DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMA Docket No. 1885

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APPLICATION FOR EXPLORATION PROJECT

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

Routing Slip

To:	Tungsten Br.	Date	7/27/51
To:	Supply Division	Date	9/21/51
To:	Production-Expansion Division	Date	SEP 25 1951
To:	PKP	Date	10-16-51
To:		Date	
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This document has been recorded as

_____

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Routing Slip

To:	Coordinating Committee	Date	Aug. 8, 1951
To:	Reports & Records	Date	AUG 9 1951
To:		Date	
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INT.-DUP. SEC., WASH., D.C. 98868

FILE COPY
SURNAME:

410

Selfridge
Mittendorf

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

OCT 1 8 1951

G.E.C

Johnson Brothers and Prime
Boulder County
Nederland, Colorado

Re: Docket No. DMA - 1885

Gentlemen:

In accordance with your instructions in a letter dated October 10, 1951 to Mr. J. H. East, Jr., Executive Officer, Region IV, Defense Minerals Administration, we are cancelling the subject application.

Should you, in the future, file a new application for Governmental assistance involving the same property, please refer to the present docket by number.

Sincerely yours,

J.J. 10-18

C. O. Mittendorf (for)

C. O. Mittendorf, Director
Production Expansion Division

JSelfridge/meb
10/16/51
cc to: Admr's Reading Files
Reports and Records
Messrs.Mittendorf/Olund
Mr. Holderer
Mr. Geehan
Mr. Thayer
Field Team (Reg.IV)(2)
Mr. Selfridge
Docket

FILE COPY
SURNAME:

410

Selfridge
Mittendorf (for)

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

October 16, 1951

Memorandum

TO: Reports and Records Section

FROM: Production Expansion Division

SUBJECT: Docket No. DMA - 1885
Johnson Brothers and Prime
The Hoosier Tungsten Mine
Boulder County, Colorado

Advice has been received by the Executive Officer, Region IV, to the effect that the applicant named in the above-reference has withdrawn the request for Governmental assistance.

Forwarded herewith is the complete-subject docket.

C. O. Mittendorf (for)

C. O. Mittendorf

J.J. 10-18

Enclosure

JSelfridge/meb
cc to: Admr's Reading Files
Reports and Records
Messrs.Mittendorf/Olund
Mr. Selfridge
Docket

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WASHINGTON 25, D. C.

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C. O. Mittendorf

C. O. Mittendorf

Enclosure

DEFENSE MINERALS ADMINISTRATION
WASHINGTON D.C.
OCT 15 10 55 AM '51

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

DEPARTMENT OF THE INTERIOR
RECEIVED
OCT 1 5 1951
Defense Minerals Administration,
Production Expansion Division.

224 New Customhouse
Denver 2, Colorado

October 12, 1951

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division
Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: DMA Docket 1885, Johnson Bros. & Prime, Nederland, Colorado

We have been advised by Johnson Bros. & Prime of Nederland, Colorado in a letter dated October 10 in reference to the above docket, that they no longer desire Government assistance.

Please cancel this application, sending us a copy of your action.

J. H. East, Jr.

-103
951)

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 1885

Date received 7-24-51

Participation

Johnson Bros. & Prime
Nederland, Colorado

Ralph Johnson
Louisville, Colorado

Name and address of applicant

Date July 9, 1951

FILL IN THIS BLOCK

Date of application July 9, 1951

Estimated cost $15000.00 3750

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine 2 miles North East of Nederland, Colorado

$11,250
3750
$15000

Date of filing MF-100 May 21

DMA Docket Number, if available 0081

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? Partnership

*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. inapplicable

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. 19 yrs. mining experience

*5. Are you the owner or the lessee of the property? lessee

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. inapplicable

7. If lessee, attach a copy of the lease and state if it is in good standing. lease in good standing

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

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

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? sufficient money to pay our part of project

*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. Hoosier mine

*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. all building and equipment necessary on ground good.

