DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2149

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This document has been recorded as

EXPLORATION PROJECT

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip
Code 350

To:	Lead-zinc Br.	Date	10/15/51
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2149 - B. F. Crutchley - Examination pending

FILE COPY
SURNAME:

500

Corbett
Miller
Hedges
Gordon
Johnson

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

AUG 7 1952

Mr. H. F. Crutchley
Ketchum, Idaho

Re: Docket No. DMEA-2149 (Lead-Zinc)
Big Doe Zinc Mine
Blaine County, Idaho

Dear Mr. Crutchley:

Reference is made to your application, Docket No 2149, for Government assistance in the exploration of your property.

A study of the information furnished in your application, and other data available to this agency, indicates that the geological probability of discovering significant bodies of ore is not sufficient to warrant the expenditure of public funds. We regret to advise you, therefore, that your application is denied.

Your interest in the defense program is appreciated, and we wish to thank you for bringing your property to the attention of the Government.

Sincerely yours,

C. O. Mittendorf (for)
Acting Administrator

FXCorbett/mb
August 4, 1952
cc to: Docket
Adm. Reading File
Operating Committee
Mr. Keller (2)
Mr. Corbett
Mr. Bishop
Mr. McKnight
Region II
Chron

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

August 4, 1952

Memorandum:

To: C. O. Mittendorf, Acting Administrator

From: H. F. Keller, Acting Chief, Base Metals Division

Subject: Denial of Application, Docket No. DMEA-2149

In compliance with the findings of both the Field Team and Commodity engineers regarding the merits of this proposal, this office has refused to grant exploration funds for this property.

The application was received in this office on October 12, 1951, and a report by the U.S.B.M and U.S.G.S describing the property on July 21, 1952. In this report it is stated that the mineralization, principally erratic, small masses of galena and small bodies of the secondary zinc minerals, smithsonite and calamine is too meager and possibilities of finding significant bodies of ore too poor to justify the exploration program suggested by the owners.

H. F. Keller
Acting Chief

FILE COPY
500 SURNAME:

Corbett
HFKeller
Lemmon

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

August 4, 1952

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H. F. Keller
Acting Chief

FXCorbett
~~HFKeller~~/mb
August 4, 1952
cc to: Docket
Mr. Keller (2)
Operating Committee
Adm. Reading File
Mr. Corbett
Mr. Bishop
Mr. McKnight
Chron

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

July 31, 1952

Memorandum

Re: DMA-2149
Big Doe Zinc Property
Warm Springs District
Blaine County, Idaho
$75,743

To: Mr. H. F. Keller

From: E. L. Newcomb, USGS
O. M. Bishop, USBM

Subject: Concurrence with field team denial

The applicant requests assistance to explore an oxidized vein (locally called the Calcite vein) at depth for possible sulfide mineralization by crosscutting and drifting at three locations along the northwestward projection of the vein.

The field team recommends that the application be denied. Present mine workings have explored two veins. One adit and a winze on the Calcite vein exposed a small lenticular carbonate orebody. A few tons of carbonate ore averaging 37% zinc and 0.4% lead are reported to have been shipped in 1950 from production in the winze. However, the amount of ore now remaining in the winze area is negligible. Two adits on a second vein which is about 750 feet southwest of the Calcite vein, have exposed only sparse lead mineralization in a narrow quartz stringer. No production has been shipped from this vein.

The applicant's proposed work is planned to explore the Calcite vein at 3 locations 200 to 2,000 feet northwest of the present workings. Proposed adit #1 would portal in an inaccessible location and at best could be expected to find only a limited tonnage of carbonate ore judging by the nature of the carbonate occurrence in the adit to the southeast. Proposed adits #2 and #3 might intersect sulfide mineralization, but because the area of the proposed work is lacking in outcrops the location of the vein is highly conjectural. Before the proposed adits could be justified, considerable bulldozing would be required to check on the location of the vein and its possible mineralization. However, an alternative project involving bulldozing or some other form of exploration is not recommended for the property at this time.

The available geological evidence does not indicate that the applicant's proposal is either feasible or worthwhile exploration.

Furthermore, the field team does not believe the applicant can match funds for the proposed exploration. We concur with field team and recommend that the application be denied.

E. L. Newcomb
E. L. Newcomb
Geologist

O. M. Bishop
O. M. Bishop
Mining Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

July 31, 1952

Memorandum

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Big Doe Zinc Property
Warm Springs District
Blaine County, Idaho
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O. M. Bishop, USBM

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E. L. Newcomb
Geologist

O. M. Bishop
Mining Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
So. 157 Howard Street
Spokane 4, Washington

July 8, 1952

Memorandum

To: Chairman, DMEA Operating Committee

From: DMEA Field Team, Region II

Subject: Report on field examination of the Big Doe Zinc property, Blaine County, Idaho, Docket No. DMEA-2149.

Enclosed are four copies of a report by Thor H. Kiilsgaard, U. S. Geological Survey, and T. E. Howard, U. S. Bureau of Mines, concerning a field examination of the Big Doe Zinc property, Blaine County, Idaho.

The Examining Team recommends denial of the Big Doe Zinc application and the Field Team concurs.

By Field Team, Region II

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

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

Enclosures

cc: USBM, Spokane
USGS (SRO)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
So. 157 Howard Street
Spokane 4, Washington

July 8, 1952

Reviewed by
DMEA OPERATING COMMITTEE
7-25-52
(date)

Memorandum

To: Field Team, DMEA, Region II

From: Thor H. Kiilsgaard, U. S. Geological Survey, and T. E. Howard, U. S. Bureau of Mines

Subject: Field examination of the Big Doe Zinc property, Blaine County, Idaho, DMEA Docket No. 2149 - Lead-Zinc.

INTRODUCTION

Mr. H. F. Crutchley of Ketchum, Idaho, submitted an application for a DMEA contract on the Big Doe Zinc property in October 1951; however, before a field examination could be made an early snowfall made the area inaccessible. The property was free of snow in May, and was examined by the writers on May 29, 1952, in company with Mr. H. F. Crutchley, Mr. Grant Crutchley, and Mr. George Rice, the latter three of whom are partners in the Big Doe enterprise.

RECOMMENDATIONS

It is recommended that Mr. Crutchley's application for a DMEA contract to explore the Big Doe Zinc property, Blaine County, Idaho, be denied.

LOCATION AND ACCESSIBILITY

The Big Doe Zinc property is on the south side of Lake Creek Canyon, unsurveyed sections 8 and 9, T. 5 N., R. 18 E., Boise meridian, about 8 miles northeast from Ketchum, Idaho, the nearest railroad shipping point. The road from Ketchum to the mine is paved for the first 4 miles, and for the next 3 miles is a good unimproved road up the low-gradient Lake Creek Valley. The final mile is up the steep south canyon wall of Lake Creek, a climb of about 1000 feet from the valley floor to the upper mine adit.

The Lake Creek region is subject to abnormally heavy snowfall and is commonly snowed in from November until May. The steep, denuded valley sides are also sites of numerous snowslides which make snow plowing of the roads difficult and hazardous.

PROPERTY

The property is comprised of nine unpatented claims, the Big Doe and the Big Doe No's. 1, 2, 3, 4, 5, 6, 7, and 8. They were formerly known as the Price group of claims and are so described in U. S. Geol. Survey Bull. 814, pp. 195-196.

Mine development consists of four short adits. The Upper and Middle adits, both of which were driven prior to World War I and which explore the Calcite vein, are believed to be on the Big Doe claim. The Lower and Intermediate adits explore another vein and are believed to be on the Big Doe No. 1 claim. Claim locations are not confirmed as there are no accurate claim maps and no attempt was made by the Examining Team to survey claim boundaries.

