DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 776 X

DO NOT DETACH THIS SLIP

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This document has been recorded as

Exploration Loan

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

Routing Slip

To:	Board Committee	Date	JUL 27 1951
To:	Reports & Records	Date	JUL 31 1951
To:	Code 3V-0 Lead Zinc Br.	Date	10-8-51
To:		Date	
To:	Supply Div.	Date	OCT 12 1951 Oct. 12, 1951
To:	Rec. Copper Branch	Date	Oct. 17, 1951
To:	CODE 700-RM. 4070B	Date	1-9-52
To: (1)	Mr. Johnson Rm. 3621	Date	1-24-52
To: (2)	Mr. Nelson	Date	
To: (3)	Oper. Com.	Date	4/9-52
To:	Mr. Mittendorf	Date	
To:	Mails & Files	Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

MF-200
(June 1951)

Docket No. DMA 776X
Commodity Copper

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] Clarence Carr and J. M. Carr
Route 1
Valley, Washington

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 Washington, County of Stevens described as follows: [3]
Edna mine, including Edna, Log Cabin, Mother Lode, Mother Lode Extension, and September Claims, in SE¼, sec. 9 and SW¼, sec. 10, T. 31 N., R. 39 E.; these claims are unpatented.

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:
No liens or encumbrances

(*b*) ~~That he is a lessee in possession and entitled to possession, and that the property is subject only to the following exceptions, as to each of which the consent of the owner is attached:~~

3. *Exploration project.* The Operator, within _____ days from the date of this contract shall commence work on a project of exploration for [5] Copper; 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] 12 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 $13,135.00, which is 50 percent of the agreed estimated total cost of this project, $26,270.00.

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 776X
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A"

Description of Work

The purpose of this project is to find the downward extension of a copper mineralized vein which is exposed at the surface on the Mother Lode claim and the Mother Lode Extension claim of the Edna mine.

If the results of the diamond-drilling program indicate the downward extensions of the vein are of minable width and grade, the former underground workings, including 300 feet of shaft and 750 feet of drifts, are to be rehabilitated to facilitate exploring and sampling the vein exposed in the workings.

The location of the proposed diamond drill holes are indicated on the attached map. A maximum of four short diamond drill holes, designated as S1, S2, S3 and S4, are to be drilled to insure that the vein or vein structure is continuous between the known surface exposures. A minimum of short holes to insure the structure should be drilled, after which initiation of drilling the longer diamond drill holes should be undertaken. After drilling diamond drill hole, No. 1, is completed, the location and drilling of each successive hole will be dependent upon success or failure of the preceding hole in intersecting the ore-bearing vein. If all holes are successful in intersecting the mineralized vein for a minable width, the sequence of holes drilled will be No. 1, No. 2, No. 3, No. 4, No. 5, and No. 6. If No. 1 hole is not successful, No. 3 and No. 5 should be the next two holes drilled. If none of these holes are considered successful in intersecting the vein for a minable width and grade, the exploration program should be terminated.

Docket DMA 776X
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (cont'd)

The diamond-drilling portion of the exploration program includes the following holes whose locations are indicated on the accompanying map:

Hole No.	Approximate Bearing (True North)	Approximate Vertical Angle	Approximate Length (feet)
S1	S. 67° E.	-58°	50
S2	"	-44°	60
S3	"	-25°	35
S4	"	-36°	50
1	"	-42°	200
2	"	-48°	350
3	"	-56°	400
4	"	-54°	250
5	"	-58°	275
6	"	-58°	425
		Total length of holes	2095

Cost of Exploration

Diamond-Drilling Program

Preparation of Diamond Drilling Sites	$ 2,000.00
2095 feet of diamond-drill hole at $6.00/ft.	12,570.00
Building construction	200.00
Sampling and assaying	1,000.00
Road Maintenance	500.00
Total cost of diamond-drilling program	$16,270.00

Rehabilitation of Underground Workings

Rehabilitate 300 feet of shaft	$ 6,000.00
Rehabilitate 750 feet of shaft	4,000.00
Total cost of rehabilitation project	$10,000.00

Total cost of exploration project $26,270.00

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (Con't.)

Fixtures and Improvements:

Diamond-Drill Program

1 building to house diamond-drill equipment	$ 200.00

Rehabilitation Program

1 hoist house, head frame, and compressor shed	1,500.00

No other fixtures and improvements are to be allowed as cost of the exploration project.

Operating Equipment:

Rented: None
Purchased:
Diamond Drilling Program-None
Rehabilitation - 500 feet of 5/8-inch steel cable $ 110.00
3 ton of 12-lb. rail (used) at $115.00/ton 345.00
Furnished:
Diamond Drill Program-

Item	Estimated replacement cost	Allowable monthly rental
1 D-7 Caterpillar with dozer blade, (may also be used in rehabilitation program.)	$ 10,000.00	$ 167.00
1 diamond-drilling outfit including accessory equipment	2,200.00	37.00
Rehabilitation Program-		
1 C-P Portable Gas Compressor, 315 cfm	6,000.00	100.00
1 Jackhammer	300.00	5.00

Docket DMA 776 X
Commodity Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (Con't.)

1 Hoist, gasoline-powered, including motor	2,000.00	33.00
1 Pump, air driven	500.00	[illegible].00
1 Ore skip	200.00	3.00
1 Mine car, 1[illegible] cubic foot	120.00	2.00

Labor and Supervision:

Diamond Drilling-	
1 Diamond Drill operator	$ 2.00/hr.
1 Diamond Driller operator helper	1.75/hr.
1 Technical consultant, part time	100.00/mo.
1 Bulldozer operator	2.00/hr.
Rehabilitation work-	
1 Supervisor	400.00/mo.
1 Surface laborer	1.50/hr.
2 Miners	1.75/hr.
1 Hoistman	1.75/hr.

The above rates are subject to lawful overtime increases and revisions of pay scale under union contracts.

Rehabilitation and Repairs:

None, except rehabilitation of shaft and mine workings as specified above.

Docket No. DMA 776X
Commodity: Copper

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] Clarence Carr and J. M. Carr, Route 1, Valley, Washington, hereinafter called the "Operator," as follows:

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2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Washington, County of Stevens described as follows: [3] Edna mine, including Edna, Log Cabin, Mother Lode, Mother Lode Extension, and September Claims, in SE¼, sec. 9 and SW¼, sec. 10, T. 31 N., R. 39 E.; these claims are unpatented.

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: No liens or encumbrances

(*b*) ~~[illegible]~~

3. *Exploration project.* The Operator, within ..... days from the date of this contract shall commence work on a project of exploration for [5] Copper; 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] 12 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.

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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.

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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 EMA 776X
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A"

Description of Work

The purpose of this project is to find the downward extension of a copper mineralized vein which is exposed at the surface on the Mother Lode claim and the Mother Lode Extension claim of the Edna mine.

If the results of the diamond-drilling program indicate the downward extensions of the vein are of minable width and grade, the former underground workings, including 300 feet of shaft and 750 feet of drifts, are to be rehabilitated to facilitate exploring and sampling the vein exposed in the workings.

The location of the proposed diamond drill holes are indicated on the attached map. A maximum of four short diamond drill holes, designated as S1, S2, S3 and S4, are to be drilled to insure that the vein or vein structure is continuous between the known surface exposures. A minimum of short holes to insure the structure should be drilled, after which initiation of drilling the longer diamond drill holes should be undertaken. After drilling diamond drill hole, No. 1, is completed, the location and drilling of each successive hole will be dependent upon success or failure of the preceding hole in intersecting the ore-bearing vein. If all holes are successful in intersecting the mineralized vein for a minable width, the sequence of holes drilled will be No. 1, No. 2, No. 3, No. 4, No. 5, and No. 6. If No. 1 hole is not successful, No. 3 and No. 5 should be the next two holes drilled. If none of these holes are considered successful in intersecting the vein for a minable width and grade, the exploration program should be terminated.

Docket DMA 776X
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (cont'd)

The diamond-drilling portion of the exploration program includes the following holes whose locations are indicated on the accompanying map:

Hole No.	Approximate Bearing (True North)	Approximate Vertical Angle	Approximate Length (feet)
S1	S. 67° E.	-38°	50
S2	"	-44°	60
S3	"	-25°	35
S4	"	-36°	50
1	"	-42°	200
2	"	-48°	350
3	"	-56°	400
4	"	-54°	250
5	"	-58°	275
6	"	-58°	425
		Total length of holes	2095

Cost of Exploration

Diamond-Drilling Program

Preparation of Diamond Drilling Sites	$ 2,000.00
2095 feet of diamond-drill hole at $6.00/ft.	12,570.00
Building construction	200.00
Sampling and assaying	1,000.00
Road Maintenance	500.00
Total cost of diamond-drilling program	$16,270.00

Rehabilitation of Underground Workings

Rehabilitate 300 feet of shaft	$ 6,000.00
Rehabilitate 750 feet of shaft	4,000.00
Total cost of rehabilitationproject	$10,000.00

Total cost of exploration project	$26,270.00

Docket DMA 776 X
Commodity Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (Con't.)

Fixtures and Improvements:

Diamond-Drill Program

1 building to house diamond-drill equipment	$ 200.00

Rehabilitation Program

1 hoist house, head frame, and compressor shed	1,500.00

No other fixtures and improvements are to be allowed as cost of the exploration project.

Operating Equipment:

Rented: None
Purchased:
Diamond Drilling Program-None
Rehabilitation - 500 feet of 5/8-inch steel cable $ 110.00
3 ton of 12-lb. rail (used) at $115.00/ton 345.00

Furnished:
Diamond Drill Program-

Item	Estimated replacement cost	Allowable Monthly rental
1 D-7 Caterpillar with dozer blade, (may also be used in rehabilitation program.)	$ 10,000.00	$ 167.00
1 Diamond-drilling outfit including accessory equipment	2,200.00	37.00
Rehabilitation Program-		
1 C-P Portable Gas Compressor, 315 cpm	6,000.00	100.00
1 Jackhammer	300.00	5.00

Docket DA 776 X
Commodity Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (Con't.)

1 Hoist, gasoline-powered, including motor	2,000.00	33.00
1 Pump, air driven	500.00	[illegible].00
1 Ore skip	200.00	3.00
1 Mine car, 1[illegible] cubic foot	120.00	2.00

Labor and Supervision:

Diamond Drilling-	
1 Diamond Drill operator	$ 2.00/hr.
1 Diamond Driller operator helper	1.75/hr.
1 Technical consultant, part time	100.00/mo.
1 Bulldozer operator	2.00/hr.
Rehabilitation work-	
1 Supervisor	400.00/mo.
1 Surface laborer	1.50/hr.
2 Miners	1.75/hr.
1 Hoistman	1.75/hr.

The above rates are subject to lawful overtime increases and revisions of pay scale under union contracts.

Rehabilitation and Repairs:

None, except rehabilitation of shaft and mine workings as specified above.

MF-200
(June 1951)

Docket No. DMA 776X
Commodity Copper

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] Clarence Carr and J. M. Carr
Route 1
Valley, Washington

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 Washington, County of Stevens described as follows: [3] Edna mine, including Edna, Log Cabin, Mother Lode, Mother Lode Extension, and September Claims, in SE¼, sec. 9 and SW¼, sec. 10, T. 31 N., R. 39 E.; these claims are unpatented.

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: No liens or encumbrances

(*b*) ~~[illegible]~~

3. *Exploration project.* The Operator, within _____ days from the date of this contract shall commence work on a project of exploration for [5] Copper; 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] 12 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 $--13,135.00---, which is -------50--- percent of the agreed estimated total cost of this project, $-26,270.00-------.

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 776X
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A"

Description of Work

The purpose of this project is to find the downward extension of a copper mineralized vein which is exposed at the surface on the Mother Lode claim and the Mother Lode Extension claim of the Edna mine.

If the results of the diamond-drilling program indicate the downward extensions of the vein are of minable width and grade, the former underground workings, including 300 feet of shaft and 750 feet of drifts, are to be rehabilitated to facilitate exploring and sampling the vein exposed in the workings.

The location of the proposed diamond drill holes are indicated on the attached map. A maximum of four short diamond drill holes, designated as S1, S2, S3 and S4, are to be drilled to insure that the vein or vein structure is continuous between the known surface exposures. A minimum of short holes to insure the structure should be drilled, after which initiation of drilling the longer diamond drill holes should be undertaken. After drilling diamond drill hole, No. 1, is completed, the location and drilling of each successive hole will be dependent upon success or failure of the preceding hole in intersecting the ore-bearing vein. If all holes are successful in intersecting the mineralized vein for a minable width, the sequence of holes drilled will be No. 1, No. 2, No. 3, No. 4, No. 5, and No. 6. If No. 1 hole is not successful, No. 3 and No. 5 should be the next two holes drilled. If none of these holes are considered successful in intersecting the vein for a minable width and grade, the exploration program should be terminated.

Docket DMA 776X
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (cont'd)

The diamond-drilling portion of the exploration program includes the following holes whose locations are indicated on the accompanying map:

Hole No.	Approximate Bearing (True North)	Approximate Vertical Angle	Approximate Length (feet)
S1	S. 67° E.	-38°	50
S2	"	-44°	60
S3	"	-25°	35
S4	"	-36°	50
1	"	-42°	200
2	"	-48°	350
3	"	-56°	400
4	"	-54°	250
5	"	-58°	275
6	"	-58°	425
		Total length of holes	2095

Cost of Exploration

Diamond-Drilling Program

Preparation of Diamond Drilling Sites	$ 2,000.00
2095 feet of diamond-drill hole at $6.00/ft.	12,570.00
Building construction	200.00
Sampling and assaying	1,000.00
Road Maintenance	500.00
Total cost of diamond-drilling program	$16,270.00

Rehabilitation of Underground Workings

Rehabilitate 300 feet of shaft	$ 6,000.00
Rehabilitate 750 feet of shaft	4,000.00
Total cost of rehabilitation project	$10,000.00

Total cost of exploration project	$26,270.00

Exploration Project Contract
Alpha Mine Property
Stevens County, Washington

EXHIBIT "A" (Cont'd.)

Fixtures and Improvements:

Diamond-Drill Program

1 building to house diamond-drill equipment	$ 200.00

Rehabilitation Program

1 hoist house, head frame, and compressor shed	1,500.00

No other fixtures and improvements are to be allowed as cost of the exploration project.

Operating Equipment:

Rented: None
Purchased:
Diamond Drilling Program—None
Rehabilitation - 500 feet of 5/8-inch steel cable $ 110.00
3 tons of 12-lb. rail (used) at $115.00/ton 345.00
Furnished:
Diamond Drill Program-

Item	Estimated replacement cost	Allowable monthly rental
1 D-7 Caterpillar with dozer blade, (may also be used in rehabilitation program.)	10,000.00	$ 167.00
1 Diamond-drilling outfit including accessory equipment	2,200.00	37.00
Rehabilitation Program -		
1 D-7 portable air compressor, 315 cfm	6,000.00	100.00
1 jackhammer	300.00	5.00

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT WAM (Cont.)

1 Hoist, gasoline-powered, including motor	2,000.00	33.00
1 Pump, air driven	500.00	.00
1 Ore skip	200.00	3.00
1 Mine car, [illegible] cubic foot	120.00	2.00

Labor and Supervision:

Diamond Drilling-

1 Diamond Drill operator	$ 2.00/hr.
1 Diamond Driller operator helper	1.75/hr.
1 Technical consultant, part time	100.00/mo.
1 Bulldozer operator	2.00/hr.

Rehabilitation work-

1 Supervisor	400.00/mo.
1 Surface laborer	1.50/hr.
2 Miners	1.75/hr.
1 Hoistman	1.75/hr.

The above rates are subject to lawful overtime increases and revisions of pay scale under union contracts.

Rehabilitation and Repairs:

None, except rehabilitation of shaft and mine workings as specified above.

MF-200
(June 1951)

Docket No. DMA 776X
Commodity Copper

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] Clarence Carr and J. M. Carr, Route 1, Valley, Washington, 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 Washington, County of Stevens, described as follows: [3] Edna mine, including Edna, Log Cabin, Mother Lode, Mother Lode Extension, and September Claims, in SE¼, sec. 9 and SW¼, sec. 10, T. 31 N., R. 39 E.; these claims are unpatented.

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: No liens or encumbrances

(*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 _____ days from the date of this contract shall commence work on a project of exploration for [5] Copper; 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] 12 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 $13,135.00, which is 50 percent of the agreed estimated total cost of this project, $26,270.00.

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—64060-2

Docket DMA 776X
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A"

Description of Work

The purpose of this project is to find the downward extension of a copper mineralized vein which is exposed at the surface on the Mother Lode claim and the Mother Lode Extension claim of the Edna mine.

If the results of the diamond-drilling program indicate the downward extensions of the vein are of minable width and grade, the former underground workings, including 300 feet of shaft and 750 feet of drifts, are to be rehabilitated to facilitate exploring and sampling the vein exposed in the workings.

The location of the proposed diamond drill holes are indicated on the attached map. A maximum of four short diamond drill holes, designated as S1, S2, S3 and S4, are to be drilled to insure that the vein or vein structure is continuous between the known surface exposures. A minimum of short holes to insure the structure should be drilled, after which initiation of drilling the longer diamond drill holes should be undertaken. After drilling diamond drill hole, No. 1, is completed, the location and drilling of each successive hole will be dependent upon success or failure of the preceding hole in intersecting the ore-bearing vein. If all holes are successful in intersecting the mineralized vein for a minable width, the sequence of holes drilled will be No. 1, No. 2, No. 3, No. 4, No. 5, and No. 6. If No. 1 hole is not successful, No. 3 and No. 5 should be the next two holes drilled. If none of these holes are considered successful in intersecting the vein for a minable width and grade, the exploration program should be terminated.

Docket DMA 776K
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (cont'd)

The diamond-drilling portion of the exploration program includes the following holes whose locations are indicated on the accompanying map:

Hole No.	Approximate Bearing (True North)	Approximate Vertical Angle	Approximate Length (feet)
S1	S. 67° E.	-38°	50
S2	"	-44°	60
S3	"	-25°	35
S4	"	-36°	50
1	"	-42°	200
2	"	-48°	350
3	"	-56°	400
4	"	-54°	250
5	"	-58°	275
6	"	-58°	425
		Total length of holes	2095

Cost of Exploration

Diamond-Drilling Program

Preparation of Diamond Drilling Sites	$ 2,000.00
2095 feet of diamond-drill hole at $6.00/ft.	12,570.00
Building construction	200.00
Sampling and assaying	1,000.00
Road Maintenance	500.00
Total cost of diamond-drilling program	$16,270.00

Rehabilitation of Underground Workings

Rehabilitate 300 feet of shaft	$ 6,000.00
Rehabilitate 750 feet of shaft	4,000.00
Total cost of rehabilitation project	$10,000.00

Total cost of exploration project $26,270.00

Docket DA 776 1
Commodity Copper

Exploration Project Contract
Ada Lee Property
Stevens County, Washington

Sec. II "A" (Cont'd.)

Fixtures and improvements:

Diamond-drill Program

1 building to house diamond-drill equipment	$ 200.00

Rehabilitation Program

1 hoist house, head frame, and compressor shed	1,500.00

No other fixtures and improvements are to be allowed as cost of the exploration project.

Operating equipment:

Rented: None
Purchased:
Diamond drilling Program - None
Rehabilitation - 500 feet of 5/8-inch steel cable $ 110.00
3 ton of 12-lb. rail (used) at $115.00/ton 345.00

Furnished:
Diamond drill Program -

Item	Estimated replacement cost	Allowable monthly rental
1 D-7 Caterpillar with dozer blade, (A also to be used in rehabilitation program.)	$ 10,000.00	$ 167.00
1 diamond-drilling outfit including accessory equipment	2,200.00	37.00

Rehabilitation Program -

1 portable gas compressor, 315 cfm	6,000.00	100.00
2 [illegible]	300.00	5.00

Exploration Project Contract
[illegible] Mine Property
Stevens County, Washington

[illegible] "A" (Cont'd.)

1 Hoist, gasoline-powered, including motor	2,000.00	33.00
1 Pump, air driven	500.00	.00
1 Ore skip	200.00	3.00
1 Mine car, 1[illegible] cubic foot	120.00	2.00

Labor and Supervision:

Diamond Drilling-

1 Diamond drill operator	[illegible]2.00/hr.
1 Diamond driller operator helper	1.75/hr.
1 Technical consultant, part time	100.00/mo.
1 Bulldozer operator	2.00/hr.

Rehabilitation work-

1 Supervisor	400.00/mo.
1 Surface laborer	1.50/hr.
2 Miners	1.75/hr.
1 Hoistman	1.75/hr.

The above rates are subject to lawful overtime increases and revisions of pay scale under union contracts.

Rehabilitation and Repairs:

None, except rehabilitation of shaft and mine workings as specified above.

MF-200
(June 1951)

Docket No. DMA 776X
Commodity Copper

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] Clarence Carr and J. M. Carr
Route 1
Valley, Washington

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 Washington, County of Stevens described as follows: [3]
Edna mine, including Edna, Log Cabin, Mother Lode, Mother Lode Extension, and September Claims, in SE¼, sec. 9 and SW¼, sec. 10, T. 31 N., R. 39 E.; these claims are unpatented.

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:
No liens or encumbrances

(*b*) ~~[illegible]~~

3. *Exploration project.* The Operator, within _____ days from the date of this contract shall commence work on a project of exploration for [5] Copper; 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] 12 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 $13,135.00, which is 50 percent of the agreed estimated total cost of this project, $26,270.00.

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 776X
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A"

Description of Work

The purpose of this project is to find the downward extension of a copper mineralized vein which is exposed at the surface on the Mother Lode claim and the Mother Lode Extension claim of the Edna mine.

If the results of the diamond-drilling program indicate the downward extensions of the vein are of minable width and grade, the former underground workings, including 300 feet of shaft and 750 feet of drifts, are to be rehabilitated to facilitate exploring and sampling the vein exposed in the workings.

The location of the proposed diamond drill holes are indicated on the attached map. A maximum of four short diamond drill holes, designated as S1, S2, S3 and S4, are to be drilled to insure that the vein or vein structure is continuous between the known surface exposures. A minimum of short holes to insure the structure should be drilled, after which initiation of drilling the longer diamond drill holes should be undertaken. After drilling diamond drill hole, No. 1, is completed, the location and drilling of each successive hole will be dependent upon success or failure of the preceding hole in intersecting the ore-bearing vein. If all holes are successful in intersecting the mineralized vein for a minable width, the sequence of holes drilled will be No. 1, No. 2, No. 3, No. 4, No. 5, and No. 6. If No. 1 hole is not successful, No. 3 and No. 5 should be the next two holes drilled. If none of these holes are considered successful in intersecting the vein for a minable width and grade, the exploration program should be terminated.

Docket DMA 776X
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (cont'd)

The diamond-drilling portion of the exploration program includes the following holes whose locations are indicated on the accompanying map:

Hole No.	Approximate Bearing (True North)	Approximate Vertical Angle	Approximate Length (feet)
S1	S. 67° E.	-38°	50
S2	"	-44°	60
S3	"	-25°	35
S4	"	-36°	50
1	"	-42°	200
2	"	-48°	350
3	"	-56°	400
4	"	-54°	250
5	"	-58°	275
6	"	-58°	425
		Total length of holes	2095

Cost of Exploration

Diamond-Drilling Program

Preparation of Diamond Drilling Sites	$ 2,000.00
2095 feet of diamond-drill hole at $6.00/ft.	12,570.00
Building construction	200.00
Sampling and assaying	1,000.00
Road Maintenance	500.00
Total cost of diamond-drilling program	$16,270.00

Rehabilitation of Underground Workings

Rehabilitate 300 feet of shaft	$ 6,000.00
Rehabilitate 750 feet of shaft	4,000.00
Total cost of rehabilitation project	$10,000.00

Total cost of exploration project $26,270.00

Docket DMA 776 X
Commodity Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (Con't.)

Fixtures and Improvements:

Diamond-Drill Program

1 building to house diamond-drill equipment	$ 200.00

Rehabilitation Program

1 hoist house, head frame, and compressor shed	1,500.00

No other fixtures and improvements are to be allowed as cost of the exploration project.

Operating Equipment:

Rented: None
Purchased:
Diamond Drilling Program-None
Rehabilitation - 500 feet of 5/8-inch steel cable $ 110.00
3 ton of 12-lb. rail (used) at $115.00/ton 345.00

Furnished:
Diamond Drill Program-

Item	Estimated replacement cost	Allowable Monthly rental
1 D-7 Caterpillar with dozer blade, (May also be used in rehabilitation program.)	10,000.00	$ 167.00
1 Diamond-drilling outfit including accessory equipment	2,200.00	37.00

Rehabilitation Program-

1 [illegible]-P Portable Gas Compressor, 315 cpm	6,000.00	100.00
1 Jackhammer	300.00	5.00

Docket DMA 776 X
Commodity Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (Con't.)

1 Hoist, gasoline-powered, including motor	2,000.00	33.00
1 Pump, air driven	500.00	.00
1 Ore skip	200.00	3.00
1 Mine car, 12 cubic foot	120.00	2.00

Labor and Supervision:

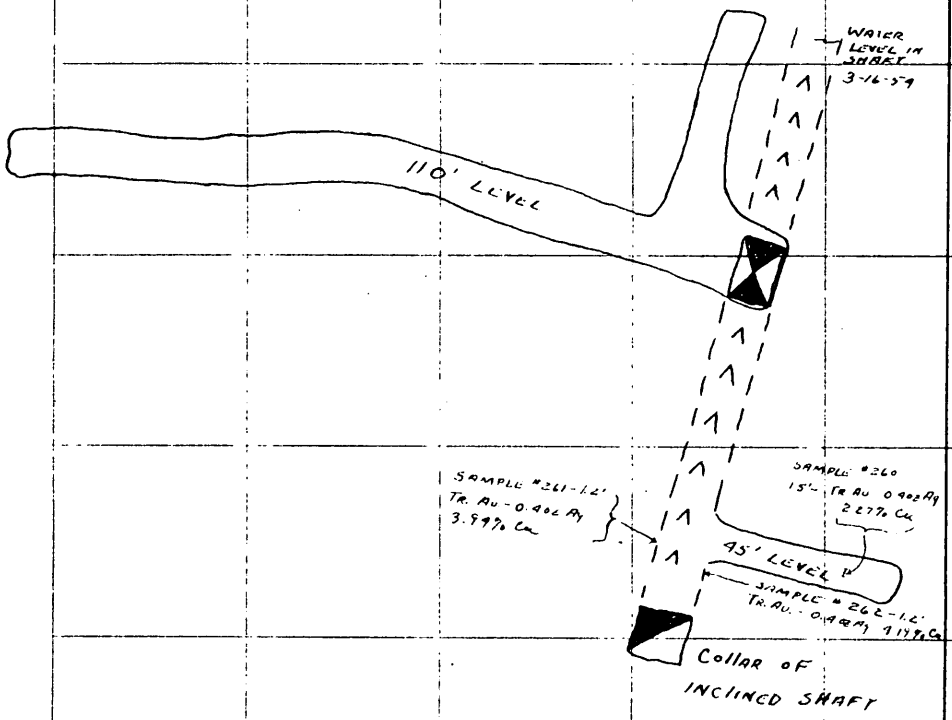
Diamond Drilling-	
1 Diamond Drill operator	2.00/hr.
1 Diamond Driller operator helper	1.75/hr.
1 Technical consultant, part time	100.00/mo.
1 Bulldozer operator	2.00/hr.
Rehabilitation work-	
1 Supervisor	400.00/mo.
1 Surface laborer	1.50/hr.
2 Miners	1.75/hr.
1 Hoistman	1.75/hr.

The above rates are subject to lawful overtime increases and revisions of pay scale under union contracts.