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	15 tons per day	1/2%	$16.00	$20.00
(2) Milling	15 tons per day			
(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? tungsten

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. none
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings. none
    (*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. one pump $963.00
    (*f*) Cost of rental for equipment which the operator proposes to rent. $100 per mo. or $300.00
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work. $300.00
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each. $1450.00
    (*i*) Cost of power, water, utilities, and any other items not provided for above. power--$950

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.

Johnson Brost Prime (Name of company) By Ralph L. Johnson (Signature of authorized official)

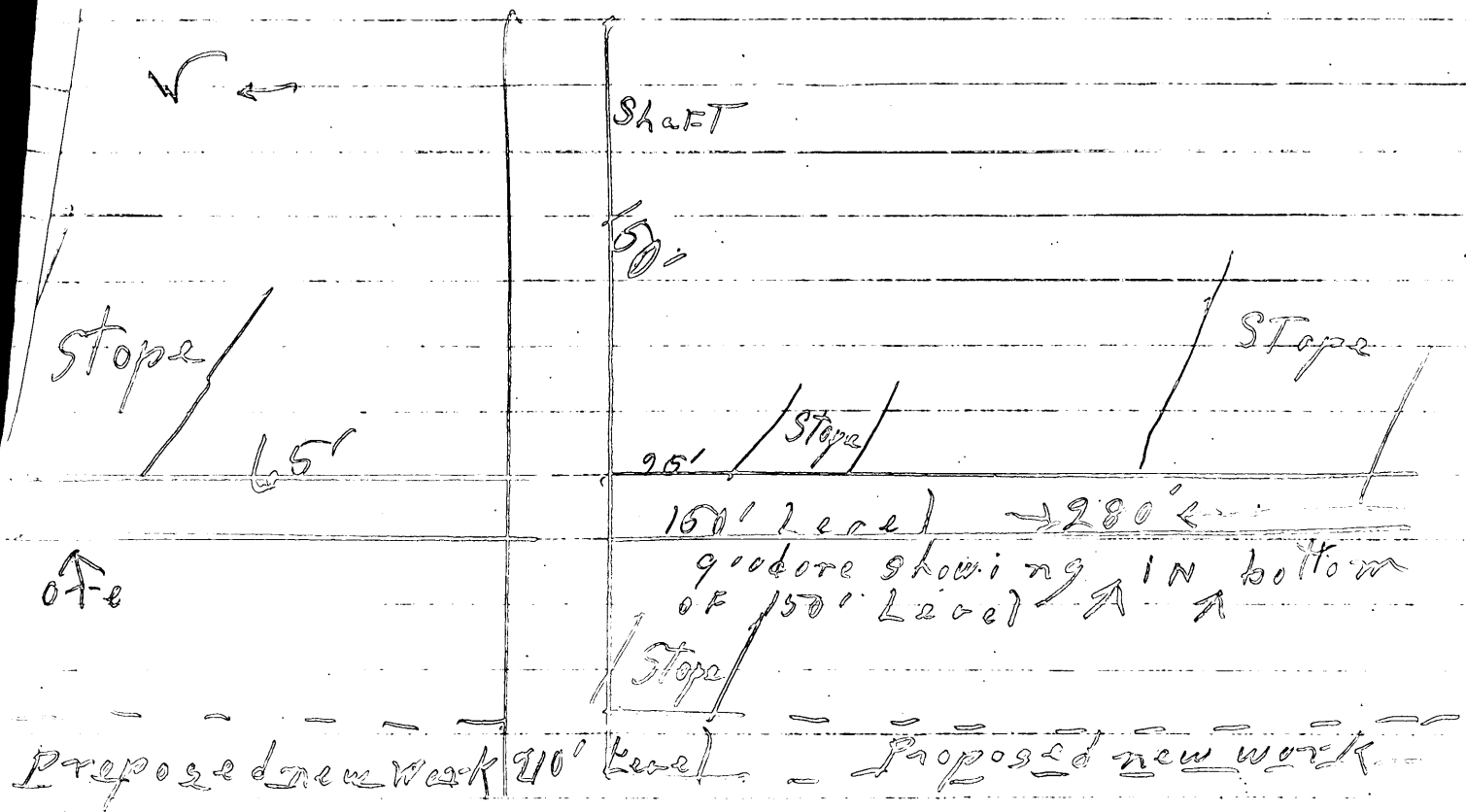
July 9 1951 (Date) partner (Title)

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

*Same as footnote on page 1.

