224 New Customhouse
Denver 2, Colorado

August 6, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 1470X (Lead-Zinc), Dutchman Zinc-Lead Mine, Utah County, Utah

Enclosed are four copies of the final report on DMA-1470X.

The operator requested that his application be cancelled.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

W.H.K.

Enclosure

HMC:fwo

cc: Subject
Chron

224 New Customhouse
Denver 2, Colorado

July 25, 1952

Mr. Willard Cleghorn
American Fork, Utah

Dear Mr. Cleghorn:

Your letter dated July 21, 1952, to Mr. Wilson requesting that your application be cancelled has been forwarded to this office.

In accordance with your request we have placed your application in our inactive file.

Yours very truly,

W. H. King

W. H. King
Executive Officer
Field Team, Region IV

JFS:ld JFS

cc: Docket, Curon,
Koschmann
Wilson

WD
AMC

224 New Customhouse
Denver 2, Colorado

July 25, 1952

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Cancellation of Exploration Project, DMA 1470X, Willard Cleghorn (Lead-Zinc)

Enclosed is a copy of a letter from Willard Cleghorn requesting that application, Docket DMA 1470X, be cancelled. We have accordingly placed the application in our inactive file.

W. H. King
W. H. King

Enclosure
Copy

cc: Docket, [illegible]
Koschmann
Wilson

Mining Division
Date Rec'd
JUL 23 1952
BUREAU OF MINES
Denver, Colorado

C O P Y

American Fork, Utah
July 21, 1952

Mr. Wilson
Bureau of Mines
1600 East 1st South Street
Salt Lake City, Utah

Re: Dutchman Mine Leasers

Dear Mr. Wilson

I am finding it difficult to raise our share of the money to complete the development work that was proposed in the plan submitted with our application for a loan to the DMEA for the development of our property in American Fork Canyon.

Please cancel the application for the loan. If we are able to raise the money in the future we will resubmit it.

Yours truly

Dutchman Mine Leasers

By /S/ Willard Cleghorn General partner

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
JUL 14 1952
BUREAU OF MINES
Denver, Colorado

July 10, 1952

Memorandum

To: W. H. King, Acting Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA-1470, Dutchman Mine Leasers, Whirlwind mine, American Fork district, Utah County, Utah

Willard Cleghorn, applicant under the subject docket, has advised this office verbally that he wishes to withdraw his application from further loan consideration. Official request will be made by letter at a later date.

Stephen R. Wilson

Stephen R. Wilson

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

July 10, 1952

Memorandum

To: W. H. King, Acting Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA-1470, Dutchman Mine Leasers, Whirlwind mine, American Fork district, Utah County, Utah

Willard Cleghorn, applicant under the subject docket, has advised this office verbally that he wishes to withdraw his application from further loan consideration. Official request will be made by letter at a later date.

Stephen R. Wilson

Stephen R. Wilson

224 New Customhouse
Denver 2, Colorado

January 28, 1952

Memorandum

To: R. E. Moulds, Acting Chief, Base Metals Division
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Docket 1470K, Willard Cleghorn, Miller Mine, American Fork, Utah, Your memorandum January 15, 1952.

During October we requested information concerning the partnership involved in the subject docket. Upon receipt of this information we will proceed with the preparation of the contract.

J. H. East, Jr.

J. H. East, Jr.

WHK:jk W.H.K.

cc: Docket, chron.
Rothemyre
Wilson

1471

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 1/16/52

REFERRED TO:

1. king
2.
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	..... Referring to .....
..... Conference	..... Reply for signature of .....
..... Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS: Letter from D. E. Moulds requesting status of Docket 1470X, Willard Cleghorn.

Check (X) before the items needing attention.

Initials of sender.

GPO 16—51162-1

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

JAN 15 1952

REGIONAL DIRECTOR'S OFFICE, REGION IV
JAN 16 1952
BUREAU OF MINES
DENVER, COLORADO

Mr. J. H. East, Jr.
Executive Officer, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket 1470X
Willard Cleghorn
Miller Mine
American Fort, Utah

Dear Mr. East:

We have your memorandum of October 8, 1951, stating that contract is awaiting Form MF-201 from the applicant.

In order to bring our records up-to-date, we will appreciate information as to the present status of the application.

Sincerely yours,

D E Moulds
D. E. Moulds, Acting Chief
Base Metals Division
Defense Minerals Exploration
Administration

Lien in favor of U.S. Smelting Refining and Mining Co. in the amount of $28.358.46
U.S. won't sign subordination agreement until contract is completed
Can not complete contract until applicant send information regarding legal entity of partnership, requested in October.

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

JAN 15 1952

OFFICE
REGION IV
JAN 16 1952

Mr. J. H. East, Jr.
Executive Officer, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket 1470X
Willard Cleghorn
Miller Mine
American Fork, Utah

Dear Mr. East:

We have your memorandum of October 8, 1951, stating that contract is awaiting Form DF-201 from the applicant.

In order to bring our records up-to-date, we will appreciate information as to the present status of the application.

Sincerely yours,

D. E. Moulds, Acting Chief
Base Metals Division
Defense Minerals Exploration
Administration

DEMoulds/bmj
1-11-52
cc to: Adm. H. File
Docket File Copy
Mr. Bishop
Mr. McKnight
Mr. Moulds
Region IV

Mining Division
Date Rec'd.
OCT 10 1951
BUREAU OF MINES
Denver, Colorado

October 8, 1951

Memorandum

To: Paul T. Allsman, Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA Docket 1470X, Dutchman Mine Leasers, Utah County, Utah. Memorandum from J. H. East, Jr., dated October 2, 1951

Mr. Holbrook, attorney for U. S. Smelting, Refining and Mining Co. at Salt Lake City, telephoned this office today concerning completion of Mortgagee Subordination Agreement on the subject property. It appears that they will sign the agreement, but do not wish to do so until the Exploration Project Contract is actually completed.

Please advise me concerning the contract.

Stephen R. Wilson

MF-200
(June 1951)

Docket No. DMA 1470 X
Commodity Lead-zinc
Copper pilot

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Dutchman Mine Leagers
c/o Willard Clayton, Managing Partner
254 West 1st South
American Fork, Utah
hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Utah, County of Utah described as follows: [3] See attached sheet

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: Lien in favor of United States Smelting Refining and Mining Co. in the amount of $28,038.46

~~(b) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached~~.

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] Lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] 8 months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $ 10,000.00, which is 50 percent of the agreed estimated total cost of this project, $ 20,000.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ----------

By ----------

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

MF-200 14707

Butchman Mine Lessors

2. The following unpatented claims:

The Pearl group of mining claims Nos 1 to 10 inclusive held by Butchman Mine Lessors under quit claim deed dated April 17, 1948 from R. W. Smith and H. O. Nichols, ~~situated~~ adjacent to and northwesterly from Mineral Butchman Lot No. 68 including the following:

Pearl Nos. 1, 2, & 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 323

Pearl No. 4 and No. 5 the location notices which claims are recorded in the records of Utah County Recorder of Utah County in Book 325, page 324

Pearl No. 6 the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325 page 324-5

A group of claims located in the name of Butchman Mine Lessors by Willard Clayton which form a northwesterly extension of the above named Pearl claims

namely:

Pearl Nos. 7, 8, 9, and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 306 pages 153, 154, 155, 156, and 157

All the Camp Bird group of unpatented lode mining claims held by Gustelman Nine Leasers under quit claim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Gustelman Dist, Survey No. 5890, including the following:

Camp Bird Nos. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 421.

Camp Bird Nos. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 505

$$8 \overline{)625}^{\,8}$$

$$625 \overline{)20000}^{\,3}$$

Exhibit A

Exploration Project

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. The portal of the proposed adit is approximately 100 feet above and 300 feet N. 8° W. of the Whitewind tunnel. The adit will be advanced a distance of approximately 500 feet depending upon mineralization encountered. Approximately 125 feet of crosscuts and raises will be driven. The locations of the crosscuts and raises will be agreed upon by the applicant and a representative of the Geological Survey ~~and~~ or the Bureau of Mines after part or all of the tunnel is driven. The location of the proposed adit is shown on the attached map.

The estimated working time is 8 months.

(2)

The following costs are estimated.

Labor and Supervision	$11315.20
Depreciation of Equipment	$968.80
~~Purchase of equipment~~	
Supplies	6756.00
~~Building~~ Construction road	960.00
Total	20000.00

Fixtures and Improvements

None

Operating Equipment

To be rented:

Bulldozer with operator 12, 8-hr. days @ $10/hr $960.00

To be purchased:

None

Owned by applicant for which depreciation is allowed:

Item	Value
1 WB Gardner-Denver compressor, 115 c.f.m. powered by International gasoline engine	2340.00
1 Stoper 99#	645.00
1 D-73 Gardner-Denver drifter	550.00
1 S-45 " " jackhammer	325.00
1 C-10 Cleveland sinker	250.00
1 2-Ton 1949 Chevrolet flat-bed truck	2300.00
1 American blower powered by 20 HP gasoline engine	500.00
1 Mine car	150.00
1 Drill column and cross arm	206.00
	$7266.00

Allowable depreciation ~~per~~ $121.10 per month

Depreciation for 8 months $968.80

Supplies

Explosives	2500.00
Timber	1200.00
Fuel and oil	1500.00
Drill steel & bits	856.00
Small tools	300.00
Pipe fittings & misc. supplies	400.00
	6756.00

Labor and Supervision

3 miners @ $1.65/hr*

1 miner and supervisor @ $1.85/hr*

*Based on an 8-hour day, 5-day week. Time and one half ~~allowed~~ for the sixth day.

Estimated labor charge $353.60 per week or $11,315.20 for 8 months

MF-200
(June 1951)

Docket No. DMA 1470X
Commodity Lead-Zinc
Copper, silver

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Dutchman Mine Lessors
c/o Millard Cleghorn, Managing Partner
254 East 1st South
American Fork, Utah
hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Utah, County of Utah described as follows: [3]

See attached sheet

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: Lien in favor of United States Smelting, Refining and Mining Co. in the amount of $28,358.16

~~(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] 8 months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

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[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

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13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $10,000.00, which is 50 percent of the agreed estimated total cost of this project, $20,000.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Docket DMA-1470X

Question No. 2 - Form MF-200

Dutchman Mine Leasers

2. The following unpatented claims:

The pearl group of mining claims Nos. 1 to 10 inclusive, held by Dutchman Mine Leasers under quit claim deed dated A pril 17, 1948, from R. W. Smith and H. O. Nichols, adjacent to and northwesterly from Wild Dutchman Lot No. 68, including the following:

Pearl Nos. 1, 2 and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 323.

Pearl No. 4 and No. 5 , the location notices of which claims are recorded in the records of Utah County Recorder of Utah County in Book 325, page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325, page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Willard Cleghorn which form a northeasterly extension of the above named Pearl claims, namely:

Pearl Nos. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506, pages 153, 154, 155, 156 and 157.

All the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quit claim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following:

Camp Bird Nos. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 421.

Camp Bird Nos. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah C ounty in Book 325, page 505

EXHIBIT "A"

Exploration Project

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. The portal of the proposed adit is approximately 100 feet above and 300 feet N. 8° E. of the Whirlwind Tunnel. The adit will be advanced northwest approximately 500 feet depending upon mineralization encountered. Approximately 125 feet of crosscuts and raises will be driven. The locations of the crosscuts and raises will be agreed upon by the applicant and a representative of the Geological Survey or the Bureau of Mines after part or all of the tunnel is driven. The location of the proposed adit is shown on the attached map.

The estimated working time is 8 months.

The following costs are estimated:

Labor and supervision	$11,315.20
Depreciation of equipment	968.80
Supplies	6,756.00
Constructing road	960.00
Total -	$20,000.00

Fixtures and Improvements

None.

Operating Equipment

To be rented:

Bulldozer with operator - 12 eight hour days @ $10/hr. - $960.00

To be purchased:

None

Owned by applicant for which depreciation is allowed:

Item	Value
1 WB Gardner-Denver compressor, 115 c.f.m., powered by International gasoline engine	$ 2,340.00
1 Stoper - 99#	645.00
1 D-73 Gardner-Denver drifter	550.00
1 S-45 Gardner-Denver jackhammer	325.00
1 C-10 Cleveland spader	250.00
1 2-ton 1949 Chevrolet flat bed truck	2,300.00
1 American blower powered by 20 HP gasoline engine	500.00
1 Mine car	150.00
1 Drill column and cross arm	206.00
	$7,266.00

Allowable depreciation $121.10 per month.

Depreciation for 8 months - $968.80

Supplies

Explosives	$2,500.00
Timber	1,200.00
Fuel and oil	1,500.00
Drill steel and bits	834.00
Small tools	500.00
Pipe fittings and misc. supplies	400.00
Total -	$6,734.00

Labor and Supervision

3 miners @ $1.65/hr.*
1 miner and supervisor @ $1.85/hr.*

*Based on an 8-hour day, 5-day week, time and one-half for the sixth day.
Estimated labor charge $353.60 per week or $11,315.20 for 8 months.

MF-200
(June 1951)

Docket No. DMA 1470X
Commodity Lead-Zinc
Copper, silver

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Dutchman Mine Lessors
c/o Willard Cleghorn, Managing Partner
254 West 1st South
American Fork, Utah
hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Utah, County of Utah described as follows: [3]

See attached sheet

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: Lien in favor of United States Smelting, Refining and Mining Co. in the amount of $28,358.46

~~(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] 8 months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $10,000.00, which is 50 percent of the agreed estimated total cost of this project, $20,000.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By _____

By _____

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Docket DMA-1470X

Question No. 2 - Form MF-209

Dutchman Mine Lessors

2. The following unpatented claims:

The pearl group of mining claims Nos. 1 to 10 inclusive, held by Dutchman Mine Lessors under quit claim deed dated April 17, 1948, from E. W. Smith and H. C. Nichols, adjacent to and northwesterly from Wild Dutchman Lot No. 68, including the following:

Pearl Nos. 1, 2 and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 323.

Pearl No. 4 and No. 5 , the location notices of which claims are recorded in the records of Utah County Recorder of Utah County in Book 325, page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325, page 324-5.

A group of claims located in the name of Dutchman Mine Lessors by Willard Clagborn which form a northeasterly extension of the above named Pearl claims, namely:

Pearl Nos. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 306, pages 153, 154, 155, 156 and 157.

All the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Lessors under quit claim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 164 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following:

Camp Bird Nos. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 421.

Camp Bird Nos. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah C ounty in Book 325, page 505

EXHIBIT "A"

Exploration Project

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. The portal of the proposed adit is approximately 100 feet above and 300 feet N. 6° E. of the Whirlwind Summit. The adit will be advanced northwest approximately 500 feet depending upon mineralization encountered. Approximately 125 feet of crosscuts and raises will be driven. The locations of the crosscuts and raises will be agreed upon by the applicant and a representative of the Geological Survey or the Bureau of Mines after part or all of the tunnel is driven. The location of the proposed adit is shown on the attached map.

The estimated working time is 6 months.

The following costs are estimated:

Labor and supervision	$ 11,315.20
Depreciation of equipment	968.80
Supplies	6,756.00
Constructing road	960.00
Total -	$20,000.00

Fixtures and Improvements

None.

Operating Equipment

To be rented:

Bulldozer with operator - 12 eight hr. days @ $10/hr. - $960.00

To be purchased:

None.

Owned by applicant for which depreciation is allowed:

Item	Value
1 WB Gardner-Denver compressor, 115 c.f.m., powered by International gasoline engine	$ 2,340.00
1 Stoper - 99#	645.00
1 D-73 Gardner-Denver drifter	590.00
1 S-45 Gardner-Denver jackhammer	325.00
1 G-10 Cleveland spader	250.00
1 2-ton 1949 Chevrolet flat bed truck	2,300.00
1 American blower powered by 20 HP gasoline engine	500.00
1 Mine car	150.00
1 Drill column and cross arm	206.00
	$7,306.00

Allowable depreciation $121.10 per month.

Depreciation for 8 months - $968.80

Supplies

Explosives	$2,500.00
Timber	1,200.00
Fuel and oil	1,500.00
Drill steel and bits	856.00
Small tools	300.00
Pipe fittings and misc. supplies	400.00
Total -	$6,756.00

Labor and Supervision

3 miners @ $1.65/hr.*
1 miner and supervisor @ $1.85/hr.*

*Based on an 8-hour day, 5-day week, time and one-half for the sixth day.
Estimated labor charge $353.60 per week or $11,315.20 for 8 months.

MF-200
(June 1951)

Docket No. DMA 1470X
Commodity Lead-Zinc
Copper, silver

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2]

Dutchman Mine Leasers
c/o Willard Cleghorn, Managing Partner
254 West 1st South
American Fork, Utah

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Utah, County of Utah described as follows: [3]

See attached sheet

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: Lien in favor of United States Smelting, Refining and Mining Co. in the amount of $28,358.46

~~(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] 8 months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $10,000.00, which is 50 percent of the agreed estimated total cost of this project, $20,000.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ----------

By ----------

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Docket DMA-1470X

Question No. 2 - Form MF-200

Dutchman Mine Leasers

2. The following unpatented claims:

The Pearl group of mining claims Nos. 1 to 10 inclusive, held by Dutchman Mine Leasers under quit claim deed dated April 17, 1948, from R. W. Smith and H. O. Nichols, adjacent to and northwesterly from Wild Dutchman Lot No. 68, including the following:

Pearl Nos. 1, 2 and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 323.

Pearl No. 4 and No. 5, the location notices of which claims are recorded in the records of Utah County Recorder of Utah County in Book 325, page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325, page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Willard Cleghorn which form a northeasterly extension of the above named Pearl claims, namely:

Pearl Nos. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506, pages 153, 154, 155, 156 and 157.

All the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quit claim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following:

Camp Bird Nos. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 421.

Camp Bird Nos. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 505.