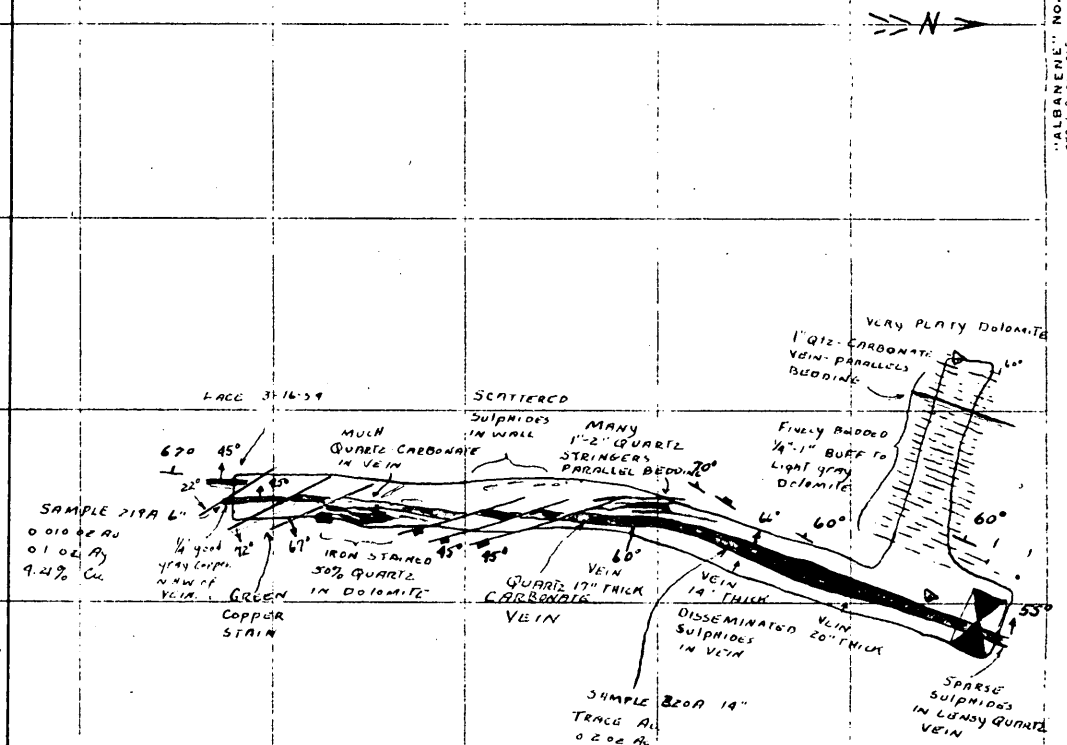
Rehabilitation and Repairs:

None, except rehabilitation of shaft and mine workings as specified above.

DOCKET No DMEA 776X (COPPER



COMPOSITE PLAN SHOWING AREA OF EDNA SHAFT DEWATERED ON 3-16-59



Geology of 110' LEVEL

EDNA MINE SHAFT

EDNA MINE

STEVENS COUNTY, WASHINGTON

1" = 20'

TAPE & COMPASS SURVEY 3-16-59
W.S ANDERSON - USBM
W.P. PUFFETT - USGS.

"ALBANENE" NO. 195W ALBANY, N.Y. REG. U.S. PAT. OFF.

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

August 18, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA 776x (Denied), Edna Mine, Carr Brothers, Stevens County, Washington.

On Tuesday, March 16, 1954, Webster S. Anderson, engineer, U. S. Bureau of Mines, and I examined the dewatered portion of the Edna shaft. Mr. J. M. Carr and Mr. Nelson were at the property supervising the pumping operation. The water had been lowered to 149 feet below the shaft collar, and this work had drained a drift to the north 45 feet below the collar and a drift to the south 110 feet below the collar.

The drift to the south was mapped and sampled; a copy of the map showing assay results of sampling on the 110 and 45 foot levels accompanies this memorandum.

The vein, consisting of massive quartz and coarse-grained carbonates, persists in the walls of the shaft to the water level. In general it follows the bedding in the enclosing buff to gray dolomites, but locally pinches and swells. The maximum thickness of the vein is about 40 inches.

In the drift to the north on the 45-foot level, gray copper sulfides fill fractures in the quartz. These fracture fillings average about one-fourth to one-half inch thick and strike northeastward across the vein.

As can be seen on the accompanying map, the vein on the 110-foot level gradually thins on its southward extension. It becomes much broken by northwest-trending joints and faults and at the face appears to be fingering out into a number of narrow stringers.

There is a short crosscut into the hillside some 310 feet southwest of the collar of the shaft. This crosscut has been driven eastward through platy dolomite in an effort to intersect

the southward extension of the Edna vein. It was estimated that if the vein persisted that far to the south it would be intersected if the crosscut were advanced another 30 feet.

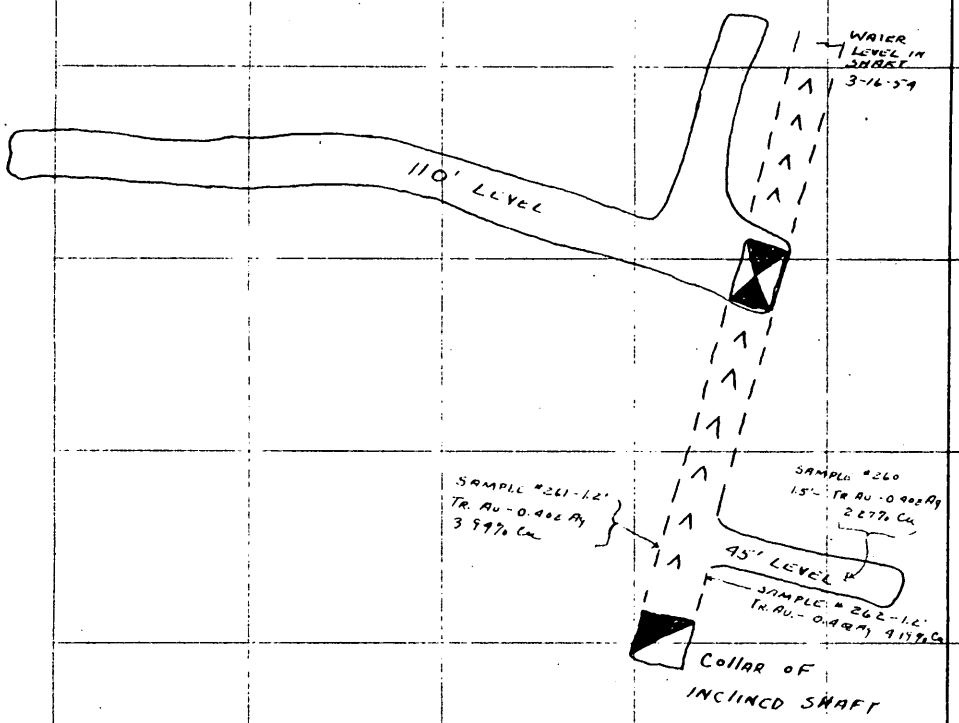
Subsequent to the date of this inspection, the Carr brothers reported that under a leasing agreement with Earl Gibbs, of Colville, Washington, this crosscut was extended, but no evidence of the vein was found. The dump material near the collar of the Edna shaft was concentrated in Earl Gibb's mill at the Palmer siding north of Colville, and it is reported that this rock averaged 1.34 percent copper. The mill concentrates assayed 29.94 percent copper, and the mill tailings assayed 0.22 percent copper.

Recently Clarence Carr visited me in the Spokane office and reported that they were going to attempt to dewater the rest of the shaft and other underground workings that are reported to have been driven from lower levels; he asked if he could obtain DMEA assistance on such a project. I told him that the vein material that had been exposed in the dewatered portions of the shaft does not look encouraging and stated that I would not recommend further work in the shaft.

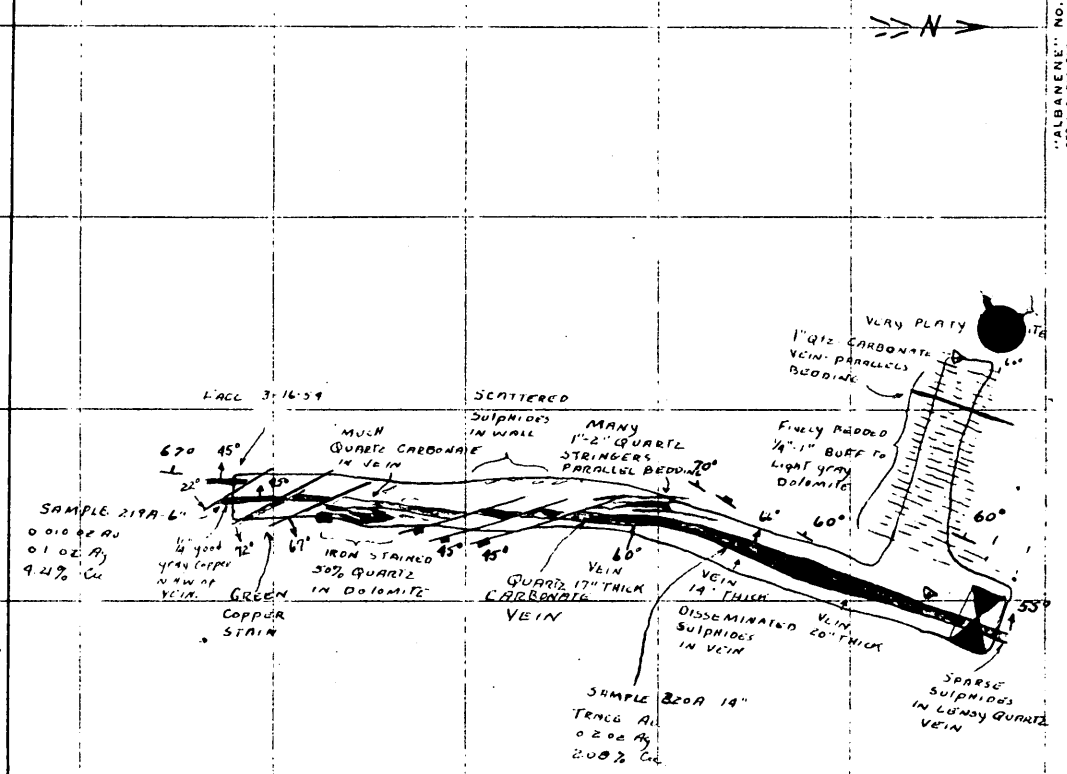
If the Carr brothers do complete the dewatering operation, they will notify our office so that we can complete the mapping of these old workings, and thus complete our file on this property.

Attachment 1
Distribution:
DMEA(orig & 3)
USBM(2)
Docket
Puffett

DOCKET No DMEA 776X "COPPER"



COMPOSITE PLAN SHOWING AREA OF EDNA SHAFT DEWATERED ON 3-16-59



Geology of 110' LEVEL

EDNA MINE SHAFT

EDNA MINE

STEVENS COUNTY, WASHINGTON

1" = 20'

Tape & Compass Survey 3-16-59
W.S ANDERSON - USBM
W.P. PUFFETT - USGS.

"ALBANENE" NO. 180M KALECO REG. U.S. PAT. OFF

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

August 18, 1954

Memorandum

Lead, Copper, zinc, antimony

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA 776x (Denied), Edna Mine, Carr Brothers, Stevens County, Washington.

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The drift to the south was mapped and sampled; a copy of the map showing assay results of sampling on the 110 and 45 foot levels accompanies this memorandum.

The vein, consisting of massive quartz and coarse-grained carbonates, persists in the walls of the shaft to the water level. In general it follows the bedding in the enclosing buff to gray dolomites, but locally pinches and swells. The maximum thickness of the vein is about 40 inches.

In the drift to the north on the 45-foot level, gray copper sulfides fill fractures in the quartz. These fracture fillings average about one-fourth to one-half inch thick and strike northeastward across the vein.

As can be seen on the accompanying map, the vein on the 110-foot level gradually thins on its southward extension. It becomes much broken by northwest-trending joints and faults and at the face appears to be fingering out into a number of narrow stringers.

There is a short crosscut into the hillside some 310 feet southwest of the collar of the shaft. This crosscut has been driven eastward through platy dolomite in an effort to intersect

the southward extension of the Ethan vein. It was estimated that if the vein persisted that far to the south it would be intersected if the crosscut were advanced another 30 feet.

Subsequent to the date of this inspection, the Carr brothers reported that under a leasing agreement with Earl Gibbs, of Colville, Washington, this crosscut was extended, but no evidence of the vein was found. The dump material near the collar of the Ethan shaft was concentrated in Earl Gibb's mill at the Falmer siding north of Colville, and it is reported that this rock averaged 1.34 percent copper. The mill concentrates averaged 29.94 percent copper, and the mill tailings averaged 0.22 percent copper.

Recently Clarence Carr visited me in the Spokane office and reported that they were going to attempt to dewater the rest of the shaft and other underground workings that are reported to have been driven from lower levels; he asked if he could obtain WPA assistance on such a project. I told him that the vein material that had been exposed in the dewatered portions of the shaft does not look encouraging and stated that I would not recommend further work in the shaft.

If the Carr brothers do complete the dewatering operation, they will notify our office so that we can complete the mapping of these old workings, and thus complete our file on this property.

Attachment 1
Distribution:
WPA(orig & 3)
USBM(2)
Backer
Fairfield

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

March 8, 1954

Mr. Clarence Carr
Route 1
Valley, Washington

Re: DMEA 776X (copper)
Edna mine
Stevens County, Washington
(Application denied 4/10/52)

Dear Mr. Carr:

Mr. W. S. Anderson of the Bureau of Mines and myself plan on visiting your property Tuesday, March 16 to inspect the shaft which you are opening. I hope that by then the water will be low enough to permit examination of considerable portions of the underground workings.

If you think this will be too early a date for an examination, please notify me immediately and we will delay plans for the trip.

Yours very truly,

Willard P. Puffett
Geologist

cc: DMEA (2)
USBM (2)
Docket

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

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

Department of the Interior
Defense Minerals Administration
RECEIVED
OCT 6 1953

Memorandum

September 28, 1953

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMA-776X (copper), Edna mine, Carr Brothers, Stevens County, Washington (application denied).

In response to a request by the owners, Mr. W. S. Anderson, U. S. Bureau of Mines and I examined the Edna mine shaft on Wednesday, September 9, 1953. The operators of this property had applied for an exploration loan but the application was denied by the Washington office on April 10, 1952. At that time the operators were informed that when further work was done, DMEA would be interested in learning of the results.

The operators have succeeded in rehabilitating an inclined shaft for nearly 50 feet. At this depth, it was discovered that a drift had been driven to the north for about 25 feet. A persistent quartz vein is exposed in the walls of the shaft and in the drift, in which occurs considerable gray copper ore, confined for the most part to crosscutting fractures at nearly right angles to the strike of the vein. The gray mineral is tennantite and there is considerable chalcopyrite associated with it.

No map of the workings was made but three samples were taken to determine the copper content. Following are the results of the sampling:

Sample No.	Width (feet)	Gold (oz./ton)	Silver (oz./ton)	Copper (percent)
260	1.5	Tr.	0.4	2.27
261	1.2	Tr.	0.4	3.94
262	1.2	Tr.	0.5	4.19

Sample no. 260 was taken across the vein in the back of the drift at a point 17 feet north of the center line of the shaft. The other two samples were taken on either side of the shaft at a depth of 38 feet below the collar.

It is the owners' intention to continue with the shaft rehabilitation to determine if the vein widens to minable width with depth.

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Puffett

MDL
500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
No. 157 Howard Street
Spokane 4, Washington

Memorandum

September 28, 1953

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Distribution:
DMEA (Orig. & 3)
USGM (2)
Docket
Puffett

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

APR 1 0 1952

Messrs. Clarence A. Carr and
W. A. Carr
Route No. 1
Valley, Washington

Re: Docket No. DM-776A (Loader)
Carr Brothers
Edna Mine
Stevens County, Washington

Gentlemen:

Reference is made to your application for aid for an exploration project in the amount of $26,270.00.

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, show definite promise of yielding material of acceptable grade, and in quantities that will significantly improve the mineral supply position for the National Defense Program.

A careful study of your application and examination of the property concerned, reveals that the probability of disclosing mineable reserves by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, I regret to advise, that your application for exploration aid is denied.

If the shaft and underground workings were made accessible for an examination and exploration aid was required, we will welcome the resubmission of your application.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

FHknouse/jem
4/7/52
cc to: Adm. Reading File
Docket
Messrs. C.H.Johnson, Rm. 3621
Ned Nelson, Rm. 4216 GS
Ellis
Knouse
Field Team, Region II (2)

Copied from
Charles E. Weaver, Stevens
"The Mineral Resources of
County" Bull. 20, Washington
Geological Survey, 1920

VALLEY DISTRICT

(Edna is in the Valley District)

p. 178-9 The Valley district lies to the south of the Chewelah district, in the south central portion of the county. It includes a group of mining properties situated in the foothills west of the town of Valley as well as a number of small prospects about three miles east of Valley. These properties are all reached by wagon road from Valley. Many of the locations were made shortly after the opening of the Colville Reservation and have been worked on a small scale rather spasmodically. The development work consists chiefly of tunnels on the higher slopes of the mountains but in the relatively flat areas the veins are worked by shafts.

The formations consist almost entirely of limestone and argillite which have been intruded occasionally by small masses of granite which are presumably apophyses of larger batholithic masses beneath. These rock formations have a prevailing northeasterly strike and a westerly dip. The ore deposits are largely of the replacement type and occupy zines of fracturing in the limestone or the calcareous argillite. The zones conform largely to the general strike of the formation but are usually transverse to the dip. The limonite deposits east of Valley lie in the limestone but in contact with basaltic lavas or monzonite dikes. The ores are chiefly lead, silver and copper. The gangue is primarily quartz although calcite occurs occasionally.

* * * * * * *

EDNA

p. 181-2 The Edna Mine is located in the southeast quarter of sec. 9, T. 31 N., R. 39 E., on the eastern side of the Huckleberry Mountains. The group embraces four claims known as the Alpine, Log Cabin, Log Cabin Extension and the Mother Lode. The mine is reached by wagon road from Valley, and is owned by the Valley Mining Company of Spokane. It was first located in 1896 by Axel Herman. During 1898 and 1899 a shaft was sunk on the Log Cabin Extension claim to a depth of 100 feet, and three cars of ore were shipped to the smelter. This ore came from near the surface where it was highly oxidized and leached and is said to have scarcely paid expenses.

In September, 1901, the property was taken over by J. B. Tuttle and Sons. Machinery was installed and active development carried on till June, 1904, during which time the shaft was sunk to the 370-foot level and about 750 feet of drifting was done on the ore body. About 150 tons of ore are said to have been shipped to the smelter which carried seven per cent copper, four ounces of silver and $2.75 in gold to the ton.

The property was idel from June, 1904, to April, 1917, when it was reopened. The shaft was retimbered and the machinery overhauled. Plans are now being made to sink the shaft an additional 200 feet. The equipment of the property now consists of good camp buildings, shaft and engine house, two 60-h. p. boilers, 3-drill air compressor, Sullivan air drills, etc.

For docket.

Reg 4640

4/8/52

Mr. Krause -

For inclusion in the Edwa docket DMA-776 X.

This is complete extract relating to the Edwa.

C Johnson

The country rock exposed in this locality is a part of the Deer Trail argillite and consists chiefly of argillite, quartz-mica schist and siliceous limestone. The strata have a prevailing strike of N. 10° E. and a dip of 80° to the northwest. The vein lies parallel to the bedding planes of the schist and has the same strike and dip. The shaft has been sunk on the vein and is the principal working development of the property. At the 300-foot level a drift has been made for 235 feet to the south and a crosscut for 108 feet to the west. On the 200-foot level there is a 135-foot drift and on the 135-foot level a 100-foot drift to the south. At the time of visit to the property it was impossible to examine the underground workings but there is said to be a zone somewhat mineralized for a width of 80 feet. On the footwall side of this 80-foot zone there are four feet of shipping ore and six feet of milling ore. The values are chiefly in copper and the chief ore mineral is chalcopyrite.

4/7/52 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

April 4, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMA 776X, Carr Brothers, Edna Mine (Copper), Stevens County, Washington

I have reviewed the Field Team report transmitted March 13, in which it is urged that a $5,000 project be approved to reopen the shaft, unwater, and inspect and sample the workings, and have discussed it with Mr. Knouse.

If more were known about the workings and ore showings underground, and if the job could be done as cheaply as indicated, the proposed work might be the logical step to take. However, I do not believe either the underground information or the cost estimates are reliable. The shallow drilling program suggested to Field Team by Mr. Knouse still appears to be the best. Since the Applicant does not want that, and since DMEA will not participate in simple unwatering - rehabilitation projects, I see no answer but to deny the application, as Mr. Knouse proposes to do.

C. H. Johnson
C. H. Johnson

~~Attachment~~ No

Copy to - Mr. Nelson, USGS
Minerals Division
C. H. Johnson
Base Metals Branch
Files

4/2/52 gla

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

March 13, 1952

Memorandum

To: Chairman, Operating Committee, DMEA
Attention: Mr. Knouse, Rare and Miscellaneous Metals Division

From: Field Team, Region II

Subject: Docket DMA 776x, Carr Brother's Edna Mine, Stevens County, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 20 1952

Enclosed herewith are the following:

Four copies of a memorandum to A. E. Weissenborn from Willard P. Puffett, U.S. Geological Survey,

Four copies of a memorandum to M. E. Volin from E. A. Magill, U.S. Bureau of Mines.

These memorandums describe and give a cost break-down of a changed proposed exploration project for copper at the Edna mine, Stevens County, Washington, and are the result of a conference with the applicants as requested in a March 4, 1952 telephone call to this office from Mr. Knouse.

This changed proposal has been submitted by the applicant as the type of exploration which he specifically desires. It is different from the original application in that shaft and underground workings rehabilitation is to be carried out without preliminary diamond drilling. The program is set up in two stages, the first stage being relatively simple and of modest cost; the second and more costly stage being contingent upon considered success of Stage I.

The probable result of successful completion of the project is a moderate indicated tonnage of six to seven percent copper, sufficient in dollar value to merit favorable consideration by the government.

By DMEA Field Team, Region II

Reviewed by
DMEA OPERATING COMMITTEE

3-28-52
(date)

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

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

Enclosures
cc: USBM, Spokane

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

March 13, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 20 1952

MEMORANDUM

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

From: Willard P. Puffett, U. S. Geological Survey.

Subject: Revisions in proposed exploration program for copper at Edna mine, Stevens County, Washington. Docket DMA 776X.

Mr. Knouse telephoned from Washington, D. C., Tuesday, March 4, 1952, to discuss possible changes in the proposed exploration program for copper at the Edna mine, Stevens County, Washington.

In accordance with suggestions of Mr. Knouse, a conference was held with Clarence and J. M. Carr, the applicants, and Mr. E. A. Magill of the U. S. Bureau of Mines. Changes in the program were discussed that would incorporate the type of exploration which the applicant specifically desires and at the same time would be considered feasible by DMEA field team examiners.

The applicant's original proposal in August, 1951, was to rehabilitate the main shaft and underground workings of the Edna mine. It was suggested to them that diamond drilling should first be initiated to determine if the Edna Vein was continuous and of sufficient width and grade to merit the probable high cost of rehabilitating the old workings. The applicant agreed to this and consequently an exploration proposal was forwarded to Washington, D. C., which incorporated six diamond drill holes to explore downward and lateral extensions of the vein before initiation of shaft rehabilitation.

Mr. Ned Nelson telephoned from Washington, D. C., January 18, 1952, suggesting more diamond drilling in the form of a number of short holes along the strike of the vein. The proposed contract was returned to this office and revised to include Mr. Nelson's suggestion. The revised contract was returned to Washington, D. C., February 6, 1952.

Mr. Knouse telephoned from Washington, D. C., February 21, 1952, stating that a program of shaft and underground rehabilitation which did not include further underground work such as drifting or crosscutting would not be considered feasible. He suggested a conference with the applicants discussing this and also he requested a more detailed cost breakdown of the proposed diamond drilling and shaft rehabilitation.

This conference was held and a memorandum transmitted to Washington, D. C., wherein the revised desires of the applicant as to exploration were indicated. Apparently this was not satisfactory for Mr. Knouse again called and another conference was held, the results of which are outlined below.

The applicant proposes to unwater the shaft and do sufficient rehabilitation to make the existing workings safe for geologic examination and sampling. If such work is successful in exposing ore or in exposing possibilities for ore, further underground work including drifting and diamond drilling will be done.

At the time of the field examination by DMA personnel, the shaft was caved and filled near the surface. The applicants state this condition has existed for only the past two or three years prior to which the shaft was open, although filled with water. Apparently when old machinery in the vicinity of the collar was sold for junk, timbers in the shaft collar were broken allowing muck to run into the shaft. It is the applicant's opinion that timbers have fallen into the shaft and in all probability the muck has hung up a short distance beneath the collar. Consequently, the applicant believes that only a moderately small amount of muck removal will be necessary before pumping operations to dewater the underground workings can be initiated.

The applicant possesses two trucks on either of which a boom and hoist with 250 feet of $\frac{1}{2}$ inch cable are mounted. This equipment has been used previously in logging operations. It is planned by the operator to use this equipment with a bucket in initially removing the cave from the shaft. Mr. Magill and myself concurred in that this appears a feasible and economical method for performing the work.

The applicant plans to rent a pump and generator set with which to carry out the pumping operations. The Carr brothers state they have contacted a member of the company which formerly operated the Edna mine. According to the man contacted, the Edna mine made very little water, and once the workings are dewatered, a small air driven pump will be able to handle seepage. It is anticipated that the underground should be unwatered within a month after pumping operations are first begun.

It is also reported that the shaft was not timbered below the 70 foot level, thus it appears probable that retimbering operations will only be nominal. The Carr brothers own their own lumber mill and consequently any timber required will be obtained at lowest possible costs.

Based upon the suppositions of the applicant, the initial stage of the proposed exploration appears quite feasible. An estimated total cost for this stage of exploration is $5,000.00.

The second stage of the exploration will, of course, be based on findings in Stage I. As now proposed, it would include drifting to the north on the Edna vein at two different elevations, total drifting not to exceed 300 feet. Also, if considered necessary for exploring the thickness of the ore zone, diamond drilling not to exceed a total of 400 feet from at least four separate stations is designated.

If the second stage of exploration is initiated, a surface plant including headframe and compressor house and a more permanent shaft collar will need to be built. This work plus the anticipated underground work can be done at an estimated cost of $17,000.00, making the total cost of the exploration project $22,000.00.

It is difficult to estimate the tonnage of ore which may be indicated upon successful completion of the above outlined project. No reports are available on which to base a judgment as to whether the ore zone exists as a continuous vein or as disconnected narrow lenses along the moderately sheared structure. Mr. Charles Weaver, in the paper referred to in the original field team report, states the ore zone is reported to be from 4 to 80 feet thick. As now exposed at the surface, the ore is one to three feet thick and assays 6 to 7 percent copper. If the vein contains ore of this grade with an average thickness of three feet and can be outlined 200 feet on strike and 200 feet in depth, a total indicated tonnage would be of the order of twelve thousand tons. At present prices this amounts in dollar value to nearly $250,000.00, five percent of which would be sufficient to amortize the government's share of proposed exploration costs.

The above program was discussed in detail by the applicants with Mr. Magill and myself. It is our opinion the program is feasible and shaft rehabilitation should not necessarily be dependent on preliminary diamond drilling. The existence of the old workings is sufficient in part to insure the possibility of the existence of the vein.

Mr. Magill has proposed exhibits including cost breakdowns as desired for contracts, four copies of which are herewith included. It is suggested that these exhibits and a copy of this memorandum be forwarded to the Operating Committee, attention Mr. Knouse, who has requested such information in his telephone call of March 4, 1952.

Willard P. Puffett

Willard P. Puffett,
Geologist

Enclosures.

cc: USBM - Spokane.

1201 N. Division St.
Spokane 2, Wash.
March 12, 1952

MEMORANDUM

To: M. E. Volin, Member, RMEA Field Team, Region II

From: E. A. Magill, mining engineer, Bureau of Mines

Subject: Proposed exploration project, Edna Mine, Stevens County, Wash., Docket RMA 774X

A proposed exploration program with cost estimates on the subject property follows. This program was brought about by a discussion with the applicants on March 10, 1952.

The exploration program for the Edna Mine, Stevens County, Washington, is set up in two stages. Stage I consists of unwatering and sufficient rehabilitation to make the existing workings safe for geologic examination and sampling. Stage II is to be undertaken only with the consent of the Government, such consent to be based on the findings of Stage I. Stage II is to further explore the ore disclosed by Stage I.

Stage I

1. Retimber where necessary the first 70 feet of shaft. (It is reported that the shaft was not timbered below 70 feet.)

2. Unwater workings.

3. Geologic examination and mapping with detailed sampling of vein exposed in underground workings.

Stage II

1. Construct headframe and compressor house.

2. Make necessary additional repairs to shaft to put it in working condition.

3. Drift northward on the 200 level until ore shoot pinches out, but not to exceed 150 feet.

4. Drift northward on the vein on the 300 level until ore shoot pinches out, but not to exceed 150 feet.

5. A total of 400 feet of diamond drilling from the 300 level to test the width of the vein structure at a minimum of 4 separate points.

Estimated cost of Stage I

70 feet of retimbering @ $15 per foot	$1,050.
Unwatering workings, estimated 500,000 gal.	1,500.
Replacing ladders and placing skids for pump and bucket, $3.50/ft. for 250 ft.	875.
Geologic examination and sampling	1,000.
Contingency	675.
Total estimated cost of Stage I	$5,000.

Estimated cost of Stage II

Construction of headframe and compressor house	$2,500.
Cost of putting shaft into working condition	1,000.
Drifting 300 feet @ $35 per foot	10,500.
Diamond drilling, 400 feet @ $5/ft.	2,000.
Equipment to be purchased	1,000.
Total estimated cost of Stage II	$17,000.