GEOLOGY

Big Doe mine workings explore two separate veins. The Upper and Middle adits test the Calcite vein, a persistent structure that is reported to have been traced on the outcrop for more than 1000 feet southeast of the mine workings. The vein strikes N. 40° W., and dips steeply, in places being overturned. Where examined, the vein is in shaly limestone of the Pennsylvanian Wood River formation, being only slightly above the basal conglomerate of that formation. The formation in this area is overturned, and, were it not for the topographic location, would be overlain by older Mississippian rocks of the Milligen formation. The vein is well named, being composed chiefly of vuggy, iron-stained calcite with local, lenticular pods of smithsonite. The zinc silicate calamine is reported to occur in the vein although none was seen during the examination. In the Upper adit a lenticular body of smithsonite is encountered about 50 feet from the portal that extends to the southeast for a strike length of about 50 feet; it ranges to a maximum thickness of about 30 inches. The zinc ore body has been explored by a 50-foot winze which, at the time of the examination, had been backfilled to a depth of about 25 feet. One 30-ton carload of zinc ore is reported to have been shipped from this winze in 1950. No appreciable amount of ore now remains in the winze area.

The Middle adit is reported to have produced some zinc carbonate ore during World War I but is now caved a short distance from the portal.

Since 1950 the applicants have driven the Lower adit to intersect a quartz vein explored in the Intermediate adit (see accompanying map). The Lower adit portals in black, carbonaceous argillite of the Milligen formation and a short distance in from the portal passes through a strong northwest-striking dike. Beyond the dike the adit follows a thin stringer of gouge and quartz which locally contains blebs of galena up to 1" in thickness. Near the adit face the quartz stringer merges with a strong fault, which is probably the downward continuation of the structure explored in the Intermediate adit. No ore has been shipped from either the Lower or Intermediate adits.

PAST PRODUCTION

United States Geol. Survey Bull. 814 reports that the property shipped some ore during World War I, although no amount is specified. This ore is believed to have come from the Middle adit.

In 1950 the applicants shipped 30 tons of smithsonite from the winze extending below the Upper adit; this ore assayed 37 percent zinc and 0.4 percent lead. Although the price of zinc was 17 cents per pound at the time of shipment, payment to the operators was made at a price of 7 cents. The markdown in price is reported to have resulted from complexities in metallurgical treatment. After deducting mining, transportation, and overhead charges, the operators realized little profit from the shipment.

PROPOSED EXPLORATION PROGRAM

The applicant proposes to explore the property by:

(1) A 100-foot adit that would portal in the conglomerate southwest of the location pit on the Calcite vein outcrop--see map--and would crosscut to the vein from where it would drift 300 feet to the southeast. This adit would be about 100 feet below the outcrop and/or the Middle adit level.

(2) A 1000-foot drift that would portal on the Calcite vein outcrop several hundred feet northwest of the location pit shown on the accompanying map, and some 350 feet lower in elevation.

(3) A 2000-foot drift that would portal on the Calcite vein outcrop about 50 feet above the Lake Creek level. This proposed level would be more than 2000 feet northwest of the Calcite vein workings shown on the accompanying map.

DISCUSSION OF THE PROPOSED EXPLORATION PROGRAM

The No. 1 adit of the proposed exploration program, which would portal in the conglomerate, could obtain 100 feet of backs with a crosscut about 130 feet long. However, the inaccessible location of the adit, the short working season, and the erratic and pod-like distribution of the zinc carbonate ore, which is to be expected, makes exploration work through such an adit unfeasible.

The No's. 2 and 3 proposed adits could develop zinc sulphide ore bodies, but the location of the vein in those areas where these adits would portal is a matter of conjecture. The areas are overlain by overburden, brush, and fairly thick stands of timber; there are no vein outcrops. Considerable bulldozing would have to be done before the adits could be portaled and even then such long projections from known outcrops would make exploration a matter of speculation. There are similar zinc deposits on the north side of Lake Creek which roughly line up with the Big Doe outcrops but whether workable zinc deposits exist in the intervening areas is unknown. Moreover, it is doubtful

if the applicants could match funds with the Government in such exploration work, and it is therefore suggested that they not be encouraged to enter into such an expensive program.

COMPETENCE OF APPLICANT

The applicants have considerable mining experience, having worked for many years as miners in various western mining camps. They are not technical men and have little experience in mining cost analysis as evidenced in their application. They have some mining equipment that is listed in their application and they would be quite capable of doing the exploration work; however, they would need technical management. All three of the partners work for wages and other than their limited mining equipment and labor would have little to contribute as their share toward the costs of the program.

cc: USBM, Spokane
USGS (SRO)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

July 3, 1952

Memorandum

To: Chairman, DMEA Operating Committee

From: DMEA Field Team, Region II

Subject: Report on field examination of the Big Doe Zinc property, Blaine County, Idaho, Docket No. DMEA-2149.

Enclosed are four copies of a report by Thor H. Kiilsgaard, U. S. Geological Survey, and T. E. Howard, U. S. Bureau of Mines, concerning a field examination of the Big Doe Zinc property, Blaine County, Idaho.

The Examining Team recommends denial of the Big Doe Zinc application and the Field Team concurs.

By Field Team, Region II

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

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

Enclosures

cc: USBM, Spokane
USGS (SRO)

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

So. 157 Howard Street
Spokane 4, Washington

July 3, 1952

Memorandum

To: Field Team, DMA, Region II

From: Thor [illegible] Gillespie, U. S. Geological Survey, and T. [illegible] Howard, U. S. Bureau of Mines

Subject: Field examination of the Big Doe Mine property, Blaine County, Idaho, DMA Docket No. 2147 - Sand-Inc.

INTRODUCTION

Mr. [illegible] Crutchley of Ketchum, Idaho, submitted an application for a DMA contract on the Big Doe Mine property in October 1951; however, before a field examination could be made an early snowfall made the area inaccessible. The property was free of snow in May, and was examined by the writers on May 29, 1952, in company with Mr. [illegible] Crutchley, Mr. Grant Crutchley, and Mr. George Rice, the latter three of whom are partners in the Big Doe enterprise.

RECOMMENDATIONS

It is recommended that Mr. Crutchley's application for a DMA contract to explore the Big Doe Mine property, Blaine County, Idaho, be denied.

LOCATION AND ACCESSIBILITY

The Big Doe Mine property is on the south side of Lake Creek Canyon, unsurveyed sections 3 and 4, T. 5 N., R. 17 E., Boise meridian, about 3 miles northeast from Ketchum, Idaho, the nearest railroad shipping point. The road from Ketchum to the mine is paved for the first 4 miles, and for the next 3 miles is a good unimproved road up the low-gradient Lake Creek Valley. The final mile is on the steep south canyon wall of Lake Creek, a climb of about 1000 feet from the valley floor to the upper mine adit.

The Lake Creek region is subject to abnormally heavy snowfall and is commonly snowed in from November until May. The steep, denuded valley sides are also sites of numerous snowslides which make snow plowing of the roads difficult and hazardous.

PROPERTY

The property is comprised of nine unpatented claims, the Big Doe and the Big Doe No's. 1, 2, 3, 4, 5, 6, 7, and 8. They were formerly known as the Price group of claims and are so described in U. S. Geol. Survey Bull. 814, pp. 195-196.

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PAST PRODUCTION

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In 1950 the applicants shipped 30 tons of smithsonite from the winze extending below the Upper adit; this ore assayed 37 percent zinc and 0.4 percent lead. Although the price of zinc was 17 cents per pound at the time of shipment, payment to the operators was made at a price of 7 cents. The markdown in price is reported to have resulted from complexities in metallurgical treatment. After deducting mining, transportation, and overhead charges, the operators realized little profit from the shipment.