EXHIBIT "A"

Exploration Project

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. The portal of the proposed adit is approximately 100 feet above and 300 feet N. 8° W. of the Whirlwind Tunnel. The adit will be advanced northwest approximately 500 feet depending upon mineralization encountered. Approximately 125 feet of crosscuts and raises will be driven. The locations of the crosscuts and raises will be agreed upon by the applicant and a representative of the Geological Survey or the Bureau of Mines after part or all of the tunnel is driven. The location of the proposed adit is shown on the attached map.

The estimated working time is 8 months.

The following costs are estimated:

Labor and supervision	$11,315.20
Depreciation of equipment	968.80
Supplies	6,756.00
Constructing road	960.00
Total -	$20,000.00

Fixtures and Improvements

None.

Operating Equipment

To be rented:

Bulldozer with operator - 12 eight hour days @ $10/hr. - $960.00

To be purchased:

None

Owned by applicant for which depreciation is allowed:

Item	Value
1 WB Gardner-Denver compressor, 115 c.f.m., powered by International gasoline engine	$2,340.00
1 Stoper - 99#	645.00
1 D-73 Gardner-Denver drifter	550.00
1 S-45 Gardner-Denver jackhammer	325.00
1 C-10 Cleveland spader	250.00
1 2-ton 1949 Chevrolet flat bed truck	2,300.00
1 American blower powered by 20 HP gasoline engine	500.00
1 Mine car	150.00
1 Drill column and cross arm	206.00
	$7,266.00

Allowable depreciation $121.10 per month.

Depreciation for 8 months - $968.80

Supplies

Explosives	$2,500.00
Timber	1,200.00
Fuel and oil	1,500.00
Drill steel and bits	856.00
Small tools	300.00
Pipe fittings and Misc. supplies	400.00
Total -	$6,756.00

Labor and Supervision

3 miners @ $1.65/hr.*
1 miner and supervisor @ $1.85/hr.*

*Based on an 8-hour day, 5-day week, time and one-half for the sixth day.
Estimated labor charge $353.60 per week or $11,315.20 for 8 months.

F-200
(June 1951)

Docket No. DMA 1470X
Commodity Lead-Zinc
Copper, silver

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Dutchman Mine Lessors
c/o Millard Clagborn, Managing Partner
254 East 1st South
American Fork, Utah
hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Utah, County of Utah described as follows: [3] See attached sheet

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: Lien in favor of United States Smelting, Refining and Mining Co. in the amount of $28,358.46

~~(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] 6 months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $10,000.00, which is 50 percent of the agreed estimated total cost of this project, $20,000.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Docket DMA-1470X

Question No. 2 - Form MF-200

Dutchman Mine Leasers

2. The following unpatented claims:

The pearl group of mining claims Nos. 1 to 10 inclusive, held by Dutchman Mine Leasers under quit claim deed dated A pril 17, 1948, from R. W. Smith and H. O. Nichols, adjacent to and northwesterly from Wild Dutchman Lot No. 68, including the following:

Pearl Nos. 1, 2 and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 323.

Pearl No. 4 and No. 5 , the location notices of which claims are recorded in the records of Utah County Recorder of Utah County in Book 325, page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325, page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Willard Cleghorn which form a northeasterly extension of the above named Pearl claims, namely:

Pearl Nos. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506, pages 153, 154, 155, 156 and 157.

All the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quit claim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following:

Camp Bird Nos. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 421.

Camp Bird Nos. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah C ounty in Book 325, page 505

EXHIBIT "A"

Exploration Project

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. The portal of the proposed adit is approximately 100 feet above and 300 feet N. 8° W. of the Whirlwind Tunnel. The adit will be advanced northwest approximately 500 feet depending upon mineralization encountered. Approximately 125 feet of crosscuts and raises will be driven. The locations of the crosscuts and raises will be agreed upon by the applicant and a representative of the Geological Survey or the Bureau of Mines after part or all of the tunnel is driven. The location of the proposed adit is shown on the attached map.

The estimated working time is 8 months.

The following costs are estimated:

Labor and supervision	$11,315.20
Depreciation of equipment	968.80
Supplies	6,756.00
Constructing road	960.00
Total -	$20,000.00

Fixtures and Improvements

None.

Operating Equipment

To be rented:

Bulldozer with operator - 12 eight hour days @ $10/hr. - $960.00

To be purchased:

None

Owned by applicant for which depreciation is allowed:

Item	Value
1 WH Gardner-Denver compressor, 115 c.f.m., powered by International gasoline engine	$ 2,340.00
1 Stoper - 99#	645.00
1 D-73 Gardner-Denver drifter	550.00
1 S-45 Gardner-Denver jackhammer	325.00
1 C-10 Cleveland spader	250.00
1 2-ton 1949 Chevrolet flat bed truck	2,300.00
1 American blower powered by 20 HP gasoline engine	500.00
1 Mine car	150.00
1 Drill column and cross arm	206.00
	$7,266.00

Allowable depreciation $121.10 per month.

Depreciation for 8 months - $968.80

Supplies

Explosives	$2,500.00
Timber	1,200.00
Fuel and oil	1,500.00
Drill steel and bits	856.00
Small tools	300.00
Pipe fittings and misc. supplies	400.00
Total -	$6,756.00

Labor and Supervision

3 miners @ $1.65/hr.*
1 miner and supervisor @ $1.85/hr.*

*Based on an 8-hour day, 5-day week, time and one-half for the sixth day.
Estimated labor charge $353.60 per week or $11,315.20 for 8 months.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd
FEB 15 1952
Bureau of Mines
Denver, Colorado

February 15, 1952

Memorandum

To: W. H. King, Acting Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA-1470X, Willard Cleghorn, Dutchman Mine Leasers, Utah County, Utah.

Mr. Willard Cleghorn called at this office February 11, 1952, as requested in recent letters to him concerning the subject docket.

He possesses an agreement with the various partners in the group apparently giving him the right, as managing partner, to conduct operations on the subject property. However, inasmuch as two of the partners are deceased, and the property description does not accurately outline the property included under the subject docket, he stated that he will obtain a new agreement with the surviving partners and forward copies to this office upon completion.

Stephen R. Wilson

200
(1951)

Docket No. DMA 1470X
Commodity Lead-zinc-copper, silver

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2]

Dutchman Mine Leasers
c/o Willard Cleghorn, Managing Partner
254 West 1st South
American Fork, Utah

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Utah, County of Utah described as follows: [3]

See attached sheet

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: Lien in favor of United States Smelting, Refining and Mining Co. in the amount of $28,358.46.

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] Lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] 8 months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided*, That the aggregate total of all sums paid by the Government under this agreement shall not exceed $10,000.00, which is 50 percent of the agreed estimated total cost of this project, $20,000.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Docket DMA-1470X

Question No. 2 - Form MF-200

Dutchman Mine Leasers

2. The following unpatented claims:

The Pearl group of mining claims Nos. 1 to 10 inclusive, held by Dutchman Mine Leasers under quit claim deed dated April 17, 1948, from R. W. Smith and H. O. Nichols, adjacent to and northwesterly from Wild Dutchman Lot No. 68, including the following:

Pearl Nos. 1, 2 and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 323.

Pearl No. 4 and No. 5, the location notices of which claims are recorded in the records of Utah County Recorder of Utah County in Book 325, page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325, page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Willard Cleghorn which form a northeasterly extension of the above named Pearl claims, namely:

Pearl Nos. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506, pages 153, 154, 155, 156 and 157.

All the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quit claim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following:

Camp Bird Nos. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 421.

Camp Bird Nos. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 505.

EXHIBIT "A"

Exploration Project

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. The portal of the proposed adit is approximately 100 feet above and 300 feet N. 8° W. of the Whirlwind Tunnel. The adit will be advanced northwest approximately 500 feet depending upon mineralization encountered. Approximately 125 feet of crosscuts and raises will be driven. The locations of the crosscuts and raises will be agreed upon by the applicant and a representative of the Geological Survey or the Bureau of Mines after part or all of the tunnel is driven. The location of the proposed adit is shown on the attached map.

The estimated working time is 8 months.

The following costs are estimated:

Labor and supervision	$ 11,315.20
Depreciation of equipment	968.80
Supplies	6,756.00
Constructing road	960.00
Total -	$20,000.00

Fixtures and Improvements

None.

Operating Equipment

To be rented:

Bulldozer with operator - 12 eight hr. days @ $10/hr. - $960.00

To be purchased:

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Owned by applicant for which depreciation is allowed:

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Allowable depreciation $121.10 per month.

Depreciation for 8 months - $968.80

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Timber	1,200.00
Fuel and oil	1,500.00
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Labor and Supervision

3 miners @ $1.65/hr.*
1 miner and supervisor @ $1.85/hr.*

*Based on an 8-hour day, 5-day week, time and one-half for the sixth day.
Estimated labor charge $353.60 per week or $11,315.20 for 8 months.

Letter to Clayton
asking if portraiture is
needed

MF-200
(June 1951)

Docket No. DMA 1470X
Commodity Lead-zinc-copper, silver

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Dutchman Mine Leasers
c/o Willard Cleghorn, Managing Partner
254 West 1st South
American Fork, Utah
hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Utah, County of Utah described as follows: [3]

See attached sheet

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: Lien in favor of United States Smelting, Refining and Mining Co. in the amount of $28,358.46.

~~(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] 8 months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Address, and nature of organization if any.
[3] Description or enough to identify the property.
[4] Delete provision not applicable.
[5] Mineral.
[6] In excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $10,000.00, which is 50 percent of the agreed estimated total cost of this project, $20,000.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ----------

By ----------

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Docket DMA-1470X

Question No. 2 - Form MF-200

Dutchman Mine Leasers

2. The following unpatented claims:

The pearl group of mining claims Nos. 1 to 10 inclusive, held by Dutchman Mine Leasers under quit claim deed dated A pril 17, 1948, from R. W. Smith and H. O. Nichols, adjacent to and northwesterly from Wild Dutchman Lot No. 68, including the following:

Pearl Nos. 1, 2 and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 323.

Pearl No. 4 and No. 5 , the location notices of which claims are recorded in the records of Utah County Recorder of Utah County in Book 325, page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325, page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Willard Cleghorn which form a northeasterly extension of the above named Pearl claims, namely:

Pearl Nos. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506, pages 153, 154, 155, 156 and 157.

All the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quit claim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following:

Camp Bird Nos. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 421.

Camp Bird Nos. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah C ounty in Book 325, page 505

EXHIBIT "A"

Exploration Project

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. The portal of the proposed adit is approximately 100 feet above and 300 feet N. 8° W. of the Whirlwind Tunnel. The adit will be advanced northwest approximately 500 feet depending upon mineralization encountered. Approximately 125 feet of crosscuts and raises will be driven. The locations of the crosscuts and raises will be agreed upon by the applicant and a representative of the Geological Survey or the Bureau of Mines after part or all of the tunnel is driven. The location of the proposed adit is shown on the attached map.

The estimated working time is 8 months.

The following costs are estimated:

Labor and supervision	$ 11,315.20
Depreciation of equipment	968.80
Supplies	6,756.00
Constructing road	960.00
Total -	$20,000.00

Fixtures and Improvements

None.

Operating Equipment

To be rented:

Bulldozer with operator - 12 eight hr. days @ $10/hr. - $960.00

To be purchased:

None.

Owned by applicant for which depreciation is allowed:

Item	Value
1 WB Gardner-Denver compressor, 115 c.f.m., powered by International gasoline engine	$ 2,340.00
1 Stoper - 99#	645.00
1 D-73 Gardner-Denver drifter	550.00
1 S-45 Gardner-Denver jackhammer	325.00
1 C-10 Cleveland spader	250.00
1 2-ton 1949 Chevrolet flat bed truck	2,300.00
1 American blower powered by 20 HP gasoline engine	500.00
1 Mine car	150.00
1 Drill column and cross arm	206.00
	$7,266.00

Allowable depreciation $121.10 per month.

Depreciation for 8 months - $968.80

Supplies

Explosives	$2,500.00
Timber	1,200.00
Fuel and oil	1,500.00
Drill steel and bits	856.00
Small tools	300.00
Pipe fittings and misc. supplies	400.00
Total -	$6,756.00

Labor and Supervision

3 miners @ $1.65/hr.*
1 miner and supervisor @ $1.85/hr.*

*Based on an 8-hour day, 5-day week, time and one-half for the sixth day.
Estimated labor charge $353.60 per week or $11,315.20 for 8 months.

MT-200
(June 1951)

Docket No. DMA 1470X
Commodity Lead-zinc-copper, silver

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Dutchman Mine Lessors
c/o Willard Cleghorn, Managing Partner
254 West 1st South
American Fork, Utah
hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Utah, County of Utah described as follows: [3]

See attached sheet

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: Lien in favor of United States Smelting, Refining and Mining Co. in the amount of $28,358.16.

~~(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] Lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] 8 months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $10,000.00, which is 50 percent of the agreed estimated total cost of this project, $20,000.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ----------

By ----------

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Docket DMA-1470X

Question No. 2 - Form MF-200

Dutchman Mine Leasers

2. The following unpatented claims:

The Pearl group of mining claims Nos. 1 to 10 inclusive, held by Dutchman Mine Leasers under quit claim deed dated April 17, 1948, from R. W. Smith and H. O. Nichols, adjacent to and northwesterly from Wild Dutchman Lot No. 68, including the following:

Pearl Nos. 1, 2 and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 323.

Pearl No. 4 and No. 5, the location notices of which claims are recorded in the records of Utah County Recorder of Utah County in Book 325, page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325, page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Willard Cleghorn which form a northeasterly extension of the above named Pearl claims, namely:

Pearl Nos. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506, pages 153, 154, 155, 156 and 157.

All the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quit claim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following:

Camp Bird Nos. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 421.

Camp Bird Nos. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 505.

EXHIBIT "A"

Exploration Project

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. The portal of the proposed adit is approximately 100 feet above and 300 feet N. 8° W. of the Whirlwind Tunnel. The adit will be advanced northwest approximately 500 feet depending upon mineralization encountered. Approximately 125 feet of crosscuts and raises will be driven. The locations of the crosscuts and raises will be agreed upon by the applicant and a representative of the Geological Survey or the Bureau of Mines after part or all of the tunnel is driven. The location of the proposed adit is shown on the attached map.

The estimated working time is 8 months.

The following costs are estimated:

Labor and supervision	$ 11,315.20
Depreciation of equipment	968.80
Supplies	6,756.00
Constructing road	960.00
Total -	$20,000.00

Fixtures and Improvements

None.

Operating Equipment

To be rented:

Bulldozer with operator - 12 eight hr. days @ $10/hr. - $960.00

To be purchased:

None.

Owned by applicant for which depreciation is allowed:

Item	Value
1 WB Gardner-Denver compressor, 115 c.f.m., powered by International gasoline engine	$2,340.00
1 Stoper - 99#	645.00
1 D-73 Gardner-Denver drifter	550.00
1 S-45 Gardner-Denver jackhammer	325.00
1 C-10 Cleveland spader	250.00
1 2-ton 1949 Chevrolet flat bed truck	2,300.00
1 American blower powered by 20 HP gasoline engine	500.00
1 Mine car	150.00
1 Drill column and cross arm	206.00
	$7,266.00

Allowable depreciation $121.10 per month.

Depreciation for 8 months - $968.80

Supplies

Explosives	$2,500.00
Timber	1,200.00
Fuel and oil	1,500.00
Drill steel and bits	856.00
Small tools	300.00
Pipe fittings and Misc. supplies	400.00
Total -	$6,756.00

Labor and Supervision

3 miners @ $1.65/hr.*
1 miner and supervisor @ $1.85/hr.*

*Based on an 8-hour day, 5-day week, time and one-half for the sixth day.
Estimated labor charge $353.60 per week or $11,315.20 for 8 months.

IF-200
(June 1951)

Docket No. DMA [redacted]
Commodity [redacted]

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] [redacted]
hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of [redacted], County of [redacted] described as follows: [3] [redacted]
with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: [redacted]

~~(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within [redacted] days from the date of this contract shall commence work on a project of exploration for [5] [redacted]; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] [redacted] from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of ---50--- percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $---10,000.00---, which is ---50--- percent of the agreed estimated total cost of this project, $---20,000.00---.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Docket IMA-1470X

Question No. 2 - Form MF-200

Dutchman Mine Leasers

2. The following unpatented claims:

The pearl group of mining claims Nos. 1 to 10 inclusive, held by Dutchman Mine Leasers under quit claim deed dated April 17, 1948, from R. W. Smith and H. O. Michels, adjacent to and northwesterly from Wild Dutchman Lot No. 68, including the following:

Pearl Nos. 1, 2 and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 323.

Pearl No. 4 and No. 5 , the location notices of which claims are recorded in the records of Utah County Recorder of Utah County in Book 325, page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325, page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Willard Cleghorn which form a northeasterly extension of the above named Pearl claims, namely:

Pearl Nos. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506, pages 153, 154, 155, 156 and 157.

All the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quit claim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following:

Camp Bird Nos. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 421.

Camp Bird Nos. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah C ounty in Book 325, page 505

EXHIBIT "A"

Exploration Project

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. The portal of the proposed adit is approximately 100 feet above and 300 feet N. 8° W. of the Whirlwind Tunnel. The adit will be advanced northwest approximately 500 feet depending upon mineralization encountered. Approximately 125 feet of crosscuts and raises will be driven. The locations of the crosscuts and raises will be agreed upon by the applicant and a representative of the Geological Survey or the Bureau of Mines after part or all of the tunnel is driven. The location of the proposed adit is shown on the attached map.

The estimated working time is 8 months.

The following costs are estimated:

Labor and supervision	$11,315.20
Depreciation of equipment	968.80
Supplies	6,756.00
Constructing road	960.00
Total -	$20,000.00

Fixtures and Improvements

None.