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

Hoosier Mine Shaft & Drifts



Ore expected to occur on 210' Level in continuation of all ore shoots developed on 150' level

2. Ralph L. Johnson — Louisville, Colorado
George A. Prime — Nederland, Colorado
Roy W. Johnson — Berthoud, Colorado

8. Cash on hand — $1236.95
Equipment owned — $10000.00
Equipment leased — $4500.00
Lien on equipment owned — $4577.00

10. (a) Hoosier mine
Shaft is 200 ft. deep
750 ft. of drifts 150 ft. of cross cut
completely equiped in mine and on top

12. Mine is located 2 miles North East of Nederland on good dirt road to town of Nederland or 18 miles West of Boulder, Colo. on oil surface road. Eight miles from Rollinsville, Colo. nearest railroad.

13. Water from mine good and sufficient at all seasons
Public Service Co. of Colorado power unlimited, approximate cost $1.00 to $1.50 per hr.

15. We have our own mill at mine and ship ore all in concentrates to Nederland, Colorado

16. Mine has produced quanities of tungsten from the one hundred fifty ft. (150') level to surface-previous records of this operation not available. Adjoining property known as the Phillips Extension produced in the neighborhood of $300,000.00 in tungsten in the years between 1939--1945.

18. Most ore available on levels that are developed consist of stope fills averaging from 1/4 to 1/2 of one percent Wo3. Ore occurs in ore shoots averaging from one to fourteen inches wide. Very much crystalized Ferberite ore.

21. Proposed work three hundred and fifty ft. of drift on 200 ft. level to be completed in 100 days.

23. Labor

3 miners @ $1.50 per hr.	$3600.00
2 muckers @ 1.50 per hr.	2400.00
Hoistman @ 1.50 per hr.	1200.00
Top Trammer 1.50 per hr.	1200.00
Foreman @ 400.00 per month	1335.00
	$9735.00
e. purchase of one 25 h.p. electric pump	~~963.00~~
f. rent on leased equipment	~~350.00~~
g. rent on owned equipment	350.00
h. material and supplies	1450.00
i. cost of power	950.00
	$13,798.00

24. Mine is in operation now--new proposed exploration work to be completed in 100 days.

HOOSIER MINE

Hoosier mine--survey No. 18340 embracing a portion of Sections 6-7-8 in township One South of Range Seventy two West of Sixth Principal Meridian in Grand Island mining districts County of Boulder State of Colorado.

DISCRIPTION OF HOOSIER LOAD

Beginning at corner No. 1 identical with corner No. 1 of said Phillip load claim.

Thence, first course magnetic variation fourteeen degrees east, south sixty five degrees, fifty six minutes west one thousand five hundred feet to corner No. 2 identical with corner No. 2 of said Phillip load.

Thence, second course magnetic variation thirteen degrees, thirty minutes east, north eighty-two and fourteenth hundreths feet to a farm from which discovery shaft bears noth sixty-five degrees, fifty-six minutes east one hundred seventy seven ft. distant one hundred sixty-four and twenty-eight hundreds feet to corner No. 3. A gneiss stone 3 x 12 x 25 is marked 3-3-18340 with mound of stone from which west quarter corner of said section 7 bears south eighty minutes west, sixty-three and eighty-eight hundreths feet distance.

Thence, third course magnetic variation thirteen degrees, thirty minutes east, north sixty-five degrees, fifty-six minutes east, one thousand five hundred feet to cover 4 marked. A gneiss stone 7 x 12-24 inches marked. 4-4-18340 with mound of stone.

Thence, fourth course magnetic variation fourteen degrees east, south one hundred and sixty-four and twenty-eight hundreths feet to corner No. 1, the place of beginning.

(1 and last)

L E A S E.