Total estimated cost of project $22,000.00

Fixtures and improvements

Stage I - none
Stage II - erection of headframe and compressor house $2,500.

Operating equipment

To be rented

	Time	Per month
Stage I - pump (100 gpm @ 300' head) with cable	1 month	$125.00
25 kw electric generator set	1 month	300.00

Stage II - none

Subject: Edna Mine, Stevens County, Wash., Docket DMA 776X

Operating equipment (cont.)

To be purchased

Stage I - none

Stage II -	500 feet of 5/8 steel cable	$150.
	1 mine car	175.
	1 jackleg and hammer	675.
		$1000.

To be furnished by operator

		Estimated Replacement value
Stage I -	truck with boom and hoist	$2,500.
	1 pump, air driven	500.
	1 - 105 cu. ft. LeRoi compressor	1,500.
Stage II -	hoist, gasoline driven	2,000.
	pump, air driven	500.
	diamond drill including accessory equipment	2,200.
	315 cfm portable gas compressor	6,000.
	mine car	120.

Depreciation allowed only for months which equipment is actually used; in any event not to exceed 6 months.

Labor and supervision

Classification	Rate per hr.	Rate per month
Miners	$1.75	
Muckers	1.50	
Surface	1.50	
Hoistman	1.67½	
Supervisor		$400.
Accountant (part-time)		50.
Engineer (part-time)		150.

Rehabilitation and repairs

Stage I	- rehabilitate and unwater shaft	$3,325.
Stage II	- none	

cc: USGS, Spokane (with 4 cys for Wash.)
Files
KAN

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

March 13, 1952

MAR 20 1952

Memorandum

To: Chairman, Operating Committee, DMEA
Attention: Mr. Knouse, Rare and Miscellaneous Metals Division

From: Field Team, Region II

Subject: Docket DMA 770x, Carr Brother's Edna Mine, Stevens County, Washington

Enclosed herewith are the following:

Four copies of a memorandum to A. E. Weissenborn from Willard P. Puffett, U.S. Geological Survey,

Four copies of a memorandum to M. E. Volin from E. A. Magill, U.S. Bureau of Mines.

These memorandums describe and give a cost break-down of a changed proposed exploration project for copper at the Edna mine, Stevens County, Washington, and are the result of a conference with the applicants as requested in a March 4, 1952 telephone call to this office from Mr. Knouse.

This changed proposal has been submitted by the applicant as the type of exploration which he specifically desires. It is different from the original application in that shaft and underground workings rehabilitation is to be carried out without preliminary diamond drilling. The program is set up in two stages, the first stage being relatively simple and of modest cost; the second and more costly stage being contingent upon considered success of Stage I.

The probable result of successful completion of the project is a moderate indicated tonnage of six to seven percent copper, sufficient in dollar value to merit favorable consideration by the government.

Reviewed by
DMEA OPERATING COMMITTEE

3-28-52
(date)

By DMEA Field Team, Region II

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

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

Enclosures
cc: USBM, Spokane

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

March 13, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 20 1952

MEMORANDUM

To: A. L. Weissenborn, Executive Officer, DMEA Field Team, Region II.

From: Willard P. Buffett, U. S. Geological Survey.

Subject: Revisions in proposed exploration program for copper at Edna mine, Stevens County, Washington. Docket DMA 776X.

Mr. Knouse telephoned from Washington, D. C., Tuesday, March 4, 1952, to discuss possible changes in the proposed exploration program for copper at the Edna mine, Stevens County, Washington.

In accordance with suggestions of Mr. Knouse, a conference was held with Clarence and J. M. Carr, the applicants, and Mr. E. A. Magill of the U. S. Bureau of Mines. Changes in the program were discussed that would incorporate the type of exploration which the applicant specifically desires and at the same time would be considered feasible by DMEA field team examiners.

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Mr. Hodgkinson telephoned from Washington, D. C., January 13, 1952, suggesting more diamond drilling in the form of a number of short holes along the strike of the vein. The proposed contract was returned to this office and revised to include Mr. Nelson's suggestion. The revised contract was returned to Washington, D. C., February 6, 1952.

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The above program was discussed in detail by the applicants with Mr. Magill and myself. It is our opinion the program is feasible and shaft rehabilitation should not necessarily be dependent on preliminary diamond drilling. The existence of the old workings is sufficient in part to insure the possibility of the existence of the vein.

Mr. Magill has proposed exhibits including cost breakdowns as desired for contracts, four copies of which are herewith included. It is suggested that these exhibits and a copy of this memorandum be forwarded to the Operating Committee, attention Mr. Vincuse, who has requested such information in his telephone call of March 4, 1952.

Willard P. Puffett,
Geologist

Enclosures.

cc: USJM - Spokane.

1201 N. Division St.
Spokane 2, Wash.
March 12, 1952

MEMORANDUM

To: M. E. Volin, Member, DMEA Field Team, Region II

From: E. A. Magill, mining engineer, Bureau of Mines

Subject: Proposed exploration project, Edna Mine, Stevens County, Wash., Docket DMA 776X

A proposed exploration program with cost estimates on the subject property follows. This program was brought about by a discussion with the applicants on March 10, 1952.

The exploration program for the Edna Mine, Stevens County, Washington, is set up in two stages. Stage I consists of unwatering and sufficient rehabilitation to make the existing workings safe for geologic examination and sampling. Stage II is to be undertaken only with the consent of the Government, such consent to be based on the findings of Stage I. Stage II is to further explore the ore disclosed by Stage I.

Stage I

1. Retimber where necessary the first 70 feet of shaft. (It is reported that the shaft was not timbered below 70 feet.)

2. Unwater workings.

3. Geologic examination and mapping with detailed sampling of vein exposed in underground workings.

Stage II

1. Construct headframe and compressor house.

2. Make necessary additional repairs to shaft to put it in working condition.

3. Drift northward on the 200 level until ore sheet pinches out, but not to exceed 150 feet.

Subject: Edna Mine, Stevens County, Wash., Docket MMA 776X

4. Drift northward on the vein on the 300 level until ore shoot pinches out, but not to exceed 150 feet.

5. A total of 400 feet of diamond drilling from the 300 level to test the width of the vein structure at a minimum of 4 separate points.

Estimated cost of Stage I

70 feet of retimbering @ $15 per foot	$1,050.
Unwatering workings, estimated 500,000 gal.	1,500.
Replacing ladders and placing skids for pump and bucket, $3.50/ft. for 250 ft.	875.
Geologic examination and sampling	1,000.
Contingency	675.
Total estimated cost of Stage I	$5,000.

Estimated cost of Stage II

Construction of headframe and compressor house	$2,500.
Cost of putting shaft into working condition	1,000.
Drifting 300 feet @ $35 per foot	10,500.
Diamond drilling, 400 feet @ $5/ft.	2,000.
Equipment to be purchased	1,000.
Total estimated cost of Stage II	$17,000.

Total estimated cost of project $22,000.00

Fixtures and improvements

Stage I - none
Stage II - erection of headframe and compressor house $2,500.

Operating equipment

To be rented

	Time	Per month
Stage I - pump (100 gpm @ 300' head) with cable	1 month	$125.00
25 kw electric generator set	1 month	300.00

Stage II - none

Subject: Edna Mine, Stevens County, Wash., Docket DMA 776X

Operating equipment (cont.)

To be purchased

Stage I - none

Stage II -	500 feet of 5/8 steel cable	$150.
	1 mine car	175.
	1 jackleg and hammer	675.
		$1000.

To be furnished by operator

		Estimated Replacement value
Stage I -	truck with boom and hoist	$2,500.
	1 pump, air driven	500.
	1 - 105 cu. ft. Leland compressor	1,500.
Stage II -	hoist, gasoline driven	2,000.
	pump, air driven	500.
	diamond drill including accessory equipment	2,200.
	315 cfm portable gas compressor	6,000.
	mine car	180.

Depreciation allowed only for months which equipment is actually used; in any event not to exceed 6 months.

Labor and supervision

Classification	Rate per hr.	Rate per month
Miners	$1.75	
Muckers	1.50	
Surface	1.50	
Hoistman	1.67½	
Supervisor		$400.
Accountant (part-time)		50.
Engineer (part-time)		150.

Rehabilitation and repairs

Stage I	- rehabilitate and unwater shaft	$3,325.
Stage II	- none	

cc: USGS, Spokane (with 4 cys for Wash.)
Files
RAM

gla 3/4/52

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 3 - 1952

February 27, 1952

Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of Interior
Washington 25, D. C.

Re: DMA Docket 776X
Edna mine
Stevens Co., Washington

Attention: Mr. Knouse

Dear Sir:

On February 21, 1952, Mr. Knouse called from Washington, D. C., regarding suggested changes in the proposed exploration contract for the Edna mine, DMA 776X, Stevens County, Washington. Mr. Knouse suggested changes that include cost break-down of diamond drilling, increase in cost per unit of shaft and drift rehabilitation, cost break-down of rehabilitation of underground headings, and further underground work to be done, consisting of at least 100 feet of drifting, depending on success of previous diamond drilling. Mr. Knouse estimated that the revisions would increase the total cost of exploration from a present estimate of $26,270.00 to slightly more than $40,000.00.

The Edna mine property was examined by a DMEA field examiner on August 28, 1951. At that time the Carr brothers expressed a strong desire to confine the proposed exploration to rehabilitating the shaft and other underground workings. Because of the probable high cost of such a project it was recommended to them that a diamond drilling program be initiated first, to insure vein persistence over enough strike length and to sufficient depth to merit cost of rehabilitation. The applicants agreed to this proposal and consequently a report recommending this kind of an exploration program, and an accompanying proposed contract, was transmitted to Washington, D. C.

Mr. Knouse's telephoned suggestions have been discussed with the applicants, Clarence and J. M. Carr. Their opinion now is that the present proposed program of diamond drilling and underground rehabilitation is too ambitious for them to undertake. They believe that even though the diamond drilling program should prove successful in insuring continuity of the vein between the present surface showings and to at least 200 feet in depth, they would not be financially able to exploit this large an area in future mining operations without additional financial assistance.

The Carr brothers are of the opinion that if they can get down in the shaft and possibly onto one or two of the reported levels, exploration in the form of diamond drilling, crosscutting, and drifting on good mineralized showings can then be initiated from these headings. They reason that such work might yield enough hand-sorted ore to financially assist the exploration program.

The applicants now want to know if some kind of a program of shaft rehabilitation and subsequent underground exploration would be considered feasible by DMEA, if preliminary surface diamond drilling is not undertaken. They are very desirous of initiating such a program and state that if DMEA will not consider it feasible to enter into such a program, the applicants will undertake it on their own. They would like to know the reaction of DMEA to such a proposal as quickly as possible so that preferably by the middle of April they will know for sure whether or not governmental assistance will be forthcoming.

Sincerely yours,

Thor H. Kiilsgaard

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: USBM-Spokane

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

February 27, 1952

Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of Interior
Washington 25, D. C.

Re: DMA Docket 776X
Edna mine
Stevens Co., Washington

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Executive Officer, DMEA
Field Team, Region II

cc: USBM-Spokane

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

February 27, 1952

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

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

cc: USBM-Spokane

FILE COPY
SURNAME:

F L Knouse

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

not stripped in R.R.

D.M.E.A.

F. L. Knouse
5296 4640

1420137 Salaries and Expenses, Defense Productin Activities, Interior 1952
February 21, 1952

Mr.A.E. Weissenborn, Executive Officer, Region II, DMEA Field Team
South 157 Howard Street, Spokane 8, Washington
Docket D.M.E.A-776

TODAY AT 11:00 A.M. P.C.T. MR. KNOUSE OF THIS OFFICE WILL TELEPHONE

REGARDING DOCKET DMEA-776 CARR BROTHERS EDNA MINE.

C. O. Mittendorf (fw)

C. O. MITTENDORF

FLKnouse/jem
cc to; Adm. Reading File
Mails and Files
Mr. Knouse

2071

2/19/52 gla

IN REPLY REFER TO:

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

February 19, 1952

Re: DMA-776
Carr Brothers
Edna Mine, Stevens County, Washington
Exploration loan, $26,270
Copper

Memorandum

To: Mr. F. L. Knouse

From: Edwin T. McKnight

Subject: Revised exploration contract on subject docket

On the first page of Exhibit A of the proposed contract it seems to me that the sequence of holes to be drilled as recorded near the bottom of the page should be No. 1, No. 2, No. 4, No. 3, No. 5 and No. 6. If hole No. 1 is not successful, No. 4 and No. 5 should be the next 2 holes drilled. These suggestions are made because the numbering on the middle line of holes (the B line) is reversed from that on the other 2 lines. I have not been in on previous considerations of this docket, but it seems logical to me that the shallower hole in each line should be drilled first.

On page 2 of Exhibit A near the bottom, the line should read "rehabilitate 750 feet of drift" (not "shaft").

Edwin T. McKnight

Edwin T. McKnight
Geologist

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

February 19, 1952

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Geologist

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

February 20, 1952

Memorandum

To: F. L. Knouse, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA 776X (Copper) Carr Brothers, Edna Mine, Stevens County, Washington

I reviewed the revised project submitted by the Field Team under cover of a letter dated February 6 to Mr. Frank Johnson. The revised project appears to me to be acceptable if, as you pointed out in our telephone conversation, the preliminary series of holes, numbers S-1, S-2, S-3 and S-4, are clearly indicated as having the purpose not only of establishing the continuity of the vein but of showing that the vein contains enough copper to encourage the proposed deeper drilling. If the preliminary holes fail to show such mineralization then the project probably should be terminated without drilling the deeper holes.

C. H. Johnson

C. H. Johnson

CHJohnson/ht

Copy to: Mr. Nelson - GS
Minerals Division
C. H. Johnson
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

February 6, 1952

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket DMA 776X
Copper
Carr Brothers Edna mine
Stevens County, Washington

Dear Mr. Johnson:

Enclosed herewith are the original and five copies of the revised Proposed contract for the Carr Brothers property, the original of which you air-mailed to this office for revision.

The revision consists of the addition of a maximum of four short diamond-drill holes to insure the continuity of the vein between now-existing surface exposures. This is to comply with the recommendations of the various reviewers in Washington, D. C. A minimum number of these proposed holes should be drilled to give reasonably conclusive evidence of the continuity of the vein. The map accompanying the contract has also been revised to show the position of possible sites from which to drill the proposed short holes. The total cost of the project has been revised upward in the amount of $1,970.00, which should be adequate for preparing the drill stations and drilling the short holes.

The applicant has not been consulted in regard to these changes, but from past experience in consulting with him, we believe that the proposed changes will be satisfactory to him.

Sincerely yours,

Willard P. Puffett
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: USBM, Spokane

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 2/13/32

REFERRED TO:

DMA -776X

1. Mr. C. H. Johnson
2.
3.
4.

FOR:

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

REMARKS: ----------

Check (X) before the items needing attention.

F.L.K. Rm. 4640
Initials of sender.

GPO 16—63815-1

MF-200
(June 1951)

Docket No. DMA 776X
Commodity: Copper

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] Clarence Carr and J. M. Carr
Route 1
Valley, Washington

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 Washington, County of Stevens described as follows: [3] Edna mine, including Edna, Log Cabin, Mother Lode, Mother Lode Extension, and September Claims, in SE¼, sec. 9 and SW¼, sec. 10, T. 31 N., R. 39 E.; these claims are unpatented.

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: No liens or encumbrances

(*b*) ~~[illegible]~~

3. *Exploration project.* The Operator, within _____ days from the date of this contract shall commence work on a project of exploration for [5] Copper; 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] 12 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 $13,135.00, which is 50 percent of the agreed estimated total cost of this project, $26,270.00.

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 776X
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A"

Description of Work

The purpose of this project is to find the downward extension of a copper mineralized vein which is exposed at the surface on the Mother Lode claim and the Mother Lode Extension claim of the Edna mine.

If the results of the diamond-drilling program indicate the downward extensions of the vein are of minable width and grade, the former underground workings, including 300 feet of shaft and 750 feet of drifts, are to be rehabilitated to facilitate exploring and sampling the vein exposed in the workings.

The location of the proposed diamond drill holes are indicated on the attached map. A maximum of four short diamond drill holes, designated as S1, S2, S3 and S4, are to be drilled to insure that the vein or vein structure is continuous between the known surface exposures. A minimum of short holes to insure the structure should be drilled, after which initiation of drilling the longer diamond drill holes should be undertaken. After drilling diamond drill hole, No. 1, is completed, the location and drilling of each successive hole will be dependent upon success or failure of the preceding hole in intersecting the ore-bearing vein. If all holes are successful in intersecting the mineralized vein for a minable width, the sequence of holes drilled will be No. 1, No. 2, No. 3, No. 4, No. 5, and No. 6. If No. 1 hole is not successful, No. 3 and No. 5 should be the next two holes drilled. If none of these holes are considered successful in intersecting the vein for a minable width and grade, the exploration program should be terminated.

FEB 1 1 1952

Docket DMA 776X
Commodity: Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (cont'd)

The diamond-drilling portion of the exploration program includes the following holes whose locations are indicated on the accompanying map:

Hole No.	Approximate Bearing (True North)	Approximate Vertical Angle	Approximate Length (feet)
S1	S. 67° E.	-38°	50
S2	"	-44°	60
S3	"	-25°	35
S4	"	-36°	50
1	"	-42°	200
2	"	-48°	350
3	"	-56°	400
4	"	-54°	250
5	"	-58°	275
6	"	-58°	425
		Total length of holes	2095

Cost of Exploration

Diamond-Drilling Program

Preparation of Diamond Drilling Sites	$ 2,000.00
2095 feet of diamond-drill hole at $6.00/ft.	12,570.00
Building construction	200.00
Sampling and assaying	1,000.00
Road Maintenance	500.00
Total cost of diamond-drilling program	$16,270.00

Rehabilitation of Underground Workings

Rehabilitate 300 feet of shaft	$ 6,000.00
Rehabilitate 750 feet of shaft ?	4,000.00
Total cost of rehabilitation project	$10,000.00

$20. /ft
$5.33 /ft

Total cost of exploration project	$26,270.00

Docket DMA 776 X
Commodity Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (Con't.)

Fixtures and Improvements:

Diamond-Drill Program

1 building to house diamond-drill equipment	$ 200.00

Rehabilitation Program

1 hoist house, head frame, and compressor shed	1,500.00

No other fixtures and improvements are to be allowed as cost of the exploration project.

Operating Equipment:

Rented: None
Purchased:
Diamond Drilling Program-None
Rehabilitation - 500 feet of 5/8-inch steel cable $ 110.00
3 ton of 12-lb. rail (used) at $115.00/ton 345.00
Furnished:
Diamond Drill Program-

Item	Estimated replacement cost	Allowable Monthly rental
1 D-7 Caterpillar with Dozer blade, (May also be used in rehabilitation program.)	$ 10,000.00	$ 167.00
1 Diamond-drilling outfit including accessory equipment	2,200.00	37.00
Rehabilitation Program-		
1 C-P Portable Gas Compressor, 315 cpm	6,000.00	100.00
1 Jackhammer	300.00	5.00

Docket DMA 776 X
Commodity Copper

Exploration Project Contract
Edna Mine Property
Stevens County, Washington

EXHIBIT "A" (Con't.)

1 Hoist, gasoline-powered, including motor	2,000.00	33.00
1 Pump, air driven	500.00	8.00
1 Ore skip	200.00	3.00
1 Mine car, 18 cubic foot	120.00	2.00

Labor and Supervision:

Diamond Drilling-	
1 Diamond Drill operator	$ 2.00/hr.
1 Diamond Driller operator helper	1.75/hr.
1 Technical consultant, part time	100.00/mo.
1 Bulldozer operator	2.00/hr.
Rehabilitation work-	
1 Supervisor	400.00/mo.
1 Surface laborer	1.50/hr.
2 Miners	1.75/hr.
1 Hoistman	1.75/hr.

The above rates are subject to lawful overtime increases and revisions of pay scale under union contracts.

Rehabilitation and Repairs:

None, except rehabilitation of shaft and mine workings as specified above.

2/12/52 gla

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

February 6, 1952

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket DMA 776X
Copper
Carr Brothers Edna mine
Stevens County, Washington

Dear Mr. Johnson:

Enclosed herewith are the original and five copies of the revised Proposed contract for the Carr Brothers property, the original of which you air-mailed to this office for revision.

The revision consists of the addition of a maximum of four short diamond-drill holes to insure the continuity of the vein between now-existing surface exposures. This is to comply with the recommendations of the various reviewers in Washington, D. C. A minimum number of these proposed holes should be drilled to give reasonably conclusive evidence of the continuity of the vein. The map accompanying the contract has also been revised to show the position of possible sites from which to drill the proposed short holes. The total cost of the project has been revised upward in the amount of $1,970.00, which should be adequate for preparing the drill stations and drilling the short holes.

The applicant has not been consulted in regard to these changes, but from past experience in consulting with him, we believe that the proposed changes will be satisfactory to him.

Sincerely yours,

Willard P. Puffett

Willard P. Puffett
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Department of the Interior
Defense Minerals Administration
FEB 11 1952

Enclosures

cc: USBM, Spokane

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

February 6, 1952

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket DMA 776X
Copper
Carr Brothers Edna mine
Stevens County, Washington

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Sincerely yours,

Willard P. Puffett
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: USBM, Spokane

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

February 6, 1952

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket DMA 776X
Copper
Carr Brothers Edna mine
Stevens County, Washington

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The applicant has not been consulted in regard to these changes, but from past experience in consulting with him, we believe that the proposed changes will be satisfactory to him.

Sincerely yours,

Willard P. Puffett
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: USBM, Spokane

FILE COPY
SURNAME:

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

Carr Brothers
Route No. 1
Valley, Washington

Re: Docket No. DMA-776X (Copper)
Carr Brothers
Edna Mine
Exploration Project Application

Gentlemen:

We wish to acknowledge receipt of your inquiry dated January 16 regarding the status of your above referenced application. Your application is being returned to Mr. [illegible] Weissenborn, Executive Officer, Region II, DMA Field Team, South 157 Howard Street, Spokane 8, Washington, for additional information and a revision in the proposed work.

Sincerely yours,

Ernest [illegible] Ellis, Acting Chief
Rare and Misc. Metals Division
Defense Minerals Exploration
Administration

FIKnouse/gla 1-24-52
cc to: Adm. Reading File
Docket
Messrs. Johnson, Cr Im. 3621
Nelson, Red. Im. 4216 G.O.
Ellis
Knouse
Field Team, Region II (2)

FILE COPY
SURNAME:

F L Knouse
Ellis
Johnson
Nelson
Nutt

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

Air Mail

FEB 1 - 1952

Mr. A. E. Weissenborn
Executive Officer, Region II
DMEA Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. DMEA-776
(Copper)
Carr Brothers
Edna Mine
Exploration Project Contract

Dear Mr. Weissenborn:

We are attaching a copy of a memorandum dated January 22, 1952, from Mr. R. E. Nelson. This memorandum refers to a telephone discussion between you and Mr. C. H. Johnson regarding a revision in the proposed exploration program of the Edna Mine in which we understand you concur. Because of these developments, we are returning to you the original and five copies of contract prepared by your office for revision.

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures 7

FLKnouse/gla 1-24-52
cc to: Adm. Reading File
Docket
Messrs. Johnson, C. H. Room 3621
Nelson, Ned Rm. 4216 G.S.
Knouse
Ellis
Field Team, Region II

APPROVED:
J. H. Hedges
Member, Bureau of Mines
J. P. Thayer
Member, Geological Survey

IN REPLY REFER TO:

1/24/52 gfa

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

January 23, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Mr. N. E. Nelson

Subject: DMEA-776, Edna Mine, Stevens County, Washington

Conclusions

Redrawing of this application is indicated, in order that the recommendations of the various reviewers may be met.

Comment

Following discussion with Mr. C. H. Johnson regarding the proposed work on the Edna property, Mr. Weissenborn was called in Spokane.

Mr. Weissenborn concurred with Mr. Johnson's recommendation that near surface drilling should first be done, if the vein outcrop cannot otherwise be prospected in a way that would tend to establish the continuity of the narrow vein between the two outcrops.

If the shallow drilling should indicate a continuous and worth-while vein exists, it would be in order to continue the drilling somewhat as outlined in the application, but a new layout would probably be made having in mind the information that could be furnished by the shallow drilling and/or surface work. In order to keep within the allotment and meet the cost of the shallow drilling, the footage of deep drilling might have to be cut or other work curtailed.

With these changes agreed upon, it is in order for the field team to redraw Exhibit "A".

N. E. Nelson

Ned E. Nelson
Geologist

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

January 23, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Mr. N. E. Nelson

Subject: EMEA-776, Edna Mine, Stevens County, Washington

Conclusions

Redrawing of this application is indicated, in order that the recommendations of the various reviewers may be met.

Comment

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With these changes agreed upon, it is in order for the field team to redraw Exhibit "A".

N. E. Nelson

Ned E. Nelson
Geologist

IN REPLY REFER TO:

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

January 22, 1952

See revised memo 1/23/52

Memorandum

To: Mr. E. Wm. Ellis

From: Mr. N. E. Nelson

Subject: DMEA-776, Edna Mine, Stevens County, Washington

Conclusions

Redrawing of this application is indicated, in order that the recommendations of the various reviewers may be met.

Comment

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With these changes agreed upon, it is in order for the field team to redraw Exhibit "A".

N. E. Nelson

Ned E. Nelson
Geologist

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

January 22, 1952

See revised memo dated 1/23/52

Memorandum

To: Mr. B. Wm. Ellis

From: Mr. N. E. Nelson

Subject: IMEA-776, Edna Mine, Stevens County, Washington

Conclusions

Redrawing of this application is indicated, in order that the recommendations of the various reviewers may be met.

Comment

Following discussion with Mr. C. H. Johnson regarding the proposed work on the Edna property, Mr. Weissenborn was called in Spokane.

Mr. Weissenborn concurred with Mr. Johnson's recommendation that near surfece drilling should first be done, if the vein outcrop cannot otherwise be prospected in a way that would tend to establish the continuity of the narrow vein between the two outcrops.

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With these changes agreed upon, it is in order for the field team to redraw Exhibit "A".

N. E. Nelson

Ned E. Nelson
Geologist

Jan 16. 1952
Valley. Wsn
Rt I

E. O. Mittendorf
Washington (25) D.C.

Dear Sir:

As we have been trying to get a loan on the Edna property. (D. M. A. 776X) for some time and have heard nothing from your department, have wonder if it been rejected, forgotten or mislaided. so would like to lay plans according. This property was well check by the U.S G.S. and Beauren of mine Engineer this last summer and as they felt it should show up big. are anious to get to work.

We remain Sincerely yours
Ezar Bro's
Valley wash
Rt I

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
JAN 22 1952

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

OCT 16 195

Re: DMA-776

Memorandum

To: Copper Branch

From: Lead-Zinc Branch

Subject: Application submitted by the Carr Brothers of Valley Washington, for a loan to explore the Edna Mine, Stevens County, Washington.

Attached herewith for your consideration and action is the original application with supporting data and correspondence together with the field team report on the Edna Mine, Stevens County, Washington.

The original application requested assistance for both the Wells-Fargo Mine and the Edna Mine which are separate properties. The application on the Wells-Fargo Mine has been denied by the Lead-Zinc Branch, in accordance with the field team recommendation.

T. P. Billings, Chief
Lead-Zinc Branch

Approved:

Director, Supply Division

Wells Fargo Mine

Ref DMA-776
Carr Brothers, Valley,
Washington
Wells Fargo Mine, Stevens
County, Washington
Exploration loan $17,200 (Wells Fargo mine only)
Lead, antimony

Memorandum

To: Reports and Records Unit
Administrative Management Div.

From: Chief, Lead-Zinc Branch

Subject: Recommendation for denial of application for an exploration loan.

The original application requested financial aid for exploration work on two different properties, the Wells-Fargo Mine and the Edna Mine. A single serial number, DMA-776, was assigned. The present discussion relates only to the Wells-Fargo mine. The field team report relating to the Edna Mine together with the entire original application and supporting data and correspondence have been referred to the Copper Branch for their consideration of an exploration loan for copper, recommended by the field team.

The field team report on the Wells-Fargo Mine has been received and reviewed.

The Wells-Fargo mine is located in Sec. 30, T. 31 N., R. 38 E. Stevens County, Washington. Present workings consist of two adits. The lower one, now inaccessible, was driven N. 30° W. for 125 ft. The second, about 200 ft. above the first and to the northwest, was driven N. 30° W. for about 135 ft. About 20 ft. from the portal of this upper adit a drift has been driven for 50 ft. in the northeast along a narrow quartz vein. This drift is connected by short crosscut to a small stope at the face of the main adit.

The rock in which the workings occur is an argillite, supposedly of pre-Cambrian age, striking slightly east of north and dipping steeply northeast.