Operating Equipment

To be rented:

Bulldozer with operator - 12 eight hour days @ $10/hr. - $960.00

To be purchased:

None

Owned by applicant for which depreciation is allowed:

Item	Value
1 WB Gardner-Denver compressor, 115 c.f.m., powered by International gasoline engine	$ 2,340.00
1 Stoper - 99#	645.00
1 D-73 Gardner-Denver drifter	550.00
1 S-45 Gardner-Denver jackhammer	325.00
1 C-10 Cleveland spader	250.00
1 2-ton 1949 Chevrolet flat bed truck	2,300.00
1 American blower powered by 20 HP gasoline engine	500.00
1 Mine car	150.00
1 Drill column and cross arm	206.00
	$7,266.00

Allowable depreciation $121.10 per month.

Depreciation for 8 months - $968.80

Supplies

Explosives	$2,500.00
Timber	1,200.00
Fuel and oil	1,500.00
Drill steel and bits	856.00
Small tools	300.00
Pipe fittings and misc. supplies	400.00
Total -	$6,756.00

Labor and Supervision

3 miners @ $1.65/hr.*
1 miner and supervisor @ $1.85/hr.*

*Based on an 8-hour day, 5-day week, time and one-half for the sixth day.
Estimated labor charge $353.60 per week or $11,315.20 for 8 months.

MF-209
(June 1951)

Docket No. DMA [redacted]
Commodity [redacted]

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] _____

[redacted]

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of [redacted], County of [redacted] described as follows: [3] _____

[redacted]

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: [redacted]

[redacted]

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within [redacted] days from the date of this contract shall commence work on a project of exploration for [5] [redacted]; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] [redacted] from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $10,000.00, which is 50 percent of the agreed estimated total cost of this project, $20,000.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ----------

By ----------

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Docket DMA-1470X

Question No. 2 - Form MF-200

Dutchman Mine Leasers

2. The following unpatented claims:

The pearl group of mining claims Nos. 1 to 10 inclusive, held by Dutchman Mine Leasers under quit claim deed dated A pril 17, 1948, from R. W. Smith and H. O. Nichols, adjacent to and northwesterly from Wild Dutchman Lot No. 68, including the following:

Pearl Nos. 1, 2 and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 323.

Pearl No. 4 and No. 5 , the location notices of which claims are recorded in the records of Utah County Recorder of Utah County in Book 325, page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325, page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Willard Cleghorn which form a northeasterly extension of the above named Pearl claims, namely:

Pearl Nos. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506, pages 153, 154, 155, 156 and 157.

All the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quit claim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following:

Camp Bird Nos. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 421.

Camp Bird Nos. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah C ounty in Book 325, page 505

EXHIBIT "A"

Exploration Project

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. The portal of the proposed adit is approximately 100 feet above and 300 feet N. 8° W. of the Whirlwind Tunnel. The adit will be advanced northwest approximately 500 feet depending upon mineralization encountered. Approximately 125 feet of crosscuts and raises will be driven. The locations of the crosscuts and raises will be agreed upon by the applicant and a representative of the Geological Survey or the Bureau of Mines after part or all of the tunnel is driven. The location of the proposed adit is shown on the attached map.

The estimated working time is 8 months.

The following costs are estimated:

Labor and supervision	$11,315.20
Depreciation of equipment	968.80
Supplies	6,756.00
Constructing road	960.00
Total -	$20,000.00

Fixtures and Improvements

None.

Operating Equipment

To be rented:

Bulldozer with operator - 12 eight hour days @ $10/hr. - $960.00

To be purchased:

None

Owned by applicant for which depreciation is allowed:

Item	Value
1 WB Gardner-Denver compressor, 115 c.f.m., powered by International gasoline engine	$ 2,340.00
1 Stoper - 99#	645.00
1 D-73 Gardner-Denver drifter	550.00
1 S-45 Gardner-Denver jackhammer	325.00
1 C-10 Cleveland spader	250.00
1 2-ton 1949 Chevrolet flat bed truck	2,300.00
1 American blower powered by 20 HP gasoline engine	500.00
1 Mine car	150.00
1 Drill column and cross arm	206.00
	$7,266.00

Allowable depreciation $121.10 per month.

Depreciation for 8 months - $968.80

Supplies

Explosives	$2,500.00
Timber	1,200.00
Fuel and oil	1,500.00
Drill steel and bits	856.00
Small tools	300.00
Pipe fittings and misc. supplies	400.00
Total -	$6,756.00

Labor and Supervision

3 miners @ $1.65/hr.*
1 miner and supervisor @ $1.85/hr.*

*Based on an 8-hour day, 5-day week, time and one-half for the sixth day.
Estimated labor charge $353.60 per week or $11,315.20 for 8 months.

3
UF-500
(June 1951)

Docket No. DMA 1470X
Commodity Lead-Zinc
Copper, silver

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2]

Dutchman Mine Leasers
c/o Willard Cleghorn, Managing Partner
254 West 1st South
American Fork, Utah

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Utah, County of Utah described as follows: [3]

See attached sheet

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: Lien in favor of United States Smelting, Refining and Mining Co. in the amount of $28,358.46

~~(b) That the property is not subject to any claim, lien, or encumbrance~~

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] 8 months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $10,000.00, which is 50 percent of the agreed estimated total cost of this project, $20,000.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Docket DMA-1470X

Question No. 2 - Form MF-200

Dutchman Mine Leasers

2. The following unpatented claims:

The Pearl group of mining claims Nos. 1 to 10 inclusive, held by Dutchman Mine Leasers under quit claim deed dated April 17, 1948, from R. W. Smith and H. O. Nichols, adjacent to and northwesterly from Wild Dutchman Lot No. 68, including the following:

Pearl Nos. 1, 2 and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 323.

Pearl No. 4 and No. 5, the location notices of which claims are recorded in the records of Utah County Recorder of Utah County in Book 325, page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325, page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Willard Cleghorn which form a northeasterly extension of the above named Pearl claims, namely:

Pearl Nos. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506, pages 153, 154, 155, 156 and 157.

All the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quit claim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following:

Camp Bird Nos. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 421.

Camp Bird Nos. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325, page 505.

EXHIBIT "A"

Exploration Project

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. The portal of the proposed adit is approximately 100 feet above and 300 feet N. 8° W. of the Whirlwind Tunnel. The adit will be advanced northwest approximately 500 feet depending upon mineralization encountered. Approximately 125 feet of crosscuts and raises will be driven. The locations of the crosscuts and raises will be agreed upon by the applicant and a representative of the Geological Survey or the Bureau of Mines after part or all of the tunnel is driven. The location of the proposed adit is shown on the attached map.

The estimated working time is 8 months.

The following costs are estimated:

Labor and supervision	$ 11,315.20
Depreciation of equipment	968.80
Supplies	6,756.00
Constructing road	960.00
Total -	$20,000.00

Fixtures and Improvements

None.

Operating Equipment

To be rented:

Bulldozer with operator - 12 eight hr. days @ $10/hr. - $960.00

To be purchased:

None.

Owned by applicant for which depreciation is allowed:

Item	Value
1 WB Gardner-Denver compressor, 115 c.f.m., powered by International gasoline engine	$2,340.00
1 Stoper - 99#	645.00
1 D-73 Gardner-Denver drifter	550.00
1 S-45 Gardner-Denver jackhammer	325.00
1 C-10 Cleveland spader	250.00
1 2-ton 1949 Chevrolet flat bed truck	2,300.00
1 American blower powered by 20 HP gasoline engine	500.00
1 Mine car	150.00
1 Drill column and cross arm	206.00
	$7,266.00

Allowable depreciation $121.10 per month.

Depreciation for 8 months - $968.80

Supplies

Explosives	$2,500.00
Timber	1,200.00
Fuel and oil	1,500.00
Drill steel and bits	856.00
Small tools	300.00
Pipe fittings and Misc. supplies	400.00
Total -	$6,756.00

Labor and Supervision

3 miners @ $1.65/hr.*
1 miner and superviser @ $1.85/hr.*

*Based on an 8-hour day, 5-day week, time and one-half for the sixth day.
Estimated labor charge $353.60 per week or $11,315.20 for 8 months.

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

RECEIVED
JUN 28 1951
BUREAU OF MINES
DENVER, COLO.

JUN 2 1951

Mr. J. H. East, Jr.
Executive Officer, DMA Field Team
Region IV
224 New Customhouse
Denver 2, Colorado

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. 1470X

Commodity Lead-zinc-copper

Applicant Dutchman Mine Leasers, c/o Willard Cleghorn, 254 West 1st St. American Fork, Utah

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Edwin T. McKnight
For Geological Survey

Brokaw for McKinney 6/5/51 Herzog

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1470X

Commodity Lead-zinc-copper

Total Amount $10,000

Govt. Participation 50%

1. Name and Address of Applicant Dutchman Mine Leasers
c/o Willard Cleghorn, 254 West 1st South Street, American Fork, Utah

2. Location of Property Whirlwind Mine, American Fork District, Utah County, Utah (20 miles NE of American Fork, Utah)

3. Mineral or metal Lead-zinc-copper 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:

a) Good

b) Poor

c) None

d) Don't know—needs field examination See attached statement

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

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

6. If applicant is a lessee, is a copy of the lease attached?

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

*question numbers are those of MF-103

MEMORANDUM concerning Docket DMA-1470X

Applicant: Dutchman Mine Leasers
Willard Cleghorn, Managing Partner

Location: Pearl and Camp Bird Groups of claims, Dutchman mine area, American Fork District, Utah County, Utah

4. (a) The area which the applicant wishes to explore consists of sedimentary rocks as follows:

> Jefferson dolomite (Devonian), and Deseret and Madison limestones (Mississippian, which occur as a downdropped wedge in fault contact with Ophir shale (Cambrian) to the west and to the north. Calkins and Butler (1943, U.S.G.S. Prof. Paper 201, p. 138) state that ore being mined from the Dutchman mine in the late 1930's and 1940's consisted of sulfides in breccia of limestone and altered dike rock, all permeated by blue-black muck. This writer states that the masses of ore may be parts of a larger amount of ore which has been broken into a number of pieces by faulting.

A field examination will be necessary to determine whether any possibility of further ore exists, inasmuch as the area was mined up to 1949 and data in hand are not up to date.

7. Are subordination agreements necessary? Yes

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)* Yes

_____

Is a field check needed on this point? _____

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? No - see attached statement

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? No

_____

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

If not, what part of it is? _____

_____

_____

_____

10. (a) The description in the application is not precise enough to determine where the applicant proposes to explore for ore extensions. The sketch map shows that he will be working to the northwest, yet the text indicates that he might work on the westward continuation. This will have to be clarified during the field examination.

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? Yes

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? Yes

(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 question? see attached statement

Reviewed by: Q. J. Bodenlos GS

Date 6/21/51

97692

17. It will be necessary to determine whether any extensions of ore occurring in the Dutchman Mine are possible on the adjacent claims. The location of the proposed project also should be clarified. The applicant states that engineers of the International Smelting and Refining Company and the United States Smelting, Refining, and Mining Company have examined the mine but did not submit written reports. The applicant does have geological mine maps which were not submitted with the application and which are available for inspection by the DMA Field Team.

A. J. Bodenlos

Motion for McKnight 6/5/51 Herrera

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1470X

Commodity Lead-zinc-copper

Total Amount $10,000

Govt. Participation 50%

1. Name and Address of Applicant Dutchman Mine Lessees

c/o Willard Cleghorn, 254 West 1st South Street, American Fork, Utah

2. Location of Property Whirlwind Mine, American Fork District, Utah County, Utah (20 miles NE of American Fork, Utah)

3. Mineral or metal Lead-zinc-copper 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:

a) Good

b) Poor

c) None

d) Don't know—needs field examination See attached statement

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

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

6. If applicant is a lessee, is a copy of the lease attached?

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

*question numbers are those of MF-103

MEMORANDUM concerning Docket DMA-1470X

Applicant: Dutchman Mine Leasers
Willard Cloghorn, Managing Partner

Location: Pearl and Camp Bird Groups of claims, Dutchman mine area, American Fork District, Utah County, Utah

4. (a) The area which the applicant wishes to explore consists of sedimentary rocks as follows:

> Jefferson dolomite (Devonian), and Deseret and Madison limestones (Mississippian, which occur as a downdropped wedge in fault contact with Ophir shale (Cambrian) to the west and to the north. Calkins and Butler (1943, U.S.G.S. Prof. Paper 201, p. 138) state that ore being mined from the Dutchman mine in the late 1930's and 1940's consisted of sulfides in breccia of limestone and altered dike rock, all permeated by blue-black muck. This writer states that the masses of ore may be parts of a larger amount of ore which has been broken into a number of pieces by faulting.

A field examination will be necessary to determine whether any possibility of further ore exists, inasmuch as the area was mined up to 1949 and data in hand are not up to date.

7. Are subordination agreements necessary? Yes

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? _____

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_____

Is a field check needed on this point? _____

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? No - see attached statement

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b) Is there an adequate map or sketch of the proposed work? No

_____

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

If not, what part of it is? _____

_____

_____

_____

10. (a) The description in the application is not precise enough to determine where the applicant proposes to explore for ore extensions. The sketch map shows that he will be working to the northwest, yet the text indicates that he might work on the westward continuation. This will have to be clarified during the field examination.

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?___Yes___

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? Yes

(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 question? see attached statement

Reviewed by: C. J. Bodenlos GS

Date 6/21/51

97692

17. It will be necessary to determine whether any extensions of ore occurring in the Dutchman Mine are possible on the adjacent claims. The location of the proposed project also should be clarified. The applicant states that engineers of the International Smelting and Refining Company and the United States Smelting, Refining, and Mining Company have examined the mine but did not submit written reports. The applicant does have geological mine maps which were not submitted with the application and which are available for inspection by the DMA Field Team.

A. J. Bodenlos

Shaw

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
OCT 10 1951
BUREAU OF MINES
Denver, Colorado

October 8, 1951

Memorandum

To: Paul T. Allsman, Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA Docket 1470X, Dutchman Mine Leasers, Utah County, Utah. Memorandum from J. H. East, Jr., dated October 2, 1951

Mr. Holbrook, attorney for U. S. Smelting, Refining and Mining Co. at Salt Lake City, telephoned this office today concerning completion of Mortgagee Subordination Agreement on the subject property. It appears that they will sign the agreement, but do not wish to do so until the Exploration Project Contract is actually completed.

Please advise me concerning the contract.

Stephen R. Wilson

Stephen R. Wilson

Defense Minerals Administration
Reference Slip

Date 6/6

To: 1. Hemex

2.

3.

4.

DMA 1470 X

For Action ✓
Reply
Information
Remarks:

Sender LANDON F. STROBEL
BTT

3
Mr. Strobel

DMA 1470 X

Forwarded to

Branch

Date

Sender

2
Mr. Strobel

DMA 1470X

Forwarded to

Branch

Date

Sender

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-1470X

Date received 6/4/51

Dutchman Mine Leasers
254 West 1st South c/o Willard Cleghorn, Managing Partner
American Fork, Utah

Name and address of applicant

Date May 12, 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) ~~Necessary certificate pursuant to the provisions of section 124 of the 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.

X

5

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 .....
   If not in production or operation, estimated date when production will begin .....
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.

JUN 1 1951

16—63792-1

13

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)
Willard Cleghorn 254 West 1st So. American	managing partner Fork, Utah	none	25,000.00	none	none	none	
D. Grant Ingersol American Fork, Utah	partner	"		"	"	"	
Murray Wilson RED. American Fork, Utah	partner	"		"	"	"	
Brown Ingersol Washington, D. C.	partner	"		"	"	"	
Stanley Cleghorn San Francisco, California	partner	"		"	"	"	
Kenneth Cleghorn Cherry Creek, Nevada	partner	"		"	"	"	
Blake Palfreyman Estate Provo, Utah	partner	"		"	"	"	
William W. Booth Estate Provo, Utah	partner	"		"	"	"	
Alma Bourne Salt Lake City, Utah	partner	"		"	"	"	
	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.)	no production under present lease				
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

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

12. Ore or Mineral Reserves:

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

Ref. U. S. Genl. Survey Prof. Paper 201

(*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.

E. Utehman Mine Lessors
(Name of company)

By Willard Clayhom
(Signature of authorized official)

May 20 1951
(Date)

Managing Lessee
(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

Supplement to MF-100

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

1. a. It is expected that lead, zinc, copper and silver bearing ores will be produced.

   b. None

2. Underground mine. Vein and bedding deposits anticipated. The Pearl group and Camp Bird group of mining claims owned by the Dutchman Mine Leasers, a partnership, originally known as the Whirlwind mine.

   a. None

   b. 200

   c. 1200

   d. 300 feet exploratory raises. No openings extend below the adit level, hence mine is drained. The adit tunnel is open about 500 feet and is caved in beyond that point. This tunnel in our opinion is in the wrong place for the development of the ore zone. We do not propose to use it. It is proposed some work be done on the surface with a bulldozer to remove overburden at point of ore croppings and to extend tunnel westerly along ore zone. No pumping problems are anticipated.

3. a. 20 miles Northeast of American Fork, Utah.

   b. American Fork Mining District

   c.

   d. Utah County, Utah

4. a. Only assessment work has been done. Mine is idle at present. Work is planned to begin in June 1951.

   b. Owner. Land was purchased from locators.

5. None. It is reported a small amount of ore was mined in early days when property was in the name of Whirlwind.

6. See attached statement.

7. a. A 1200 foot tunnel, 200 cross cuts and approximately 300 feet of raises have been driven but the work was done southerly from what appears to be the ore channel, with nothing of importance being developed. Judging from our experience of mining the ore bodies from the Dutchman Mine, the ore should continue westerly into this property and should be found at a higher elevation in the mountain than where the original work on this property was done.