THIS INDENTURE, Made and entered into this 1st day of October, 1949, between HETZER MINES, INC., a corporation, hereinafter called the Lessor, and RALPH L. JOHNSON, ROY W. JOHNSON and GEORGE A. PRIME, hereinafter called the Lessee,

WITNESSETH: That the Lessor, in consideration of the covenants and agreements of the Lessee hereinafter expressed to be kept and performed by the Lessee, and upon and subject to the conditions hereinafter provided, has leased and demised, and by these presents does lease and demise unto the Lessee, the following described mining property or premises, to-wit:

Hoosier Lode, Survey Lot No. _____.

TO HAVE AND TO HOLD The said demised premises, only however to the extent necessary for the purpose of mining the same for tungsten ore and for no other purpose, for a term of three (3) years from the date hereof.

IN CONSIDERATION Of this lease, the Lessee covenants and agrees as follows, to-wit:

1. To work the said premises in thorough mine-fashion to the end of the safe development and preservation of the same as a workable mine, at all times extracting as much ore therefrom as is possible consistent with safe and prudent mining; and in this connection it is agreed and understood that the Lessor may at its election require the Lessee to produce ore instead of doing development work.

2. To work the demised premises continuously from the date of this lease, performing at least 40 shifts of work therein underground during each calendar month during the time this lease shall remain in force and effect; any excess labor performed during any calendar month shall not apply on the work required hereunder in any preceding or following calendar month. The word "shift" is taken and accepted to mean the labor of one man for one day of at least 8 hours.

3. To make all shafts and inclines eight (8) feet long by four (4) feet wide in the clear, with bucket ways three and one-half (3-1/2) by four (4) feet in the clear, and all drifts seven (7) feet high by four (4) feet wide in the clear, provided that existing shafts, drifts and inclines shall, unless otherwise directed by the Lessor, be continued with their present dimensions. The Lessor reserves the right to change the dimensions of any workings as and whenever in the judgment of the Mining Superintendent of the Lessor the same may be necessary or expedient.

4. To do no underhand stoping, whether for the purpose of taking out ore or for any other purpose whatsoever.

5. To neither mine, extract nor remove the ground to a point nearer than four (4) feet to each side of any working shaft, and always to leave at least four (4) feet of ground, in its original condition, to support each such shaft. To leave more than four (4) feet of ground to support each such shaft if the Mining Superintendent of the Lessor shall so direct and to crib or rip-rap any shaft at the Lessee's expense, if the said Mining Superintendent shall so request the Lessee.

6. To allow the officers, agents and representatives of the Lessor at all times to enter upon and into the said premises and all parts thereof for the purpose of inspection and sampling, and to make any surveys they may desire, and to render them all the assistance in the power of the Lessee in so doing.

7. To keep and maintain the drifts, shafts, tunnels and other workings in the said premises thoroughly drained and clear of loose rock and rubbish, and in a safe and secure condition, except as prevented by extraordinary mining casualty, and to maintain at all times and leave the floors of all drifts and workings in good, even and unobstructed condition; to stow no waste underground except with the consent in writing of and under the direction of the Mining Superintendent of the Lessor.

8. To keep posted in conspicuous places on the surface of the said premises all notices which may be furnished by the Lessor for posting thereon.

9. To not assign this lease or any interest therein, nor to sublet the said premises or any part thereof; and to not assign or transfer to anyone any interest in the sums payable by the Lessor, or any other, to the Lessee for ores produced from the demised premises, without the written consent of the Lessor first had and obtained.

10. To pay monthly in advance to the Public Service Company of Colorado its charges for electric power required or to be furnished to the Lessee at the said premises, together with all proper costs of making such power available to the Lessee.

11. The Lessee hereby agrees and promises that on or before the 10th day of each calendar month after the date hereof, the Lessee will make, sign and deliver to the Lessor a written report, in duplicate, of the payroll for all operations under this agreement of lease upon the premises hereinabove described, for the preceding calendar month, on such forms as the Lessor and/or the State Compensation Insurance Fund shall direct from time to time; and the Lessee agrees and promises that each such report shall be in sufficient detail so that the actual payroll may be ascertained for all operations under this lease upon the demised premises during the preceding calendar month, including the Lessee's own time at Lessee's actual wages, but in any event at not less than the minimum rate of pay fixed from time to time by the State Compensation Insurance Fund or the Industrial Commission of Colorado for a Lessee, and including the payroll of his sublessees and employees, if any, and including the payroll on account of contractors and subcontractors and their employees, if any, so that from such report there may be ascertained the amount of premium payable by the Lessor to the State Compensation Insurance Fund or other insurance carrier for compensation insurance covering the Lessee, his employees and sublessees, if any, and all contractors and subcontractors, if any, and the employees thereof, for operations on the said premises under this lease.