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COMPETENCE OF APPLICANT

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cc: [illegible], Spokane
[illegible] (SEO)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 21 1952

January 15, 1952

MEMORANDUM

To: C. O. Mittendorf, Chairman, DMEA Operating Committee

From: A. E. Weissenborn, Executive Officer, DMEA Field Team, Region II

Subject: DMA Docket 2149, Big Doe Zinc Property, Blaine County, Idaho

This office is in receipt of a copy of a letter from Tom Lyon, Director, Supply Division, to Mr. H. F. Crutchley, Ketchum, Idaho, dated November 2, 1951. In the letter, Mr. Crutchley was advised that DMEA field personnel from the Region II office would examine his Big Doe Zinc property at the earliest practicable date, the examination pursuant to his application for DMEA exploration assistance.

Mr. Thor Kiilsgaard, Geologist, U. S. Geological Survey, contacted Mr. Crutchley at his home in Ketchum on December 1, 1951, concerning the proposed examination. Mr. Crutchley advised that the property in question was snow-bound and would be inaccessible until late May, 1952. Mr. Crutchley stated that he would inform the Spokane Field Office when the property was accessible and that arrangements could be made to examine the Big Doe property following such notification.

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

c.c. U. S. Bureau of Mines, Spokane

DMA 2149 - H. F. Crutchley, Ketchum, Idaho

Big Doe Zinc Property located on Lake Creek, Blaine County, Idaho

Applicant outlines 3 different plans for development of mine. (1) $9,395 (2) $22,365 (3) 43,983. These are alternative propositions and not separate projects. Referred to USGS.

NOV 2 1951

No: W1-9149

Mr. H. L. Crutenley

Ketchum, Idaho

Dear Mr. Crutenley:

Your application for an exploration loan of $75,143 on the Big Joe Zinc Property, Blaine County, Idaho, has been referred to the Lead-Zinc Branch for review.

We have been advised by the Defense Minerals Administration's field office, Spokane, Washington, that a field examination will be made on your property at the earliest practicable date. A complete appraisal of your application will be made after we receive the field team examination report.

Very truly yours,

RECEIVED

Tom Lyon, Director
Supply Division

B:Newcomb:mp
G 10-23-51
Copies to: A. E. Weissenborn, Region II (2)
Chief, Lead-Zinc Br.
R. T. McKnight 4234 GSA
O. M. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. files
DMA docket files

9

NOV 2 1951

Re: DMA-2149
Big Ace Zinc Property
Bingham County, Idaho
Exploration loan, $75,743

Memorandum

To: Reports and Records Unit
Administrative Management Division

From: Lead-Zinc Branch

Through: Coordinating Committee

Subject: Field Referral

The field office, Spokane, Washington, has retained one (1) copy of the DF-100 and DF-103 applications in order to facilitate an early examination of the subject property.

We are returning the docket for your files pending receipt of the field examination report.

The letter accompanying this memorandum should be sent to applicant informing him of the present status of his application.

Returned herewith are:

3 copies DF-103
1 copy DF-100

Tom Lynn, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

FLNewcomb:emp
G 10-25-51
Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
O. K. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. files
DMA docket files

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

NOV 2 1951

Re: DMA-2149
Big Doe Zinc Property
Blaine County, Idaho
Exploration loan, $75,743

Memorandum

To: Reports and Records Unit
Administrative Management Division

From: Lead-Zinc Branch

Through: Coordinating Committee

Subject: Field Referral

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We are returning the docket for your files pending receipt of the field examination report.

The letter accompanying this memorandum should be sent to applicant informing him of the present status of his application.

Returned herewith are:

3 copies MF-103
1 copy MF-100

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

F. B. Moon
for Bureau of Mines

T. P. Thayer
for Geological Survey

FILE COPY
SURNAME: 350

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C. NOV 2 1951

New comb (ETM)
McKnight
Bishop
Johnson
Brown
Thayer

Re: DMA-2149
G.E.C.

Mr. H. P. Crutchley

Ketchum, Idaho

Dear Mr. Crutchley:

Your application for an exploration loan of $75,743 on the Big Joe Zinc Property, Blaine County, Idaho, has been referred to the Lead-Zinc Branch for review.

We have been advised by the Defense Minerals Administration's field office, Spokane, Washington, that a field examination will be made on your property at the earliest practicable date. A complete appraisal of your application will be made after we receive the field team examination report.

Very truly yours,

SIGNED
Tom Lyon, Director
Supply Division

g7 11/2

ELNewcomb:emp
G 10-23-51
Copies to: A. E. Weissenborn, Region II (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
O. M. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 gsa
Administrators r. files
DMA docket files

FILE COPY
SURNAME: 350

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

NOV 2 1951

Newcomb (ETW)
McKnight
Bishop
Johnson

Re: DMA-2149
Big Doe Zinc Property
Blaine County, Idaho
Exploration loan, $75,743

Memorandum

To: Reports and Records Unit
Administrative Management Division

From: Lead-Zinc Branch

Through: Coordinating Committee

Subject: Field Referral

The field office, Spokane, Washington, has retained one (1) copy of the MF-100 and MF-103 applications in order to facilitate an early examination of the subject property.

We are returning the docket for your files pending receipt of the field examination report.

The letter accompanying this memorandum should be sent to applicant informing him of the present status of his application.

Returned herewith are:

3 copies MF-103
1 copy MF-100

Tom Lyon, Chairman
Coordinating Committee

for Bureau of Mines

for Geological Survey

ELNewcomb:emp
G 10-25-51
Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
O. M. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. files
DMA docket files

October 15, 1951

H. F. Crutchley
Ketchum, Idaho

Subject: DMA-2149
Re: Exploration

My dear Mr. Crutchley:

This will acknowledge receipt of your application dated October 1, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA- 2149 and referred to the Lead-zinc Branch.

Kindly refer to DMA- 2149 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

2463

OCT 16 1951

4

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

OCT 12 2 01 PM '51

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

October 8, 1951

Executive Secretary
Defense Minerals Administration
Department of Interior
Washington 25, D. C.

Dear Sir:

Enclosed are three copies of form MF-103 and three copies of form MF-100 submitted by Mr. H. F. Crutchley, Ketchum, Idaho. These exploration loan applications concern the Big Doe Zinc property, located on Lake Creek, Blaine County, Idaho.

One copy of each application is being retained at this office to facilitate a field examination which will be conducted at the earliest practicable date.

Very truly yours,

M. E. Volin
Acting Executive Officer
(U. S. Bureau of Mines)

Enclosures

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OCT 12 2 01 PM '51

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] are three copies [illegible] and three copies of [illegible] rubbley, [illegible], Idaho. These sections [illegible] pertaining to the [illegible] property, located [illegible] the [illegible], Lemhi County, Idaho.

[illegible] copy of [illegible] is also [illegible]. This [illegible] constitute a [illegible] which will be [illegible] at the earliest [illegible].

[illegible]

[illegible]

[illegible]

[illegible]

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
OCT 12 2 01 PM '51

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
OCT 12 2 00 PM '51

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
OCT 12 2 01 PM '51

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
OCT 12 2 01 PM '51

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. dma 2149
Metal or Mineral
Date Received 10-12-51
Amount $
Participation (Government %)

Name and address of applicant

H.F.CRUTCHLEY

KETCHUM , IDAHO

Date OCT I, 1951

If you have already filed MF-100, give date filed _____, type of assistance requested 50%,

DMA Docket Number (if available) _____

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*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*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

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.