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

7. b. The Wild Dutchman property forms the easterly sidelines to this group and has a substantial production dating from the 1870's with much of it since 1946. The following amounts have been mined by myself and associated during the period 1946 to 1949 while the Dutchman property was held under lease: 8,000 tons of ore were mined containing 1,564,107 pounds of lead, 3,483,839 pounds of zinc, 33,477 pounds of copper with about 72,000 ounces of silver and some gold of lesser value. The Dutchman ore chute made in an east-westerly fault zone which extends into the Pearl group of claims where this development is proposed. It is expected that metals of the same nature will be developed there.

c. Most of the ore produced in the Dutchman mine property has been within one hundred ninety feet of the sidelines of the Pearl group. The properties are so situated geologically and physically that they have to be considered as one. The engineers of the International Smelting and Refining Company and those of the United States Smelting, Refining and Mining Company have examined both properties during the periods of production for their respective companies, but submitted no written reports. A sheaf of mine maps showing geological conditions, mine arrangement, probable extensions, etc., is in my possession and should be examined by your engineer. They seem too voluminous to send in with this application. A small map is included herewith showing claim positions, etc.

8 - 12 Answered on Form MF-100

13. Hard surfaced road extends approximately twelve miles toward the property from American Fork, then three miles graded and graveled, with the last five miles improved mountain roads which will accomodate large trucks.

14. Ample good water is available for culinary use. No other use contemplated.

15. 11,000 volt high tension Utah Power & Light Company line to property.

16. Ample labor has been available in the past. Seems to be sufficient at present.

17. All necessary equipment for the development is now on hand. The equipment consists of compressor, pneumatic drills, pipe rails, cars, drill steel, hose, etc.

18. None

M.F. 100 # 6

STATEMENT OF EXPERIENCE OF OPERATORS:

The applicant has been mining for over thirty years:

1917 to 1921 - Globe Consolidated Mining Company of American Fork Canyon (miner machine runner)

1921 to 1929 - contracting tunnel and shaft at Park Utah Mine, Park City, Utah

1929 to 1931 - contracting all development work - Yankee Mines Company, American Fork Canyon

1932 to 1940 - Lessee-Operator Yankee Mine

1941 to 1944 - Operator-Owner - Cherry Creek Tungsten Mining Company, Cherry Creek, Nevada

1945 to 1949 - Lessee-Operator of Dutchman Mine, American Fork, Utah.

All of the above mentioned mines have a substantial production record. I personally managed the last three mentioned.

Willard Clyghorn

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-1470X

Date received 6/4/51

Participation

Dutchman Mine Leasers
c/o Willard Cleghorn, Managing Partner
254 West 1st South
American Fork, Utah

Name and address of applicant

Date May 12, 1951

FILL IN THIS BLOCK

Date of application May 12, 1951

Estimated cost $10,000.00

Mineral or metal Lead, silver, zinc, copper

Percentage of Government participation 50%

Location of mine American Fork Canyon

Date of filing MF-100 May 12, 1951

DMA Docket Number, if available none

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*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.

Dutchman Mine Leasers
(Name of company)

By Willard Clapham
(Signature of authorized official)

May 20 1951
(Date)

Managing Partner
(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

Supplement to MF-103

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

1. Partnership

2. Explained in MF-100 - No. 8

4. Applicant will manage the project. His mining experience is explained in Supplement to MF-100 No. 6

5. Owner

6. Lien in favor of United States Smelting, Refining and Mining Company in the amount of $28,358.46 Money borrowed for final development of Dutchman Mine, a property held under lease by above named partnership. Dutchman mine has since been abandoned and returned to its owner. The indebtedness still stands against Pearl and Camp Bird groups of claims owned by above named partnership.

7. Does not apply

8. Attached

9. $5,000.00 cash or its equivalent in equipment rental and/or labor to equal D.M.A. matching funds.

10. a. and b. The following lode mining claims constitute the area held in one parcel by the Dutchman Mine Leasers on which the proposed work for which application for matching funds for development is hereby made:

Pearl group of mining claims #1 to 10 both inclusive unpatented lode claims held by Dutchman Mine Leasers under quit claim deed dated April 17, 1948, from R. W. Smith and H. O. Nichols, situate and adjacent to and northwesterly from Wild Dutchman Lot No. 68 including the following space:

Pearl No. 1, 2, and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325 at page 323.

Pearl No. 4 and 5, the location notices of which claims are recorded in records of Utah County Recorder of Utah County in Book 325 at page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325 at page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Willard Cleghorn which form a northwesterly extension of the above named Pearl claims and form a part of them, namely:

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

Pearl No. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506 pages 153, 154, 155, 156 and 157.

All of the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quitclaim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following named claims:

Camp Bird No. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325 at page 421.

Camp Bird No. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325 page 505.

11. The recorded name of the partnership under which this work will be carried on and in whose name title to the above named mining claims rests, is Dutchman Mine Leasers. The property was originally known as the Whirlwind.

12. Explained in Supplement to MF-100 No. 3 a. b. and d. and in No. 13.

13. Spring water coming from tunnel is sufficient for all purposes.

14. All the equipment needed for the exploration work proposed is on hand including compressor, rock drills, pipe rails, and supplementary material.

15. Ore would be delivered by truck and rail to one of the custom mills or smelters in the Salt Lake Valley.

16. The property has no production record but one or two tunnels were driven into it because it is adjacent to Dutchman Mine which has been producing a good grade of lead, silver, zinc, copper ore. All of the work was done south and underneath what seems to us to be the ore channel. See also Supplement to MF-100 No. 7 a to c.

17. Not in production.

18. There are no developed reserves.

a. The ore that was mined in the adjoining property, Wild

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

Dutchman, occurred in an east-west fault zone where an intrusive mass had expanded the distance between foot and hang wall. The ore was a part of or had settled down in the porphyry. Some of the higher grade carbonate ores which were mined in early days were found in the limestones directly above the primary ore deposits which have been mined recently from the porphyries. See U. S. Geological Survey, Professional Paper 201, page 137, Dutchman Mine, and page 138 Whirlwind.

19. It is thought by the writer, the Whirlwind fault lying west of the tunnel is flat or nearly so, and that the Dutchman ore could continue westerly underneath this flat fault. If this assumption be true, vast amounts of ore could exist there. It is this probability that prompts us to explore it.

20. Lead, silver, zinc, copper in veins and/or beddings.

21. It is proposed that a road be built from the Yankee Mine road to a paint where surface croppings of lead, zinc ore are apparent, a distance of about fifteen hundred yards, then remove the overburden with the use of a caterpillar bulldozer to determine if ore is coming to the surface at this point and to extend a tunnel westward from the Dutchman Mine croppings into the Pearl group of claims.

22. The reason for expecting ore to be found is explained in the three preceeding paragraphs. Small maps are included herewith to supplement the foregoing.

23. Construction of road and removing overburden. Contract proposal:

12 days work with D-7 caterpillar tractor @ $10.00 per hour	$960.00
200 feet tunnel @ $25.00 per foot	5,000.00
150 feet crosscuts @ $25.00 per foot	3,750.00
Miscellaneous	290.00
Total	$10,000.00

Tunnel advance per shift - approximately 4 feet with four men required @ $14.00 per shift	56.00
Power per day	10.00
Per round for explosives	15.00
Per set of timber	10.00
Miscellaneous	9.00
Gross cost per shift with advance 4 feet or $25.00 per foot of advance	$100.00

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

24. This work can be completed by September or October of 1951, provided work is authorized to begin in June.

DUTCHMAN MINE LEASERS

254 West 1st South
American Fork, Utah

I have talked with the lien holders concerning the subordination of their claim in favor of the D.M.A. loan and they indicate to me that they are willing to subordinate if this becomes necessary.

The proper forms for filing this subordination of lien were not available in Salt Lake City at the time of filing, and if it is required, they will be provided at a later date.

DUTCHMAN MINE LEASERS

254 West 1st South
American Fork, Utah

FINANCIAL STATEMENT

Purchase price of Pearl Group and Camp Bird Group of mining claims. . . . . $ 3,700.00

Amount owed to United States Smelting, Refining & Mining Company, Salt Lake City, Utah 28,358.46

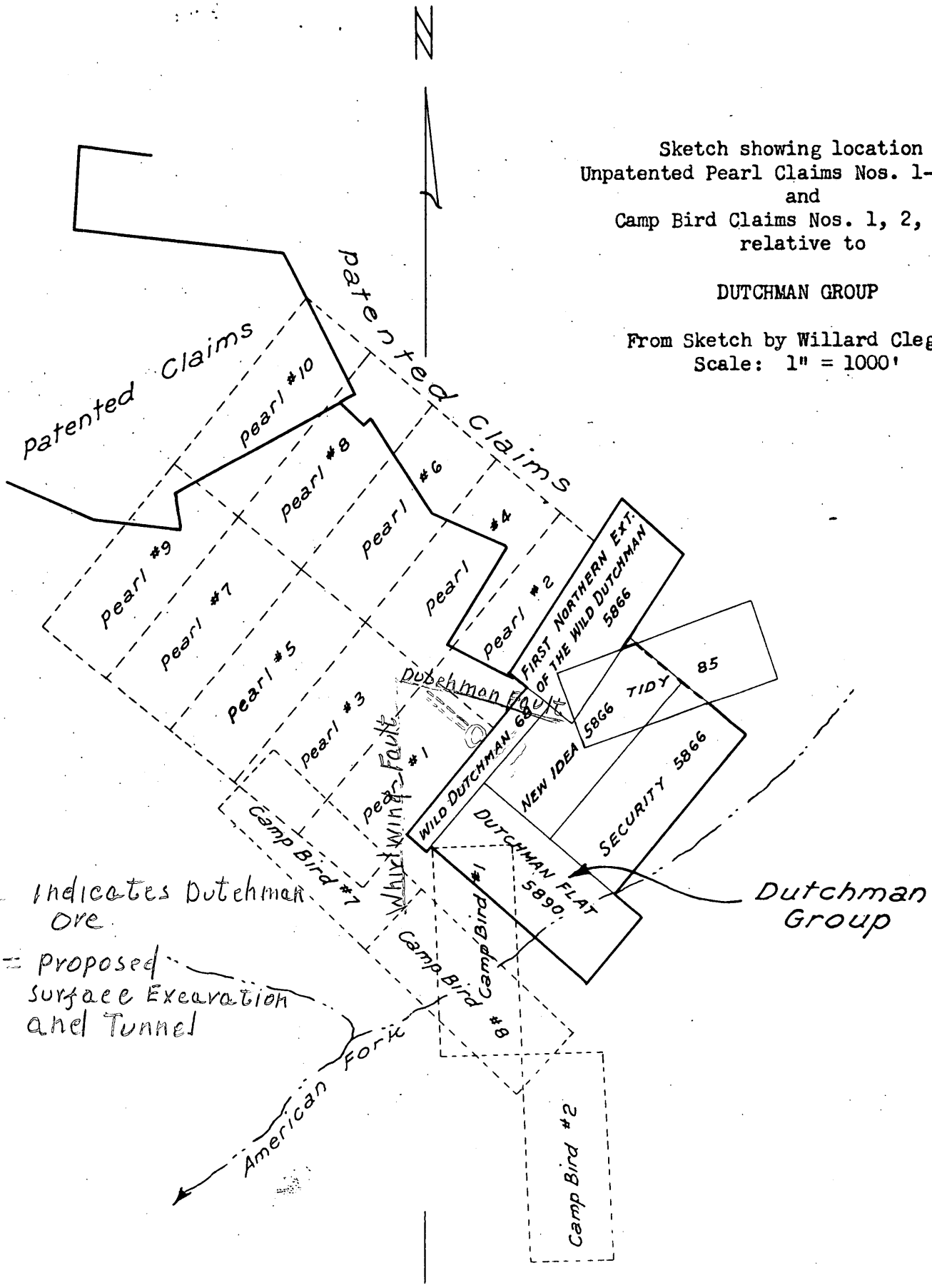
This amount advanced by the United States Smelting, Refining & Mining Company was spent on the Dutchman Mine claims and these above claims were used as collateral. Since that transaction, the Dutchman claims have been dropped and returned to their owner. The total obligation is now charged against the above group of mining claims, which, however, is not repayable unless ore is developed and profit in sufficient amount derived therefrom to repay this indebtedness to the United States Smelting, Refining & Mining Company.

There has been no work done on the above group by the Dutchman Mine Leasers; hence there has no profit or loss.

Sketch showing location of
Unpatented Pearl Claims Nos. 1-10, incl.
and
Camp Bird Claims Nos. 1, 2, 7 & 8
relative to

DUTCHMAN GROUP

From Sketch by Willard Cleghorn
Scale: 1" = 1000'



Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Oma - 1470 X

Date received 6/4/51

Dutchman Mine Leasers
254 West 1st South c/o Willard Cleghorn, Managing Partner
American Fork, Utah

Name and address of applicant

Date May 12, 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, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (X) 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.

5 GENERAL TECHNICAL DATA

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

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

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - [X] Owner.
   - [ ] Lessee.
   - [ ] Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
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)
Willard Cleghorn 254 West 1st So. American Fork, Utah	managing partner	none	25,000.00	none	none	none	
D. Grant Ingersol American Fork, Utah	partner	"		"	"	"	
Murray Wilson RED. American Fork, Utah	partner	"		"	"	"	
Brown Ingersol Washington, D. C.	partner	"		"	"	"	
Stanley Cleghorn San Francisco, California	partner	"		"	"	"	
Kenneth Cleghorn Cherry Creek, Nevada	partner	"		"	"	"	
Blake Palfreyman Estate Provo, Utah	partner	"		"	"	"	
William W. Booth Estate Provo, Utah	partner	"		"	"	"	
Alma Bourne Salt Lake City, Utah	partner	"		"	"	"	
	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.)	no production under present lease				
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

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

12. Ore or Mineral Reserves:

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

Ref. U. S. Geol. Survey Prof. Paper 201

(*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.

Dulchman Mine Leasers
(Name of company)

By Willard Clayhorn
(Signature of authorized official)

May 20 1951
(Date)

Managing partner
(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

Supplement to MF-100

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

1. a. It is expected that lead, zinc, copper and silver bearing ores will be produced.

   b. None

2. Underground mine. Vein and bedding deposits anticipated. The Pearl group and Camp Bird group of mining claims owned by the Dutchman Mine Leasers, a partnership, originally known as the Whirlwind mine.

   a. None

   b. 200

   c. 1200

   d. 300 feet exploratory raises. No openings extend below the adit level, hence mine is drained. The adit tunnel is open about 500 feet and is caved in beyond that point. This tunnel in our opinion is in the wrong place for the development of the ore zone. We do not propose to use it. It is proposed some work be done on the surface with a bulldozer to remove overburden at point of ore croppings and to extend tunnel westerly along ore zone. No pumping problems are anticipated.

3. a. 20 miles Northeast of American Fork, Utah.

   b. American Fork Mining District

   c.

   d. Utah County, Utah

4. a. Only assessment work has been done. Mine is idle at present. Work is planned to begin in June 1951.

   b. Owner. Land was purchased from locators.

5. None. It is reported a small amount of ore was mined in early days when property was in the name of Whirlwind.

6. See attached statement.

7. a. A 1200 foot tunnel, 200 cross cuts and approximately 300 feet of raises have been driven but the work was done southerly from what appears to be the ore channel, with nothing of importance being developed. Judging from our experience of mining the ore bodies from the Dutchman Mine, the ore should continue westerly into this property and should be found at a higher elevation in the mountain than where the original work on this property was done.

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

7. b. The Wild Dutchman property forms the easterly sidelines to this group and has a substantial production dating from the 1870's with much of it since 1946. The following amounts have been mined by myself and associated during the period 1946 to 1949 while the Dutchman property was held under lease: 8,000 tons of ore were mined containing 1,564,107 pounds of lead, 3,483,839 pounds of zinc, 33,477 pounds of copper with about 72,000 ounces of silver and some gold of lesser value. The Dutchman ore chute made in an east-westerly fault zone which extends into the Pearl group of claims where this development is proposed. It is expected that metals of the same nature will be developed there.

c. Most of the ore produced in the Dutchman mine property has been within one hundred ninety feet of the sidelines of the Pearl group. The properties are so situated geologically and physically that they have to be considered as one. The engineers of the International Smelting and Refining Company and those of the United States Smelting, Refining and Mining Company have examined both properties during the periods of production for their respective companies, but submitted no written reports. A sheaf of mine maps showing geological conditions, mine arrangement, probable extensions, etc., is in my possession and should be examined by your engineer. They seem too voluminous to send in with this application. A small map is included herewith showing claim positions, etc.

8 - 12 Answered on Form MF-100

13. Hard surfaced road extends approximately twelve miles toward the property from American Fork, then three miles graded and graveled, with the last five miles improved mountain roads which will accomodate large trucks.

14. Ample good water is available for culinary use. No other use contemplated.

15. 11,000 volt high tension Utah Power & Light Company line to property.

16. Ample labor has been available in the past. Seems to be sufficient at present.

17. All necessary equipment for the development is now on hand. The equipment consists of compressor, pneumatic drills, pipe rails, cars, drill steel, hose, etc.

18. None

STATEMENT OF EXPERIENCE OF OPERATORS:

The applicant has been mining for over thirty years:

1917 to 1921 - Globe Consolidated Mining Company of American Fork Canyon (miner machine runner)

1921 to 1929 - contracting tunnel and shaft at Park Utah Mine, Park City, Utah

1929 to 1931 - contracting all development work - Yankee Mines Company, American Fork Canyon

1932 to 1940 - Lessee-Operator Yankee Mine

1941 to 1944 - Operator-Owner - Cherry Creek Tungsten Mining Company, Cherry Creek, Nevada

1945 to 1949 - Lessee-Operator of Dutchman Mine, American Fork, Utah.

All of the above mentioned mines have a substantial production record. I personally managed the last three mentioned.