Several quartz veins, some containing blebs of stibnite, are exposed in the workings. One such vein is present in the 50 ft. drift off the main adit. This vein or zone is 4 ft. wide and a sample taken across the width assayed 0.05% Sb and 0.3% Pb.

exposed in the stope which is near the end of the main adit are two quartz veins, 2 to 3 ft. wide. A 3 ft. sample taken near the intersection of these two veins assayed 0.2% Pb, and tr. Ag. No antimony was present.

The only reported production from the property is a small shipment of ore averaging 7% Sb made in 1937.

Because of the apparently small past production, the low assay values of the exposed veins, and the lack of evidence that even a moderate tonnage of commercial ore is available, the field team recommends that the application be denied. The Lead-Zinc Branch concurs in this recommendation.

The following material is attached:

1 Copy of field team report with letter of transmittal.

J. P. Billings, Chief
Lead-Zinc Branch

Approved:

Tom Lyons
Director, Supply Division

EJLyons:emp
G 10-11-51
Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Branch
E. T. Moknight 4204 GSA
O. M. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. file
DMA docket files

OCT 1 7 1951

Re: [illegible]-776

Carr Brothers
Route 1
Valley, Washington

Gentlemen:

The field team report on your property, the Wells-Fargo Mine in Stevens County, Washington, has been received and reviewed by the Lead-Zinc Branch.

The field examination has indicated that there is little possibility of obtaining a sufficient tonnage of commercial ore from this property to warrant further exploration. Under such conditions we are not able to justify an expenditure of public funds for the work you propose. I regret, therefore, that your application for exploration assistance on the Wells-Fargo property must be denied.

The field team report and the data submitted by you relating to the Lone Pine have been referred to the Copper Branch for their consideration.

We wish to thank you for bringing these properties to our attention.

Very truly yours,

SIGNED

Don Lyon, Director
Supply Division

DJLyons:amp
C 10-11-51
Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Branch
E. F. McKnight 4204 GSA
O. M. Bishop
Directors r.files 4214 GSA
Br. r. files 4214 GSA
Administrators r. files
IMA docket files

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-776

Commodity Lead, copper, antimony, zinc, silver

Total Amount $47,600

Govt. Participation 50%

1. Name and Address of Applicant Carr Brothers, Route 1, Valley, Washington

2. Location of Property Wells Fargo mine, Sec. 36, T.31N., R.38E., and Edna mine, Secs. 9 and 10, T.31N., R.39E., Stevens County, Washington

3. Mineral or metal Lead, copper, antimony, zinc, silver Is it listed in Section 9 of MO-5? Yes

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 X

e) Is there an alternative and favorable project? Don't know.
(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 not apply

Does the lease have sufficient time to run to cover a future productive period? Does not apply

*question numbers are those of MF-103

7. Are subordination agreements necessary? Does not apply

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 Don't know

b) Equipment and supplies Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

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

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Don't know

_____

Is a field check needed on this point? Yes

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

a) Is the project adequately described? Yes

If not, are there sufficient data given so that you can describe the project? Yes 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. Exhibit A.

Description of project

Wells Fargo mine - The applicant proposes to trench with a bulldozer along the outcrop, to rehabilitate and advance the lower tunnel about 250 ft. until it intersects the vein, and diamond drill 5 holes having a total footage of 1000 ft.

Edna mine - The applicant proposes to trench along the outcrop with a bulldozer, unwater and retimber 370 ft. of shaft and 750 ft. of drift, and diamond drill about 3000 ft.

Is this part a worthwhile exploration project? _____

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? Don't know

f) Should more information be requested from applicant? Yes

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

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? Yes If so, attach a draft.
Edna mine: 6 buildings - $3,000.00

c) Is a field check needed? _____

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

a) Is it applicable? Yes

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? Don't know

d) Is a field check needed? Yes

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

a) Are there sufficient data? Yes

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

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

d) Are the proposed wages and salaries reasonable? No

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? No

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? The Wells Fargo mine and the Edna mine should be considered as separate applications.

Reviewed by: Erwin J. Lyons

Date July 27, 1951

INT.-DUP. SEC., WASH., D.C. 99009

May 10, 1951

Mr. Clarence Carr
Valley
Washington

Subject: DMA-776 X
Re: Exploration
Loan - Wells Fargo,
Edna and Vulcan Mines

My dear Mr. Carr:

Receipt is acknowledged of your application and attachments of April 26, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number 776 X and referred to Mr. Otto Herres, Chief, Lead-Zinc Branch, on May 7, 1951.

In any future correspondence relating to your application, kindly refer to DMA-776 X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:aec
cc: Strobel-2
Files
Mr. Herres
Mr. Lyon

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

APR 12 1951

Mr. Clarence F. Carr
Valley, Washington

In reply please
refer to DMA-776

Dear Mr. Carr:

One of the purposes of the Defense Production Act of 1950 is the encouragement of exploration, development and mining of strategic minerals and metals. Where an applicant has proven reserves of strategic materials, Federal aid in mining can be given through procurement contracts for such materials as are in short supply. On the strength of these contracts, the applicant can obtain private financing in most instances.

The program recently approved for encouragement of exploration of strategic materials calls for participation on the part of the applicant. For zinc, lead and copper deposits it will be necessary to match Government funds on an equal basis, but for antimony the Government will contribute 75 percent of the cost of the exploration. However, a deposit must show promise of producing a significant amount of antimony, before it can be considered eligible for Government participation in the exploration costs at the higher rate. Funds advanced by the Government will be considered a loan, to be repaid if the exploration is profitable, but to be canceled if unsuccessful. The details of the plan, explaining the projects that will be eligible for assistance, the terms and schedules of financing, repayment, and other pertinent information, are enclosed.

A review of your application (DMA-776) for financial aid in rehabilitating and exploring your Hills Fever, Allen and Volcano properties in Stevens County, Washington indicates that part of your proposal may be considered under this exploration program. Details concerning expenditures that will be considered chargeable to exploration and will be subject to a final determination by the station, but as a preliminary appraisal, we believe that the program will apply to the work you propose to do in opening up and exploring these properties.

Before we can proceed further with consideration of your application, which may or may not require a field examination, please indicate your willingness to provide your share of the funds needed to carry out the proposed exploration. Any modification of your original proposal that you may wish to make will be considered, but you should be specific concerning the work you wish to undertake.

Very truly yours,

MBriggs:bsp
G 3/22/51
Copies to: Chief, Lend-Lease Branch, [illegible], Chief
Enclosures [illegible] Knight Lend-Lease Branch
E. B. Moon R. E. Hote
2 copies to A. E. Weissenborn, Exec. Officer, Region II

L. F. Strobel
C. O. Rittendorf
Files

May [illegible], 1951

Re: Docket DRL-776

Messrs. Clarence H. Carr, and
J. B. Carr
Route 1
Valley, Washington

Gentlemen:

Your application and data for an exploration loan submitted on forms RF-100 and RF-105 have been reviewed by the Lead-Zinc Branch.

As stated in our letter of April 17, a preliminary appraisal of your original application, which was submitted on form DRS-1.6, indicated that about $[illegible] of your request for $125,000 could be considered under the exploration program. This applied to three properties - the Wells Fargo, Idaho, and Nelson.

According to your more recent application you are interested now only in the Wells Fargo and Idaho properties and are proposing the following work:

> On the Wells Fargo property to open the portal, drive the tunnel 200 ft. farther, and enlarge the present tunnel for hauling.
>
> On the Idaho property to unwater the mine and retimber and enlarge the shaft.

It appears to us that the $120,000 which you now estimate as the cost of the project is excessive for the work you are planning. Furthermore, enlarging the tunnel and shaft can not be considered as exploration work.

We suggest that you submit a revised itemized estimate of the cost of the work you are planning to do, and because you are not prepared to invest any more in your share of the project, an estimate of the rental charges of the machinery which you contend are planning to use for the work, and the value of your labor. Furthermore, because the Wells Fargo and the Idaho are two distinct and separate properties, it will be necessary to have a separate cost estimate for each.

Very truly yours,

Otto Herres

Chief, Lead-Zinc Br.

Copies to: [illegible] Weissenborn, Region [illegible] (Spokane, Chief [illegible] Strobel
[illegible] Knight [illegible] Lead-Zinc Branch Tom Lyon
[illegible] Coon Directors r. file [illegible]
H. H. Mote Br. reading file [illegible]

July 27, 1951

Re: DMA-776X

Messrs. Clarence and J. M. Carr
Route No. 1
Valley, Washington

Gentlemen:

Your application (Docket DMA-776X) 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 reached on your request, it will be necessary to obtain additional information on your property. Your application, therefore, has been referred to Mr. A. E. Weissenborn, Executive Officer, Field Team, Room 157 Lesard Street, Spokane 8, Washington, for further information and advice.

Very truly yours,

Tom Lyon
Tom Lyon, Director
Supply Division

EJLyons:emp
G 7-27-51
Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Branch
M. T. McKnight 4204 GSA
R. H. Mote
Reports & Records
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

AUG 3 1951

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D.C.
OCT 8 8 40 AM '51

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

October 3, 1951

Through: Executive Secretary

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee

From: DMA Field Team, Region II

Subject: Carr Brothers, Edna mine, Stevens County, Washington
DMA Docket-776

Enclosed herewith are four copies of a memorandum on the Edna mine, and four copies of a memorandum on the Wells-Fargo mine, both of which were prepared by Willard P. Puffett, Geologist, U.S.G.S.; six copies of an Exploration Project Contract on the Edna mine; and original docket material on both the Edna and Wells-Fargo mines, which was forwarded to this office from DMA, Washington, D. C.

The "Review of Application for Exploration Assistance" received at this office noted that Carr Brothers had originally submitted one application on two properties: the Wells-Fargo mine, and the Edna mine. The review further noted a separate application should be made for each property. As a result of an examination of the subject properties it is hereby recommended that the Wells-Fargo mine, described in the enclosed memorandum, be denied further consideration for exploration assistance.

Mine examination discloses that the Edna mine is a favorable prospect with a small record of production. The exploration program proposed for this property, in the accompanying Exploration Project Contract could conceivably delineate a substantial amount of copper ore, should the exploration program prove successful. The inferred ore in the target areas could more than repay funds expended in DMA's participation in the exploration program. The Field Team concurs with the mine examination memorandum on the Edna mine, and recommends favorable consideration for an exploration project on this property.

Field Team, Region II

Enclosures

cc: U.S.B.M.
Exec. Sec.

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

Thor H. Kiilsgaard
For: A. E. Weissenborn
(U. S. Geological Survey)

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.
OCT 8 8 40 AM '51

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

September 21, 1951

Memorandum

To: A. E. Weissenborn, Executive Officer
DMA Field Team, Region II

From: Willard P. Puffett, Geologist, U.S.G.S.

Subject: Recommendation of approval of application of Carr Brothers for exploration project loan on the Edna Mine, Stevens County, Washington Docket DMA-776X

LOCATION AND OWNERSHIP

The following unpatented claims on which the Edna Mine is located are owned by the applicant: Edna Claim, Log Cabin Claim, Mother Lode Claim, Mother Lode Extension Claim, and the September Claim. The proposed exploration work is to be undertaken on a vein which outcrops on the surface within the boundaries of the Mother Lode Claim and the Mother Lode Extension Claim. These properties are in the SE$\frac{1}{4}$, sec. 19, and SW$\frac{1}{4}$, sec. 10, T. 31 N., R. 39 E., on the eastern side of the Huckleberry Mountains in Stevens County, Washington.

RECOMMENDATIONS

It is recommended that the government enter into an exploration contract with the applicant to carry out the proposed exploration program as set forth herein and more definitely delineated in the exhibits of the attached contract.

HISTORY OF THE PROPERTY

Published reports give only meager details regarding the history of the Edna Mine property. The report giving the most information on the Edna Mine history is The Mineral Resources of Stevens County, by Charles E. Weaver; Bulletin #20, Washington State Geological Survey, 1920. The following information is taken directly from the above memtioned publication:

"The mine was first located in 1896 by Axel Herman. During 1898 and 1899 a shaft was sunk to a depth of 100 feet and three cars of ore were shipped to the smelter. This ore came from near the surface where it was highly oxidized and leached and is

said to have scarcely paid expenses.

In September, 1901, the property was taken over by J. B. Tuttle and Sons. Machinery was installed and active development carried on till June, 1904, during which time the shaft was sunk to the 370-foot level and about 750 feet of drifting was done on the ore body. About 150 tons of ore are said to have been shipped to the smelter which carried seven percent copper, four ounces of silver, and $2.75 in gold to the ton.

The property was idle from June, 1904 to April 1917, when it was reopened. Plans were made to sink the shaft an additional 200 feet. At the 300-foot level a drift has been made for 235 feet to the south and a crosscut for 108 feet to the west. On the 200-foot level there is a 135-foot drift and on the 135-foot level a 100-foot drift to the south. There is said to be a zone somewhat mineralized for a width of 80 feet. On the footwall side of this 80-foot zone there are four feet of shipping ore and six feet of milling ore."

From information now available it is apparent that the shaft was not sunk the additional 200 feet. Mr. Clarence Carr, one of the present owners, states that because of a disagreement between the directors of the operation, the operations were suspended. Since that time there has been no constructive work done on the property; only a small, somewhat delapidated shed remains and the two shafts on the property are caved near the surface. Nothing is known of the condition of the mine workings.

GEOLOGY

The Edna Mine property is about nine miles west of Valley, Washington, on the lower foothills of the eastern slopes of the Huckleberry Mountains. The mine can be reached from Valley, Washington, by means of a moderately good graveled county road which leads to the Keystone Magnesite Quarry, owned by the Northwest Magnesite Company. An unsurfaced road less than one-half mile long, connects the property to the county road and leads to the two shafts that have been sunk on the Mother lode and Mother Lode Extension Claims.

Most exposures of country rock near the workings of the Edna mine are of yellowish, buff-colored, siliceous dolomite, that range in structure from massive beds one to three feet thick to thin, platy, dolomite, the plates being less than one-half inch thick. There are scattered exposures of grayish-green argillites more or less platy and somewhat phyllitic in character, but these exposures are distant in the hanging wall of the vein structure. Charles E. Weaver 1/ has assigned all these rock types to the Deer Trail Argillites of pre-Cambrian age. The general trend

1/ The Mineral Resources of Stevens County, Charles E. Weaver, Bulletin No. 20, Washington State Geological Survey, 1920.

of the beds is slightly east of north with a dip from 65° to 80° to the northwest.

The mineralized portion of these rocks consist of a one to three-foot wide quartz-filled vein that is exposed at the surface in both north and south sides of the caved shaft on the Mother Lode Claim and for a strike distance of twenty to thirty feet in an open cut just north of the caved shaft on the Mother Lode Extension Claim. The sulphide portion of the exposed vein consists of tennantite, chalcopyrite, and pyrite. There is considerable malachite and some azurite staining along the margins of the sulphide portions. The most dominant copper sulphide is the gray tennantite. There are no other surface exposures of this vein between the northern caved shaft and the open cut, a strike distance of nearly 450 feet. The trend of the vein in the two exposures is nearly the same, the assayed copper content of samples from the two exposures is nearly the same, and a projection of either exposure along the strike will approximately coincide with the other exposure, so it is probable that the two exposures are on the same vein. Three samples were cut from exposures of this vein. The sample cuts ranged in length from one to three feet and assayed from 6.0 to 7.0 percent copper. A hand-picked high-grade sample of the ore taken from the open-cut on the Mother Lode Extension Claim assayed 36.3 percent copper.

Other than moderate to strong silicification there is very little evidence of much alteration of the wall rock near the mineralized vein. In the exposure on the north side of the northern caved shaft, the vein is three feet wide and has a heavily iron-stained oxidized 6-inch zone on the footwall and a very siliceous hanging wall. On the south side of this shaft the exposed vein is one-foot wide with one to two inches of heavily iron-stained gouge on the footwall. Two to three feet of platy dolomite is visible on the hanging wall side. The exposure in the open cut to the south is a one-foot to less than one-half foot vein, the footwall being platy dolomite very similar to that in the hanging-wall on the south side of the northern shaft. In the open-cut the hanging wall is a creamy, yellow to buff, massive, siliceous dolomite.

The country rock exposed between the two shafts is siliceous dolomite and as the dip of the country rock and vein are parallel it is assumed that the vein is not on the contact between different rock types but continues in depth in the dolomite. Charles E. Weaver, in his report on the mine in 1920, mentions some ore as being mined from a quartz-mica-schist in depth but there is no surface exposure of this type rock in the immediate mine area.

PROPOSAL

The exploration program proposed to explore the copper-mineralized vein on the Edna Mine Property includes diamond-drilling and rehabilitation of underground workings. The diamond-drilling should be first completed to determine if the grade and width of the continuation of the vein merits the relatively high, difficultly determinable cost of

rehabilitating 300 feet of shaft and 750 feet of drift. The diamond-drilling is also outlined so that a minimum of diamond-drilling should be accomplished before it can be determined that the vein does not merit further exploration.

DIAMOND-DRILLING PROGRAM

The following diamond-drill holes are indicated in section and on plan on the accompanying map:

Diamond Drill Hole Number	Length in Feet	Total Cost @ $7.00/ft.
1	200	$ 1400.00
2	350	2450.00
3	400	2800.00
4	250	1750.00
5	275	1925.00
6	425	2975.00
	Maximum total cost of diamond-drilling	$13,300.00

The order of drilling of the holes should be first No.1, then No. 2, and so on through hole No. 6, if each hole is successful in intersecting ore of mineable width and grade. As indicated in the section, the declination of the holes is such to make the proposed intersection with ore as near as possible to the 100-foot and 200-foot levels, datum being the top of the caved shaft near the southern exposure of the vein. If the first diamond-drill holes do not intersect ore, the minimum drilling program outlined below should be followed.

A minimum diamond-drilling program to rule out the possibility of the vein being a potential producer would entail the drilling of holes No. 1, 3, and 5. Diamond-drill hole No. 1 should be drilled to determine if the vein continues downward from the open cut near the south extension of the vein. If this hole is not successful in intersecting ore of mineable width and grade, diamond-drill hole No. 2 should be cancelled and diamond-drill hole No. 3 should be commenced to explore the possibility of the ore-shoot raking to the north or an extension of ore to the south from the area of the indicated underground workings. The third hole should be diamond-drill No. 5 to explore the possible northward extension of the mineralized vein from the northern caved shaft.

UNDERGROUND REHABILITATION

If the diamond-drilling program indicates mineable extensions in depth and length of the copper vein, a rehabilitation program should be undertaken to explore the vein in the previous workings. As the shaft is caved and filled near the surface, it would be only idle speculation to try to determine with any degree of accuracy the probable cost of such a venture. A cost figure of $10,000 is being submitted as only a possible approximation. It is believed that this part of the program would be considered feasible if the drilling program is successful as a considerable tonnage of ore should be explored as a result of the rehabilitation. Also, it will in effect be an aid in a future development program to put the mine in operation.

ORE POSSIBILITIES

In estimating the ore reserves to be blocked out if the exploration program is considered successful, two ore blocks are considered. One block will include an extension of the vein for fifty feet to the north of section B-B' to fifty feet south of section A-A'. (See accompanying map). The other block extends from the northern shaft to an extension of the vein for fifty feet to the north of section C-C'.

Block between sections B-B' and A-A'

Length	300 feet
Depth	200 feet
Width	2 feet
Grade	6 percent Copper

120,000 cubic feet @ 15 cubic feet/ton 8,000 tons

8,000 tons X 2,000 pounds X 6 percent 960,000 lbs. copper.

(Estimate Possible $0.20/lb. From Smelter)

960,000 lbs. X $0.20 $192,000.00

5 Percent Net Smelter Returns (Government Royalty) $9,600.00

Block between North shaft and 50 feet beyond Sec. C-C'

Length	150 feet
Depth	200 feet
Width	2 feet
Grade	6 percent Copper

60,000 cubic feet @ 15 cubic feet/ton 4,000 tons

4,000 X 2,000 X 6 percent 480,000 lbs. Copper

480,000 lbs. X $0.20 $96,000.00

5 Percent Smelter Returns (Government Royalty) $4,800.00

It is not possible to estimate ore reserves that may be measured as a result of the underground rehabilitation program as no information is now available regarding the extent of stoped areas.

COMPETENCE OF APPLICANT

The applicants, Clarence Carr and J. M. Carr are not technically trained but have had considerable experience as miners and diamond drillers. Clarence Carr worked as a miner in Butte, Montana for five years; he worked as a miner in the Couer d'Alene Mining area of

Idaho for approximately ten years; he worked as a diamond-driller on various properties in Stevens County over a period of eight to ten years; and he worked on the engineering staff at the Howe Sound Company's copper mine at Chelan, Washington for a year and a half after the last war. Included in his experience as a miner have been duties connected with sinking shafts and driving raises.

J. M. Carr worked for four years with the United States Bureau of Mines as a diamond-driller in the Northport, Washington area. He operated diamond-drilling equipment for two years at Grand Coulee Dam. He has worked as a miner intermittently in the Couer d'Alene, Idaho mining area for a number of years. He is a very good machinist and has recently erected a sawmill, making most of the machinery with his own tools.

Both Carr brothers have been raised in lumbering country and at different times in their lives have had considerable experience with active operations in lumbering.

Neither of the applicants has supervised a mining operation but it is believed that because of their past experience, they do understand the problems involved in an exploration program and should be considered competent to carry out a program of diamond-drilling and rehabilitation successfully so far as the mechanics of the operation are concerned. They probably could successfully operate a small mine. Clarence Carr states that they will welcome any technical assistance that can be rendered by personnel of either the U. S. Geological Survey or the U. S. Bureau of Mines.

FEASIBILITY OF THE EXPLORATION PROGRAM

The shaft and diamond-drill locations on the Edna Mine property can be reached by an unsurfaced road less than one-half mile long which branches from a year-round maintained graveled county road. This branch road will require some bulldozing for the passage of larger vehicles during the winter months.

The diamond-drilling is to be done from the surface. This will require some bulldozing for preparation of the stations. A transportable building will have to be erected for protection of the equipment and personnel from the weather as it is anticipated that the drilling program will be in progress during the late autumn and early winter months. It is the experience of the applicant, who has lived most of his life in the immediate area, that the temperature will not be too severe to prevent the diamond-drill operations if the operation site is within such a building. Water for purposes of diamond-drilling can be obtained from a small stream a few hundred yards distance from the diamond-drill locations and it is anticipated to build a settling-pond to recover used water. The applicant proposes to do his own diamond-drilling as he has his own equipment and is experienced diamond-driller.

The lumber to be used in erecting the diamond-drill building and other possible buildings on the property will be available from the immediate area. The applicant has his own sawmill and proposed to obtain his lumber from it.

The applicant believes that he is capable of directing the operations incidental to rehabilitating the underground workings. He will also use lumber from his own sawmill in the re-timbering that is anticipated in this operation.

If the exploration program is successful, an estimated minimum of 12,000 tons of copper ore averaging six percent copper might be indicated by drilling at a cost of slightly less than $15,000.00. The added approximate cost for underground rehabilitation of $10,000 will make the overall cost of the exploration program approximately $25,000.00 of which the government's share will be $12,500.00. As indicated in the Ore Possibilities section of this report, the value of this ore, should it be mined and sold at the prevailing price of copper, should be more than sufficient to return to the government, via the five percent net smelter return royalty, the government's share of the cost of the exploration program. There is also the added possibility that the vein will continue in depth as is common with mesothermal type deposits.

If the exploration program is not successful and only the minimum diamond-drilling program is completed, the total cost will be not more than $6,000.00 of which the government's share will be $3,000.00. The amount the government would risk, therefore, is small.

The site of the operations is quite accessible by road, the weather is generally mild and provisions can be made to combat the effects of bad weather. The applicants are well-experienced in mining and diamond-drilling and appear to be very conscientious, honest individuals. The possibilities of blocking out sufficient ore to repay in full the government's share of participation in the program are reasonably good. These factors combined trend to make the examiner believe that the proposed exploration can be justified.

CONCLUSIONS

Those portions of the copper-bearing vein on the Edna Mine property that appear at the surface indicate the possibility that a continuous vein extends for a strike distance of more than 600 feet and varies in thickness from one to three feet with an average copper content of six to seven percent. The dip of this vein as observed at the surface is approximately seventy degrees. According to a report published in 1920 by Charles E. Weaver of the Washington State Geological Survey, the dip of the vein is nearer eighty degrees. If any predictions as to depth of the vein are to be made, the calculations should be based on a dip between 65 and 80 degrees.

The northern extension of this vein is exposed in the walls of the upper portion of a shaft that is caved and filled a short distance below the surface. The southern extension of the vein is an open cut twenty to thirty feet long near another caved shaft. The northern shaft is supposed to have been sunk to a depth of 370 feet on the vein; therefore, it is assumed that the vein is continuous to this depth. All of the reported drifting from this shaft has been to the south, indicating that the rake of the mineralized portion of the vein is to the south.

It is believed that a program of diamond-drilling and rehabilitation of underground workings should constitute an exploration program to explore the possibilities of this vein as a potential copper producer. There is very little information obtainable regarding just what might be encountered in the manner of stopes in the area of known drifts; also it would be idle speculation to try to determine with any degree of exactness the total cost of rehabilitating the caved shaft and underground workings. Therefore a program of diamond-drilling should be first undertaken to insure the continuation of the mineralized portion of the vein to an extent that there would be some assurance that ore could be blocked out to make the high cost of rehabilitation feasible. This diamond-drill program should be so planned on that the completion of each diamond-drill hole will determine the location and length of each succeeding diamond-drill hole. Such a diamond-drill program is outlined under the Proposal section of this report.

The maximum cost of an exploration program to fully explore the possible extensions and grade of the vein on the Edna Mine property by diamond-drilling will be less than $15,000.00. The underground rehabilitation is estimated at $10,000.00, making a total exploration cost of $25,000.00. Should the first few diamond-drill holes indicate that the vein is not continuous or is too lean or narrow to be mineable, the program could be stopped with an expenditure of not over $5,000.00.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS
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WASHINGTON, D.C.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.
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[illegible] Pearl Street
[illegible], [illegible]

[illegible] 1, 1951

[illegible]

[illegible] Director, [illegible]
[illegible] Gold [illegible], [illegible]

[illegible] Director, [illegible], [illegible]

Subject: [illegible] of approval of application of [illegible] for exploration project [illegible] the [illegible], [illegible] County, [illegible]

[illegible]

The following unpatented claims on which the [illegible] vein is located are owned by the applicants: [illegible] lode claim, [illegible] lode claim, [illegible] lode claim, [illegible] lode extension claim, and the [illegible] claim. The proposed exploration work is to be undertaken on a vein which outcrops on the surface within the boundaries of the [illegible] lode claim and the [illegible] lode extension claim. These properties are in the [illegible], sec. [illegible], [illegible], sec. [illegible], T. [illegible], [illegible] S., R. [illegible] E., on the eastern slope of the [illegible] mountains in Stevens County, Washington.

[illegible]

[illegible] under [illegible] contract [illegible] Department with the applicants [illegible] [illegible] proposed [illegible] not [illegible] [illegible] for the [illegible] of the proposed concrete.

[illegible]

[illegible] properties [illegible] [illegible]

[illegible]

Quotation is not exact.

are now being

of the rocks is slightly east of north with a dip from 60° to 80° to the northwest.

The mineralized portion of these rocks consist of a one to three-foot wide [illegible]-filling vein that is exposed at the surface in both north and south sides of the caved shaft on the Mother Lode claim and for a strike distance of twenty to thirty feet in an open cut just north of the caved shaft on the Mother Lode Extension claim. The sulphide portion of the exposed vein consists of tennantite, chalcopyrite, and pyrite. There is considerable malachite and some azurite staining along the margins of the sulphide portions. The most dominant copper sulphide is the gray tennantite. There are no other surface exposures of this vein between the northern caved shaft and the open cut, a strike distance of nearly [illegible] feet. The trend of the vein in the two exposures is nearly the same, the assayed copper content of samples from the two exposures is nearly the same, and a projection of either exposure along the strike will approximately coincide with the other exposure, and it is probable that the two exposures are of the same vein. [illegible] from exposures of this vein. The [illegible] three feet and assayed [illegible] [illegible] sample of the ore [illegible] the Mother Lode Extension claim assayed [illegible] copper.

Other than moderate to strong silicification there is very little evidence of much alteration of the wall rock near the mineralized vein. In the exposure on the north side of the northern caved shaft, the vein is three feet wide and has a heavily iron-stained oxidized 6-inch zone on the footwall and a very siliceous hanging wall. On the south side of this shaft the exposed vein is one-foot wide with one to two inches of heavily iron-stained gouge on the footwall. Two to three feet of platy dolomite is exposed on the hanging wall side. The exposure in the open cut to the north is [illegible] to less than one-half foot thick, the footwall being platy dolomite very similar to that in the hanging wall on the south side of the northern shaft. In the open cut the hanging wall [illegible], massive, siliceous dolomite.