The Lessee agrees hereby to pay to the Lessor the cost of such compensation insurance as may be carried by the Lessor on account of or for the Lessee and Lessee's sublessees and employees, if any, and on account of each contractor with the Lessee and subcontractor, if any, and the employees of each thereof, if any, because of any operations on the demised premises under this lease; and the Lessee agrees to pay the cost of such insurance to the Lessor in cash monthly installments payable on or before the 20th day of each calendar month during the life of this lease for the operations of the preceding calendar month; and the Lessee agrees further that the Lessor, at its option, may withhold and deduct each such monthly installment, and any unpaid monthly installments, if any, from sums otherwise payable to the Lessee upon ore settlements from operations under this lease, or from any other money due or owing or to become due in any fashion to the Lessee from the Lessor.

12. The Lessee agrees to pay to the Lessor and the Lessor reserves a royalty of fifteen (15) percent of the net proceeds from the sale of any ores produced by the Lessee. The "net proceeds" is agreed to be the net sale price of said ores less the cost of hauling the same to the Lessor's mill at Nederland, Colorado.

IT IS MUTUALLY AGREED By and between the Lessor and Lessee as follows:

(a) The Lessor agrees that as long as it has a market for ore, it will maintain what it considers a fair schedule of price for tungsten ore produced from properties owned or leased by it. The Lessor shall have the right to purchase and the Lessee agrees to sell to the Lessor all ore produced by the Lessee from the leased premises, provided said schedule of prices maintained by the Lessor is at least equal to the price which may be offered the Lessee by any other party. In the event the Lessee is able to sell said ore at a net price higher than offered by the Lessor, the Lessee shall have the right to sell said ore to the buyer offering a higher net price. In the event any of said ore is sold to any one other than the Lessor, said ore shall be shipped in the names of the Lessor and the Lessee, and the royalty reserved by the Lessor shall be paid directly to the Lessor. It is further agreed that no hauling charges in excess of hauling said ore to Lessor's mill shall be deducted in the event said ore is sold to any one other than the Lessor.

(b) It is further mutually understood and agreed that in the event the Lessee delivers to the Lessor shipments or lots of ore of a value less than $100.00 per lot, that the Lessee shall pay to the Lessor the cost of milling such ore and the cost of sampling the same.

(c) It is further mutually understood and agreed that in the event the Lessee fails to pay the royalty herein reserved, or fails to pay compensation insurance premiums, the Lessor shall have the right to terminate this lease immediately and without notice to the Lessee. In the event of the violation of any other term, provision or condition of this lease by the Lessee, the Lessor shall have the right to terminate this lease upon giving thirty (30) days written notice to the Lessee. In the event the Lessee corrects any such defaults within thirty (30) days, said lease shall not be terminated. In the event any default shall not be corrected at the end of said thirty-day period, then said lease shall be terminated as of the end of said thirty-day period. Said notice shall be given in writing, addressed to the Lessee at Nederland, Colorado.

(d) The title to any ores broken or mined on said leased premises at the termination of this lease, shall be the property of the Lessor, and it shall not be liable for the payment to the Lessee for the same before any costs or expenses of breaking or mining said ore.

IN WITNESS WHEREOF, The Lessor has caused its name to be hereunto subscribed by its President and attested by its Secretary and its seal affixed hereunto, and the Lessee has hereunto set their hands and seals the day and year first above written.

HETZER MINES, INC.,

By Elmer Hetzer
President.

ATTEST:

Dudley J. Hutchinson
Secretary.