Willard Clyghorn

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-1470X

Date received 6/4/51

Participation

Dutchman Mine Leasers
c/o Willard Cleghorn, Managing Partner
254 West 1st South
American Fork, Utah

Name and address of applicant

Date May 12, 1951

FILL IN THIS BLOCK

Date of application May 12, 1951

Estimated cost $10,000.00

Mineral or metal Lead, silver, zinc, copper

Percentage of Government participation 50%

Location of mine American Fork Canyon

Date of filing MF-100 May 12, 1951

DMA Docket Number, if available none

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*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.

Dutchman Mining Lessees
(Name of company)

By Willard Clayhom
(Signature of authorized official)

May 20 1951
(Date)

Managing Partner
(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

Supplement to MF-103

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

1. Partnership

2. Explained in MF-100 - No. 8

4. Applicant will manage the project. His mining experience is explained in Supplement to MF-100 No. 6

5. Owner

6. Lien in favor of United States Smelting, Refining and Mining Company in the amount of 28,358.46 Money borrowed for final development of Dutchman Mine, a property held under lease by above named partnership. Dutchman mine has since been abandoned and returned to its owner. The indebtedness still stands against Pearl and Camp Bird groups of claims owned by above named partnership.

7. Does not apply

8. Attached

9. $5,000.00 cash or its equivalent in equipment rental and/or labor to equal D.M.A. matching funds.

10. a. and b. The following lode mining claims constitute the area held in one parcel by the Dutchman Mine Leasers on which the proposed work for which application for matching funds for development is hereby made:

Pearl group of mining claims #1 to 10 both inclusive unpatented lode claims held by Dutchman Mine Leasers under quit claim deed dated April 17, 1948, from R. W. Smith and H. O. Nichols, situate and adjacent to and northwesterly from Wild Dutchman Lot No. 68 including the following space:

Pearl No. 1, 2, and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325 at page 323.

Pearl No. 4 and 5, the location notices of which claims are recorded in records of Utah County Recorder of Utah County in Book 325 at page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325 at page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Millard Cleghorn which form a northwesterly extension of the above named Pearl claims and form a part of them, namely:

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

Pearl No. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506 pages 153, 154, 155, 156 and 157.

All of the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quitclaim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following named claims:

Camp Bird No. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325 at page 421.

Camp Bird No. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325 page 505.

11. The recorded name of the partnership under which this work will be carried on and in whose name title to the above named mining claims rests, is Dutchman Mine Leasers. The property was originally known as the Whirlwind.

12. Explained in Supplement to MF-100 No. 3 a. b. and d. and in No. 13.

13. Spring water coming from tunnel is sufficient for all purposes.

14. All the equipment needed for the exploration work proposed is on hand including compressor, rock drills, pipe rails, and supplementary material.

15. Ore would be delivered by truck and rail to one of the custom mills or smelters in the Salt Lake Valley.

16. The property has no production record but one or two tunnels were driven into it because it is adjacent to Dutchman Mine which has been producing a good grade of lead, silver, zinc, copper ore. All of the work was done south and underneath what seems to us to be the ore channel. See also Supplement to MF-100 No. 7 a to c.

17. Not in production.

18. There are no developed reserves.

a. The ore that was mined in the adjoining property, Wild

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

Dutchman, occurred in an east-west fault zone where an intrusive mass had expanded the distance between foot and hang wall. The ore was a part of or had settled down in the porphyry. Some of the higher grade carbonate ores which were mined in early days were found in the limestones directly above the primary ore deposits which have been mined recently from the porphyries. See U. S. Geological Survey, Professional Paper 201, page 137, Dutchman Mine, and page 138 Whirlwind.

19. It is thought by the writer, the Whirlwind fault lying west of the tunnel is flat or nearly so, and that the Dutchman ore could continue westerly underneath this flat fault. If this assumption be true, vast amounts of ore could exist there. It is this probability that prompts us to explore it.

20. Lead, silver, zinc, copper in veins and/or beddings.

21. It is proposed that a road be built from the Yankee Mine road to a point where surface croppings of lead, zinc ore are apparent, a distance of about fifteen hundred yards, then remove the overburden with the use of a caterpillar bulldozer to determine if ore is coming to the surface at this point and to extend a tunnel westward from the Dutchman Mine croppings into the Pearl group of claims.

22. The reason for expecting ore to be found is explained in the three preceeding paragraphs. Small maps are included herewith to supplement the foregoing.

23. Construction of road and removing overburden. Contract proposal:

12 days work with D-7 caterpillar tractor @ $10.00 per hour	$960.00
200 feet tunnel @ $25.00 per foot	5,000.00
150 feet crosscuts @ $25.00 per foot	3,750.00
Miscellaneous	290.00
Total	$10,000.00

Tunnel advance per shift - approximately 4 feet with four men required @ $14.00 per shift 56.00

Power per day	10.00
Per round for explosives	15.00
Per set of timber	10.00
Miscellaneous	9.00

Gross cost per shift with advance 4 feet $100.00
or $25.00 per foot of advance

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

24. This work can be completed by September or October of 1951, provided work is authorized to begin in June.

DUTCHMAN MINE LEASERS

254 West 1st South
American Fork, Utah

FINANCIAL STATEMENT

Purchase price of Pearl Group and Camp Bird Group of mining claims. . . . . $ 3,700.00

Amount owed to United States Smelting, Refining & Mining Company, Salt Lake City, Utah 28,358.46

This amount advanced by the United States Smelting, Refining & Mining Company was spent on the Dutchman Mine claims and these above claims were used as collateral. Since that transaction, the Dutchman claims have been dropped and returned to their owner. The total obligation is now charged against the above group of mining claims, which, however, is not repayable unless ore is developed and profit in sufficient amount derived therefrom to repay this indebtedness to the United States Smelting, Refining & Mining Company.

There has been no work done on the above group by the Dutchman Mine Leasers; hence there has no profit or loss.

DUTCHMAN MINE LEASERS

254 West 1st South
American Fork, Utah

I have talked with the lien holders concerning the subordination of their claim in favor of the D.M.A. loan and they indicate to me that they are willing to subordinate if this becomes necessary.

The proper forms for filing this subordination of lien were not available in Salt Lake City at the time of filing, and if it is required, they will be provided at a later date.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-1470X

Date received 6/4/51

Dutchman Mine Lessers
254 West 1st South
American Fork, Utah

c/o Willard Gleghorn, Managing Partner

Name and address of applicant

Date May 12, 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 the Internal Revenue Code~~ priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (X) 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.

5 GENERAL TECHNICAL DATA

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

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

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - [X] Owner.
   - [ ] Lessee.
   - [ ] Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
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)
Willard Cleghorn 254 West 1st So. American Fork, Utah	managing partner	none	25,000.00	none	none	none	
D. Grant Ingersol American Fork, Utah	partner	"		"	"	"	
Murray Wilson RFD. American Fork, Utah	partner	"		"	"	"	
Brown Ingersol Washington, D. C.	partner	"		"	"	"	
Stanley Cleghorn San Francisco, California	partner	"		"	"	"	
Kenneth Cleghorn Cherry Creek, Nevada	partner	"		"	"	"	
Blake Palfreyman Estate Provo, Utah	partner	"		"	"	"	
William W. Booth Estate Provo, Utah	partner	"		"	"	"	
Alma Bourne Salt Lake City, Utah	partner	"		"	"	"	
	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.)	no production under present lease				
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

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

12. Ore or Mineral Reserves:

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

Ref. U. S. Geol. Survey Prof. Paper 201

(*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.

Dutchman Mine Lessees
(Name of company)

By Willard Clagham
(Signature of authorized official)

May 20 1951
(Date)

Managing Partner
(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

Supplement to MF-100

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

1. a. It is expected that lead, zinc, copper and silver bearing ores will be produced.

   b. None

2. Underground mine. Vein and bedding deposits anticipated. The Pearl group and Camp Bird group of mining claims owned by the Dutchman Mine Leasers, a partnership, originally known as the Whirlwind mine.

   a. None

   b. 200

   c. 1200

   d. 300 feet exploratory raises. No openings extend below the adit level, hence mine is drained. The adit tunnel is open about 500 feet and is caved in beyond that point. This tunnel in our opinion is in the wrong place for the development of the ore zone. We do not propose to use it. It is proposed some work be done on the surface with a bulldozer to remove overburden at point of ore croppings and to extend tunnel westerly along ore zone. No pumping problems are anticipated.

3. a. 20 miles Northeast of American Fork, Utah.

   b. American Fork Mining District

   c.

   d. Utah County, Utah

4. a. Only assessment work has been done. Mine is idle at present. Work is planned to begin in June 1951.

   b. Owner. Land was purchased from locators.

5. None. It is reported a small amount of ore was mined in early days when property was in the name of Whirlwind.

6. See attached statement.

7. a. A 1200 foot tunnel, 200 cross cuts and approximately 300 feet of raises have been driven but the work was done southerly from what appears to be the ore channel, with nothing of importance being developed. Judging from our experience of mining the ore bodies from the Dutchman Mine, the ore should continue westerly into this property and should be found at a higher elevation in the mountain than where the original work on this property was done.

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

7. b. The Wild Dutchman property forms the easterly sidelines to this group and has a substantial production dating from the 1870's with much of it since 1946. The following amounts have been mined by myself and associated during the period 1946 to 1949 while the Dutchman property was held under lease: 8,000 tons of ore were mined containing 1,564,107 pounds of lead, 3,483,839 pounds of zinc, 33,477 pounds of copper with about 72,000 ounces of silver and some gold of lesser value. The Dutchman ore chute made in an east-westerly fault zone which extends into the Pearl group of claims where this development is proposed. It is expected that metals of the same nature will be developed there.

c. Most of the ore produced in the Dutchman mine property has been within one hundred ninety feet of the sidelines of the Pearl group. The properties are so situated geologically and physically that they have to be considered as one. The engineers of the International Smelting and Refining Company and those of the United States Smelting, Refining and Mining Company have examined both properties during the periods of production for their respective companies, but submitted no written reports. A sheaf of mine maps showing geological conditions, mine arrangement, probable extensions, etc., is in my possession and should be examined by your engineer. They seem too voluminous to send in with this application. A small map is included herewith showing claim positions, etc.

8 - 12 Answered on Form MF-100

13. Hard surfaced road extends approximately twelve miles toward the property from American Fork, then three miles graded and graveled, with the last five miles improved mountain roads which will accomodate large trucks.

14. Ample good water is available for culinary use. No other use contemplated.

15. 11,000 volt high tension Utah Power & Light Company line to property.

16. Ample labor has been available in the past. Seems to be sufficient at present.

17. All necessary equipment for the development is now on hand. The equipment consists of compressor, pneumatic drills, pipe rails, cars, drill steel, hose, etc.

18. None

STATEMENT OF EXPERIENCE OF OPERATORS:

The applicant has been mining for over thirty years:

1917 to 1921 - Globe Consolidated Mining Company of American Fork Canyon (miner machine runner)

1921 to 1929 - contracting tunnel and shaft at Park Utah Mine, Park City, Utah

1929 to 1931 - contracting all development work - Yankee Mines Company, American Fork Canyon

1932 to 1940 - Lessee-Operator Yankee Mine

1941 to 1944 - Operator-Owner - Cherry Creek Tungsten Mining Company, Cherry Creek, Nevada

1945 to 1949 - Lessee-Operator of Dutchman Mine, American Fork, Utah.

All of the above mentioned mines have a substantial production record. I personally managed the last three mentioned.

Willard Leighton

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. .....

Date received .....

Participation .....

Butchman Mine Leasers
c/o Willard Cleghorn, Managing Partner
254 West 1st South
American Fork, Utah

Name and address of applicant

Date May 12, 1951

FILL IN THIS BLOCK

Date of application May 12, 1951

Estimated cost $10,000.00

Mineral or metal Lead, silver, zinc, copper

Percentage of Government participation 50%

Location of mine American Fork Canyon

Date of filing MF-100 May 12, 1951

DMA Docket Number, if available none

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

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.

Dutchman Mine Lessors
(Name of company)

By Willard Allgham
(Signature of authorized official)

May 20 1951
(Date)

Managing Partner
(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

Supplement to MF-103

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

1. Partnership

2. Explained in MF-100 - No. 8

4. Applicant will manage the project. His mining experience is explained in Supplement to MF-100 No. 6

5. Owner

6. Lien in favor of United States Smelting, Refining and Mining Company in the amount of 28,358.46 Money borrowed for final development of Dutchman Mine, a property held under lease by above named partnership. Dutchman mine has since been abandoned and returned to its owner. The indebtedness still stands against Pearl and Camp Bird groups of claims owned by above named partnership.

7. Does not apply

8. Attached

9. $5,000.00 cash or its equivalent in equipment rental and/or labor to equal D.M.A. matching funds.

10. a. and b. The following lode mining claims constitute the area held in one parcel by the Dutchman Mine Leasers on which the proposed work for which application for matching funds for development is hereby made:

Pearl group of mining claims #1 to 10 both inclusive unpatented lode claims held by Dutchman Mine Leasers under quit claim deed dated April 17, 1948, from R. W. Smith and H. C. Nichols, situate and adjacent to and northwesterly from Wild Dutchman Lot No. 68 including the following space:

Pearl No. 1, 2, and 3, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325 at page 323.

Pearl No. 4 and 5, the location notices of which claims are recorded in records of Utah County Recorder of Utah County in Book 325 at page 324.

Pearl No. 6, the location notice of which claim is recorded in the records of the County Recorder of Utah County in Book 325 at page 324-5.

A group of claims located in the name of Dutchman Mine Leasers by Millard Cleghorn which form a northwesterly extension of the above named Pearl claims and form a part of them, namely:

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

Pearl No. 7, 8, 9 and 10, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book No. 506 pages 153, 154, 155, 156 and 157.

All of the Camp Bird group of unpatented lode mining claims held by Dutchman Mine Leasers under quitclaim deed dated April 12, 1948 and recorded in the records of the County Recorder of Utah County, Mining Section Book 464 at page 510, from Camp Bird Mining Company situated southerly from Dutchman Flat, Survey No. 5890, including the following named claims:

Camp Bird No. 1 and 2, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325 at page 421.

Camp Bird No. 7 and 8, the location notices of which claims are recorded in the records of the County Recorder of Utah County in Book 325 page 505.

11. The recorded name of the partnership under which this work will be carried on and in whose name title to the above named mining claims rests, is Dutchman Mine Leasers. The property was originally known as the Whirlwind.

12. Explained in Supplement to MF-100 No. 3 a. b. and d. and in No. 13.

13. Spring water coming from tunnel is sufficient for all purposes.

14. All the equipment needed for the exploration work proposed is on hand including compressor, rock drills, pipe rails, and supplementary material.

15. Ore would be delivered by truck and rail to one of the custom mills or smelters in the Salt Lake Valley.

16. The property has no production record but one or two tunnels were driven into it because it is adjacent to Dutchman Mine which has been producing a good grade of lead, silver, zinc, copper ore. All of the work was done south and underneath what seems to us to be the ore channel. See also Supplement to MF-100 No. 7 a to c.

17. Not in production.

18. There are no developed reserves.

a. The ore that was mined in the adjoining property, Wild

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

Dutchman, occurred in an east-west fault zone where an intrusive mass had expanded the distance between foot and hang wall. The ore was a part of or had settled down in the porphyry. Some of the higher grade carbonate ores which were mined in early days were found in the limestones directly above the primary ore deposits which have been mined recently from the porphyries. See U. S. Geological Survey, Professional Paper 201, page 137, Dutchman Mine, and page 138 Whirlwind.

19. It is thought by the writer, the Whirlwind fault lying west of the tunnel is flat or nearly so, and that the Dutchman ore could continue westerly underneath this flat fault. If this assumption be true, vast amounts of ore could exist there. It is this probability that prompts us to explore it.

20. Lead, silver, zinc, copper in veins and/or beddings.

21. It is proposed that a road be built from the Yankee Mine road to a paint where surface croppings of lead, zinc ore are apparent, a distance of about fifteen hundred yards, then remove the overburden with the use of a caterpillar bulldozer to determine if ore is coming to the surface at this point and to extend a tunnel westward from the Dutchman Mine croppings into the Pearl group of claims.

22. The reason for expecting ore to be found is explained in the three preceeding paragraphs. Small maps are included herewith to supplement the foregoing.

23. Construction of road and removing overburden. Contract proposal:

12 days work with D-7 caterpillar tractor @ $10.00 per hour.	$960.00
200 feet tunnel @ $25.00 per foot	5,000.00
150 feet crosscuts @ $25.00 per foot.	3,750.00
Miscellaneous	290.00
Total	$10,000.00

Tunnel advance per shift - approximately 4 feet with four men required @ $14.00 per shift. 56.00

Power per day	10.00
Per round for explosives.	15.00
Per set of timber	10.00
Miscellaneous	9.00
Gross cost per shift with advance 4 feet or $25.00 per foot of advance	100.00

Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

24. This work can be completed by September or October of 1951, provided work is authorized to begin in June.

DUTCHMAN MINE LEASERS

254 West 1st South
American Fork, Utah

FINANCIAL STATEMENT

Purchase price of Pearl Group and Camp Bird Group of mining claims. . . . . $ 3,700.00

Amount owed to United States Smelting, Refinin & Mining Company, Salt Lake City, Utah 28,358.46

This amount advanced by the United States Smelting, Refining & Mining Company was spent on the Dutchman Mine claims and these above claims were used as collateral. Since that transaction, the Dutchman claims have been dropped and returned to their owner. The total obligation is now charged against the above group of mining claims, which, however, is not repayable unless ore is developed and profit in sufficient amount derived therefrom to repay this indebtedness to the United States Smelting, Refining & Mining Company.

There has been no work done on the above group by the Dutchman Mine Leasers; hence there has no profit or loss.

DUTCHMAN MINE LEASERS

254 West 1st South
American Fork, Utah

I have talked with the lien holders concerning the subordination of their claim in favor of the D.M.A. loan and they indicate to me that they are willing to subordinate if this becomes necessary.