The country rock [illegible] [illegible] the country rock [illegible] that the vein is not [illegible] [illegible]

[illegible]

[illegible] [illegible] minimum and 10 feet of drift. The diamond-drilling is also outlined so that a minimum of diamond-drilling should be accomplished before it is [illegible] clear in a that the vein does not merit further exploration.

[illegible]

The following diamond-drill holes are proposed in section [illegible] as shown in [illegible]

Diamond drill hole number	Length in feet	Total cost @ $/ft.
1	[illegible]	[illegible]
2	310	2650.00
3	[illegible]	[illegible]
4	[illegible]	1750.00
5	275	1925.00
6	425	2975.00

Maximum total cost of diamond-drilling [illegible] 13,800.00

The order of drilling of the holes also is as first hole, then no. 1, and so on through hole no. 6, if each hole is successful in intersecting ore of minable width and grade. As indicated in the section, the declination of the holes is such to make the proposed intersection with ore as near as possible to the 100-foot and 200-foot levels, down below the top of the seven shaft near the southern exposure of the vein. If the first diamond-drill holes do not intersect ore, the minimum drilling program outlined below should be followed.

A minimum diamond-drilling program to run on the possibility of the vein being a potential producer would extend the drilling of holes no. 1, 2, and 3. Diamond-drill hole no. 1 is to be drilled so that if the vein continues outward from the [illegible] the north extension of the vein. If this hole is not successful in intersecting ore of minable width and grade, diamond-drill hole no. 2 is to be cancelled and diamond-drill hole no. 3 also is to be drilled to explore the possibility of the ore-shoot north of the north end of the [illegible] from the area of the [illegible] vein [illegible]. The diamond-drilling could be discontinued [illegible] the possibility of the [illegible] of the [illegible] would [illegible] the [illegible].

The diamond-drilling program [illegible] the [illegible] holes [illegible] the cost of such a venture [illegible] as only a possible [illegible] would be considered feasible if the drilling [illegible] successful in a considerable [illegible] ore should be [illegible] the [illegible] the [illegible] the [illegible] the [illegible].

[illegible] RESERVES

In estimating the ore reserves to be blocked out if the exploration program is considered successful, two ore blocks are considered. The block will [illegible] an extension of the vein for fifty feet to the north of section [illegible]' to fifty feet south of section [illegible]A'. (see accompanying map). The other block extends from the northern shaft to an extension of the vein for fifty feet to the north of section [illegible]'.

[illegible] block between sections [illegible]' and [illegible]'

Length	[illegible] feet
Depth	[illegible] feet
Width	[illegible] feet
Grade	[illegible] percent copper

[illegible],000 cubic feet × 13 cubic feet/ton = [illegible],000 tons

[illegible],000 tons × [illegible] pounds × [illegible] percent = [illegible],000 lbs. copper.

(which are recoverable [illegible]/lb. [illegible] smelter)

[illegible],000 lbs. × [illegible] = [illegible],000.00

[illegible] percent [illegible] smelter returns (government royalty) [illegible]

[illegible] block between north shaft and [illegible] between sections [illegible]'

Length	[illegible] feet
Depth	[illegible] feet
Width	[illegible] feet
Grade	[illegible] percent copper

[illegible] cubic feet × [illegible] cubic feet/ton = [illegible] tons

[illegible] tons × [illegible] percent [illegible]

[illegible] lbs. [illegible]

3 percent smelter [illegible]

[illegible] not possible [illegible] as a result [illegible] small [illegible] areas.

[illegible] so [illegible]

[illegible] approximately [illegible] years as a diamond-driller on various properties in [illegible] County over a period of [illegible] to ten years and he worked on the engineering staff of the [illegible] Company's [illegible] for a year and a half. [illegible] in his experience [illegible] have been duties connected with [illegible] shafts and driving raises.

[illegible] Carr worked [illegible] years with the United States [illegible] as a diamond-driller in the Northport, Washington area. [illegible] diamond-drilling equipment [illegible] He has worked as a [illegible] the [illegible] Mill [illegible] mine area [illegible] recently bought a sawmill, [illegible] machinery with [illegible] tools.

[illegible] Carr brothers have been raised in lumbering country and at different times in their lives have had considerable experience with active operations in lumbering.

Neither of the applicants has supervised a [illegible] project but it is believed that because of their past experience, they do understand the problems involved in an exploration program and should be considered competent to carry out a program of diamond-drilling and rehabilitation successfully so far as the mechanics of the operation are concerned. Their proposal [illegible] is essentially operating a small mine. Clarence Carr states that they will welcome any technical assistance that can be rendered by personnel of either the U. S. Geological Survey or the U. S. Bureau of Mines.

[illegible]

The shaft and diamond-drill locations on the [illegible] the property can be reached by an unsurfaced road [illegible] which branches from a year-round [illegible] graveled county road. This branch road will require [illegible] larger vehicles [illegible].

The [illegible]

[illegible]

[illegible] drill holes and other [illegible] will be needed [illegible] the [illegible] property. The applicants have [illegible] proposed [illegible] the [illegible].

[illegible] has [illegible] the [illegible] the underground workings [illegible] will [illegible] the [illegible] there is an [illegible] spare zone.

If the exploration program is successful, an estimated minimum of [illegible] of copper averaging six percent copper might be indicated by drilling at a cost of $[illegible] or less. The added approximate cost for underground rehabilitation of $[illegible] will make the overall cost of the exploration program probably $[illegible] of which the government's share will be $12,000.00. As indicated in the possibilities section of this report, the value of this ore, about [illegible] at the prevailing price of copper, should be more than sufficient to return to the government, via the five percent or smaller return royalty, the government's share of the cost of the exploration program. There is also the added possibility that the vein will continue in depth as is common with mesothermal type deposits.

If the exploration program is not successful and only the minimum diamond-drilling program is completed, the total cost will be [illegible] of which the government's share will be $3,[illegible]. The cost the government would risk, therefore, is small.

The size of the spare zone is quite noticeable in [illegible], the weather is generally mild and [illegible] the efficiency of the workers. The applicants are well-[illegible] and diamond-drilling [illegible] individuals. The possibilities [illegible] the government's share [illegible] are [illegible]. These [illegible] the proposed exploration program [illegible].

[illegible]

[illegible] property [illegible] in [illegible] in thickness [illegible] to seven [illegible]. [illegible] the surface [illegible] rocks, [illegible] published in 1927 [illegible] over [illegible] curve, the dip of the vein is nearer [illegible] the [illegible], the [illegible]

The northern extension of this vein is exposed in the walls of the upper portion of a shaft which is caved and filled a short distance below the surface. The southern extension of the vein is an open cut twenty to thirty feet long near another caved shaft. The northern shaft is supposed to have [illegible] on the vein; therefore, it is assumed that the vein is continuous [illegible] All of the reported [illegible] from this shaft [illegible] to the south, [illegible] that the role [illegible] mineralized portion [illegible] the vein [illegible] south.

[illegible] and [illegible] drilling and possibly [illegible] would constitute an exploration program [illegible] the [illegible] of this vein as a potential copper producer. There is very [illegible] just what [illegible] areas [illegible] drifts; [illegible] the area of [illegible] under round [illegible] drilling should be first undertaken [illegible] of the mineralized [illegible] the vein [illegible] located out [illegible] location. The diamond-drill program [illegible] that the [illegible] of each diamond-drill hole will [illegible] location and length of each succeeding diamond-drill hole. Such a diamond-drill program is outlined under the proposal section of this report.

The maximum cost of [illegible] exploration program to fully explore the possible extensions and grade of the vein on the [illegible] property by diamond-drilling holes of [illegible] and underground rehabilitation is estimated at [illegible], making a total exploration cost of [illegible]. Should the first few diamond-drill holes indicate that the vein is not continuous or is too lean or narrow to be minable, the program could be stopped with an expenditure of [illegible].

McKnight
O'Leary
(Asbestos)
Billings

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.

OCT 8 8 42 AM '51

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

Mr. A. E. Weissenborn
Executive Officer, DMA Field Team
Region II
South 157 Howard Street
Spokane 8, Washington

JUL 31 1951

Dear Sir:

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

Docket No. 776X

Commodity Lead, copper, antimony, zinc, silver

Applicant Carr Brothers, Route 1, Valley, Washington

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

Very truly yours,

Tom Lyon

Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-776

Commodity Lead, cooper, antimony, zinc, silver

Total Amount $47,600

Govt. Participation 50%

1. Name and Address of Applicant Carr Brothers, Route 1, Valley, Washington

2. Location of Property Wells Fargo mine, Sec. 36, T.31N., R.38E., and Edna mine, Secs. 9 and 10, T.31N., R.39E., Stevens County, Washington

3. Mineral or metal Lead, copper, antimony, zinc, silver Is it listed in Section 9 of MO-5? Yes

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 X

e) Is there an alternative and favorable project? Don't know.
(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 not apply

Does the lease have sufficient time to run to cover a future productive period? Does not apply

*question numbers are those of MF-103

7. Are subordination agreements necessary? Does not apply

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 Don't know

b) Equipment and supplies Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

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

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Don't know

_____

Is a field check needed on this point? Yes

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

a) Is the project adequately described? Yes

If not, are there sufficient data given so that you can describe the project? Yes 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. Exhibit A.

Description of project

Wells Fargo mine - The applicant proposes to trench with a bulldozer along the outcrop, to rehabilitate and advance the lower tunnel about 250 ft. until it intersects the vein, and diamond drill 5 holes having a total footage of 1000 ft.

Edna mine - The applicant proposes to trench along the outcrop with a bulldozer, unwater and retimber 370 ft. of shaft and 750 ft. of drift, and diamond drill about 3000 ft.

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? Don't know

f) Should more information be requested from applicant? Yes

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

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? Yes If so, attach a draft.
Edna mine: 6 buildings - $3,000.00

c) Is a field check needed?_____

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

a) Is it applicable? Yes

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? Don't know

d) Is a field check needed? Yes

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

a) Are there sufficient data? Yes

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

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

d) Are the proposed wages and salaries reasonable? No

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? No

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? The Wells Fargo mine and the Edna mine should be considered as separate applications.

Reviewed by: Erwin J. Lyons

A. E. Nelson

Date July 27, 1951

INT.-DUP. SEC., WASH., D.C. 99009

Valley Wash Billings
July 20 1951

ans 7/27/51
T. P. Billings

Mr Landon F Strobel
Executive Secretary
Defense Mineral Administration
Department of Interior
Washington (25) D. C.

Dear Sir:

As we have heard nothing from your office in regard to loan Docket number D m a 776 X and was wondering if it had been mislaid or rejected, as we are anxious to get in operations.

Sincerely yours
Lars Bjo
Valley, Wash
Rt I

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 2 3 1951
LANDON F. STROBEL
Executive Secretary

JUL 23 1951

D

FILE COPY
SURNAME:

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

Lyons (ETM)
Billings
O'Leary
(For Mote)
McKnight
Ron
Merrill.

July 27, 1951

Re: DMA-776X

A.E.C

Messrs. Clarence and J. M. Carr
Route No. 1
Valley, Washington

Gentlemen:

Your application (Docket DMA-776X) 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 reached on your request, it will be necessary to obtain additional information on your property. Your application, therefore, has been referred to Mr. A. E. Weissenborn, Executive Officer, DMA Field Team, South 157 Howard Street, Spokane 8, Washington, for further information and advice.

Very truly yours,

Tom Lyon

Tom Lyon, Director
Supply Division

EJLyons:emp
G 7-27-51
Copies to: A. E. Weissenborn Region II (2)
Chief, Lead-Zinc Branch
E. T. McKnight 4204 GSA
R. H. Mote
Reports & Records
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files ✓

Mr. Herrea

June 1 1,951

An report to Docket D.M.A 776 X
Wells Fargo Property

I propose to bull doze the Well's Fargo Antimony vein outcrop to the Southwest and northwest following the strike of the Vein. This work will consist of a series of cuts across the strike.

Estimated 100 hr. @ $12/hr = $1200.

Rehabilitate lower tunnel and advancing it 250 ft untill it intersects Wells Fargo vein. This will be done with a D.7 Cat.

Rehabilitation $500.

250 ft of tunnel at $25. ft $7,500

5 - 200 ft diamond drill hole at 5. per ft $5000

six men at $2.00 per hr. $96 per day

Rental on Compression, air line, track and all mining machiny $50.00 per day

Clarence R. Carr $25.00 per day

J. W. Carr $25.00 per day

Mortgage Mine Supt.

I have figured labor at the about figured on the ~~the~~ cost of the different projects. as in different line of work wages are different. to be completed within 90 days. after loan.

TOTAL $17.200

Carr Bro's
By Clarence R. Carr
Valley, Wn.

Ph. 1. Colville 7106

JUN 11 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 8 1951
LANDON F. STROBEL
Executive Secretary

Mr. Herrer

June 1, 1951

An report to Docket D.M.A 776X

Edna Property

This will be done with a D.7 cat

Bull doze outcrop of Edna vein
200 hours at $12 / hr. $2400.
unwater and retimber 370 ft of shaft $7000
unwater and retimber 750 ft of drift $3000
3000 ft of diamond drilling at $5 per ft $15000
Six small building at cosing $3000
for living quarters

Will need about 10 men on this property and labor is figured on the different projects figured above.

The rental on the hoist, compressor lines, steel $75 per day on 24 hr running time. to be completed within 6 months after Loan

TOTAL $30400

Carr Bro's
By Clarence R. Carr
Valley
Wm

FILE COPY
SURNAME:

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

Mr. Jones
Mr. McKnight
Mr. Moon
Herres

May 14, 1951

Re: Docket DMA-776

Messrs. Clarence R. Carr, and
J. M. Carr
Route 1
Valley, Washington

Gentlemen:

Your application and data for an exploration loan submitted on Forms MF-100 and MF-103 have been reviewed by the Lead-Zinc Branch.

As stated in our letter of April 12, a preliminary appraisal of your original application, which was submitted on Form NSRB-146, indicated that about $60,000 of your request for $125,000 could be considered under the exploration program. This applied to three properties - The Wells Fargo, Edna, and Vulcan.

According to your more recent application you are interested now only in the Wells Fargo and Edna properties and are proposing the following work:

On the Wells Fargo property to open the portal, drive the tunnel 200 ft. farther, and enlarge the present tunnel for hauling.

On the Edna property to unwater the mine and retimber and enlarge the shaft.

It appears to us that the $120,000 which you now estimate as the cost of the project is excessive for the work you are planning. Furthermore, enlarging the tunnel and shaft can not be considered as exploration work.

We suggest that you submit a new itemized estimate of the cost of the work you are planning to do, and because you are not prepared to invest any money as your share of the project, an estimate of the rental charges of the machinery which you own and are planning to use for the work, and the value of your labor. Furthermore, because the Wells Fargo and Edna are two distinct and separate properties, it will be necessary to have a separate cost estimate for each.

Very truly yours,

Otto Herres

EJLyons:emp G 5/14/51
Copies to: A. E. Weissenborn Region II (2)
E. T. McKnight 4204 GSA
L. B. Moon
R. H. mote

Otto Herres, Chief
Lead-Zinc Branch

L. F. Strobel
Tom Lyon
Directors r. file 4214 GSA
Br. reading file 4214 GSA
Files

Dmma 776

FILE COPY
SURNAME:

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

May 10, 1951

Mr. Clarence Carr
Valley
Washington

Subject: DMA-776 X
Re: Exploration
Loan - Wells Fargo,
Edna and Vulcan Mines

My dear Mr. Carr:

Receipt is acknowledged of your application and attachments of April 26, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number 776 X and referred to Mr. Otto Herres, Chief, Lead-Zinc Branch, on May 7, 1951.

In any future correspondence relating to your application, kindly refer to DMA-776 X.

Sincerely yours,

LANDON F. STROBEL G. E. C.

Landon F. Strobel
Executive Secretary

LFSTROBEL:aec
cc: Strobel-2
Files
Mr. Herres
Mr. Lyon

Dma 776

4

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-776 X

Date received 5/7/51

Participation

Clarence R. Carr
J. M. Carr

Carr Bros
Rt 1
Valley, Wash

Name and address of applicant

Date 4/26/51

FILL IN THIS BLOCK

Date of application 4/26/51

Estimated cost $120,000

Mineral or metal lead, zinc, copper, silver, antimony

Percentage of Government participation $60,000

Location of mine Sec 9 + 10 Twn 31 - R. 39
Sec 36 Twn 31 - R 38

Date of filing MF-100 4/26/51

DMA Docket Number, if available 776 X

INSTRUCTIONS

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

THE APPLICANT

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

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

16—64067-1

MAY 3 1951

THE PROPERTY

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

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

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

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

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

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

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

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

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

---------- (Name of company)	By ---------- (Signature of authorized official)
---------- (Date)	---------- (Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Copy I ~~[illegible]~~ Dma-776X
Mr. Herna

-1-

Edna mine — copper, silver

There has been traces of scheelite tungsten found on the property.

Well's Fargo — Antimony, silver, Lead, zinc, Cadmium

By product

2. Edna mine and Well's Fargo.
The properties are in a state of repair and will have to be reopened "Sending past Report" See Copy I

3. The Edna is 8 miles from the railroad at Valley, wash. The Well's Fargo is 12 miles to Valley, Wash.
The Edna is in Sec 9 & 10 - Twn 31 Rng 38
The Well's Fargo is in Sec 36 .. 31 .. 38
These properties are Located in Stevens. Co. Wash in the Chewelah mining District.

4. These properties are not in operation and have not been for years, and as we have aquired ownership of them want to get them back in production.
On the early 1900 these properties was was worked several times, but as they change hands several time. have no records.

5. Thes mines should be in production within 6 months. and the loan paid off 2 year.

BUREAU OF MINES
WASHINGTON, D. C.
MAY 8 13 AM '51

Wells Fargo

The lower drift has been taken in some feet but lacks appox. 200 ft. of hitting the vein that shows in the upper tunnel, the portal is cave and will have to be retimbered and for a production tunnel will have to be made larger as it is only a 4X7 drift. the vein has been followed on top of the ground by the Bureau of Mines for 1/2 mile in 1947.

Edna

This shaft on the Edna is full of water, also the timber are rotted but by pumping, and we have both pumps and a sinking hoist can timber down till we can get to the bottom.

I am sure this shaft we have to make 5'x7' for production for at the time this shaft was sunk it was only 4X8 and the mining laws of the state of Washington will not comply with that. So it impossible to tell what all has to be done till a later date. as we brought this property in 1950.

I believe if this report is true this should be sunk 200 ft deeper

Clarence R. Carr

Report

Dma-776 X

Historical report on certain mining properties located in Stevens County, Washington, prepared for Carr Brothers [redacted], Valley, Wash.

-- -- -- --

NOTE: Wells Fargo, Section 36, T.31N., R.38E; Edna (or Valley Mine), Sec. 9, T.31N., R.39E; and [redacted] are all properties that were opened and operated to some extent by the year 1900, or shortly after. Intermittent work and development went on through the years until the present, with the present emergency now prompting a serious attempt to bring them into production.

- - - - -

WELLS FARGO

"The formation exposed is a part of the Deer Trail argillite, consisting of quartz-mica schist, argillite, calcareous argillite and limestone. The planes of schistosity in the schist have a direction of strike N. 30° E. and a dip of 85° to the southeast. The property has been developed by two crosscut tunnels and a shaft. The ore mineral is stibnite in a quartz vein having a thickness of three to five feet. The vein has a strike of N. 25° E. and a dip to the northwest of 60°.

"The lower tunnel, whose portal is at an elevation of 3,955 feet and situated on the north side of a canyon, has been driven into the hill as a crosscut a distance of 125 feet along a direction N. 30° W. The first 70 feet of the tunnel passes through a calcareous argillite and schist. Beyond this for a distance of 55 feet to the face, the rock is a light creamy-colored quartzite or completely silicified limestone.

"The upper tunnel is situated higher on the hillside at an elevation of 4,100 feet in a direction N. 25° W. from the lower tunnel and about 200 feet distant. This tunnel has been driven N.20° W. for 155 feet, where the vein is intersected. From the vein it has been extended 25 feet farther in a direction N. 65° W. to the face. The formation exposed in the tunnel for a distance of 115 feet from the portal is argillite and schist. Beyond this for 40 feet to the vein the rock is a dolomite, and the rock exposed on the face is of the same character. One hundred and fifteen feet from the portal a tunnel has been driven N. 15° E. for 60 feet along the contact between the schist and the dolomite. This tunnel is connected with the vein by a short tunnel 35 feet in length. A stope has been made upward for a distance of 15 feet where the vein is exposed, having a strike of N. 25° E. and a dip of 32° to the northwest and an average

thickness of four feet and six inches. The gangue is white milky quartz, containing bunches of stibnite with subordinate amounts of pyrite.

"About 35 feet elevation above the tunnel and 60 feet north of its portal is the discovery shaft which connects with the workings of the upper tunnel. At the outcrop the vein has a strike of N.25°E. and a dip of 60° to the northwest."

--Bulletin No. 20, Washington Geological Survey, 1920, pp. 212-13.

".....The ore is stibnite (carrying silver) in a quartz vein which averages three to five feet in thickness. The property is still in the prospect stage, but the prospects are said to be encouraging."

--Bull. No. 21, Wash. Geological Survey, 1921, pp. 58-9.

".....CLASS OF ORE: High grade antimony of over 55%, and sufficient silver to pay expense of mining. DEVELOPMENT: 400 feet of tunnel, with a number of drifts."

-- Sidney Norman, Northwest Mines Handbook, 1918, p. 211.

".....This vein in places has been mineralized with stibnite, an ore of antimony. Considerable ore is said to have been shipped from a large pocket found near the surface, but returns are not available."

--Colville Engineering Co., Report on Minerals in Stevens County, 1942, p. 75.

**

EDNA (VALLEY MINING CO.)

"The group embraces four claims known as the Alpine, Log Cabin, Log Cabin Extension and the Mother Lode. The mine.....was first located in 1896 by Axel Herman. During 1898 and 1899 a shaft was sunk on the Log Cabin Extension claim to a depth of 100 feet, and three cars of ore were shipped to the smelter. This ore came from near the surface where it was highly oxidized and leached and is said to have scarcely paid expenses.

"In September, 1901, ...machinery was installed and active development carried on till June, 1904, during which time the shaft was sunk to the 370-foot level and about 750 feet of drifting was done on the ore body. About 150 tons of ore are said to have been shipped to the smelter which carried seven per cent copper, four ounces of silver and $2.75 in gold to the ton.

"The property was idle from June, 1904, to April, 1917, when it was reopened. The shaft was retimbered and the machinery overhauled. Plans are now being made to sink the shaft an additional 200 feet.

"The country rock exposed in this locality is a part of the Deer Trail argillite and consists chiefly of argillite, quartz-mica schist and siliceous limestone. The strata have a prevailing strike of N. 10° E. and a dip of 80° to the northwest. The vein lies

parallel to the bedding planes of the schist and has the same strike and dip. The shaft has been sunk on the vein and is the principal working development of the property. At the 300-foot level a drift has been made for 235 feet to the south and a crosscut for 108 feet to the west. On the 200-foot level there is a 135-foot drift and on the 135-foot level a 100-foot drift to the south. ....there is said to be a zone somewhat mineralized for a width of 80 feet. On the footwall side of this 80-foot zone there are four feet of shipping ore and six feet of milling ore. The values are chiefly in copper and the chief ore mineral is chalcopyrite."

--Bull. No. 20, Wash. Geological Survey, 1920, 181-2.

"...CLASS OF ORE: Copper, 15%; silver 15 ozs.,and small values in gold.....working 4 men.....shipped one car last year.
DEVELOPMENT: Shaft, 370 feet, sinking 200 feet deeper; 765 feet of drifts; 300 feet of crosscuts.....preparing to make shipments."

--Sidney Norman, Northwest Mines Handbook, 1918, p. 208.

"...Bedding quartz veins occur.... and in places show mineralization over several feet in width. The property has been opened by quite a deep shaft and several hundred feet of drifting,..Some ore has been shipped from this property. With development this property may operate."

--Colville Engineering Co., Report on Minerals in Stevens County, 1942, pp. 46-7.

**

CONCLUSION

This summary of available information on three neighboring properties in Stevens is neither exhaustive nor over-technical. However, it is noteworthy that four independent sources over a period of more than thirty years agree so well concerning the possibilities of the different prospects. Although many of the workings are at present caved and inacessible, early reports of activity may indicate the scope and character of development, and furnish some clue to potentialities when worked by modern methods.

(#)

6. Mr Clarence R. Carr has 30 years of mining experience as a miner and engineer.

Mr. J. M. Carr has 15 years as a diamond driller and miner.

7 as working are not assessable refer to typewritten report

The Cleveland mine to the southwest has taken out several million dollars in ore

The United copper to the northeast has been a large producter. The northwest magnesite is operating west of these properties.

1/15/52

If the DD is encouraging, funds should be available (in addition to rehabilitation of old workings) for x cut + DD or sinking (100) and drifting (500) at option of the Government.

Rehabilitation alone is unlikely to result in any "discovery".

S Feitler

5

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-776X

Date received 5/7/51

Participation

Name and address of applicant

Clarence R. Carr
J. M. Carr

Carr Bros
Rt I

Date 4/26/51

FILL IN THIS BLOCK

Date of application 4/26/51

Estimated cost $120,000

Mineral or metal Lead, zinc, silver, copper, antimony

Percentage of Government participation $60,000

Location of mine Sec 9 + 10 - Twn 31 - R-39
Sec 36 Twn 31 - R-38

Date of filing MF-100 4/26/27

DMA Docket Number, if available 776 X

INSTRUCTIONS

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

THE APPLICANT

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

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

16—64067-1

Dma 776 Recd

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.

---------- By ----------
(Name of company) (Signature of authorized official)

---------- ----------
(Date) (Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Copy IV [redacted] 276X Ore

1. Edna Mine — Copper, Silver

Thier has been traces of scheelite tungsten found on the property.

Well's Fargo — antimony, Silver, Lead, zinc, Cadmium

By product

2. The properties are in a state of repair will have to be reopened." see typewritten report "in "Copy I"

3. the Edna is 8 mile from the railroad at Valley. Wash. The well's Fargo is 12 miles to valley wash.

The Edna is in sec. 9 + 10 - Twp 31 - R. 39

The Well's Fargo is in sec. 36 Twp 31 - R. 38

These properties are located in Stevens Co. Wash in the Chewelah. mining distrant.

4. These properties are not in operation and have not been for years, and as we have ownership of them want to get them back in production.

On the early 1900 these properties was worked several times, but they change hand repeated. have no records.

5. These mine should be in production within 6 months, and the loan paid off in 2 yr.

6. Feb. Observer P. Gun was 30 degrees of morning elevation on a minor and requires 7m 9s. Gun then has 15 degrees on a diametrical shoulder for instance.

7. In the morning we not successful in the topographic report in "copy I"

The Chartered company is the contract has taken out general condition drawn in our

The material supplied to the contractor has been a very poor.

The contract requirements is planting part of the properties.

[illegible]

[illegible]

[illegible]

[illegible]

The properties are located in Stevens Co. near to the Colorado mining district.

The properties are not on quartzite and lay out thus for open, showing the [illegible] that it put the [illegible] on properties.

In the early 1910 these properties for buried [illegible] times, but they [illegible] had [illegible] there no records.

5. These mines should be in production within [illegible] and the [illegible] paid off in 2 yrs.

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 - 776X

Date received 5/7/51

Clarence R. Carr
J. M. Carr

Carr Bro's
~~Clarence R. Carr~~
Rt 1
Valley View

Name and address of applicant

Date 4/26/51

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

   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. prices of metal at that time, no money, method of working
   (*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)
Rt I Valley, Wn.							
Clarence R. Carr	owner	none	$50,000	none	none	none	none
J. M. Carr	owner	none	$50,000				
	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	$	$ none	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)	none				
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. typewritten report "Copy I"

13. These properties are within 12 miles of Valley, Wash. at that point the Great Northern railroad goes into Tail B.C.

The roads to these properties are good secondary dirt roads.

14. The water is sufficient for all season of the year, with plenty of timber for mining.

15. Both properties are within one mile of a high voltage Washington Power line which can be tapped on request.

16. none

17. thier are no building on the properties but have living quarters and machine house, saw mill and all accomodation, ½ mile from Edna mine on property we own.

D-7 Bulldozer, 1- sawmill capable of production 8000 to 1000 board ft per day. 1- 210 Chicago pneumatic air compressor. 1-110 portable air compressor. 1-828 cobras air compressor. 500 ft of pipe. 500 ft of rail. 2 jackhammer with air and water hose and drill steel 1- Mitchell diamond drill with complete accessory, . Complete Blacksmith equipment. 1-3 ton international truck. 1 ton ford truck 1-1½ ford truck. 1-1 ton ford truck. we have ample equipment such as picks, shovels, mining tools ect.

we has complete assay equipment.