BIG DOL MINE
(Name of company)

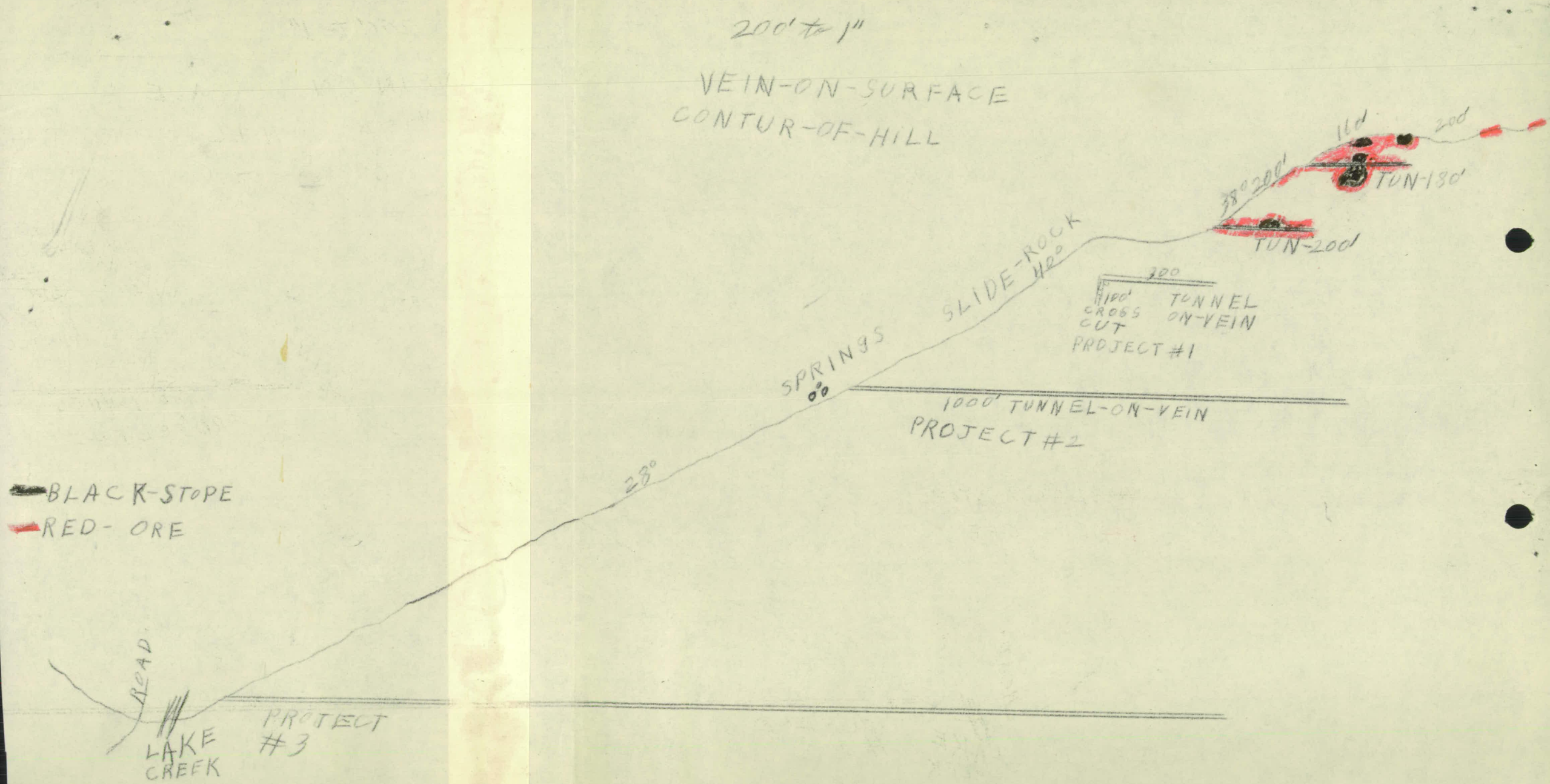
By [signature]
(Signature of authorized official)

OCT 1, 1951
(Date)

President
(Title)

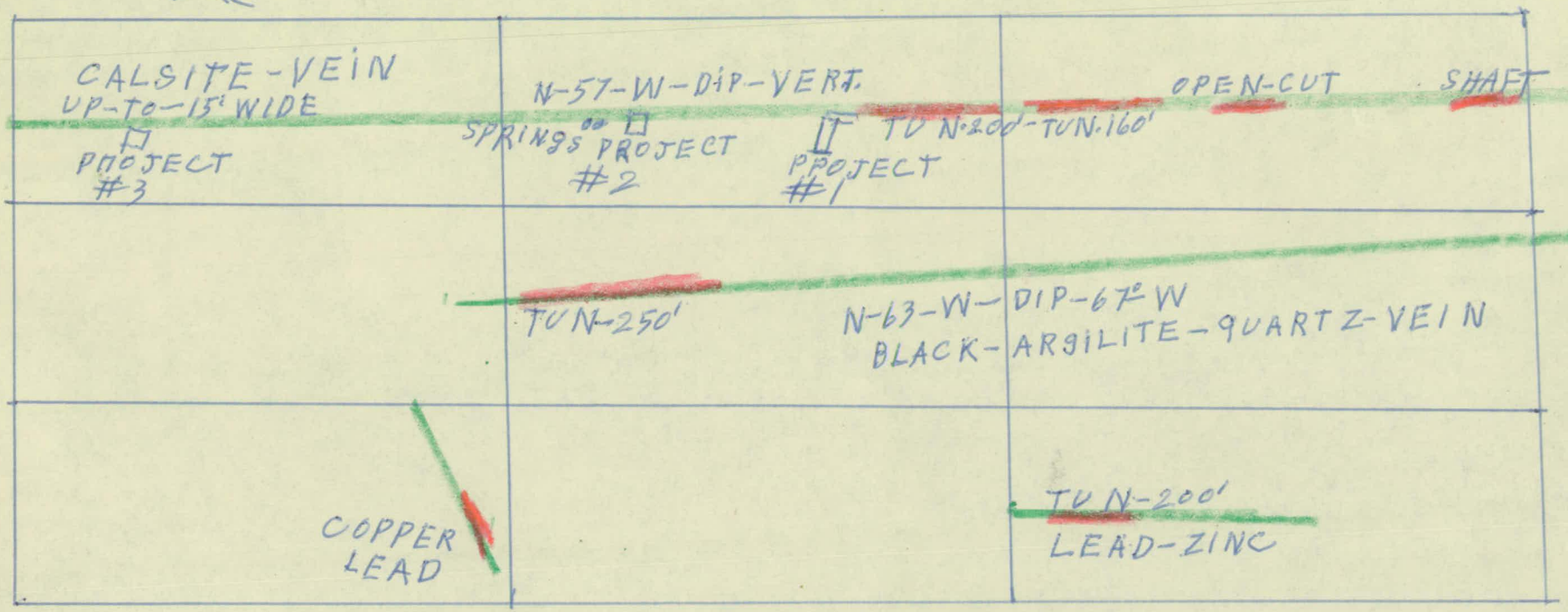
Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2


200' to 1"
VEIN-ON-SURFACE
CONTUR-OF-HILL
110'
200'
TUN-180'
38° 200'
TUN-200'
SLIDE-ROCK
40°
300
110' CROSS CUT
TUNNEL ON-VEIN
PROJECT #1
SPRINGS
1000' TUNNEL-ON-VEIN
PROJECT #2
28°
BLACK-STOPE
RED- ORE
ROAD
LAKE CREEK
PROTECT #3

FOMM-MF-103 500' TO-1" 9-BIG-DOE CLAIMS

4



GREEN-VEINS

RED- ORE

FORM MF-103

I -A- nine name Big Doe and Big Doe I-2-3-4-5-6-7-8

B- Owners H.F.Crutchley - Grant Crutchley - George Rice
equael partners

C - We would like the US engineer to sellect the starting point

FORM MF -103

2 -A - lead and zinc, more zinc than lead

2 -B- expect to find sulphide ore bodies under the oxidised ore bodies that has been patly mined out on the surface Have mined three hundred tons zinc carbonate near the surface , shipments caried 37 to 39 persent zinc was a few inches to four feet wide