The proper forms for filing this subordination of lien were not available in Salt Lake City at the time of filing, and if it is required, they will be provided at a later date.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
FEB 18 1952
BUREAU OF MINES
Denver, Colorado

February 15, 1952

Memorandum

To: W. H. King, Acting Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA-1470X, Willard Cleghorn, Dutchman Mine Leasers, Utah County, Utah.

Mr. Willard Cleghorn called at this office February 11, 1952, as requested in recent letters to him concerning the subject docket.

He possesses an agreement with the various partners in the group apparently giving him the right, as managing partner, to conduct operations on the subject property. However, inasmuch as two of the partners are deceased, and the property description does not accurately outline the property included under the subject docket, he stated that he will obtain a new agreement with the surviving partners and forward copies to this office upon completion.

Stephen R. Wilson
Stephen R. Wilson

Form 6-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 2/18/52

REFERRED TO:

1. ~~King~~ W. H. K.
2.
3. Shaw
4.

FOR:

- ---------- Action
- ---------- Approval
- ---------- Comment
- ---------- Conference
- ---------- Consideration
- ---------- Filing
- ---------- Instructions
- ---------- Investigation
- ---------- Initials
- ---------- Mailing
- ---------- Previous correspondence
- ---------- Recommendation
- ---------- Record of ----------
- ---------- Referring to ----------
- ---------- Reply for signature of ----------
- ---------- Rewriting
- ---------- Signature
- ---------- Suggestions
- ---------- Your information

REMARKS: Mem o from Wilson, re: DMA 1470
Willard Cleghorn, Dutchman Mine Leasers,

Check (X) before the items needing attention.

GPO 16—51162-1

Initials of sender.

Have I have these
PTA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
OCT 16 1951
BUREAU OF MINES
Denver, Colorado

October 15, 1951

Memorandum

To: Paul T. Allsman, Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA Docket 1470X, Dutchman Mine Leasers, Utah County, Utah

Under separate cover we have mailed you 9 copies of Figure 4 of the subject report as requested in your memorandum of October 10, 1951.

Stephen R. Wilson
Stephen R. Wilson

PTA
MOM
9 Ts

224 New Customhouse
Denver 2, Colorado

October 30, 1951

Mr. Willard Cleghorn, Managing Partner
Dutchman Mine Leasers
254 West 1st South
American Fork, Utah

Dear Mr. Cleghorn:

Referring to your application for aid for an exploration project, DMA 1470K.

If your partnership is recorded, kindly send us the number of the page, the book, and the County Court House in which the partnership is recorded. Otherwise it will be necessary to obtain the signatures of all the partners on the contract.

Since there are nine partners living in widely scattered areas considerable time would be saved by having the partnership recorded if you have not already done so.

Yours very truly,

J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV

JHE:ld

cc: DMA docket, chron.
Koschmann
Wilson

824 New Customhouse
Denver 2, Colorado

October 8, 1951

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division
Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: DMA Docket 1470X (1471X) Dutchman Mine, American Fork
Mining District, Utah County, Utah

Referring to my letter of September 26, 1951, this application has been approved and the final report will be submitted with the contract, which is being prepared in this office.

The contract is awaiting receipt of Mortgagee's Subordination Agreement, Form MF-261, from the applicant.

J. H. Eaton, Jr.

JHE:ld

cc: DMA
Koopman
Wilson

Mining Division
Region IV

October 10, 1951

Memorandum

To: S. R. Wilson

From: Chief, Mining Division, Region IV

Subject: DMA Docket 1470X, Dutchman Mine

Please send us nine copies of Figure 4 which accompanied the Geological Report on the above docket. These maps are to be used in preparation of a contract.

F. T. Allsman

JFS:ld

cc: DMA subject, chron.
Koschmann

[illegible] New Customhouse
Denver 2, Colorado

October 10, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Project 1470-I, Dutchman Mine Lessee, applicants, Unfinished Lease, Dutchman Mine-Lead Mine, Antelope Peak Mining District, Utah County, Utah.

The subject report has been approved by us and an exploration loan of $[illegible],000.00 is being processed.

Four copies of the report and the brochure are being held here until the execution of the exploration project contract.

F. H. Ernst, Jr.

for A. H. Koschmann

WDM:oj

cc: AHKoschmann
DMA Subject and Chron.
WRWilson w/copy of final report
RRoberts w/copy of final report
PTAllsman w/copy of final report
AHKoschmann w/copy of final report
DMA Final Report

224 New Customhouse
Denver 2, Colorado

October 2, 1951

Memorandum

To: S. R. Wilson

(Through Chief, Mining Division, Region IV)

From: Executive Officer, DMA Field Team, Region IV

Subject: Dutchman Mine Lessors, DMA Docket 1470X

There is a lien on the above property in favor of United States Smelting, Refining and Mining Company in the amount of $28,358.46.

In order to complete the contract it will be necessary to complete the Mortgagee Subordination Agreement, Form MF-20X, six copies of which are enclosed.

J. H. East, Jr.

J. H. East, Jr.

Enclosures

JHEild

cc: DMA
Kaechmann

224 Bay Customhouse
Denver 2, Colorado

September 26, 1951

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division
Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: DMA Docket 1470X (~~[illegible]~~) Dutchman Mine, American Fork Mining District, Utah County, Utah

The information requested by telephone recently regarding this application is presented in the formal report which is being mailed to you under separate cover today.

J. H. East, Jr.

[illegible]

[illegible] DMA
Rosenmann

Willard Cleghorn . 1471 X.
Operating equipment items & cost. report to WC
Plan of exploration.
today 9/26/51

Mining Division
Region IV

September 24, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1470-I, Dutchman Mine Lessors, applicants, Mainland Lease, Dutchman Zinc-Lead Mine, American Fork Mining District, Utah County, Utah.

The original application of the subject docket was for an exploration loan of $10,000. Examination by the field team determined that the expenditure of $20,000 would permit a more comprehensive program, and this cost is approved by the applicants.

There are not any minable reserves, but the possibility of finding ore is promising. The proposed work will consist primarily of advancing the present adit 500 feet with approximately 126 feet of raise and crosscut.

The examining team recommends approval of the loan, with which we concur.

As this project falls within the prerogative of the executive officer of Region IV, a contract will be prepared.

Paul T. Allman

WDM:oj
cc: DMA Subject and Chronological

Mining Division
Date Rec'd.

AUG 10 1951

BUREAU OF MINES
Denver, Colorado

August 9, 1951

Mr. Willard Cleghorn
254 West 1st Street
American Fork, Utah

Subject: DMA Docket 1470

My dear Mr. Cleghorn:

Please supply this office with a list of major equipment which you propose to make available for the above docket property. Please also include your proposed rental rates for use of this equipment on the exploration.

Sincerely yours,

Stephen R. Wilson, Chief
Utah-Wyoming Branch
Mining Division

Copy to:
FT Allemann
Files
Bf

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

224 New Customhouse
Denver 2, Colorado

October 10, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 1470-X, Dutchman Mine Leasers, applicants, Whirlwind Lease, Dutchman Zinc-Lead Mine, American Fork Mining District, Utah County, Utah

The subject report has been approved by us and an exploration loan of $20,000.00 is being processed.

Your copy of the report and the brochure are being held here until the execution of the exploration project contract.

J. H. East, Jr.

A. H. Koschmann

A. H. Koschmann

cc: SRWilson w/copy of final report
R.Roberts " " " "
FTAllsman " " " "
AHKoschmann " " " "
DMA Final Report

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

September 26, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1470-X, Dutchman Mine Leasers, applicants, Whirlwind Lease, Dutchman Zinc-Lead Mine, American Fork Mining District, Utah County, Utah.

The original application of the subject docket was for an exploration loan of $10,000. Examination by the field teams determined that the expenditure of $20,000 would permit a more comprehensive program, and this cost is approved by the applicants.

There are not any mineable reserves, but the possibility of finding ore is promising. The proposed work will consist primarily of advancing the present adit 500 feet with approximately 126 feet of raise and crosscut.

The examining team recommends approval of the loan, with which we concur.

As this project falls within the prerogative of the executive officer of Region IV, a contract will be prepared.

Paul T. Allsman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
SEP 24 1951
BUREAU OF MINES
Denver, Colorado

September 21, 1951

Memorandum

To: Paul T. Allsman, Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA 1470X, Dutchman Mine Leasers Whirlwind Mine, American Fork District, Utah County, Utah

Attached are 8 copies of the subject report with the joint section Summary, Conclusions and Recommendations. The geologic report was submitted by the Survey September 13, 1951. The original brochure is also enclosed.

Stephen R. Wilson
Stephen R. Wilson

Enclosures 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Administration
200 New Customhouse
Denver 2, Colorado

September 17, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1470X, Dutchman Mine, American Fork Mining District, Utah County, Utah.

Enclosed are eight copies of the geologic report by R. L Middleton of the U. S. Bureau of Mines and J. W. Hasler of the U. S. Geological Survey, covering the above docket.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Room 307, 320 South Main
Salt Lake City 1, Utah
13 September 1951

Memorandum

To: A. H. Koschmann, Field Team Region IV

From: Ralph J. Roberts

Subject: Docket DMA 1470X, Dutchman Mine, American Fork Mining District, Utah County, Utah.

Enclosed are eight copies of a geologic report on the Dutchman mine (Whirlwind Lease), Docket DMA 1470X, which was made in response to a request for a field examination.

The Dutchman mine workings are in Devonian and Mississippian limestone which are complexly faulted. The ore bodies follow fault zones in the Mississippian limestone and consist mainly of lead and zinc carbonates.

There are no minable ore reserves, but the outlook for the discovery of new ore bodies in faulted blocks of limestone is promising.

It is therefore recommended that the Defense Minerals Administration enter into an exploration contract with the applicant to do the proposed work. On a matching fund basis the government's share will be $10,000.

I concur with the conclusions and recommendations of the examining geologist and engineer.

Ralph J. Roberts

SEP 1951
RECEIVED
U.S. Geological Survey
Minerals Deposits Branch
Denver

SEP 1951
RECEIVED
U.S. Geological Survey
Minerals Deposits Branch
Denver

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Docket DMA 1470X, Dutchman Mine,

American Fork Mining District

Utah County, Utah

R. L. Middleton, Mining Engineer
U. S. Bureau of Mines

J. W. Hasler, Geologist
U. S. Geological Survey

September 12, 1951

DUTCHMAN MINE LEASERS
WHIRLWIND MINE
UTAH COUNTY, UTAH

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By J. W. Hasler and
R. L. Middleton

Dutchman Mine Leasers, owner of the Whirlwind mine in Utah County, Utah, has requested a DMA loan of $10,000 to conduct underground exploration. The property was examined by members of the Geological Survey and Bureau of Mines during August 1951.

The predominant rocks in the area are quartzite, shale and limestone of Cambrian age and limestone of Devonian (?) and Mississippian age. The Dutchman mine workings adjacent to the Whirlwind lie in a wedge of Devonian and Mississippian limestone outlined on the north and west by two faults, the Dutchman and the Whirlwind. Repetition of the ore-bearing Mississippian limestone by overthrusting is suggested, for the Cambrian Ophir and Maxfield formations lie above Mississippian limestone exposed in the Whirlwind tunnel. If this is true, the likelihood of discovering ore in the area of Block A, figure 2 of the Survey report, is considered promising.

The amount proposed by the applicant, $10,000, is too little to conduct the proper program. It is believed that $20,000 will be necessary to complete the exploration as outlined in this report. The possibilities of finding ore in the above-mentioned block are favorable; therefore, it is recommended that a loan of $20,000 be granted.

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LIST OF ILLUSTRATIONS

Figure 1. Index map of the Dutchman Mine, American Fork Mining District, Utah County, Utah.

Figure 2. Claim map.

Figure 3. Geologic map of Upper No. 1 Tunnel and Whirlwind Tunnel.

Figure 4. Composite of levels, Dutchman Mine.

Docket DMA 1470X, Dutchman Mine,

American Fork mining district,

Utah County, Utah

GEOLOGY

The rocks in the vicinity of the Dutchman mine are quartzite, shale, and limestone of Cambrian age, and limestone of Devonian and Mississippian age.

The Dutchman workings [1] (pl. 49) are in a wedge of Devonian and Missis-

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[1] Calkins, F. C., Butler, B. S., Geology and Ore deposits of the Cottonwood-American Fork area, Utah: U. S. Geol. Survey, Prof. Paper 211, p. 13, 1943.

---

sippian limestone bounded on the north and west by two faults, the Dutchman fault which may be part of the Silver Fork Fault and the Whirlwind fault. The limestone penetrated by the workings was apparently dislocated by several other faults, and the structure is far from being thoroughly understood.

The greater part of the ore produced by the mine has been taken from the No. 1 tunnel (fig. 3). The workings on this level have a northeastward trend, but do not follow the bedding, nor any persistent fissure. They seem to extend along a rather ill-defined fracture zone in which most of the individual fissures strike at angles to the general trend. Most of the fissures are fairly steep. The general dip of the limestone in this level is eastward, and the workings pass first through the Madison, then into the Deseret whose base is marked by characteristic black shaly beds.

The country rocks in the lower workings correspond to the rocks in the No. 1 level. The portion south of the first Fork is in Madison limestone.

The westward crosscuts are in the Jefferson (?) dolomite. The rock in the north-northeast drift is largely concealed, but some of it appears to be Jefferson (?) dolomite. The most remarkable feature of this level is the fact that its most northerly spurs are blocked by soft black clay which was formed from the black shale at the base of the Deseret. The distribution of this clay suggests that it lies along a fault, possibly a thrust fault of low southward dip that rises through the floor of the lower level and has not been reached by even the northernmost spurs on the upper level. Such a fault, later than the Dutchman fault, might account for the absence of the Dutchman fault on the upper level.

The Whirlwind tunnel, just west of the Dutchman No. 1, was driven N. 20° W. for a distance reported to be about 1,100 feet. It is now blocked 600 feet from the portal by the same kind of black clay that is so abundant in the lower Dutchman workings [1]. The tunnel terminates in quartzite, which

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[1] Calkins, F. C., Butler, B. S., op. cit.

---

is in contact with limestone at the Dutchman fault. The Whirlwind fault parallels the Whirlwind Tunnel not far to the west, but it has not been reached by the workings.

G. F. Treseder of the International Smelting and Refining Company considers that some thrust faulting could possibly be present because the Cambrian Ophir shale and Maxfield limestone overly the Dutchman upper level workings, which are in Mississippian, Deseret-Madison limestones.

The operator believes that he will encounter the ore-bearing Mississippian beds in the hanging wall of the Dutchman fault beyond the Wild Dutchman Claim 100 feet above the Whirlwind Tunnel and 100 feet to the east (fig. 2) providing,

of course, that the overthrust brings Cambrian Ophir shale and Maxfield limestones on top of the Mississippian Deseret-Madison limestones.

ORE DEPOSITS

The principal vein of the Datebum mine strikes N. 40° E. and dips vertically or steeply southeastward [1]. Its width ranged from a mere streak

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[1] Butler, B. S. and Loughlin, G. F., A reconnaissance of the Cottonwood-American Fork mining region, Utah: U. S. Geol. Survey Bull. 620, p. 208, 1915.

---

up to 5 feet and was widest in a dark-blue limestone bed which overlies argillaceous beds. The vein, lies along the contact of a narrow porphyry dike for most of its course; it ends abruptly on the northeast against a dense, blocky argillaceous limestone which probably marks a northwestward trending fault. A minor vein parallels the main vein. Both have been followed up to the cemented talus that caps the bedrocks, and several masses of ore are said to have been found in the talus.

The ore mined from the veins is mostly a sandy, mixed lead and zinc carbonate. Remnants of primary ore are composed of galena and sphalerite in a barite and carbonate gangue. Quartz is inconspicuous. Ore mined by lessees in recent years is said to have averaged about 30 percent of lead, 9 to 17 percent of zinc, and 50 ozs. of silver to the ton. The ore is reported to have had an average value of $22.00 a ton.

The only ore mined in 1939 was a mass of coarsely crystalline sulfide ore a few feet in diameter, consisting mainly of galena and sphalerite. It was in a breccia of limestone, blue black clay, and altered dike rock; the dike is evidently part of the same dike exposed on the No. 1 level. Similar ore was

mined in 1942 at a deeper level. These masses may be parts of a large vein that has been broken into many pieces as a result of complex faulting.

The black clay so prevalent throughout the Dutchman workings is now thought to be an alteration gouge, rather than a bedding plane gouge. It accompanies the ore associated with the porphyry dikes and limestone replacement pods and pipes as well. Large, irregular quartzite blocks are caught up in the complex Dutchman Fault, and give the fault a warped and undulating surface.

ORE RESERVES

There are no known minable ore reserves on the Whirlwind lease of the Dutchman mine as all the ore that has been discovered has been stoped. The life of this mine as well as others throughout the American Fork area has depended upon the finding of these sporadic ore bodies of rather high grade. Exploratory work has proved to be quite expensive, but production has more than equaled the cost of exploration thus making the operations profitable.

PROPOSED EXPLORATION

The applicant proposed a 500-foot crosscut to be located 100 feet east of and 100 feet higher than the Whirlwind Tunnel (fig. 2). The crosscut is designed to cut probable northeast veins in the hangingwall of the Dutchman fault. He estimated that the total cost of the work would be $10,000.

Repetition of the ore-bearing Mississippian limestones by overthrusting is suggested by the normal sequence of Cambrian Ophir and Manfield formations which apparently overlie Mississippian limestones exposed in the Whirlwind Tunnel. If this geologic picture is true, the probability of discovering ore in the hangingwall of the Dutchman fault is promising.

The examining geologist and engineer are of the opinion that additional work will be needed to explore the block of ground to the southwest of the Dutchman mine when it is reached. They therefore suggest additional raising and crosscutting in the designated block (Block "A" fig. 2), if promising showings are obtained during the exploration work. This additional work is estimated to cost about $10,000, making the total project cost about $20,000.