13. Three prospects are within 12 miles
of Valley Creek, at that point the third
Kootenai National forest near Trail B.C.
The roads to these prospects are
good according [illegible] roads.
14. The water is sufficient for all season
of the year, with plenty of timber for mining.
15. Both prospects are within one mile
of a high voltage Washington Power line
which can be tapped on request.
16. None
17. There are no buildings on the prospects
but have living quarters and machinery house.
one mill and all accomodation. 15 miles from
there [illegible] on property to [illegible].
D-7 Bulldozer. 1 - sawmill complete capacity
8000 to 1000 board ft per day. 1 - 210 Chicago pneumatic
air compressor. 1-110 portable air compressor. 1-315
cubic air compressor. 590 ft of pipe. 50 ft of
[illegible] 2 jackhammers with air and water hose and
drill steel. 1 - [illegible] diamond drill with complete
accessory. Complete Blacksmith equipment.
1-3 ton International truck. 1 ton pick truck 1-1½ ford
truck. 1-1 ton ford truck. We have complete
equipment such as picks, shovels, mining tools
etc.
We have complete mining equipment.

(*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)	unknown	of			
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. See typewritten report in "Copy I"

(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.
We have promising mines, lots of machinery, willing to work, but no money.

CERTIFICATION

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

(Name of company)

By Clarence K. Carr
(Signature of authorized official)

4/26/51
(Date)

Owner
(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

2

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.
OCT 8 42 AM '51

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

DO NOT FILL IN THIS BLOCK

Docket No. Dma-776X

Date received 5/7/51

Participation

Clarence R. Carr
J. M. Carr

Carr Bros
Rt 1
Valley, Wash.

Name and address of applicant

Date 4/26/51

FILL IN THIS BLOCK

Date of application 4/26/51

Estimated cost $120,000

Mineral or metal Lead, zinc, copper, silver, antimony

Percentage of Government participation $65000

Location of mine Sec 9+10 Twn 31-R.39
Sec 36 Twn 31-R.38

Date of filing MF-100 4/26/51

DMA Docket Number, if available 776 X

INSTRUCTIONS

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

THE APPLICANT

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

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State amount of power to be used, rate per hour or other cost, and source.

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

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

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(*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.

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(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

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(*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.

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

---------- (Name of company)

By ---------- (Signature of authorized official)

---------- (Date)

---------- (Title)

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*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

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-776X

Date received 5/7/51

Clauna R. Cave
J. M. Cave

Cave Bros
[redacted]
Mt Vallery Wn

Name and address of applicant

Date 4/26/51

INSTRUCTIONS

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

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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. price of metal at that time, no power, method of working.
   (*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)
Pt I Valley, Wn							
Clarence R. Cam	owner		$50,000				
J. M. Cam	owner	none	$50,000	none	none	none	none
	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	$ none	$ none	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)		none			
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 mi[illegible]l deposit briefly. Accompany the applicatio[illegible] any available report on the geology and ore reserves.

See typewritten report

13. These properties are within 12 miles of Valley wash. at that point the Great Northern railroad goes into "Trail" B.C.

The roads to these properties are good secondry dirt roads.

14. The water is sufficient for all season of the year. with plenty of timber for mining

15. Both properties are within one mile of a high Voltage. Washington Power Line. which can be tapped upon request.

16. none

17. there are no building on the property but have living quarters and machinery house. saw mill and all accommodation 1/2 mile from Edna mine on property we own.

D- 7 Bulldozer

1 - Sawmill capable of producing 8,000 to 10,000 board ft per day.

1 - 210 cubic ft Chicago pneumatic air compressor

1 - 8x10 Corless air compressor 1-110 ft portable compressor

500 foot of pipe - 500 ft of mine rail

2 - jackhammers with air and water hose and drill steel

1 - Mitchell diamond drill with complete accessories

Complete Blacksmith equipment.

1 - 3 to international truck - 2 ton ford truck

1 - 1 1/2 ton ford truck - 1 - 1 ton ford truck.

We have ample equipment such as pick, shovel, mining tools etc.

We have complete assay equipment

(*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)	Unknown				
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. See "typewritten report"

(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.
We have two promising mines lots of machinery, willing to work, but no money.

CERTIFICATION

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

(Name of company)

By Clarence P. Carr
(Signature of authorized official)

4/26/57
(Date)

Owner
(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

3

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 - 776X

Date received 5/7/51

Participation

Clarence R. Carr
J. M. Carr

Carr Rios
Rt 1
Valley, Wn.

Name and address of applicant

Date 4/26/51

FILL IN THIS BLOCK

Date of application 4/26/51

Estimated cost $120,000

Mineral or metal Lead, zinc, copper, silver, antimony

Percentage of Government participation $61,000

Location of mine Sec 9 + 10 Twn 31 - R-39
Sec. 36 twn 31 - R. 38

Date of filing MF-100 4/26/51

DMA Docket Number, if available 776 X

INSTRUCTIONS

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

THE APPLICANT

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

*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.

---------- By ----------
(Name of company) (Signature of authorized official)

---------- ----------
(Date) (Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Copy III

Dma-7768 ore

1 Edna Mine

copper
Silver

There has been traces of scheelite tungsten found on the property.

Wells Fargo

Antimony
Silver
Lead
Zinc
Cadmium

By products

2 The properties are in a state of repair will have to be reopened, "see Typewritten report" in "Copy I"

3. The Edna is 8 miles from the railroad at Valley, wash. The Well's Fargo is 12 miles to Valley, wash.

The Edna is in sec 9 + 10 Twn 31-R.39

The Well's Fargo is in sec 36 Twn 31-R 38

These properties are located in Stevens, Co. wash. in the Chewelah mining district.

4. These properties are not in operation and have not been for years and as we have ownership of them, want to get them back in production.

In the early 1900 these properties was worked several times, but as they change hand separately have no records.

5. These mines should be in production within 6 month. and the loan paid off in 2 yr.

Copy III

Edward Jones

Copy to
Palmer

This has been done of which I have
found on the previous
Wells Fargo

Anderson
Salmon
Hood
Zane
Graham

by mental

2. The population was in a state of agitation
but then to be expected. "See Superintendent
report" in "Copy I"

3. The claim is 3 miles from the nearest
at Vesting, work. The Wells Fargo is 12 miles
to Vesting, work.

The dates are as follows 1 & 11 June 31 - 8 34
The Wells Fargo is on 30 June 31 - 8 35
Their properties are located in Shasta, Co.
Work on the "Charlotte Young Lateral"

4. Other properties are not in operation
and have not been for years and so my
here ownership of them. Most is put there
back in production.

The Wells Fargo properties are
mental annual taxes, but no tax bills have
ever been received

5. These mines should be in production
within 6 months and the Lease paid off in
2 yr.

Mr. Clarence R. Carr has 30 years of mining experience as a miner and engineer.

Mr. J. M. Carr has 15 years as a diamond driller and miner.

1. As the workings are not accessible "refer to typewritten" in "Copy I"

The Cleveland mine to the southwest has taken out several million dollars in ore

The United Copper to the Northeast has been a large producer

The northwest magnesite is operating west of these properties.

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 - 776X

Date received 5/7/51

Clarence R. Carr
J. M. Carr

Carr Bros
~~Clarence R. Carr~~
Rt I
Valley Wn

Name and address of applicant

Date 4/26/51

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

   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. price of metal at that time, no power. methods of working
   (*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)
Rt I Valley. Wn.							
Clarence R. Carr	owner	none	$50,000	none	none	none	none
J. M. Carr	owner	none	50,000				
	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	$ none	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)	none				
3. Quantity and grade of product sold or shipped (specify units of measure)					

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. See typewritten report "copy I"

13. These properties are within 12 miles of Valley, Wash. at that point the Great Northern railroad goes into Trail B.C.

The roads to these properties are good secondry dirt roads.

14. The water is sufficient for all season of the year. with plenty of timber for mining.

15. Both properties are within one mile of a high voltage Washington Power line, which can be tapped upon request.

16 none

17 thier are no building on the prospectus but have living quarters and machine house, saw mill and all accomodation. 1/2 mile from Edna mine on property we own.

D-7 Bulldozer 1- saw mill capable of producing 8000 to 10000 board ft per day. 1-210 Chicago Pneumatic air compressor, 1-210 portable air compressor - 1-8 x 10 Cooper air compressor 500 ft of pipe 500 ft of rail. 2 jackhammers with air and water hose and drill steel.

1 - mitchell diamond drill with complete assessing

Complete Blacksmith equipment

1 - 3 ton international truck - 1-2 Ton ford truck

1 - 1 1/2 ton ford truck - 1-1 Ton ford truck

We have ample equipment such as picks, shovels mining tools ect.

We have complete assay equipment

13. Three pumpkins are within 1½ miles of Verling, Iowa, at that point the Great Western railroad goes into Tiail S.C.

The road to the pumpkins is good morning dirt road.

14. The water is sufficient for all seasons of the year, with running of streams in spring.

15. Each pumpkin are within one mile of a high water, including from Chicago, Iowa, to Tiaiqual upon request.

16. [illegible]

17. Their are no dwellings on the pumpkins but there living quarters and working stores will be all accommodations. To each pumpkin there are frequently [illegible] cars.

D - 2 Building 1 - warehouse capacity of pumpkins 8000 to 10000 tons of 11 per day. 1 - 2½ storage warehouse are compressor. 1 - 3½ portable air compressor. 1 - 3 ½ [illegible] air compressor 500 ft of rail. 2 platform rail 20 and water tank [illegible]

1 - Portable [illegible] drill with complete [illegible] equipment

1 - [illegible] [illegible] 1 - 2 [illegible]

1 - [illegible] 1 - [illegible]

[illegible] equipment and [illegible]

[illegible]

[illegible] equipment

(*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)	Unknowned				
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. See Typewritten report in "Copy I"

(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.
we have promising mines, lots of machinery, willing to work, but no money.

CERTIFICATION

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

(Name of company)

By Clarence R. Gee
(Signature of authorized official)

4/26/51
(Date)

Owner
(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

copy II dma 776 Xoe

1 Edna mine copper
silver

There has been traces of scheelite tungsten found on the property

Wells Fargo antimony
silver
Lead
zinc
Cadium

By products

2. The properties are in a state of repair and will have to be reopened "See typewritten report" in copy I

3. The Edna is 8 miles from the railroad at Valley, wash. The wells Fargo is 12 miles to Valley, wash.

The Edna is in Sec 9 + 10. Twp 31-R. 39 N E

The Wells Fargo is in " 36 Twp. 31 - R 38

The properties are located in Stevens County wash. in the Chewelah mining district.

4. These properties are not in operation and have not been for years. and as we have aquired ownership of them, want to get them back in production.

In the early 1900 these properties was worked several times, but as they change hand several times have no records

5 These mines should be in production within 6 months. and the loan paid off in 2 yr.

6. Mr Clarence R. Carr has 3[illegible] years of mining experience as a miner and engineer.

Mr J. M. Carr has 15 years as a diamond driller and miner

7. as the workings are not accessible "refer to Appraisal report in Copy I."

The Cleveland mine to the southwest has taken out several million dollar in ore.

The United Copper to the northwest has been a large producer.

The northwest Magnesite is operating west of these properties.

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 - 776 X

Date received 5/7/51

Clarence R. Carr
J. M. Carr

Carr Bro's
~~Clarence Carr~~
Rt I
Valley Wn

Name and address of applicant

Date 4/25/51

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - [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. prices of metal at that time, no power, methods of working.
   (*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)
RT I Valley, Wn.							
Clarence P. Carr	owner	none	$50,000	none	none	none	none
J. M. Carr	owner		$50,000				
	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	$ none	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)	none				
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 or ore reserves. "See typewritten report on Copy I"

13. These properties are within 12 miles of Valley, Wash at that point the Great Northern railroad goes into Trail B.C.

The roads to these properties are good secondary dirt roads.

14. The water is sufficient for all season of the year. with plenty of timber for mining.

15. Both properties are within one mile of a high voltage, Washington Power line, which can be tapped upon request.

16. none

17 there are no building on the properties but have living quarters and machinery house, saw mill and all accomodation 1/2 mile from Edna mine on property we own.

D-7 Bulldozer 1- Sawmill capable of producing 8000 to 10000 board ft per day, 1-210 cubic ft Chicago pneumatic air compressor, 1-8x10 Corless air compressor. 1-610 ft portable compressor. 500 ft pipe, 500 ft of mine rail. 2 Jackhammers with air and water hose and drill steel.

1- Mitchell diamond drill with complete accessories

Complete Blacksmith equipment

1-3 ton international truck. 1-2 ton ford truck

1-1½ ton ford truck - 1-1 ton ford truck

We have ample equipment such as pick, shovels mag tools etc. We have complete assay equipment.

(*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)	unknowned				
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. "See typewritten report in Copy I"

(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.
We have promising mines, lots of machinery, willing to work, but no money,

CERTIFICATION

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

(Name of company)

By Clarence R. Carr
(Signature of authorized official)

4/26/51
(Date)

owner
(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

MF-201

There are no mortages or lien or encumbrance against the properties

Dma-776X

MORTGAGOR'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the owner is the holder of a mortgage, claim, lien, or encumbrance dated ....., ..., recorded in Book ....., page ....., of the records of the county of ....., State of .....,

upon that certain parcel of ground described in a certain Exploration Project Contract dated ....., 195...., between .....

.....,

the owner of said property and the United States of America;

NOW, THEREFORE, the undersigned does by these presents subordinate all of his right, title, and interest in said mortgage, claim, lien, or encumbrance to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights under the provisions of said mortgage, claim, lien, or encumbrance; and

The undersigned agrees to commit no act nor assert any right, title, or interest under said mortgage, claim, lien, or encumbrance that might contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 26 day of april, 195.1

Earl Bco's

U. S. GOVERNMENT PRINTING OFFICE 940767

Dma - 776X

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Steven, State of Washington, described in a certain Exploration Project Contract dated 4/26/51, 195__, between Earl Bro's, the ~~Lessee~~ owner of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated 4/26/51, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 26 day of April, 195.1

Earl Bro's

U. S. GOVERNMENT PRINTING OFFICE 940768

MF-200
(April 1951)

Docket No. DMA 776X
Commodity _____

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this 26 day of april, 1951, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Bar Bros Valley, Wn Rt 1

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 Wash, County of Stevens described as follows: [3] 5 Claim in Sec 9 + 10 - Twn 31 - R 39 known as the Edna Group and 80 acres in Sec 36 Twn 31 - R - 38 known as the Wells Fargo mine.

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: The Well Fargo is a 20 year state school contract. The Edna is a Clear title deed.

(*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] ~~Copper, Lead, zinc, antimony, Silver~~; 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] 2 yr 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. Attached hereto, marked "Exhibit 'B'," is a detailed list of 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 its agreed pro-rata share of the cost. 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.* Attached hereto, marked "Exhibit 'C'," is a detailed list of operating equipment divided into categories of items to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or rental value, as the case may be, annexed to each. 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. Bar Bros Valley, Washington, Rt I
[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.* Attached hereto, marked "Exhibit 'D'," is 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.

9. *Rehabilitation and repairs.* Attached hereto, marked "Exhibit 'E'," is a detailed schedule of existing facilities, buildings, installations, and fixtures, with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition, which cost shall be allowed as a cost of the project.

10. *Allowable costs of the project.* The allowable 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, 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 the 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, or any other indirect costs not expressly allowed by these regulations, 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. *Participation by the Government.* At the end of the first full calendar month after the Operator has commenced work under the project, and at the end of each succeeding calendar month, the Operator shall submit to the Government a voucher for payment with a detailed statement of work done and allowable costs (as defined in Article 10 of this agreement) incurred, in a form and with supporting data acceptable to the Government. After approving the voucher, the Government shall pay to the Operator _____ percent of the sum of such costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $_____, which is _____ percent of the agreed estimated total cost of this project, $_____.

12. *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.

13. *Progress reports.* The Operator shall provide the Government with monthly reports of progress in form and content satisfactory to the Government, and upon the completion of the project or termination of the contract 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.

14. *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 additional for each 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 property 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.

15. *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.

16. *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 triplicate the day and year first above written.

4/26/57

Gar Bros

(Operator)

By Clarence R. Gar

THE UNITED STATES OF AMERICA

By _____

U. S. GOVERNMENT PRINTING OFFICE 16—64066-1

FILE COPY
SURNAME:

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

APR 12 1951

A.B. Griggs
pat Rogers
Herres
Mote

Mr. Clarence R. Carr
Valley, Washington

In reply please
refer to DMA-776

Dear Mr. Carr:

One of the purposes of the Defense Production Act of 1950 is the encouragement of exploration, development and mining of strategic minerals and metals. Where an applicant has proven reserves of strategic materials, Federal aid in mining can be given through procurement contracts for such materials as are in short supply. On the strength of these contracts, the applicant can obtain private financing in most instances.

The program recently approved for encouragement of exploration of strategic materials calls for participation on the part of the applicant. For zinc, lead and copper deposits it will be necessary to match Government funds on an equal basis, but for antimony the Government will contribute 75 percent of the cost of the exploration. However, a deposit must show promise of producing a significant amount of antimony, before it can be considered eligible for Government participation in the exploration costs at the higher rate. Funds advanced by the Government will be considered a loan, to be repaid if the exploration is profitable, but to be canceled if unsuccessful. The details of the plan, explaining the projects that will be eligible for assistance, the terms and schedules of financing, repayment, and other pertinent information, are enclosed.

A review of your application (DMA-776) for financial aid in rehabilitating and exploring your Wells Fango, Edna and Vulcan properties in Stevens County, Washington indicates that part of your proposal may be considered under this exploration program. Details concerning expenditures that will be considered chargeable to exploration aid will be subject to a final determination by negotiation, but as a preliminary appraisal, we believe that the program will apply to the $60,000 you propose to use in opening up and exploring these properties.

Before we can proceed further with consideration of your application, which may or may not require a field examination, please indicate your willingness to provide your share of the funds needed to carry out the proposed exploration. Any modification of your original proposal that you may wish to make will be considered, but you should be specific concerning the work you wish to undertake.

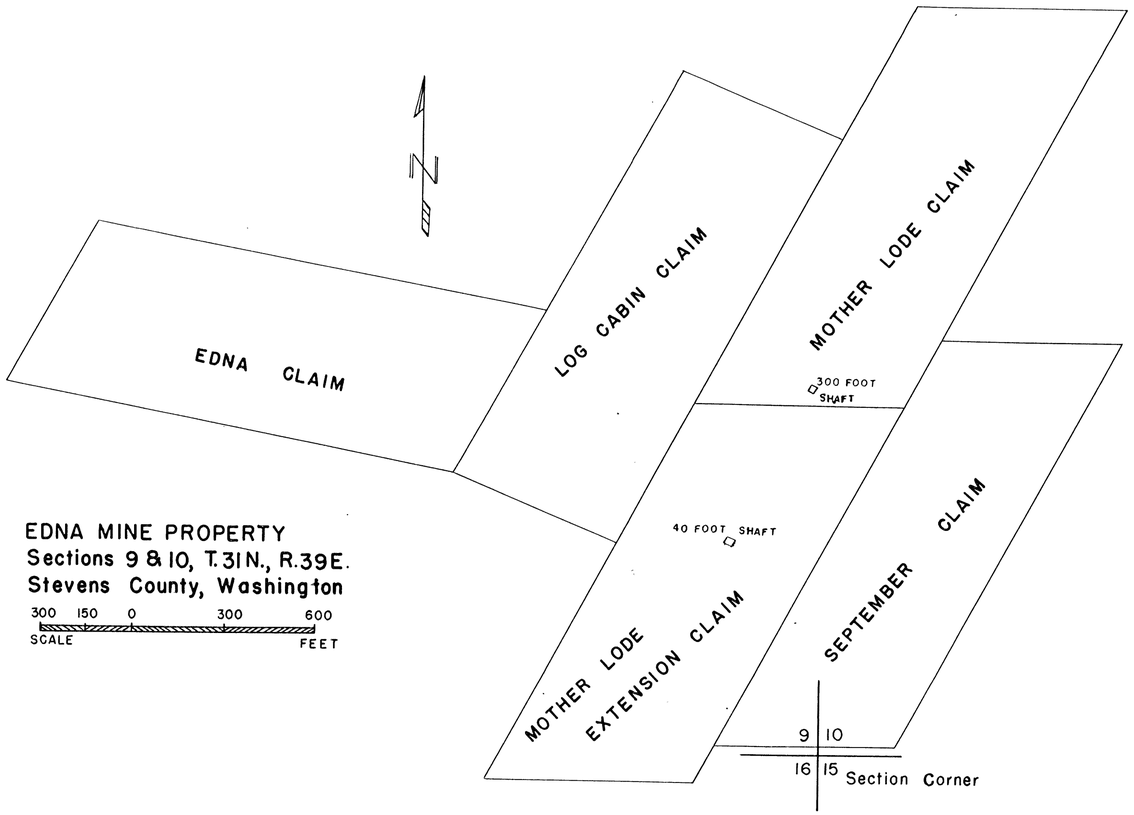
Very truly yours,

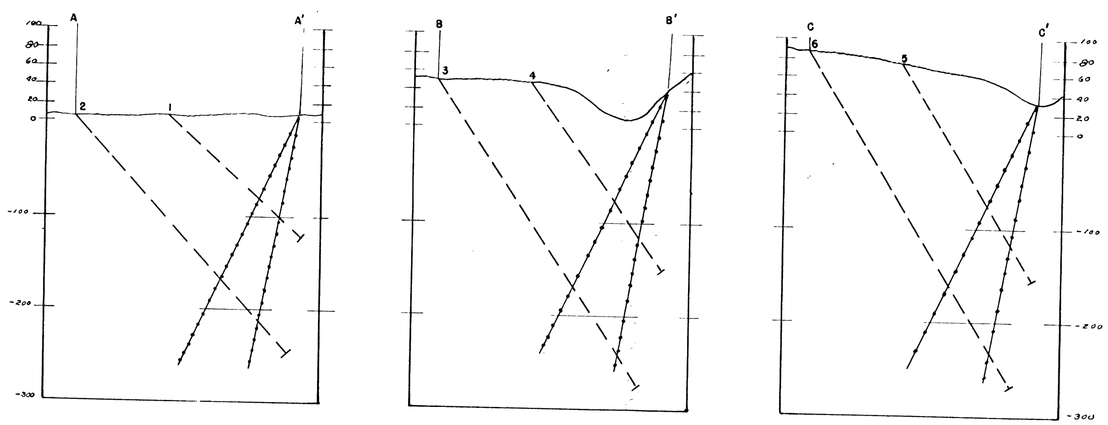
Otto Herres

OTTO HERRES, Chief
Lead-Zinc Branch

ABGriggs:bsp
G 3/22/51
Copies to: Chief, Lead-Zinc Branch
USGSMcKnight
Enclosures L. B. Moon R. H. Mote
2 copies to A. E. Weissenborn, Exec. Officer, Region II

L. F. Strobel
C. O. Mittendorf
Files



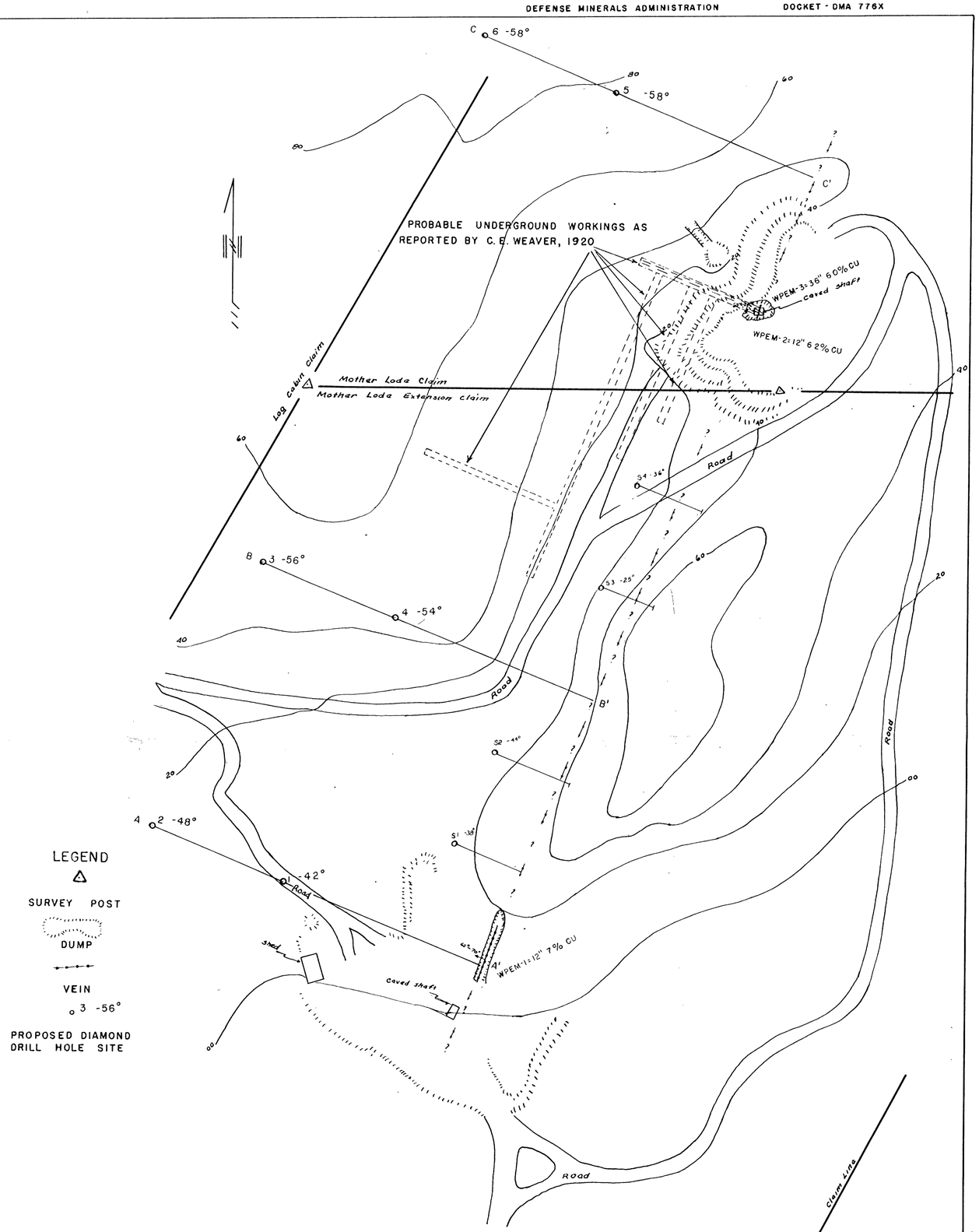


SECTIONS IN PLANE OF PROPOSED DIAMOND DRILL HOLES

ALL SECTIONS S.67° E.