Ralph L. Johnson
Ralph L. Johnson

Roy W. Johnson
Roy W. Johnson

George A. Prime
George A. Prime

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

224 New Customhouse
Denver 2, Colorado

October 12, 1951

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division
Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: DMA Docket 1885, Johnson Bros. & Prime, Nederland, Colorado

We have been advised by Johnson Bros. & Prime of Nederland, Colorado in a letter dated October 10 in reference to the above docket, that they no longer desire Government assistance.

Please cancel this application, sending us a copy of your action.

J. H. East, Jr.

JHE:ld

cc: DMA docket, chron.
Koschmann
Allsman
Traver

Telephoned East Oct. 8, 1951.

Johnson & Parris
Hoonimoon

Tests satisfactory.
Charged pilot on ½ daily rate of deaters.
Ranger thinks short one shoots are development.
Book value of equipment might be $1800
Should write off 3.5 ft/day as depth.
± 3 months.
1 yr to go on lease.
Substituted roof on foreign horses and each of yearlings.

MF-200
(June 1951)

Docket No. DMA 1885
Commodity Tungsten

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] _____
John van Brown & Partner

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 Colorado, County of Boulder described as follows: [3] The Brown's Mine, survey No. 18340, embracing a portion of Section 6-1-8, T. 1 S., R. 72 W., Sixth P.M., The Image as on the Granted land Planning District, pro rata maximum of Made lands as 15.0 acres out of Boulder, Colorado.

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: _____

(*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] _____; 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] _____ 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 _____ percent of the approved 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, $_____.

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

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

DEPARTMENT OF THE INTERIOR
RECEIVED
SEP 25 1951
Defense Minerals Administration,
Production Expansion Division.

SEP 25 1951

Memorandum

To: Director, Production Expansion Division

Through: Director, Supply Division

From: Tungsten Branch

Subject: DMA-1885 Tungsten - Exploration loan-Government participation
$11,250-Total cost $15,000.
Johnson Bros. and Prime, Partners
Nederland, Colorado, Boulder County

The subject application for a Government loan to finance an exploration project costing $15,000 is recommended for approval by the Tungsten Branch.

George B. Holderer
Chief, Tungsten Branch

Attachment

Approved:

Tom Lyon
Director, Supply Division

REPORT AND RECOMMENDATION OF COMMODITY BRANCH ON APPLICATION FOR GOVERNMENT ASSISTANCE

Docket No. 1885
Commodity - Tungsten

A. Name and Address of Applicant

Johnson Bros. and Prime, a partnership
Ralph L. Johnson, Louisville, Colorado
George A. Prime, Nederland, Colorado
Roy W. Johnson, Berthoud, Colorado

B. Location of Mine

The Hoosier Tungsten Mine
Two miles northeast of Nederland, Colorado
Boulder County, Colorado

C. Conclusions

1. The project is in accord with the program to develop tungsten deposits.

2. The mine has produced in excess of 10,000 units of WO_3. The prospects are good for continuation of the deposit to depth.

3. Requirements can be met.

4. Financing - $15,000 total cost of project. Government loan $11,250, applicant pays $3,750 or the equivalent. Standard exploration loan contract.

5. Applicants are thoroughly competent.

D. Recommendations

The application is recommended for an exploration project costing $15,000, Government loan $11,250 - applicant $3,750 or the equivalent.

E. Proposal

Applicant proposes to extend the bottom level (225-foot level) 270 feet east and 80 feet west and to do 150 feet of raising. The project is estimated to cost $15,000, of which the Government lends $11,250.

F. Pertinence to Tungsten Program

The project is in accord with the program to develop tungsten ore bodies and expand production.

G. Technical Feasibility

1. Reserves - The Hoosier mine is about in the center of the highly productive western portion of the Boulder tungsten district. It has produced in excess of 10,000 units of WO_3. Ore is exposed in the bottom of the 150-foot level and on the 225-foot level; although no reserves can be estimated, from past production of the mine and the opinion of the field team, the chances are excellent for finding sufficient ore to justify the project.

2. Production is 15 tons per day averaging 0.5 to 1.0 percent WO_3. Mill feed at present comes from dumps on the surface and stope fills remaining above the 150-foot level.