SUMMARY AND CONCLUSIONS

The country rock in the vicinity of the Dutchman mine are quartzite, shale, and limestone of Cambrian age and limestone of Devonian (?) and Mississippian age.

The Dutchman workings are in a wedge of Devonian and Mississippian limestones bounded on the north and west by two faults, the Dutchman and the Whirlwind faults. The structure is very complicated and repetition of the ore-bearing Mississippian limestones by overthrusting is suggested because the Cambrian Ophir and Maxfield formations are apparently above Mississippian limestones exposed in the Whirlwind Tunnel.

If this is true, the likelihood of discovering ore in Block "A" figure 2 is promising. The proposed 500-foot crosscut and additional crosscuts and raises are designed to explore northeastward-trending veins, and ore zones adjacent to the Dutchman fault, in the Mississippian limestones.

It is concluded that possibilities of finding ore in this block of ground are favorable and it is therefore recommended that the Defense Minerals Administration enter into a contract with the applicant to do the proposed work. The Defense Minerals Administration's share on a matching fund basis will be $10,000.

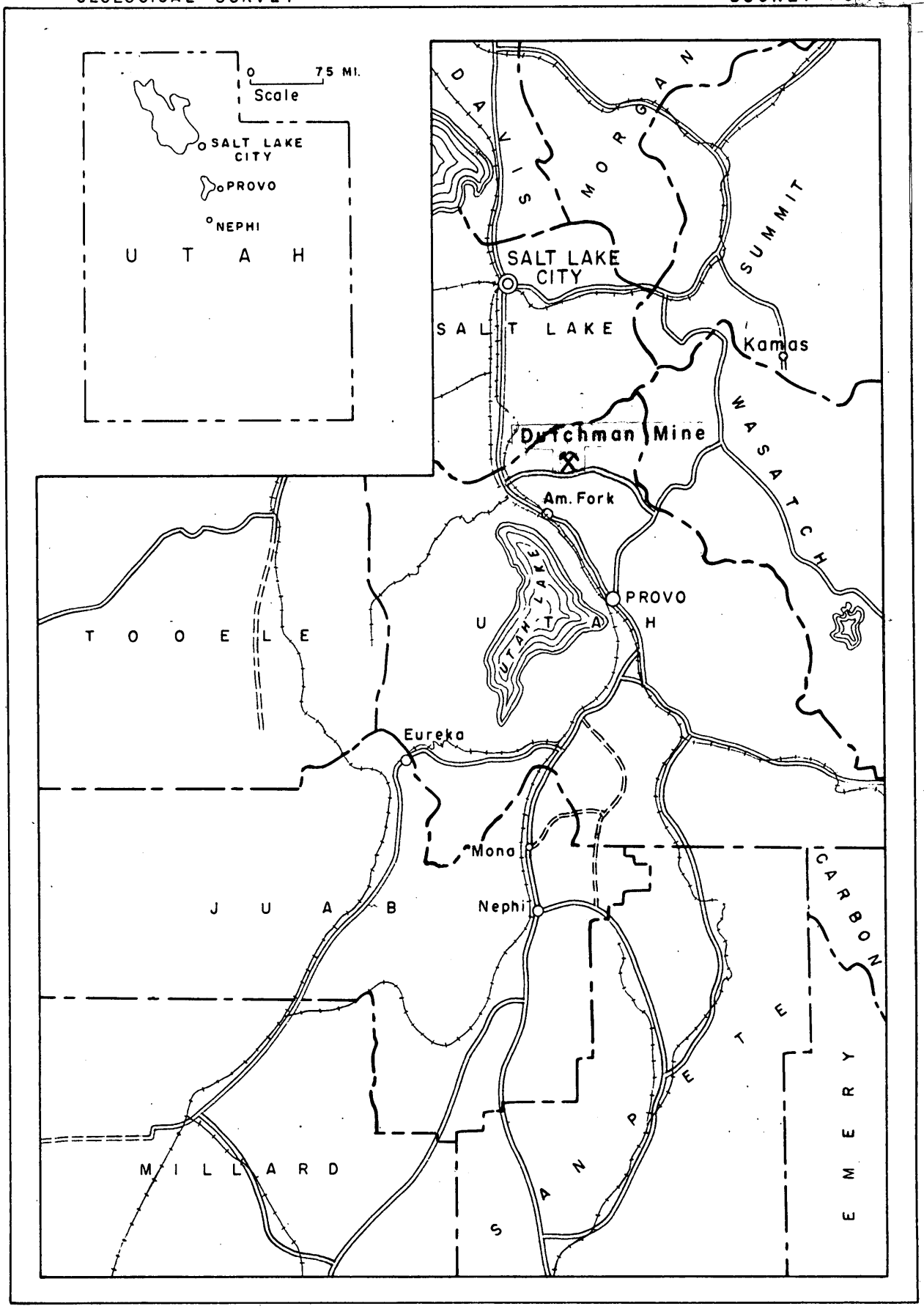

FIG. 1 INDEX MAP OF UTAH

0 5 10 15 20 MILES
Scale

DUTCHMAN MINE LEASERS
WHIRLWIND MINE
UTAH COUNTY, UTAH

Engineering Report

By R. L. Middleton
Mining engineer
U. S. Bureau of Mines

DUTCHMAN MINE LEASERS
WHIRLWIND MINE
UTAH COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Dutchman Mine Leasers, Utah County, Utah

INTRODUCTION

A preliminary examination of the Dutchman Mine Leasers property was made August 22, 1951 by J. W. Hazler of the U. S. Geological Survey and R. L. Middleton of the U. S. Bureau of Mines. The field team was accompanied to the property by Willard Cleghorn, managing partner of the Dutchman Mine Leasers.

The application for exploration, DMA Docket 1470-X, asked approval of a $10,000 loan with Government participation of $5,000 in matching funds. Examination by the field team determined a $20,000 project would allow a more comprehensive exploration, and this cost is agreeable to the Dutchman Mine Leasers.

ACKNOWLEDGMENTS

Data obtained from U. S. Geological Survey Professional Paper 201, By F. C. Calkins and B. S. Butler, and from O. S. Tresider, engineer for International Smelting and Refining Co., Salt Lake City, Utah, were used in preparation of this report.

LOCATION

The Dutchman Mine Leasers property is in sec. 27, T. 3 S., R. 3 E., S.L.B.M., American Fork mining district, Utah County, Utah (fig. 1). A hard-surfaced road extends 15 miles northeast from American Fork, Utah, and from this point 7 miles of graveled, moderate-grade mountain road passes within 1/4 mile of the mine. The property, at

an altitude of 8,000 feet, is situated on the north slope of American Fork Canyon, 1/2 mile northeast of Mary Ellen Gulch.

Topography is moderately steep and rugged. The property is well supplied with standing mine timber, and American Fork creek insures adequate water.

HISTORY AND PRODUCTION

The Dutchman Mine Leasers property, though located in an active lead, silver and zinc mining district, has had no production. The southeast side line of the Dutchman Mine Leasers property is adjacent to the Dutchman mine, which has been an intermittent producer of good grade lead, silver and zinc ores since 1872. From 1946 to 1949, the Dutchman mine, then operated by the applicant, Dutchman Mine Leasers, produced 8,000 tons of ores which averaged 9.8 percent lead, 21.8 percent zinc, 0.21 percent copper, 9 ounces of silver, and a small amount of gold.

OWNERSHIP AND EXTENT

The Dutchman Mine Leasers property consists of 14 unpatented mining claims, Pearl claims 1 to 10 inclusive, and the Camp Bird claims 1, 2, 7 and 8. The property is owned by a partnership. Willard Cleghorn, 254 West 1st South, American Fork, Utah, is managing partner. Mr. Cleghorn stated that a subordination agreement for $28,358.16, a property lien in favor of United States Smelting, Refining and Mining Company, can be obtained.

DESCRIPTION OF THE DEPOSITS

The underground area, which the applicant wishes to explore, is blanketed to a large extent by post-mineralization thrust faulting. Therefore, no surface outcrops of fissures or bedded deposits were seen above this area. Description of anticipated deposits is possible by correlation with the mineralization in the adjacent Dutchman mine. Ore was mined from the Dutchman mine within 190 feet of the boundary of the Dutchman Mine Leasers property.

The ore mined in the Dutchman property occurs along an ill-defined northeasterly fracture zone. The fissures within this zone dip steeply to the southeast, and due to complex faulting, are not consistent with depth. At favorable horizons in the limestone, replacement has formed bedded deposits. Ore mined near the surface is composed of argentiferous lead and zinc carbonates. Ore mined at depth is mainly argentiferous lead and zinc sulfides in a gangue of barite and carbonate. The percentage of zinc in the ore increases with depth.

MINABLE ORE RESERVES

There are no minable ore reserves on the Dutchman Mine Leasers property.

PRESENT STATUS

The Whirlwind tunnel, the portal of which is located on Dutchman mine property, was driven at an early date to develop the ground now

owned by the Dutchman Mine Leasers. The tunnel is not accessible, but maps show approximately 1,200 feet, 200 feet of crosscut and 300 feet of raises. No ore was developed in any of the Whirlwind workings, and the main adit is located at an elevation too low to be beneficial to the proposed exploratory program. The estimated cost of rehabilitating the tunnel is $7,000.

The Dutchman Mine Leasers have sufficient mine equipment to do the proposed work. There are no milling equipment or surface facilities of any kind on the property.

PROJECT PROPOSALS WITH COSTS

The proposed project consists of driving an adit approximately 500 feet and constructing an access road approximately 1,200 yards to the adit portal. Location of the portal is approximately 100 feet above and 300 feet N. 8° W. of the Whirlwind tunnel. The adit will be advanced northwest 500 feet or less, depending upon mineralization encountered. When favorable indications for ore occurrence are encountered, the remaining project funds should be utilized in lateral or vertical exploration. Costs of adit advance are calculated at $30 per foot, while costs of raising will depend upon various circumstances. The Dutchman Mine Leasers will do exploratory raising at $30 per foot.

Cost of Drifting or Crosscutting 3.5 ft./8-hr. shift

Labor (4 men /8-hr. shift, including supervision)	$ 58.93
Power (gasoline and lubrication)	10.00
Explosives	15.00
Timber	8.75
Equipment depreciation	5.46
Equipment repair, maintenance, parts	3.74
Miscellaneous	3.12
Gross cost /8-hr. shift /3.5 ft. advance	$ 105.00
Cost /ft. advance	30.00
500 ft. of adit at $30 /ft.	$15,000

Labor Cost

3 miners at $1.65 /hr., 48-hr. work week with 8 hrs. overtime	257.40
1 miner and supervisor at $1.85 /hr., 48-hr. work week with 8 hrs. overtime	96.20
Gross cost, 4 miners /48-hr. week	$ 353.60
Gross cost, 4 miners / 8-hr. shift	58.93

Access Road

Approximately 1,200 yards of road construction and excavation at adit portal site is required. This work will be done by contract bulldozer.

12 8-hr. days at $10 /hr. — $ 960

Equipment

Following is a list of equipment to be furnished by the Dutchman Mine Leasers on a depreciation basis:

	Cost
1 WB Gardner-Denver compressor, 115 cfm., powered by a U-6 International gasoline engine	$ 2,340
1 Stoper, 99# class	645
1 D-73 Gardner-Denver Drifter	550
1 S 45 " " jackhammer	325
1 C-10 Cleveland spader	250
1 Chevrolet 1949 2-ton flat rack truck for hauling equipment and supplies	2,300
1 American blower powered by 20 H.P. gasoline engine	500
Mine car, 12. cu. ft.	150
Air and water hose with couplings	83
Pipe, 4" black iron, 500 ft. at $.97	534
Track, 16#, 500' with splicer bars, bolts and spikes	450
Blower pipe, 500', 12" diameter	550
Drill column and cross arm	206
Drill steel:	
Jackhammer	41
Drifter	49
Stoper	46
Total	$ 8,529
Yearly depreciation over 5-year period	$ 1,703.80
Monthly depreciation	$ 141.98

Facilities

No new facilities or rehabilitation of facilities are required for this project.

Purchases

It will be necessary to purchase small hand tools, picks, shovels, blacksmith coal, and drill bits $ 250

SUMMARY OF PROJECT COSTS

500 feet adit advance at $30 /ft.	$15,000
Contract for approximately 1,200 yards road	960
Purchases	250
Approximately 126 ft. raise or crosscut at $30 /ft.	3,790
Total	$20,000

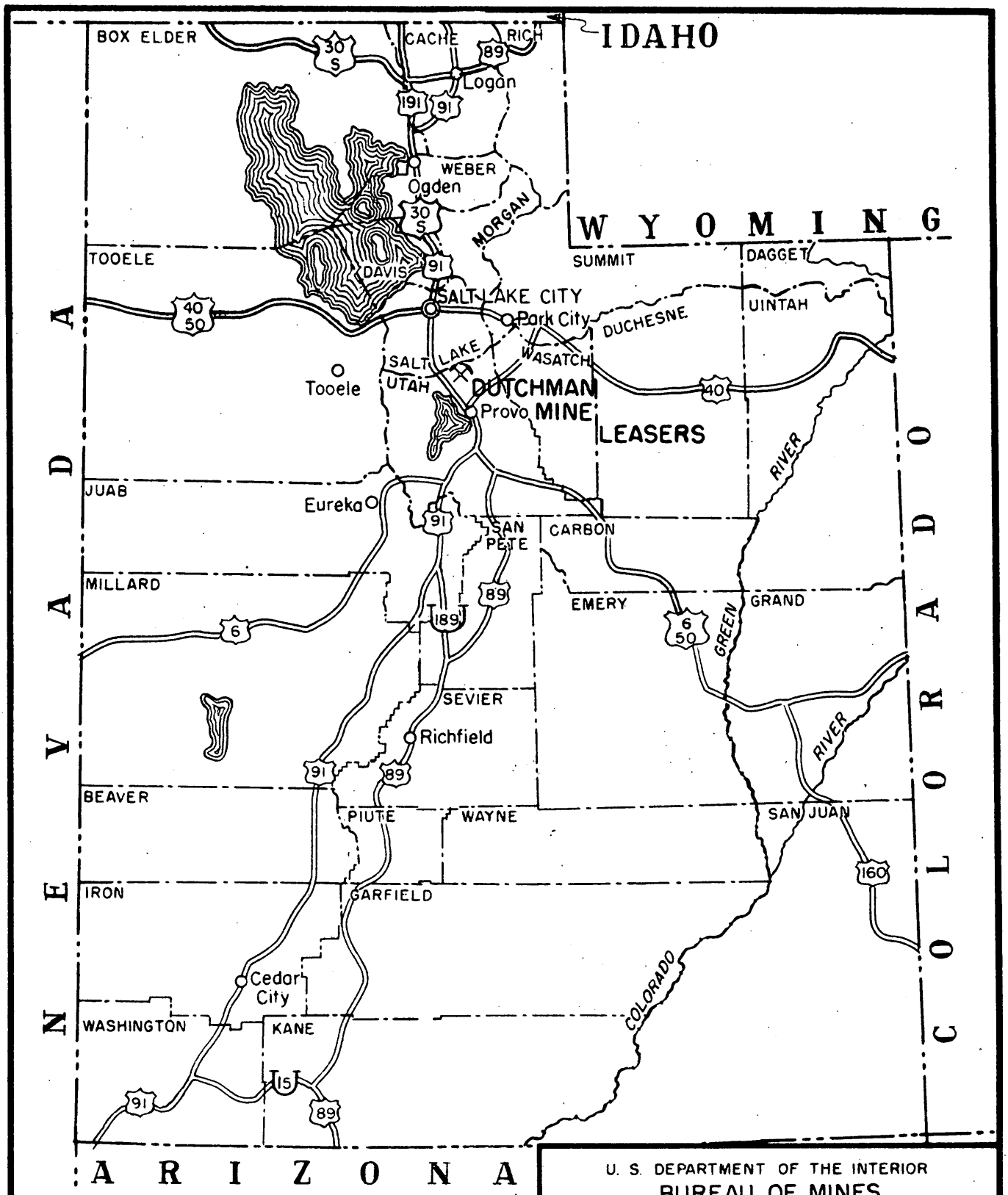
The Government should evaluate the results of the adit advance and determine if the expenditure of the remaining $3,790 of project funds is justified.

Because of winter conditions, this project should be started before the latter part of October, or it must be delayed until May of the following year. Time for completion of the exploratory project is estimated at 8 months.

CONCLUSIONS

The engineering aspects of this project proposal are feasible. The field team is impressed by the apparent ability of the Dutchman Mine Leasers manager to proceed with the project satisfactorily. The experience gained by the management in mining on the adjacent property will be of value in operation of the proposed project.

It is recommended that a loan of $20,000 for exploration on the Dutchman Mine Leasers property be approved.



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 Proj. No.

Location Map

DUTCHMAN MINE LEASERS

UTAH COUNTY, UTAH.

ENGINEER: R. L. MIDDLETON	DATE: SEPT. 11, 1951
TRACED: SEPT. 51; A.P.T.S.	1500-1073-E
CHECKED:	

Mining Division
Region IV

August 7, 1951

Memorandum

To: S. R. Wilson

From: Chief, Mining Division, Region IV

Subject: DM 1471, Willard Klaghorn — 1470 - Dutchman Mine, Willard Clayhorn

Please contact Willard Klaghorn by letter or phone and have him submit a list of the major equipment he will furnish on the above application and the rental rates.

This information is required by Defense Minerals Administration, Washington Office, in order to complete his contract.

