ If so, attach a draft.

c) Are rents and charges reasonable? _____

d) Is a field check needed? _____

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

a) Are there sufficient data? _____

b) Is the schedule adequate for the work proposed? _____

c) Is the schedule excessive for the work proposed? _____

d) Are the proposed wages and salaries reasonable? _____

e) Is a field check needed? _____

14. Exhibit E (question 23-c)

a) Is it applicable? _____

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? _____

15. In your judgment, can the proposed work be done in the proposed time? _____

(All exploration must be completed within two years.)

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

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

Reviewed by: M. D. Gettender

Date June 7, 1951

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. George Holderer **DATE:** June 19, 1951

FROM : M. D. Crittenden

SUBJECT: DMA 1253x

The following are suggested drafts of a letter to P. E. Dunn and a memo for Strobel dealing with subject docket.

Mr. P. E. Dunn
1450 Lawrence
Denver 2, Colorado

Denied

In reply please refer to
DMA 1253 X Manganese

Dear Mr. Dunn:

Your request for an exploration project costing $3,000.00 for bismuth, manganese and cobalt in Albany County has been reviewed by the commodity specialists dealing with those minerals.

The information you have supplied is not sufficient to be conclusive. However, the assays submitted indicate that the property has no value for either bismuth or manganese. The situation regarding cobalt is not so discouraging, However, it is not possible to approve the project proposed on the basis of the one assay available. This is particularly true in the case of complex ores of this sort in which recovery of the cobalt is likely to present a serious problem. If you are able to submit additional information concerning the average width of veins and the cobalt content, it may be possible to reconsider your application. Also it would be desirable for you to obtain a statement from a potential cobalt treatment plant, such as that planned by Calera Mining Co. at Garfield, Utah as to the possible amenability of your ore to their process.

~~Sincerely yours~~,
Very truly yours,
Tom Lyon

Memorandum Landon F
To: ~~Mr.~~ Strobel, Executive Secretary
From: ~~George Holderer~~ Manganese Branch
Subject: DMA 1253 X, P.E. Dunn, 1450 Lawrence, Denver 2, Colo.

P. E. Dunn, 1450 Lawrence, Denver 2, Colorado has requested an exploration project costing $3,000 to be reopened property near Centennial, Wyoming. The information supplied consists of a single assay showing bismuth, cobalt and manganese content and a series of assays for gold, silver and bismuth. The manganese and bismuth content is too low to make the property of potential value for these commodities. The one assay submitted for cobalt is insufficient to permit approval on this basis. However, the applicant has been informed that his application will be reconsidered if additional evidence concerning cobalt content and recoverability can be supplied.

6/23/51 Bureau not interested in this cobalt. MDC

MDC HRC