VEINS SHOWN INDICATE PROBABLE LIMITS BETWEEN WHICH THE ORE ZONE MAY BE INTERSECTED

SCALE 100 50 0 100 200 FEET



PROPOSED EXPLORATION AND REPORTED UNDERGROUND WORKINGS

EDNA MINE

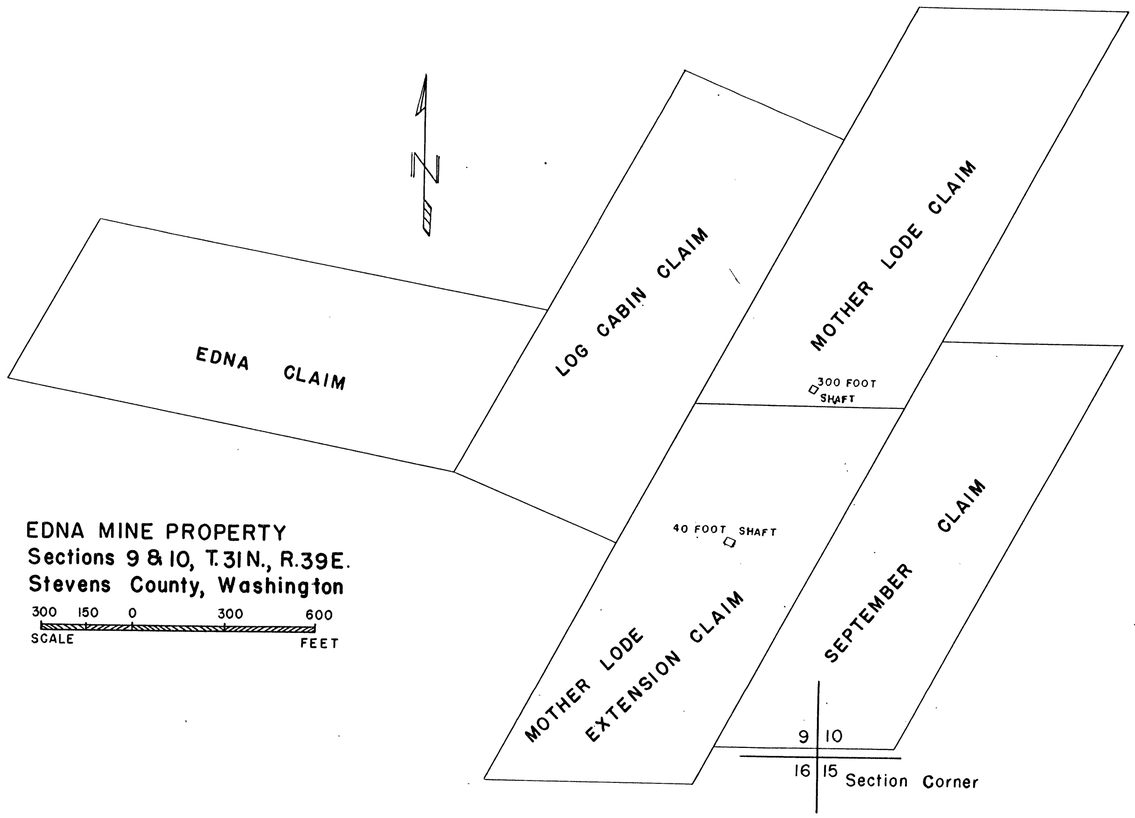
STEVENS COUNTY, WASHINGTON

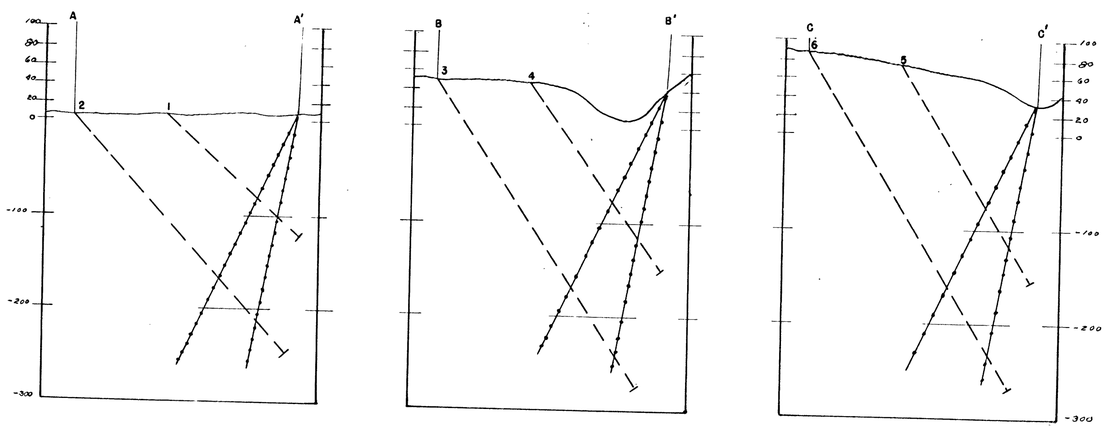
SCALE 100 50 0 50 100 150 FEET

CONTOUR INTERVAL 20 FEET

DATUM ASSUMED

TOPOGRAPHY AFTER PLANE-TABLE SURVEY BY W. KLEWENO, A.V. WALLACE, & G.E. EBERHARDT, WASHINGTON STATE COLLEGE STUDENTS, 1950





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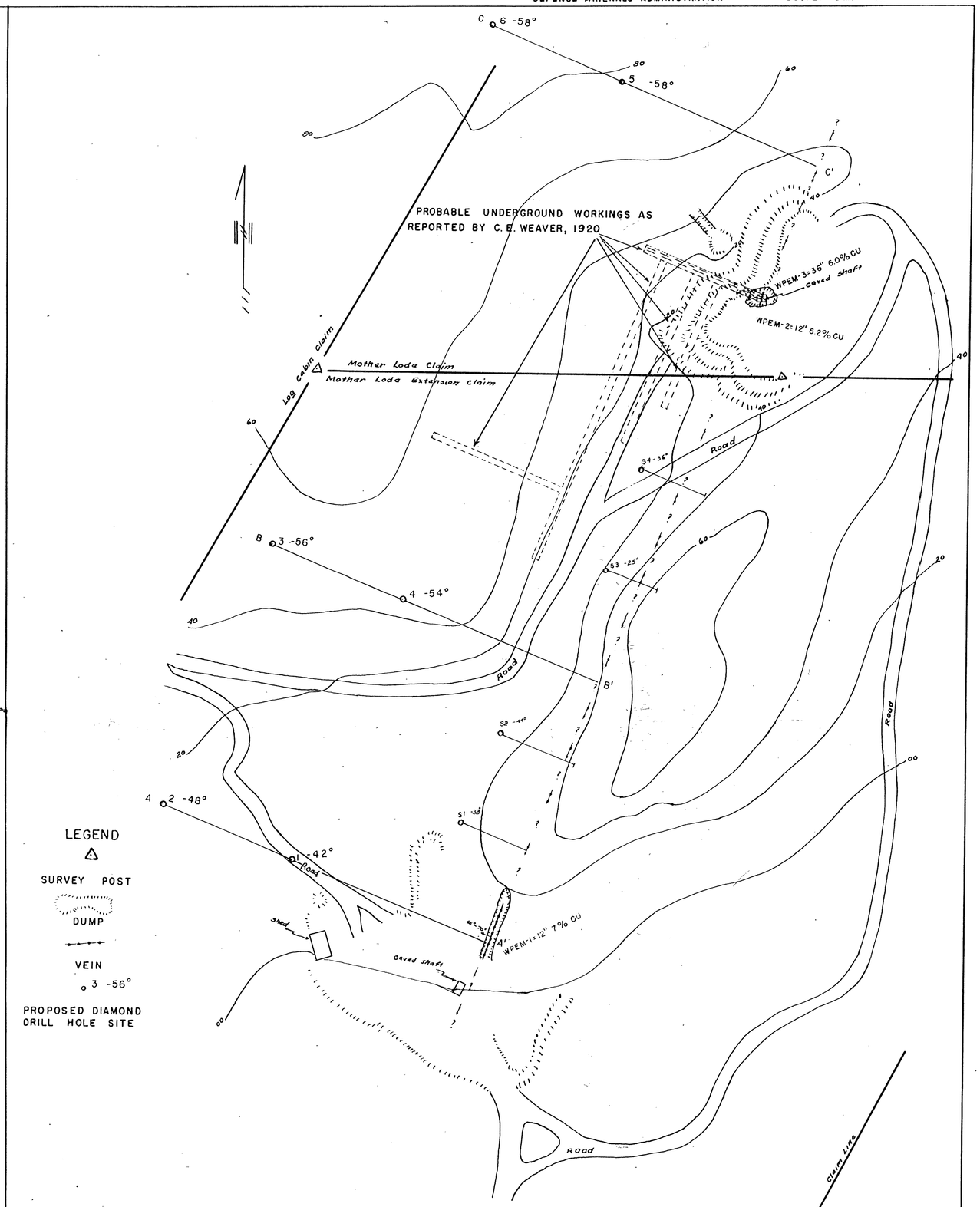

PROPOSED EXPLORATION AND REPORTED UNDERGROUND WORKINGS

EDNA MINE

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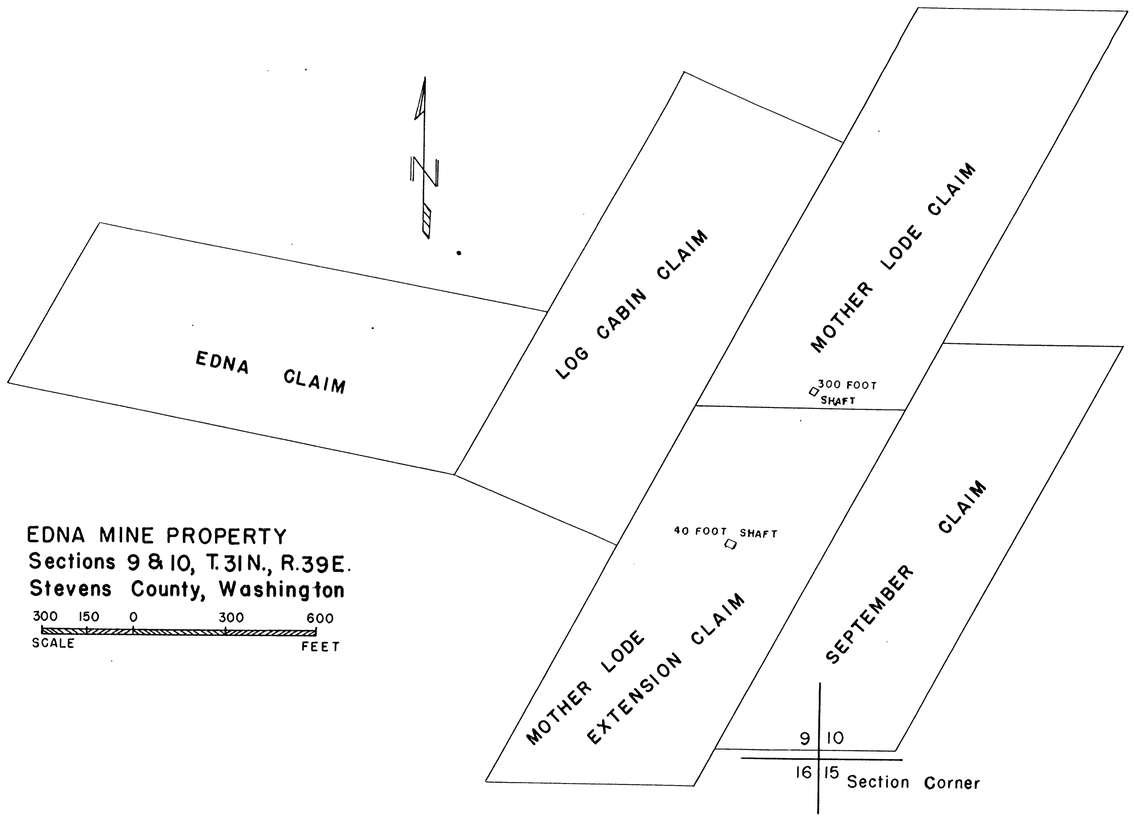

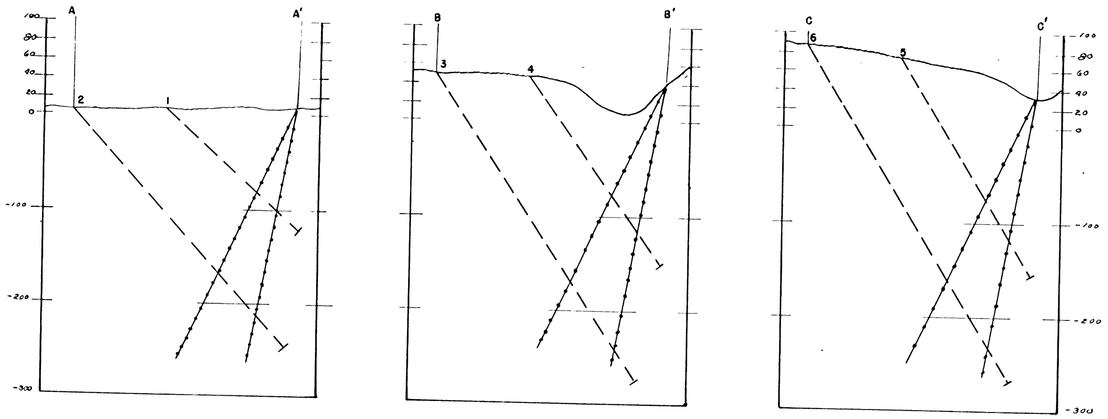

SECTIONS IN PLANE OF PROPOSED DIAMOND DRILL HOLES

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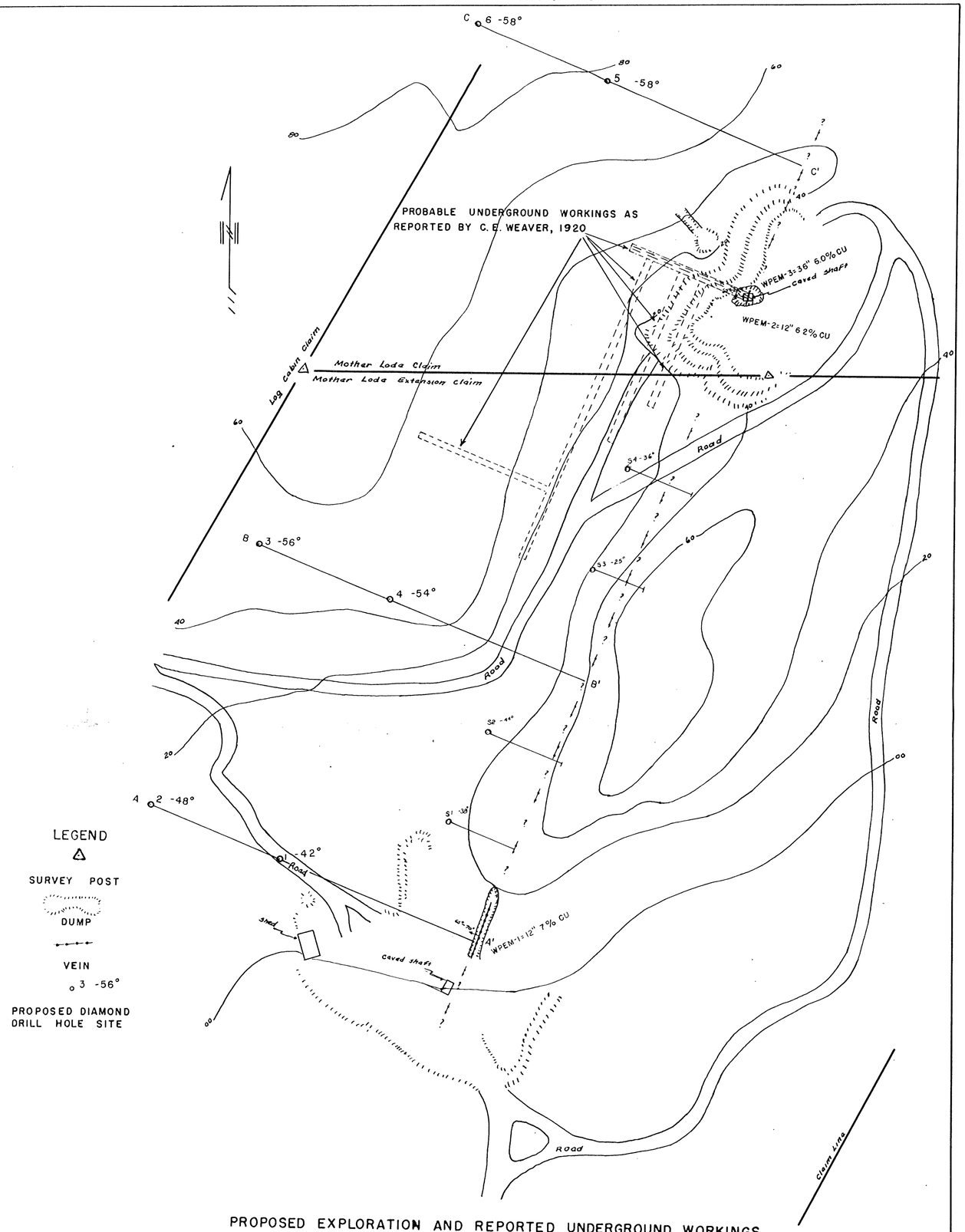
SCALE 100 50 0 100 200 FEET



PROPOSED EXPLORATION AND REPORTED UNDERGROUND WORKINGS

EDNA MINE

STEVENS COUNTY, WASHINGTON

SCALE 100 50 0 50 100 150 FEET

CONTOUR INTERVAL 20 FEET

DATUM ASSUMED

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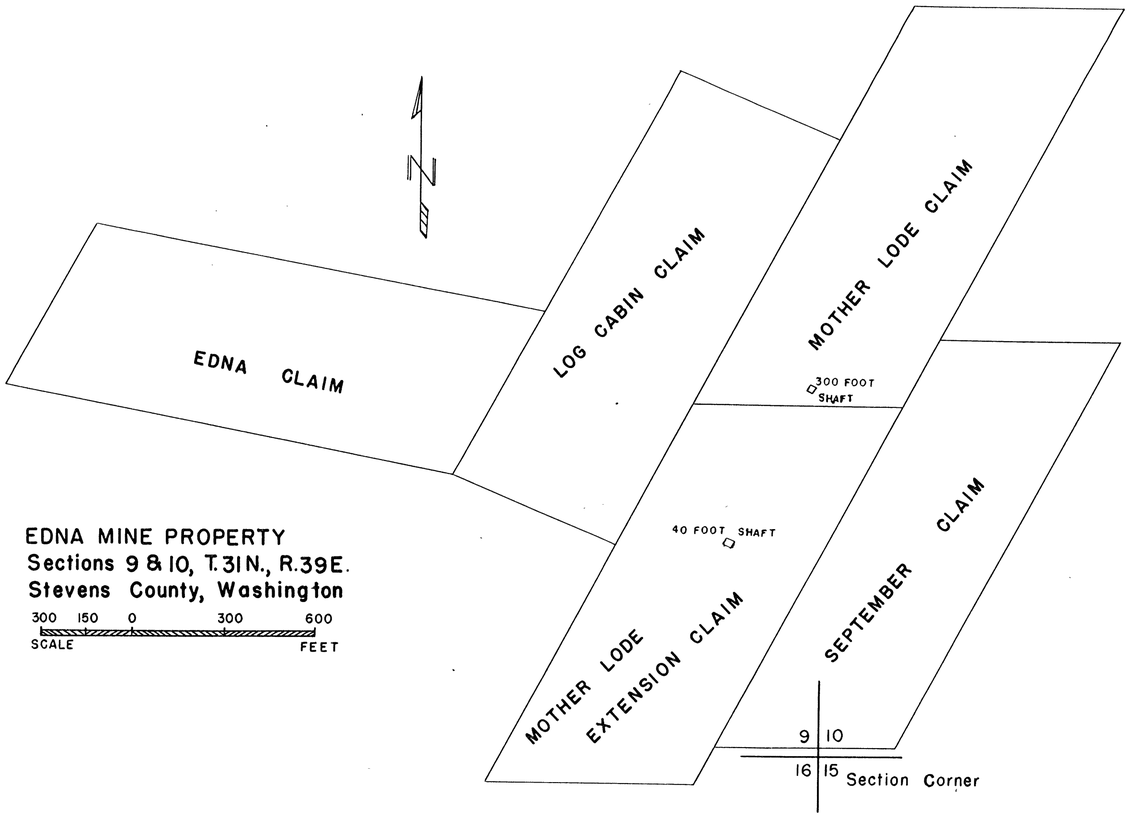

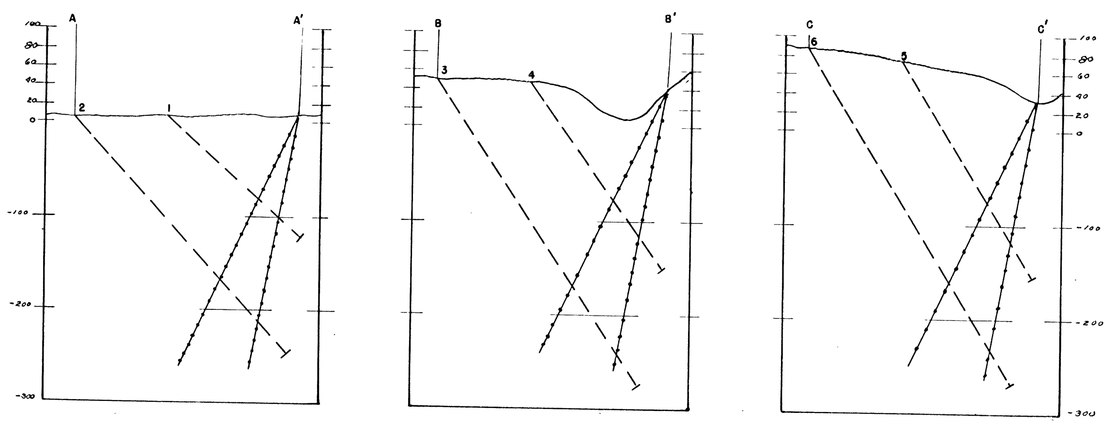

SECTIONS IN PLANE OF PROPOSED DIAMOND DRILL HOLES

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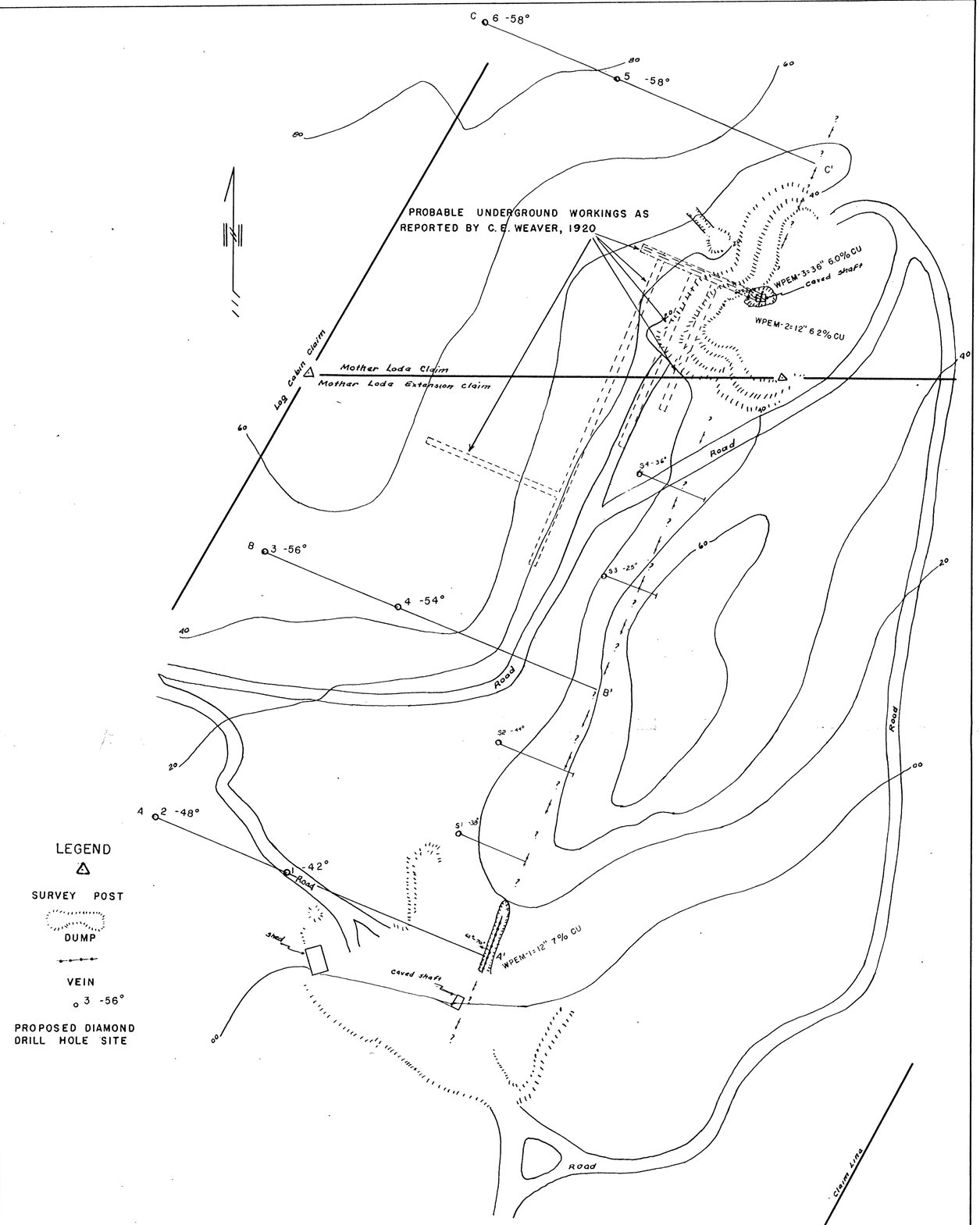
VEINS SHOWN INDICATE PROBABLE LIMITS BETWEEN WHICH THE ORE ZONE MAY BE INTERSECTED

SCALE 100 50 0 100 200 FEET



PROPOSED EXPLORATION AND REPORTED UNDERGROUND WORKINGS

EDNA MINE

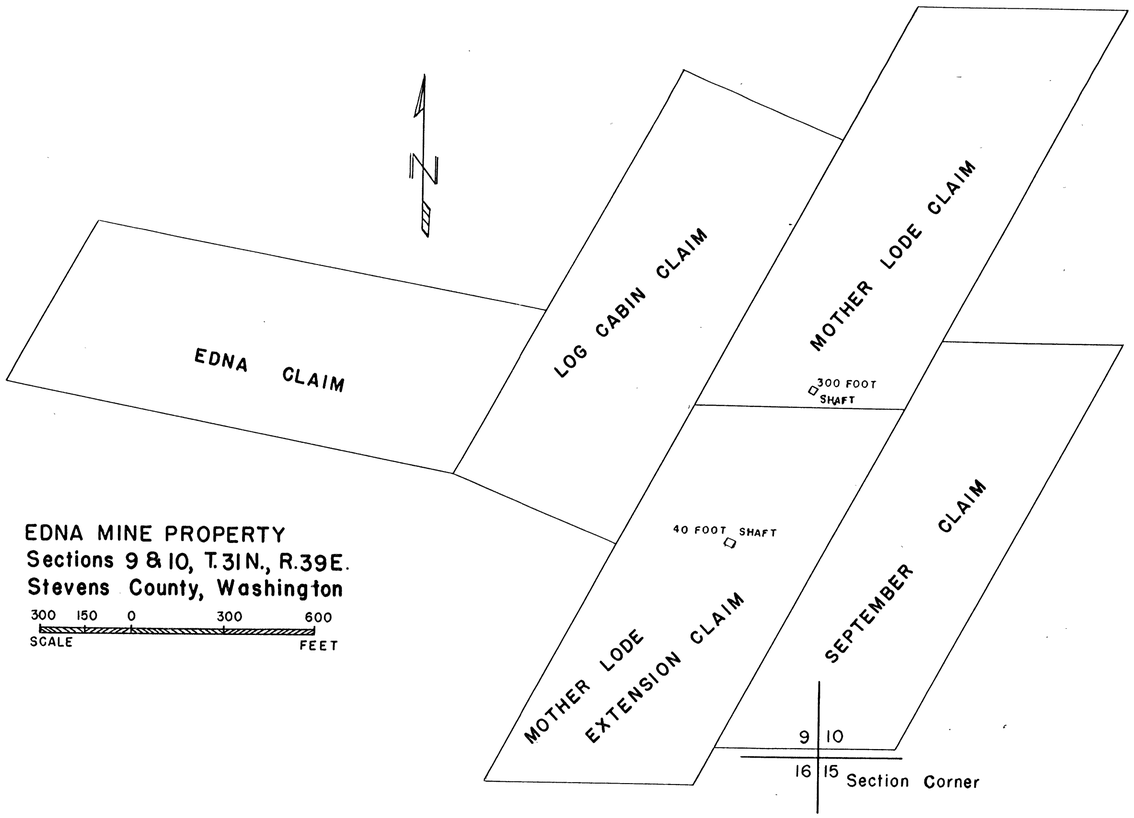
STEVENS COUNTY, WASHINGTON

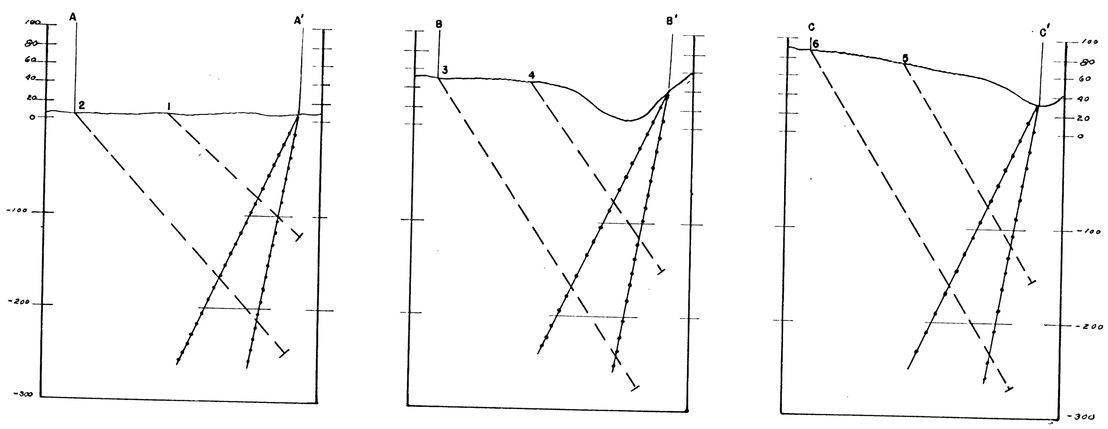
SCALE 100 50 0 50 100 150 FEET

CONTOUR INTERVAL 20 FEET

DATUM ASSUMED

TOPOGRAPHY AFTER PLANE-TABLE SURVEY BY W. KLEWENO, A.V. WALLACE, & G.E. EBERHARDT, WASHINGTON STATE COLLEGE STUDENTS, 1950





SECTIONS IN PLANE OF PROPOSED DIAMOND DRILL HOLES

ALL SECTIONS S. 67° E.