P. T. Allman

14

cc: DMA
Koehnmann

224 New Customhouse
Denver, Colorado

June 28, 1951

Memorandum

To: S. R. Wilson (with brochure)

(Through Chief, Mining Division) PTA

Ralph Roberts

From: DMA Field Team, Region IV

Subject: DMA 1470X, Dutchman Mine, Willard Cleghorn, 254 West 1st Street, American Fork, Utah

The borchure and review on the above docket is enclosed for examination and report. A team comprising the Geological Survey and the Bureau of Mines should make this examination.

Since the rush to complete contracts by the end of June is now over, you are advised to revert to the practice of making eight copies of investigation reports, also making certain that all of the necessary information is obtained to complete a contract if the project is to be recommended for approval.

P. T. Allsman, Alternate

A. H. Koschmann

Attachments
PTA/al
cc-dmr files, koschmann

REGIONAL DIRECTOR'S
OFFICE
REGION IV
JUN 28 1951
BUREAU OF MINES
DENVER, COLORADO

JUN 21 1951

June 21, 1951

Re: Docket DMA-1470X

Dutchman Mine Lessors
c/o Willard Cleghorn
254 West 1st Street
American Fork, Utah

Gentlemen:

Your application (Docket DMA-1470X) for an exploration loan under the provisions of the Defense Production Act of 1950 has been reviewed by the Lead-Zinc Branch of the Defense Minerals Administration. Before final decision can be taken on your request it will be necessary to obtain additional information on your property. Your application, therefore, has been referred to Mr. J. H. East, Jr., Executive Officer of the Field Team, 224 New Customhouse, Denver 2, Colorado, for further information and advice.

Very truly yours,

Tom Lyon, Director
Supply Division

CJBodenlos:emp
G 6/21/51

Copies to: Chief, Lead-Zinc Br.
J. H. East, Jr. Region IV (2)
E. T. McKnight 4204 GSA
R. H. Mote
L. F. Strobel
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

Dated

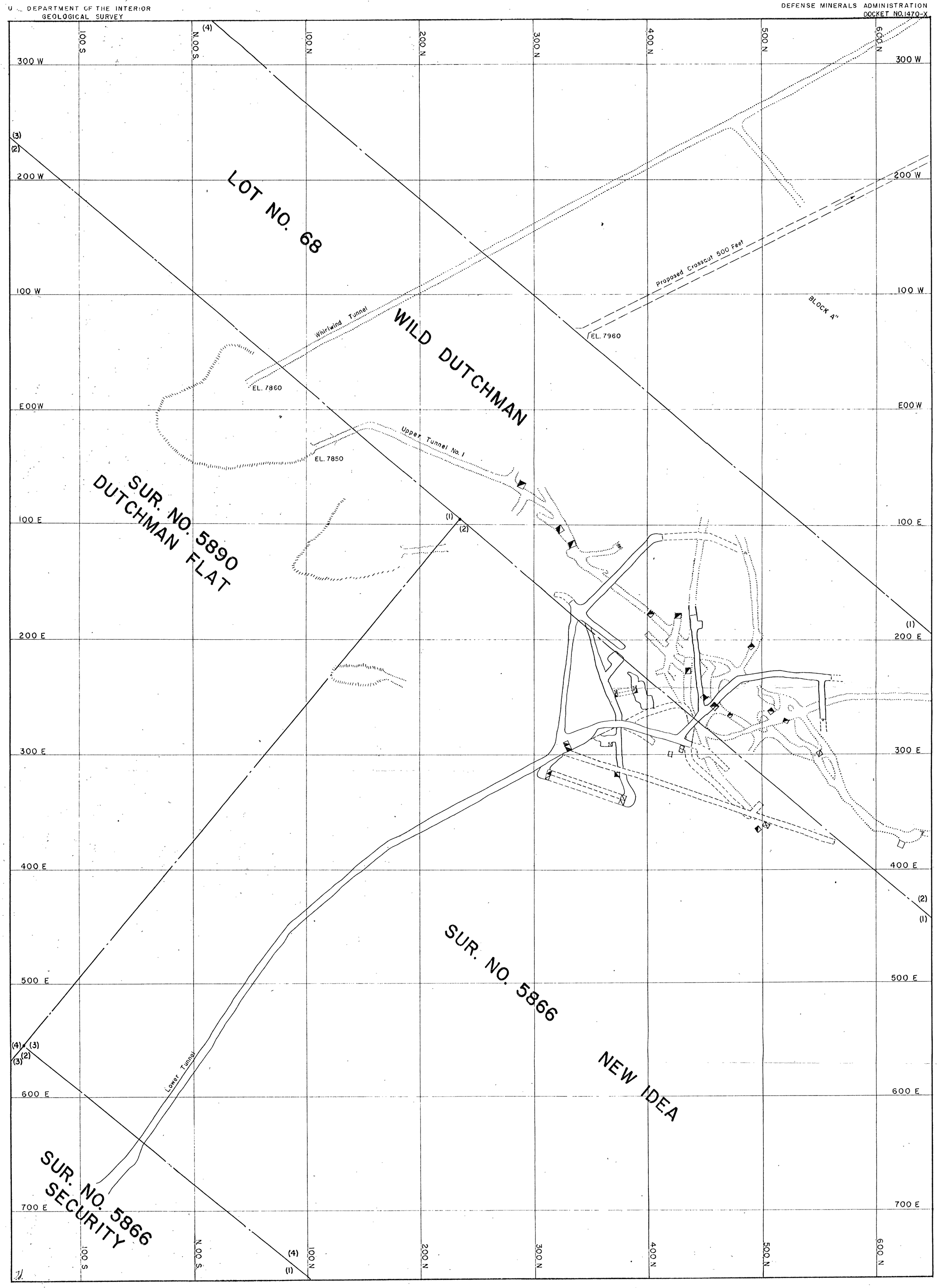


FIG. 4

COMPOSITE OF LEVELS
DUTCHMAN MINE
AMERICAN FORK CANYON
UTAH COUNTY, UTAH

0 50 100 FEET
Scale

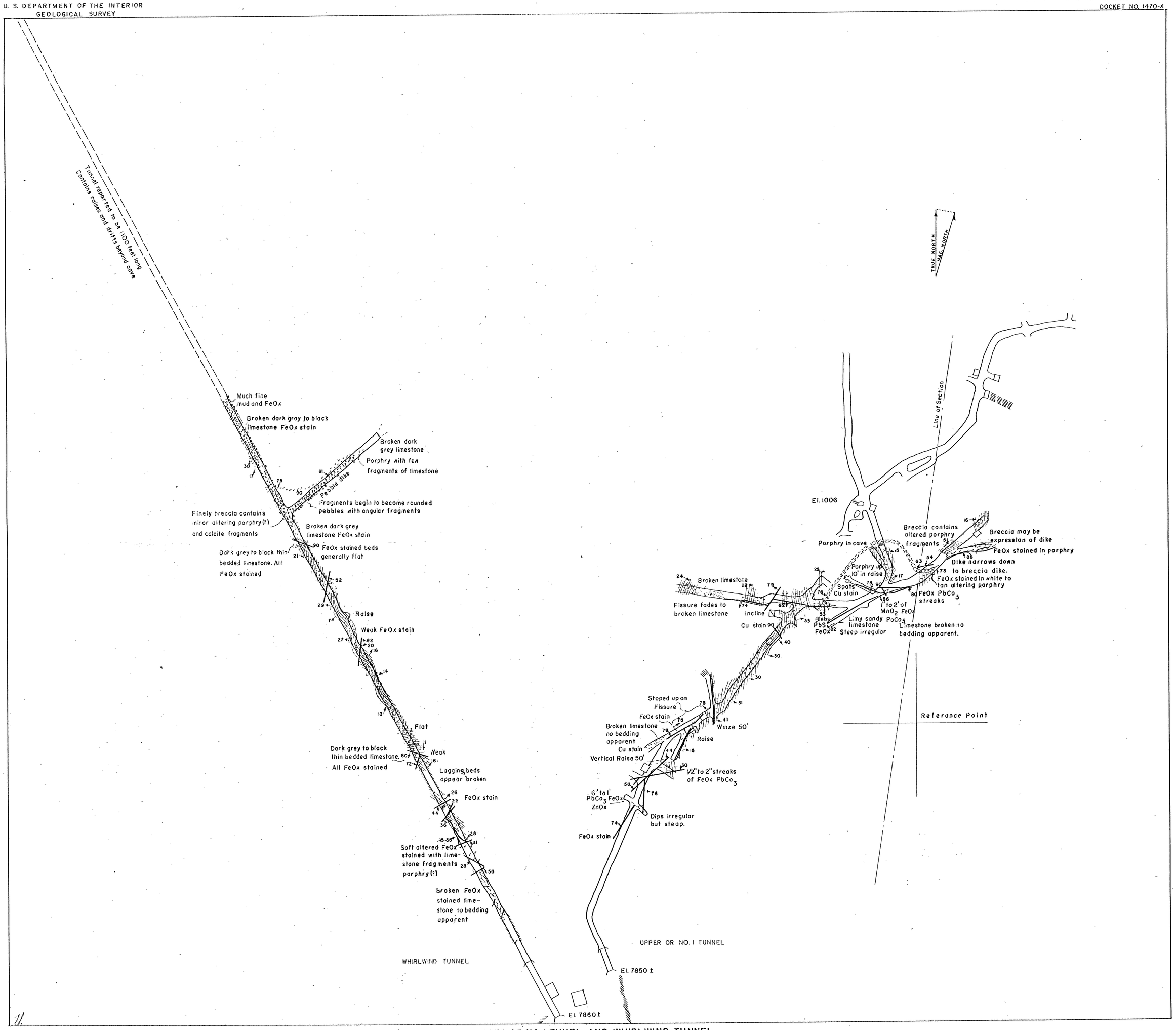


FIG. 3

UPPER OR NO. 1 TUNEL AND WHIRLWIND TUNNEL
DUTCHMAN MINE
AMERICAN FORK MINING DISTRICT
UTAH COUNTY, UTAH

0 50 100 FEET
Scale

Q. F. Treseder July 1946

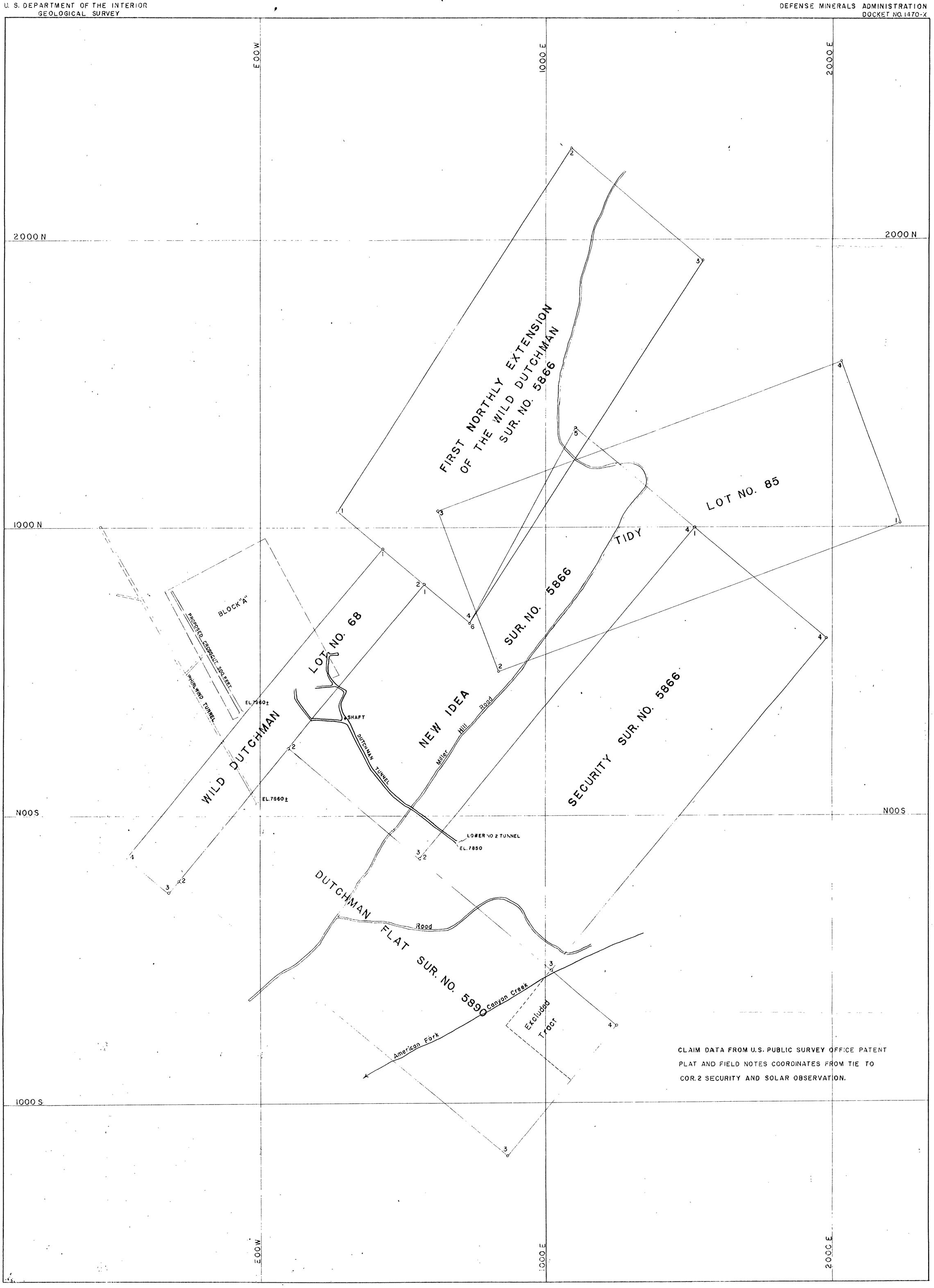


FIG. 2

CLAIM MAP

DUTCHMAN MINE

AMERICAN FORK CANYON

UTAH COUNTY, UTAH

0 200 400 FEET
Scale

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS ADMINISTRATION
DOCKET NO. 1470-X

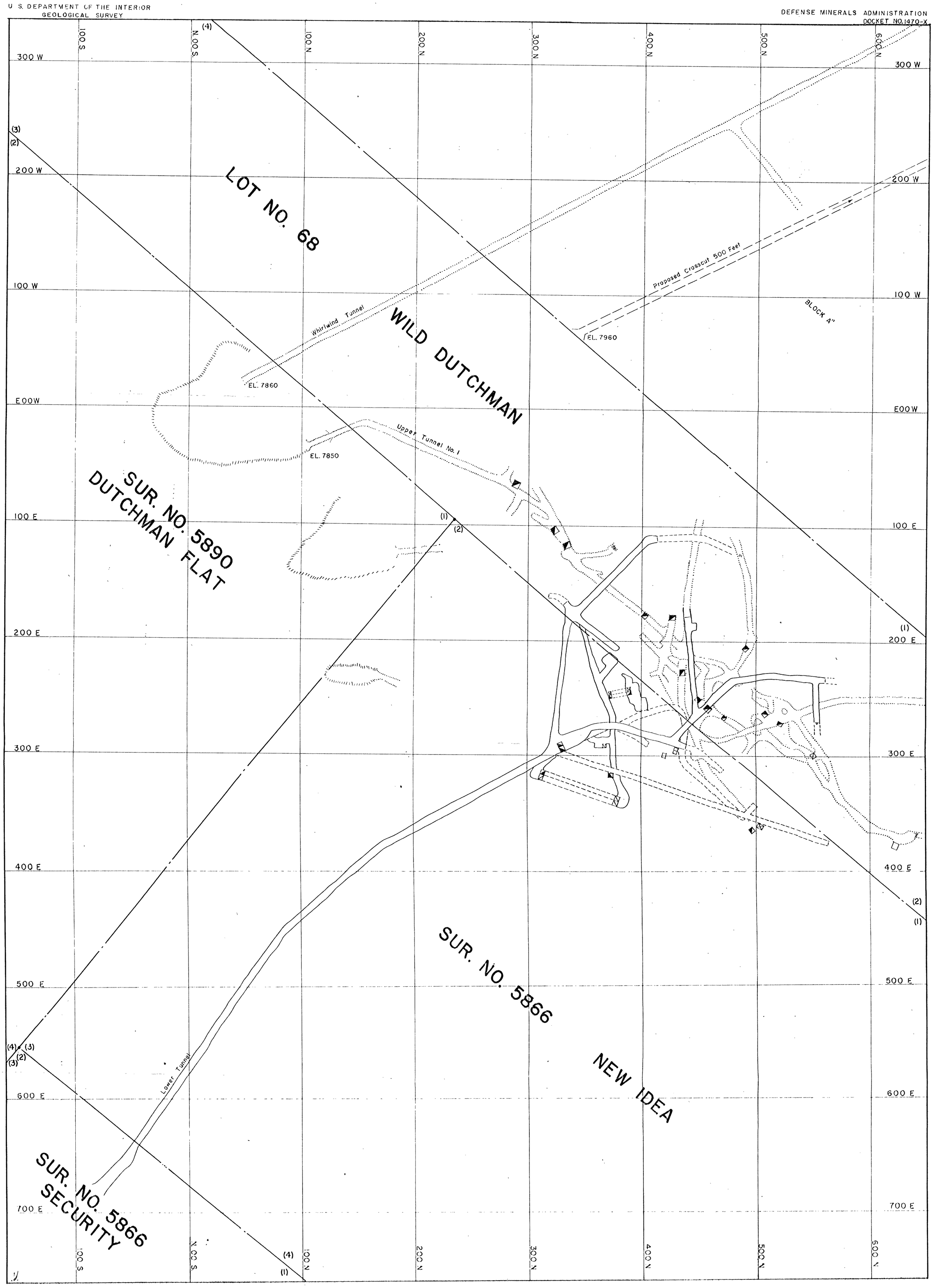


FIG. 4

COMPOSITE OF LEVELS
DUTCHMAN MINE
AMERICAN FORK CANYON
UTAH COUNTY, UTAH

0 50 100 FEET
Scale