FORM MF -I03

I will try to show three differant plans for development of thisproperty ,as shown on maps
the cost of out side work and the cost per foot of tunnel will be about the same on each

3-A- #I would be I00 feet of cross cut to tap the vein and 300 feet of drift on the vein I00 feet of backs would be gained on the present known ore shoot total cost $9395.30

#2would start near the springs and drift on the vein for I000 feet and 350 feet of backs gained cost $22365.80

#3 would start fifty above creek level and drift on vein for 2000 feet cost $43983.30

#I	Hiring bull dozer for excavating for tunel sight &road	$250.00
	buy new power chain saw	335.00
	accountant $I.50 per day I00 days	I50.00
	compressor house labor & material	I63.30
	hiring truck for hauling drilling water timbers & supplies I8 miles per day .I0 cents per mile I00 days	I80.00
	depreation on equipment $4.77 per day I00 days	477.00
	400 feet tunnel $I9.60 per foot	7840.00
	total cost perposed project # I	$9395.00

#2	Hireing bull dozer for excavateing for tunnel sight & road	250.00
	buy new gas power chain saw	335.00
	accountant $I.50 per day 250 days	375.00
	compressor house labor & material	I63.30
	truck for hauling	450.00
	depreation on equipment	II92.00
	I000 feet tunnel $I9.60 per foot	I9600.00
	#2 perposed project total cost	$22365.00

#3	dozer		250.00
	saw		335.00
	accountant ~~#50#00~~ I.50 per day 500 days	750.00	~~375.00~~ ~~#####~~
	compressor house		I63.30
	truck for hauling $I.80 per day 500 days		900.00
	depreation on equipment ~~#####00~~ $4.77 per day 500		~~$2385.00~~ 2385.
	2000 feet tunnel I9.60 per foot		39200.00
	#3~~#2~~ perposed project total cost		$43983.00

3-B start at once
to complete #I -I00 working days #2 -250 #3-500 days

FORM MF - 103

#5 No buildings on the property

FORM MF - I03

6 - A ten by twelve compressor house flat roof,two small windows ,~~one door, one entrance door~~

one drop door for ventilation

one entrance door

made of one by twelve rough lumber

covered with roofing paper

782 feet lumber	80.25
2 windows	4.50
4 strap hinges	I.00
5 rolls roofing paper	2I.25
cost mat~~ttal~~	I07.25
labor	56.05
total	I63.30

FORM MF-I03

7-A	none		
B-	gas powered chain saw		$335.00
C-	owned and furnished by me on depreciation basis		
	I Sullivan two stage air compressor		3480.00
	2 sullivan 1-57 jack hammers		I040.00
	I sullivan S-9I stoper		584.00
	2 pressure water tanks		I36.00
	2 sets water hoses		I28.00
	2 hook up manifolds		30.40
	500 feet I&¼ inch air pipe		205.00
	3 sets jack hammer steel		55.44
	3 sets stoper steel		70.08
	500 timpkin bits		205.00
	8 picks		28.00
	4 shovels		I2.80
	I forge		24.50
	I anvel		22.50
	3 hammers		7.00
	4 24 inch pipe wrenches		36.00
	I200 feet I2 lb. track rails	I6¢per lb.	768.00
	I vise		26.50
	I 4 foot timber saw		7.80
	I 3 foot timber saw		5.25
	2 mine cars		450.00
	I column , saddel & arm		I32.80
		total	$7455.57
	depreciation sixty months basis per month		I24.25

FORM MF-I03

8 - My two partners boath top miners

I will supervise the job as well as cut haul and

frame timbers blacbsmithing and any reparing or mechanical work

the three of us to draw miners wages each $I2.3I at presant

rate for this aera

FORM MF-103

9 -	gasoline 6 gal per shift 26¢ per gal.	$I.56
	oil I qt.	.25
	accountant per day	I.50
	dinamite about 20 lbs. per day	4.80
	fuse 60 feet per day	.90
	blasting caps	.24
	2 by I2 lumber for timbering tunnel 4 ft. per day	I0.20
	sharpen bits I2 per day I5¢ each	I.80
	lamp carbide	.I5

new bits to buy after old ones have been rejected
& broken steel to replace at times
cant estamate the cost

May not have to timber much of tunnel so cost of lumber
may only a fraction of the estamate

more pipe and track will have to be baught after ours is
all installed
2 inch pipe 85¢ per foot track about 95¢ per foot

FORM MF -I03

I0 Θ A our total time and one half of total cost

B yes

FORM MF - 103

II - I am sure the vein system will be interesting to any engineer who examines the property

There is plenty of standing timber on the property

Chain listed in 7 B is needed for falling and cuting to lengths

Form MF-100
(March 1951)

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.
OCT 12 2 01 PM 151

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma 2149

Date received 10-12-51

H.F.CRUTCHLEY

KETCHUM, IDAHO

Name and address of applicant

Date OCT I, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production ONE
   If not in production or operation, estimated date when production will begin AFTER DEVELOPMENT
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
H.F. CRUTCHLEY	OWNER						
KETCHUM IDAHO							
GRANT CRUTCHLET	OWNER						
KETCHUM IDAHO							
GEORGE RICE	OWNER						
KETCHUM IDAHO							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	ZINC			42tons	
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)	37% ZINC				

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

12. Ore or Mineral Reserves:

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

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

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

CERTIFICATION

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

BIG DOG MINE
(Name of company)

By [illegible]
(Signature of authorized official)

OCT 1, 1951
(Date)

[illegible]
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

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

FORM MF -IOO

I-A lead zinc

I-B dont know

FORM MF-100

2-A- none

B - 380feet drifts on vein

C - none

D - one open cut stope ten by twenty feet

one open cut stope eight by forty feet

one under hand stope thirty by sixty

one stope twenty by ~~sixty~~ forty

no water in mine

FORM MF-100

3- A -nine miles north of Ketchum the shipping point

B -Warm springs mining district

C -township 5-n

range 18-e

dont know section number

D- Blaine County Idaho

FORM MF-100

4- A- not at present time

B- owner

FORM MF-100

5 - world war one and summer of 1950

after some development work has been done

FORM MF -100

6 - fifteen years mining and some milling on small scale
for my self only

twenty years owened and operated garage and machine shop

FORM -MF-100

7-A two hundred or more tons of ore was mined during world war one transportation a horse and stone boat

september 1950 I built two miles of road to uper workings nine switch backs in this road

I mined a shippment of thirty persent zinc receving for same seven and one fourth cents per pound and the market was seventeen and one half cents

If we had a subsidy of four cents Iwould be mining ore now under hand stoping is slow and expensive

I nead more depth so can stope over head

B- The Triumph mine with millions of tons to it,seredit lays south of this property and the Home Stakemine to the north has mined thousands of tons

Myproperty is supposed to be on the same vein sistem

C- no professional reports available

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C. OCT 12 2 01 PM '51

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. dma 2149
Metal or Mineral
Date Received 10-12-51
Amount $
Participation (Government %)

H.F. CRUTCHLEY
KETCHUM, IDAHO

Name and address of applicant

Date OCT 1, 1951

If you have already filed MF-100, give date filed ....., type of assistance requested 50%,

DMA Docket Number (if available) .....

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

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   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

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ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

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4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

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.