3. Applicant has his own mill. No data available.

4. No problem in marketing.

5. Time schedule - 100 days.

H. Availability of Requirements

1. Most equipment and facilities needed are on the grounds.

2. New equipment needed are mostly accessories, supplies and small tools.

3. Transportation is available by good road.

4. Manpower available in area.

5. Power available from Public Service Company of Colorado.

I. Financing

1. Financing is by Government loan on exploration contract.

Government loan	$11,250
Rental of equipment to project	1,253
Applicants' supervision	800
Capital on hand or from profits	1,697
	$15,000

2. Considered adequate by field team.

3. No other security than offered in exploration contract.

4. As provided in contract.

J. Competence of Applicant

Applicants are thoroughly competent.

List of File to PED

DMA-1885 Tungsten

3 Copies MF-103 with following attachments

1 penciled sketch
1 typed set of answers
1 Lease Hetzer Mines to Johnson Bros. & Prime

Note: only 1 copy of lease enclosed with above 3 applications.

1 list file sent to field	8/3/51
1 field referral sheet	
1 field referral form	
1 copy letter Lyon to Johnson	8/9/51
1 Copy field report by Harrer & Tweto	9/7/51
Attached letter from Allsman and Koschman to DMA	9/13/51
Attached memo From Allsman to Field Team	9/11/51
Attached memo from Traver to Mng. Div.	9/10/51
Attached memo from Koschman to DMA	9/6/51

9/20/51

240 FILE COPY

Holderer

SEP 25 1951

Memorandum

To: Director, Production Expansion Division

Through: Director, Supply Division

From: Tungsten Branch

Subject: DMA-1215 Tungsten - Exploration loan-Government participation $11,250-Total cost $15,000.
Johnson Bros. and Prime Partners
Ederland, Colorado, Boulder County

The subject application for a Government loan to finance an exploration project costing $15,000 is recommended for approval by the Tungsten Branch.

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

Attachment

Approved:

not stripped in DMR.

Tom Lyon
Director, Supply Division

TJBallard:ec
9/20/51

CC: Adm. Reading File
DMA Docket File
Mr. Holderer
Field Team Region IV

a.f.l.

REPORT AND RECOMMENDATION OF
COMMODITY BRANCH ON APPLICATION
FOR GOVERNMENT ASSISTANCE

Docket No. 1885
Commodity - Tungsten

A. Name and Address of Applicant

Johnson Bros. and Prime, a partnership
Ralph L. Johnson, Louisville, Colorado
George A. Prime, Nederland, Colorado
Roy W. Johnson, Berthoud, Colorado

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Two miles northeast of Nederland, Colorado
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D. Recommendations

The application is recommended for an exploration project costing $15,000, Government loan $11,250 - applicant $3,750 or the equivalent.

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	$15,000

2. Considered adequate by field team.

3. No other security than offered in exploration contract.

4. As provided in contract.

J. <u>Competence of Applicant</u>

Applicants' are thoroughly competent.

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

224 New Customhouse
Denver 2, Colorado

Air Mail

September 13, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 1885, Johnson Brothers and Prime, applicants, The Hoosier Tungsten Mine, Boulder County, Colorado

Enclosed herewith are the original and two copies of the report on the subject docket.

We concur with the conclusions and recommendations of the examining team that the exploration loan of $15,000 be approved.

The Brochure is enclosed.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 17 1951

Paul T. Allsman, Alternate

A. H. Koschmann

Enclosures

Mining Division
Region IV

September 11, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1885, Johnson Brothers and Prine, applicants, The Hoosier Tungsten Mine, Boulder County, Colo.

The application of the subject docket is for the exploration of the Hoosier Mine on and above the 225 foot level by means of 350 feet of drifting and 150 feet of raising at an estimated cost of $15,000.

Tungsten ore of good grade and quality has been mined from the surface to the 150 foot level with production of at least 10,000 units of tungsten trioxide.

Exploration of the 225 foot level is now being done with production of 15 tons of crude ore per day of one shift, averaging 0.50 to 1.00 percent tungstic trioxide.

The examining team highly recommends approval of the application, with which we concur.