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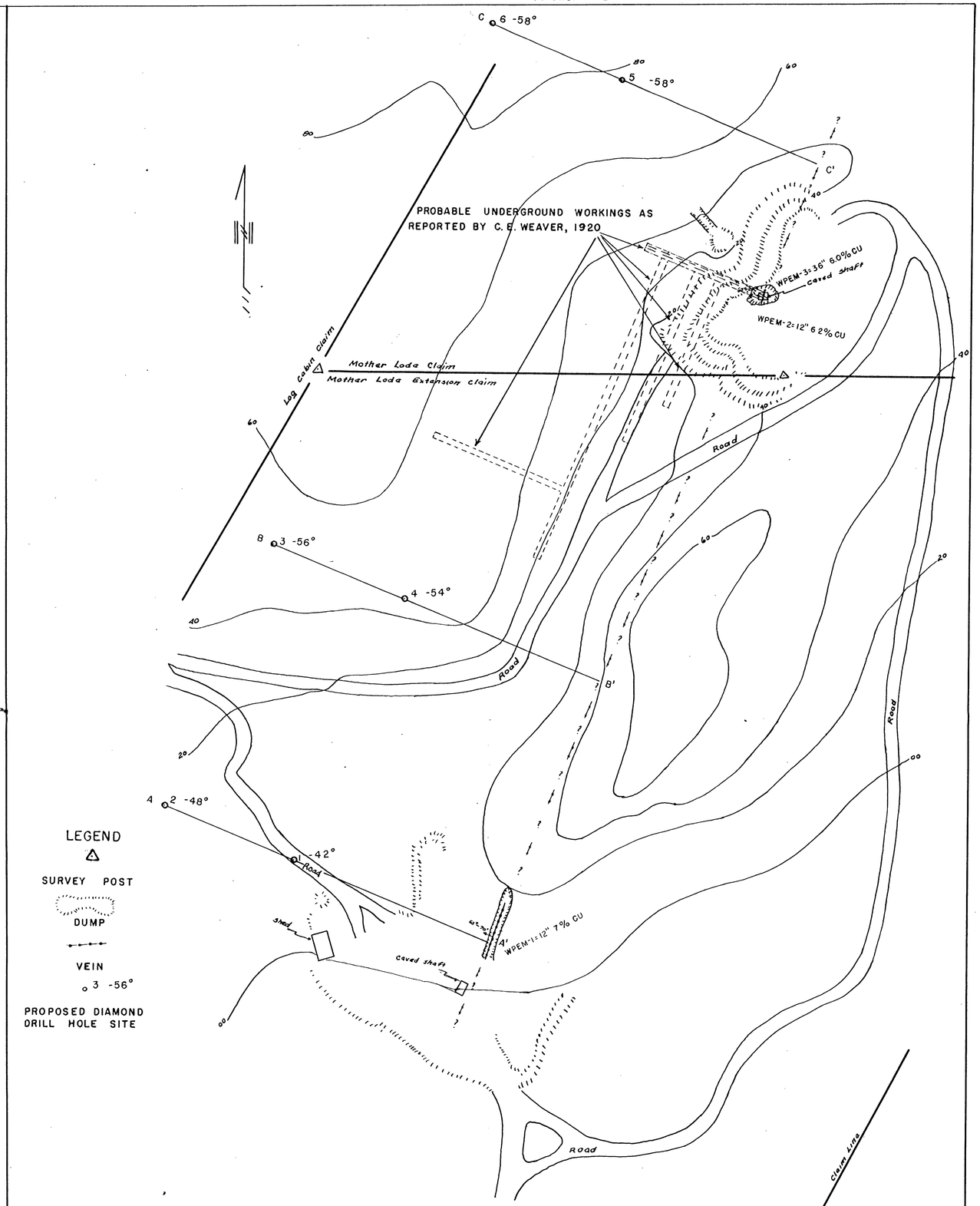

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EDNA MINE

STEVENS COUNTY, WASHINGTON

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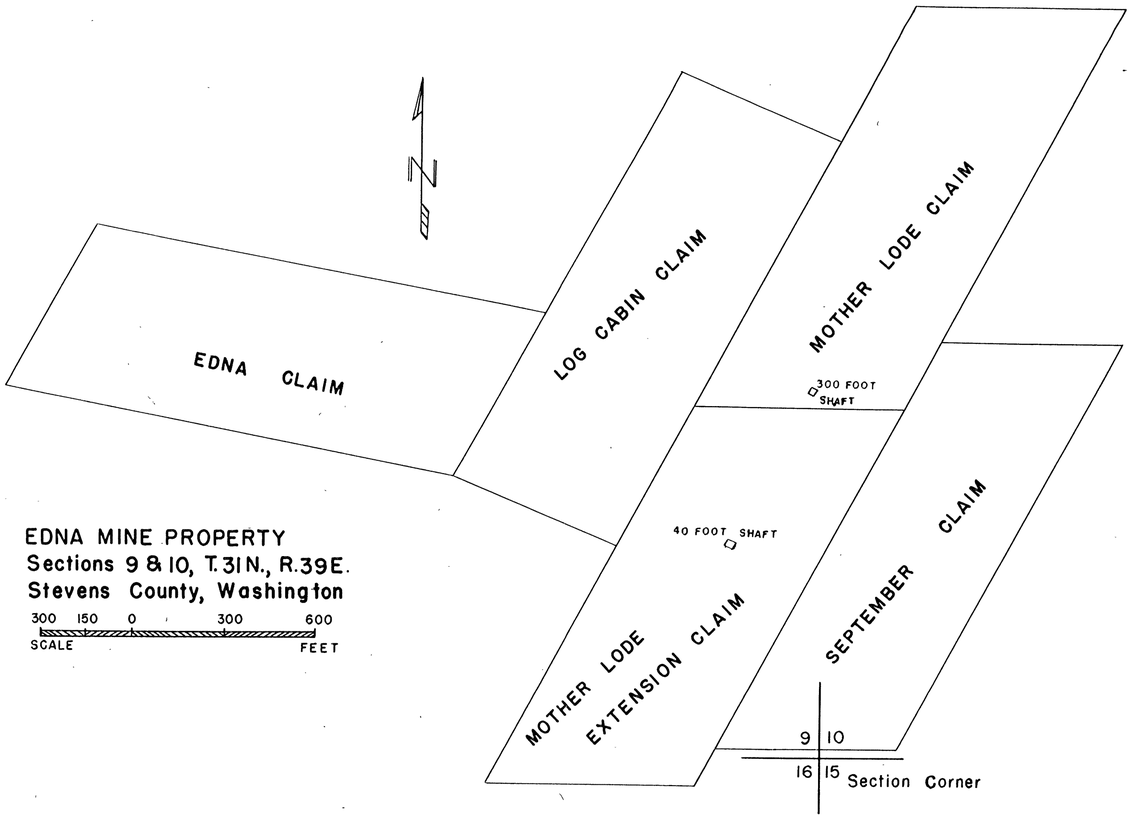

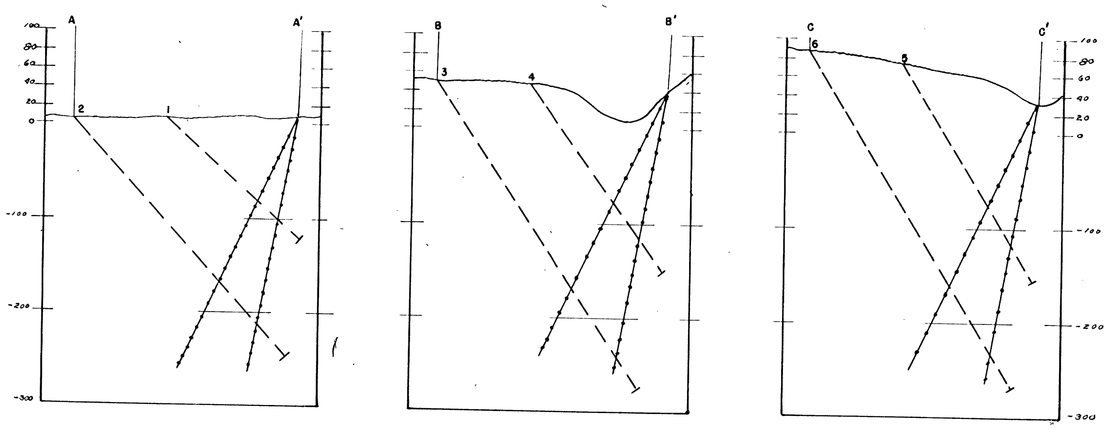

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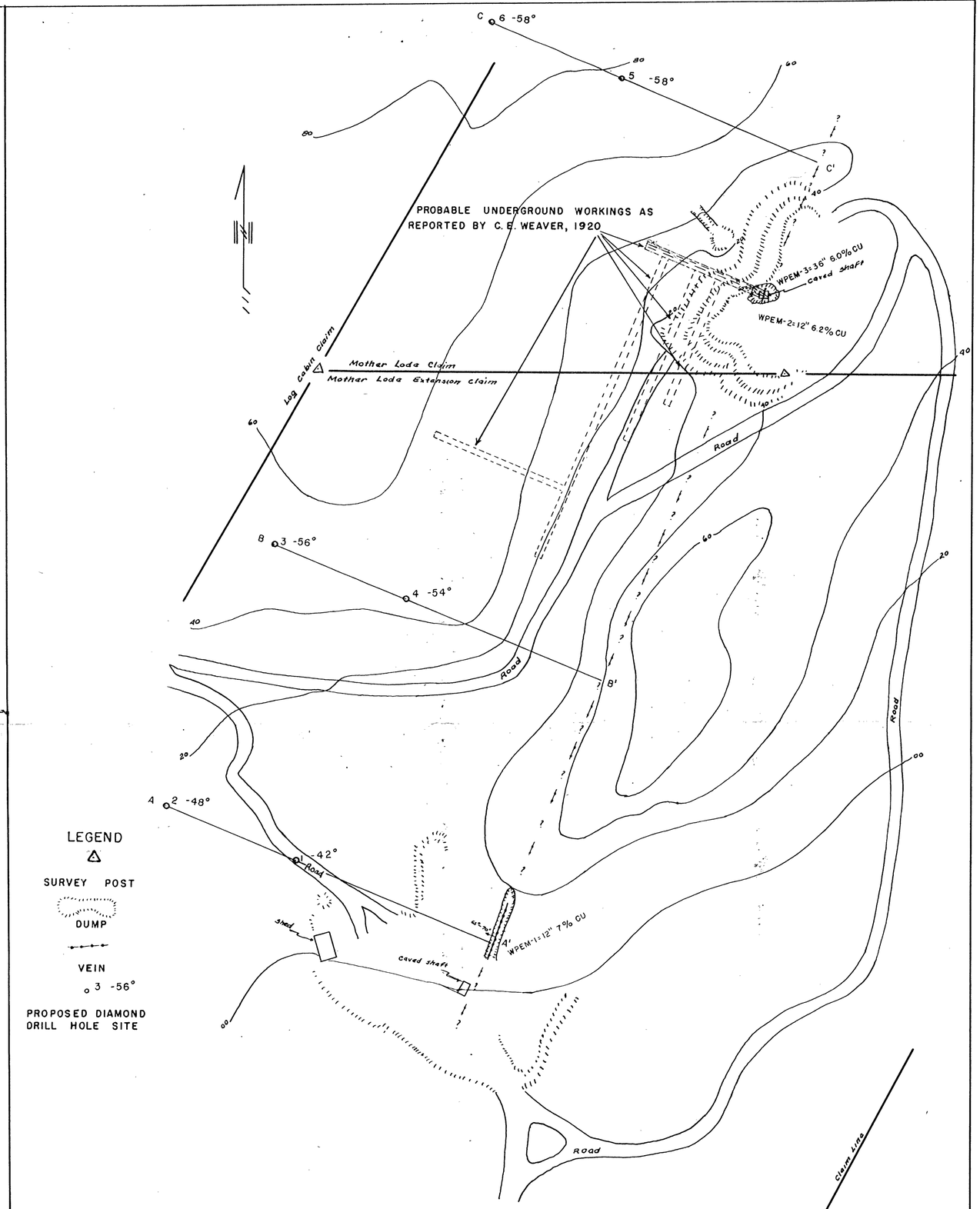

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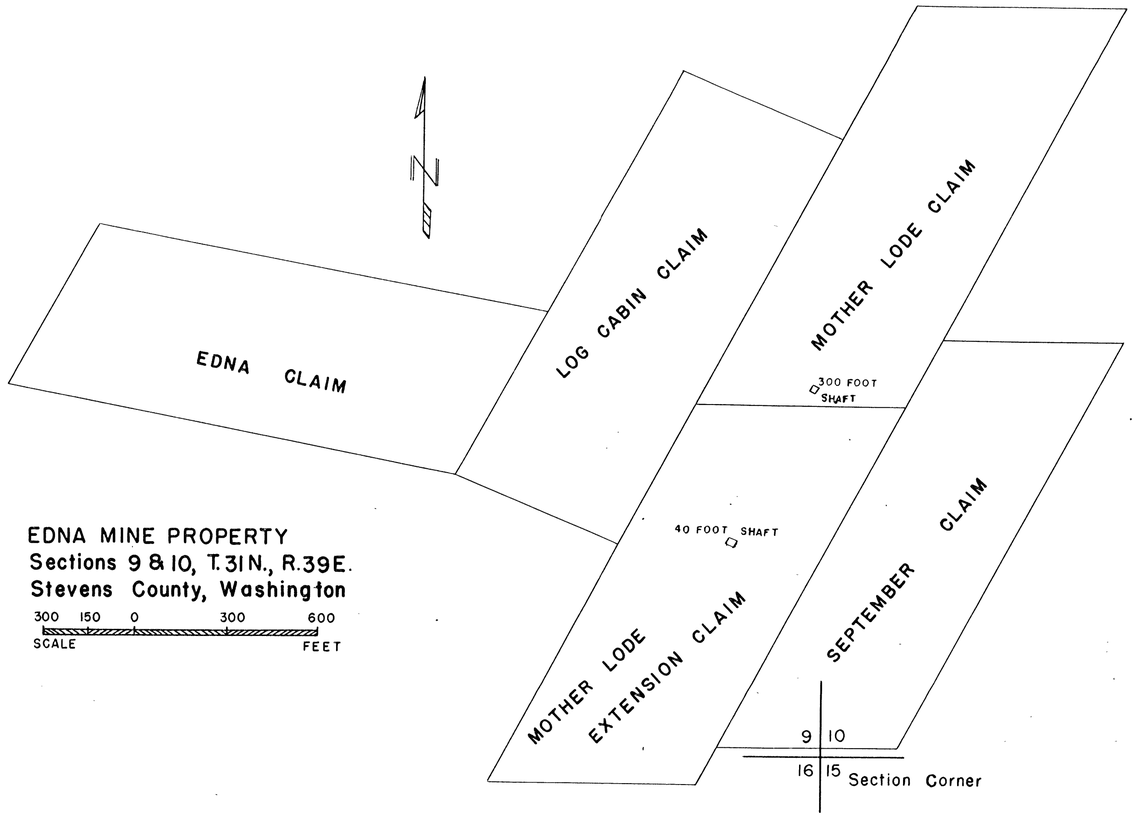

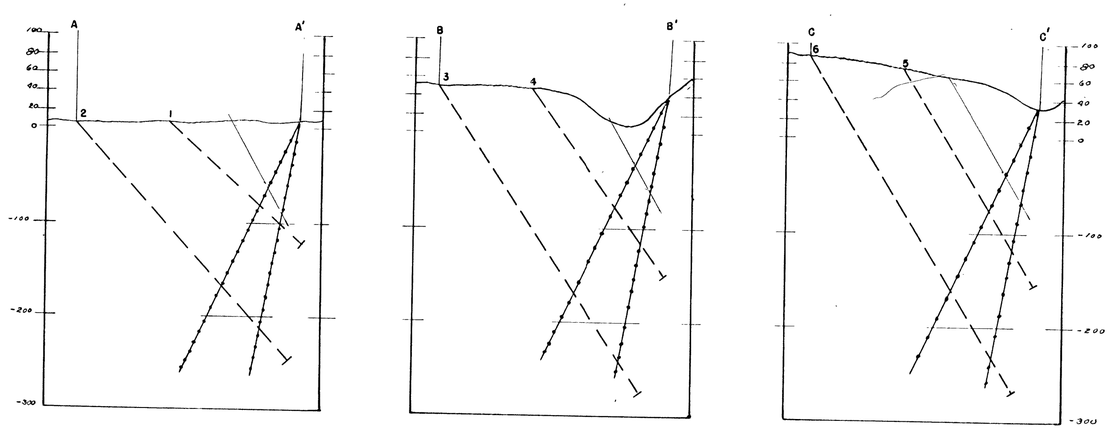

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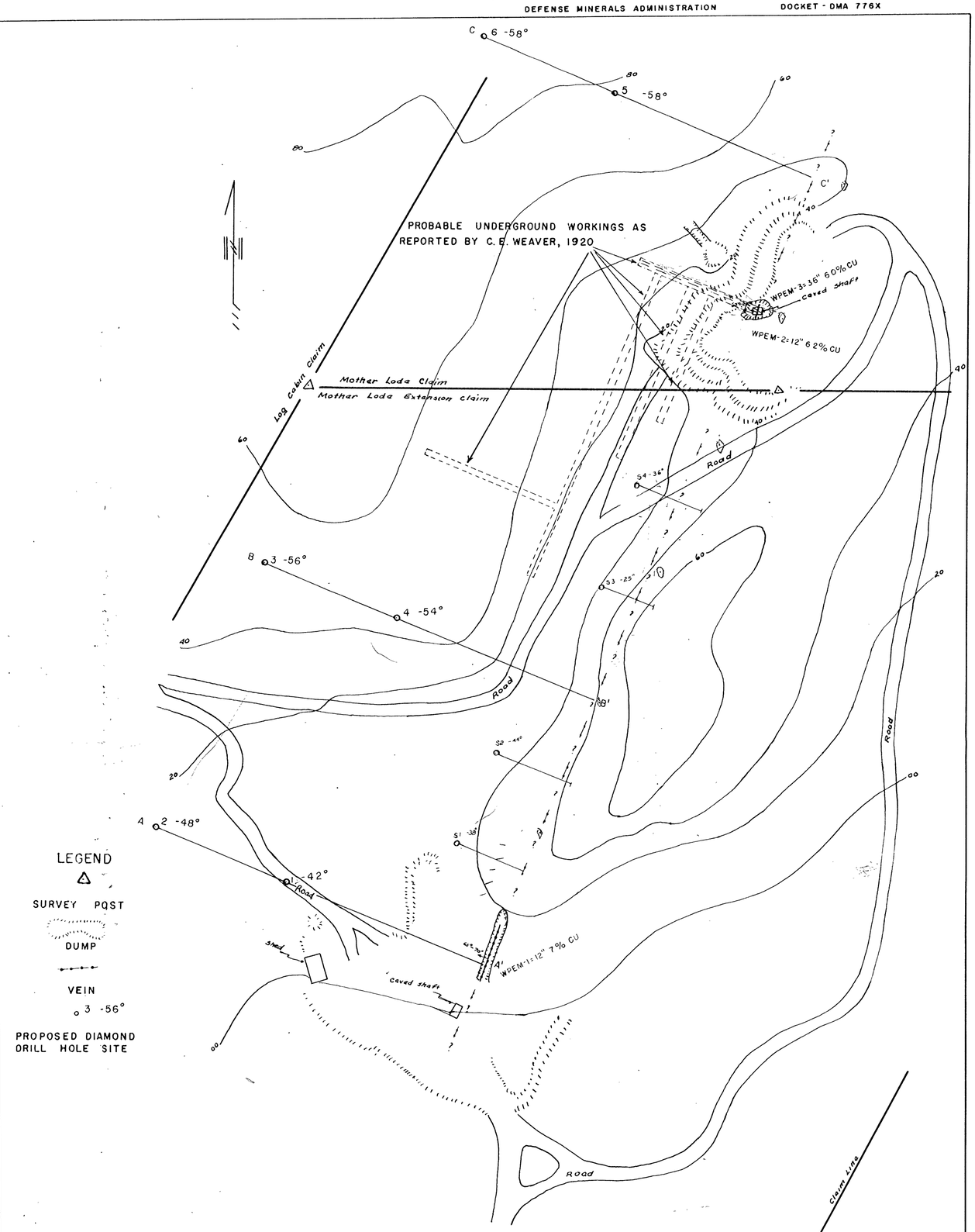

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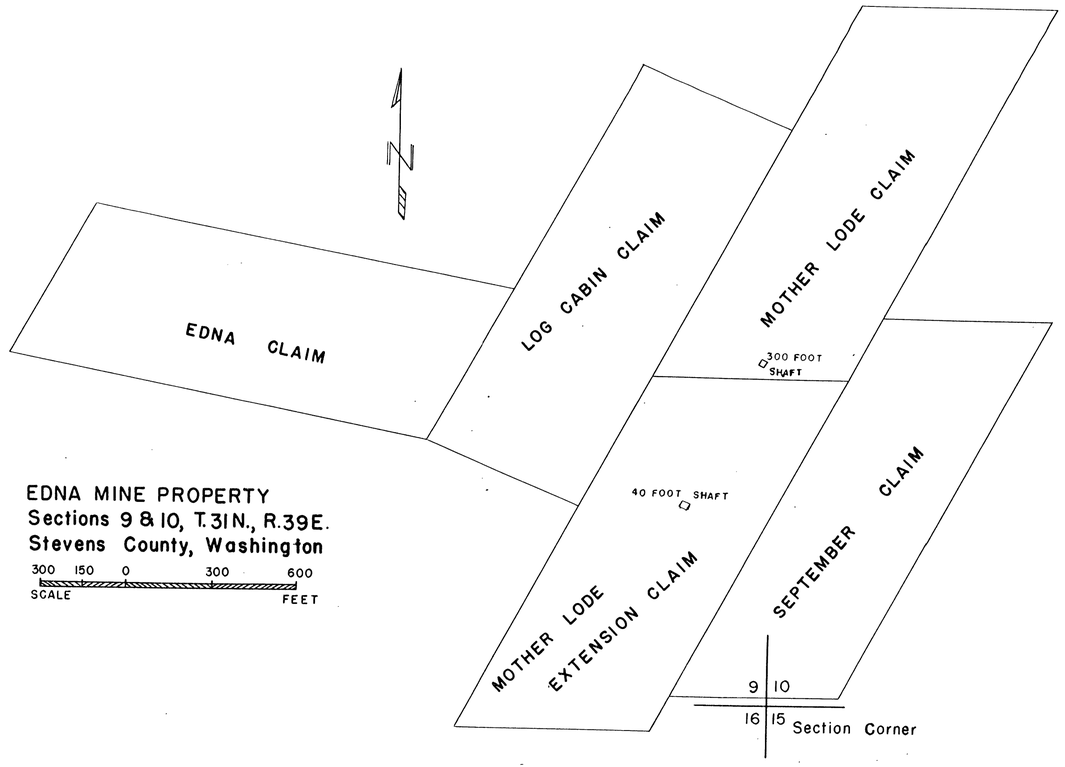

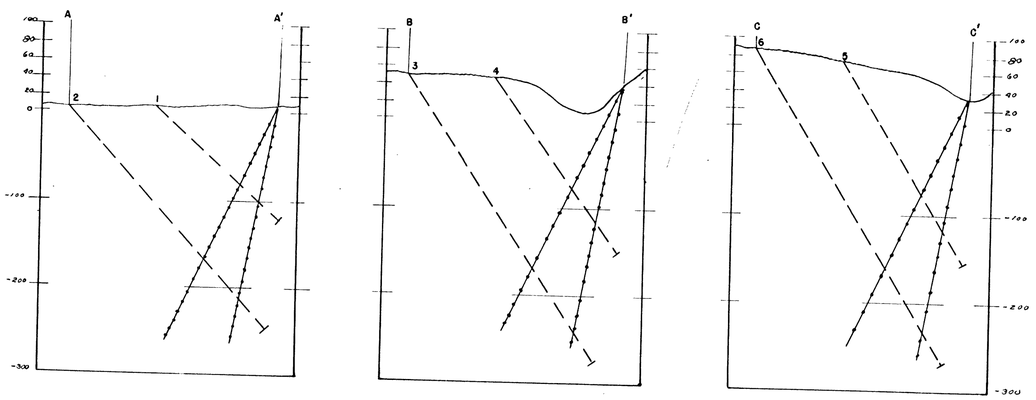

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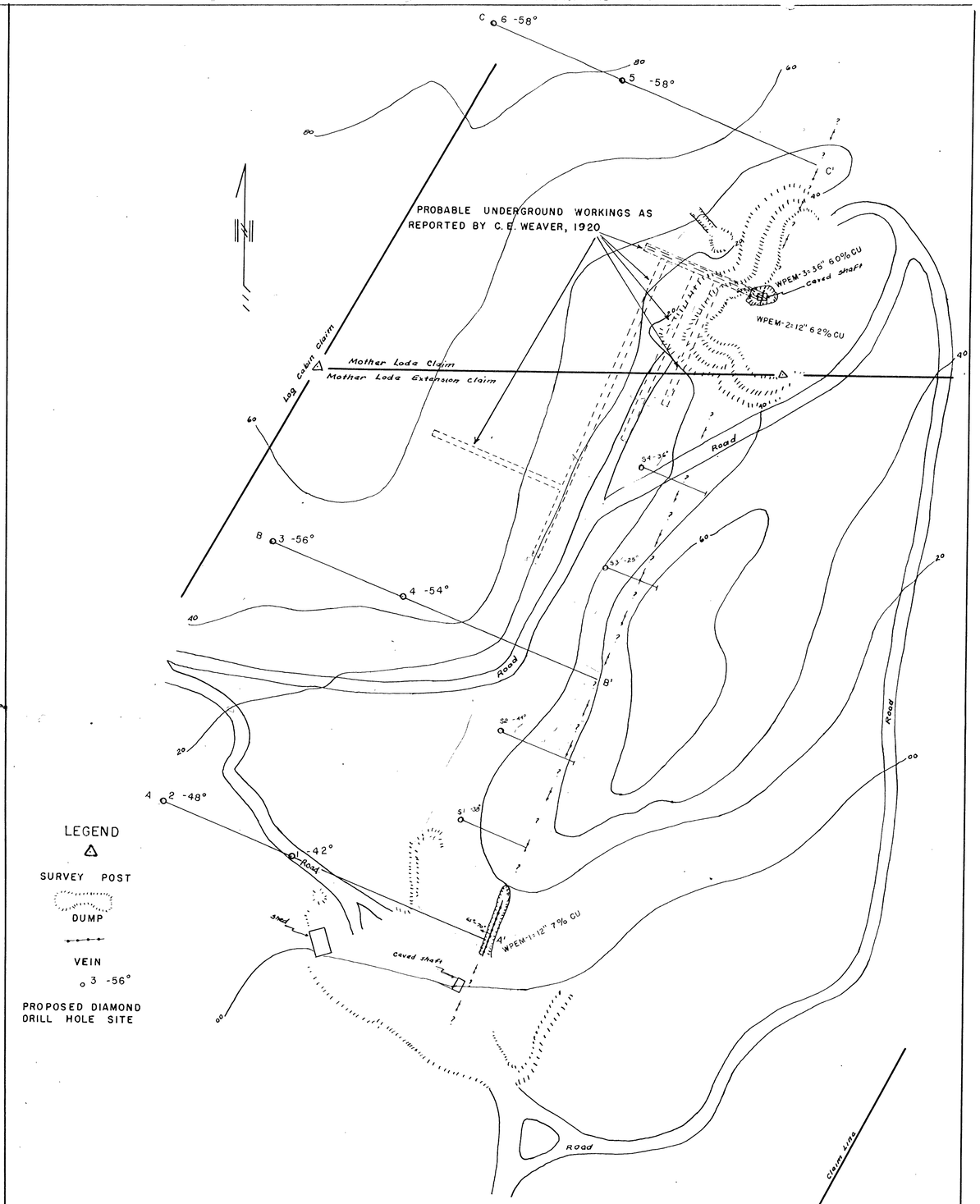

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