BIG DOE MINE
(Name of company)

By R. F. Crosthwaites
(Signature of authorized official)

OCT 1, 1951
(Date)

Supt.
(Title)

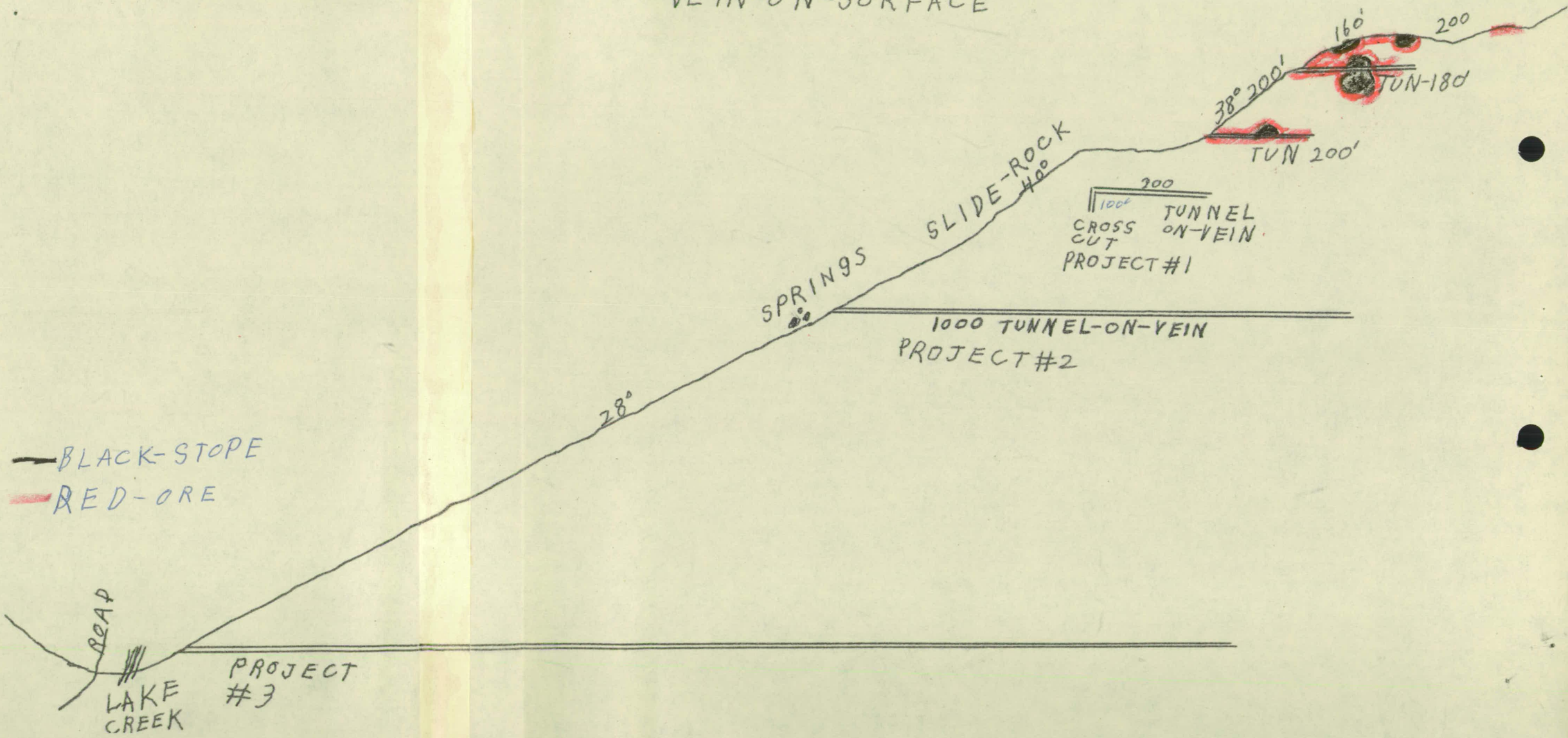
Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

FORM-MF-103

200' to 1"

VEIN-ON-SURFACE



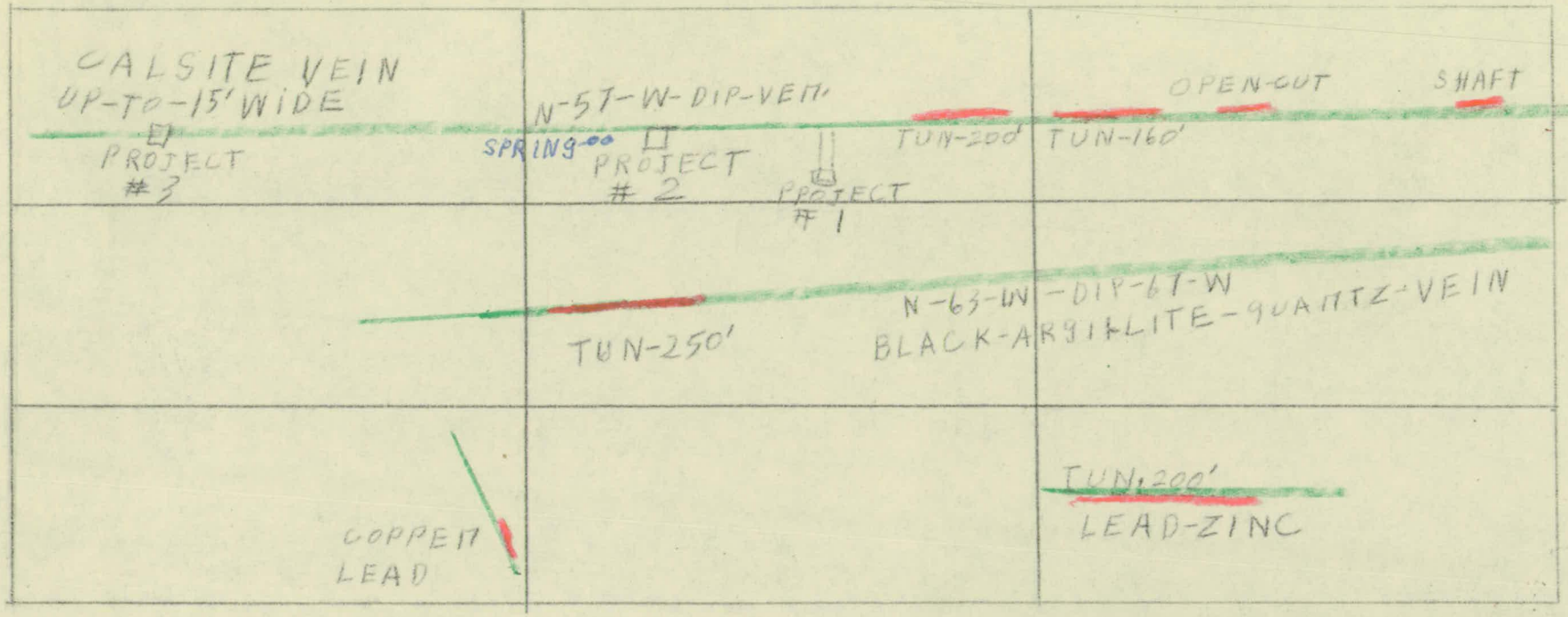
NORTH

MAGNETIC

FORM-MF-103
4

500' TO-1"

9-BIG-DOE
CLAIMS



GREEN-VEINS

RED-ORE

FORM MF-103

I -A nine claims name Big Doe and Big Doe I-2-3-4-5-6-7-8

B- Owners H.F.Crutchley Grant Crutchley George Rice
equal partners

C - We would like the U S engineer to sollect the starting point

FORM MF -103

2- A - lead and zinc more zinc than lead

2-B - expect to find sulphide ore bodies under the oxidised ore bodies that has been party mined out on the surface Have mined three hundred tons zinc carbonate near the surface , shipments caried 37 to 39 persent zine wasa few inches to four feet wide

FORM MF _-I03

I will try to show three different plans for development of this property, as shown on maps
The cost of outside work and the cost per foot of tunnel will be about the same on each.

3-A- #I would be I00 feet of cross cut to tap the vein and 300 feet of drift on the vein I00 feet backs would be gained on the present known ore shoot, total cost $9395.30

#2 would start near the springs and drift on the vein for I000 feet and 350 feet of backs gained, cost $22365.80

#3 would start fifty feet above creek level and drift on vein for 2000 feet, cost $43983.30

#I Hiring bull dozer for excavating for tunnel sight & road	$250.00
Buy new power chain saw	335.00
Accountant $I.50 per day I00 days	I50.00
Compressor house, labor & material	I63.00
Hiring truck for hauling drilling water timbers & supplies I8 miles per day I0¢ per mile, I00 days	I80.00
Depreation on equipment $4.77 per day I00 days	477.00
400feet tunnel $I9.60 per foot	7840.00
Total cost perposed project # I	$ 9395.00

#2 Hiring bull dozer for excavating for tunnel sight &road	250.00
Buy new gas power chain saw	335.00
Accountant $I.50 per day 250 days	375.00
Compressor house labor & material	I63.30
Truck for hauling	450.00
Depreation on equipment	II92.00
I000 feet tunnel $I9.60 per foot	I9600.00
#2perposed project total cost	$22365.00

#3 Dozer	250.00
Saw	335.00
Accountant $I.50 per day 500 days	750.00
Compressor house	I63.30
Truck for hauling $I.80 per day 500 days	900.00
Depreation on equipment $4.77 per day 500 days	2385.00
2000 feettunnel $I9.60 per foot	39200.00
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3-B Start at once
To complete #I - I00 working days #2 - 250 #3 - 500 days

FORM MF - 103

5 _- no buildings on the property

FORM MF-I03

6 - A ten by twelve compressor house flat roof, two small windows

one drop door for ventilation

one entrance door

made of rough lumber

covered with roofing paper

782 feet lumber	$8o.25
2 windows	4.50
4 strap hinges	I.00
5 rolls roofing paper	2I.25
material cost	I07.25
labor	56.05
total	I63.30

FORM MF -I03

7- A none

B- gas powered chaine saw $335.00

C- owned & furnished by me on depreciation basis

I sullivan two stage air compressor		3480.00
2 sullivan L-57 jack hammers		I040.00
I sullivan ## S-9I stopper		584.00
2 pressure water tanks		I36.00
2 sets water hoses		I28.00
2 hook up manifolds		30.40
500 feet I¼ inch air pipe	205.00	~~265.00~~
3 sets jack hammer steel		55.44
3 sets stoper steel		70.08
500 timpkin bits		205.00
8 picks		28.00
4 shovels		I2.80
I forge		24.50
I anvel		22.50
3 hammers	7.00	~~#400#~~
4 24 inch pipe wrenches		36.00
I200 feet I2 lb. track rails I6¢ per lb.		768.00
I vise		26.00
I 4 foot timber saw		7.80
I 3foot timber saw		5.25
2 mine cars		450.00
I column saddel & arm		I32.80
total		$7455.57

depreciation sixty months basis per month $I24.25

FORM MF - 106

8 - My two partners boath top miners
I will supervise the job as well as cut haul and frame timbers do blacksmithing and any repairing or mechanical work
The three of us to draw miners wages each $12.31 at present rate for this aera

FORM MF -I03

9 - gasoline 6 gal per day 26¢per gal.	I.56
oil Iqt.	25
accountant per day	I.50
dinamite about 20 lbs. per day	4.80
fuse 60 feet per day	90
blastingcaps	24
2 by I2 lumber for timbering tunnel 4 ft. per day	I0.20
sharpening bits I2 perday I5¢ each	I.80
lamp carbide	I5

new bits to buy after old ones have been rejected
& broken steel to replaice at times
cant estamate the cost

May not have to timber much of tunnel so cost of lumber

may be only a fraction of the estamate

additional pipe and track will have to be baught after

ours is all installed

2 inch pipe 85¢ per foot track about 95¢ per foot

FORM MF -I03

IO - A our total time and one half of total cost

B - yes

FORM MF -103

II - Iam sure the vein system will be interesting to any enginer who examines the property

There is plenty of standing timber on the property

Chaine saw listed 7 B is neaded for falling and euting to lengths

Form MF-103
(Revised June 1951)

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.

OCT 12 2 01 PM '51

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. dmm 2149
Metal or Mineral
Date Received 10-12-51
Amount $
Participation (Government %)

H.F.CRUTCHLEY
KETCHUM, IDAHO

Name and address of applicant

Date OCT I, 1951

If you have already filed MF-100, give date filed _____, type of assistance requested 50%,

DMA Docket Number (if available) _____

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(Name of company)

By [illegible]
(Signature of authorized official)

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(Date)

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FORM-MF-103

200' to 1"

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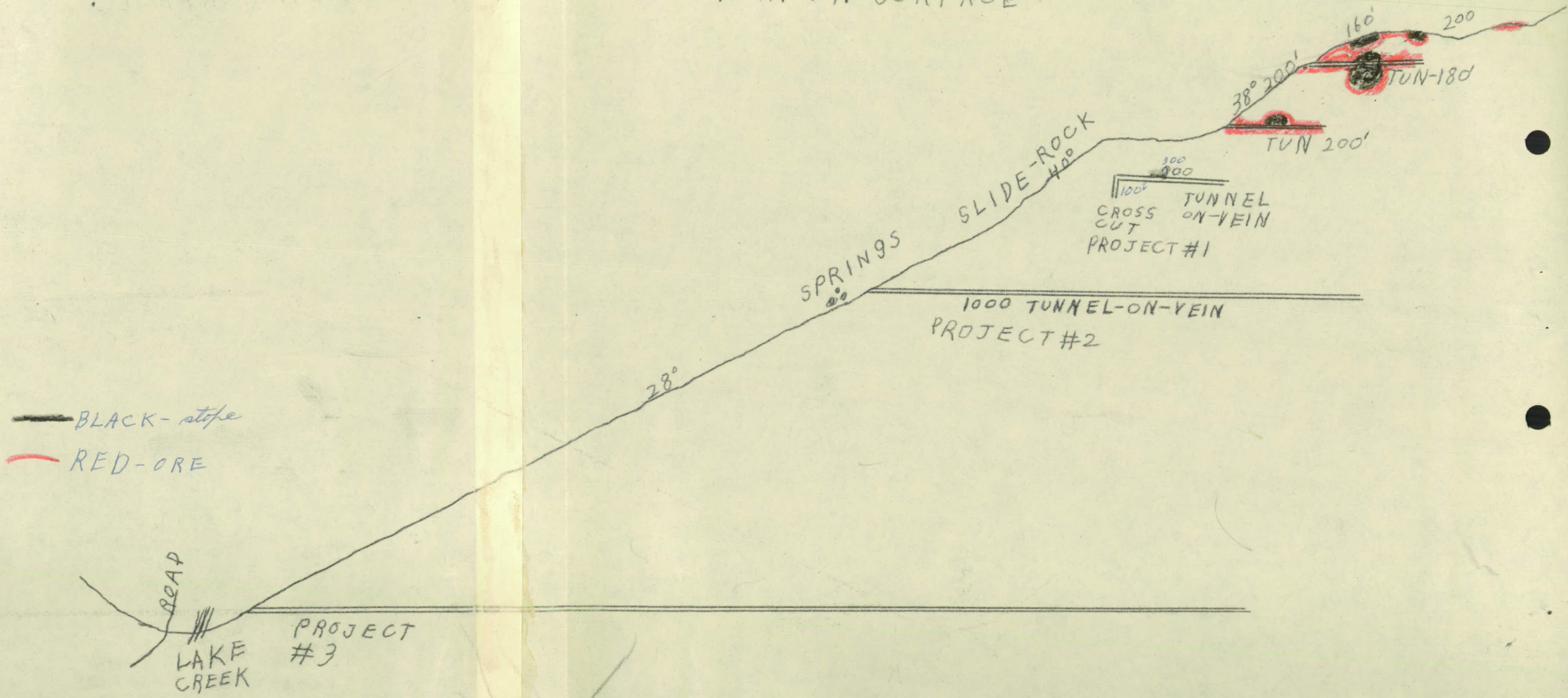

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MAGNETIC

FORM-MF-103
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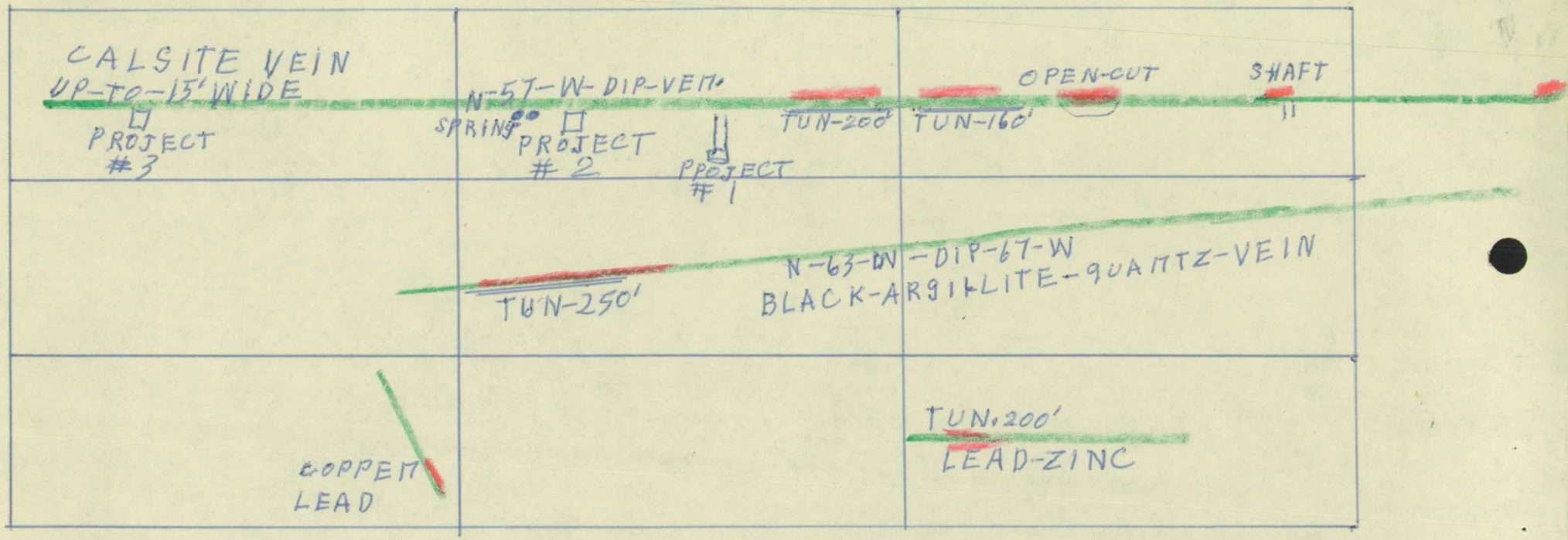
9-BIG-DOE
CLAIMS



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RED — ORE

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GRAND TOTAL $75,743

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lamp carbide	I5

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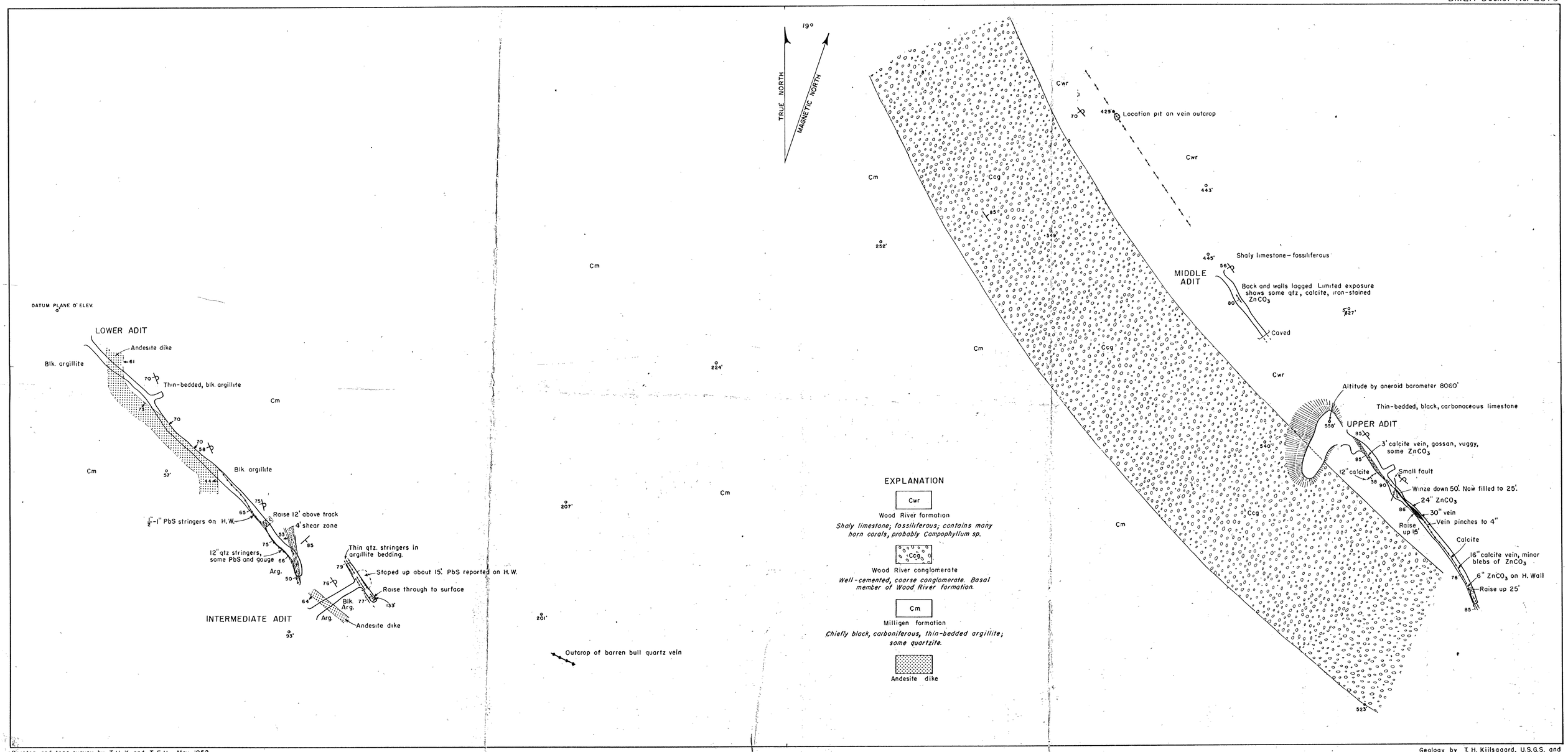

Brunton and tape survey by T. H. K. and T. E. H., May, 1952

GEOLOGIC MAP OF THE BIG DOE PROPERTY, BLAINE COUNTY, IDAHO

Geology by T. H. Kiilsgaard, U.S.G.S. and T. E. Howard, U.S.B.M., May 29, 1952.