The report contains the necessary information for an Exploration Project Contract, which will be prepared by this office.

Paul T. Allsman

Paul T. Allsman

Date Rec'd
SEP 10 1951
BUREAU OF MINES
Denver, Colorado

Building 20
Denver Federal Center
September 10, 1951

Memorandum

To: Chief, Mining Division, Region IV

From: W. M. Traver, Jr.

Subject: Docket DMA-1585, Johnson Brothers and Prime, The Hoosier Mine, Nederland, Colorado.

Please find enclosed the original and seven copies of the "Summary, Conclusions, and Recommendations", by Harrer and Tuete, and the same number of copies of Harrer's engineering report on the subject Defense Minerals Administration docket.

Harrer concludes that, in view of the tungsten mineralization exposed in the various mine workings, the past production history, favorable geologic environment, and reliability of the applicants, the exploration application for a $15,000.00 participating loan should be approved. I am in accord with the conclusions.

Sufficient data is available in the report to make up Exhibit A for a contract without any difficulty.

The application, copy of lease, and "Review of Application for Exploration Assistance", submitted by the Field Team, Region IV, through you August 15, 1951, are also enclosed.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Administration
200 New Customhouse
Denver 2, Colorado

September 6, 1951

Memorandum

To : DMA Field Team, Region IV

From : A. H. Koschmann

Subject: DMA Docket 1885 - Hoosier Tungsten Mine, Boulder Co., Colo., Johnson Bros. and Prime, applicants.

Attached are 8 copies of a geologic report by Ogden Tweto covering the Hoosier Tungsten mine, Boulder County, Colorado.

The Hoosier mine is about in the center of the highly productive western portion of the tungsten district. Some tungsten ore is present in the floor on the 150-foot level of the mine and the applicants wish to run a drift beneath it on the 225-foot level. Mr. Tweto reports that this is an excellent prospect for ore and recommends that an exploration loan of $15,000 be granted for this work.

I concur with Mr. Tweto's recommendation.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Attachments

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-1885, Johnson Brothers and Prime, The Hoosier Mine

Nederland, Boulder County, Colo.

C. M. Harrer, Mining Engineer
U. S. Bureau of Mines

Ogden Tweto, Geologist
U. S. Geological Survey

September 7, 1951

JOHNSON BROTHERS AND PRIME
THE HOOSIER MINE
NEDERLAND, BOULDER COUNTY, COLO.

Summary, Conclusions, and Recommendations

By C. M. Harrer
Mining Engineer
U. S. Bureau of Mines

and

Ogden Tweto
Geologist
U. S. Geological Survey

JOHNSON BROTHERS AND PRIME
THE HOOSIER MINE
NEDERLAND, BOULDER COUNTY, COLO.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By C. M. Harrer and Ogden Tweto

The Hoosier mine is a small but relatively productive tungsten mine about a mile northeast of Nederland, in the western part of the Boulder tungsten district, Colo. It has produced at least 10,000 units of WO_3. Tungsten ore of good grade and quality was mined from the surface down to the 150-foot level, and good ore has been exposed in drifting now in progress on the short bottom, or 225-foot level.

The applicants request a loan of $15,000.00 to drive 270 feet eastward on the bottom level, beneath stopes on the 150-foot level, and to drive westward to the property line, a distance of 80 feet, (100 feet when the application was made). Provision is also made for 150 feet of raising, at sites to be selected after part or all of the drifting is done. This is an excellent prospect and sound basis for a loan.

The total cost of the proposed work is estimated as $15,000.00.

It is recommended that an exploration loan of $15,000.00 be granted to do this work (Government participation 75 percent, or $11,250.00).

Geology

HOOSIER TUNGSTEN MINE

BOULDER COUNTY, COLORADO

JOHNSON BROS. AND PRIME, APPLICANTS

DMA DOCKET 1885

Geology

By Ogden Tweto, Geologist
U. S. Geological Survey

HOOSIER TUNGSTEN MINE
BOULDER COUNTY, COLORADO
JOHNSON BROS. AND PRIME, APPLICANTS

The Hoosier mine is about a mile northeast of Nederland, on the west slope of Hurricane Hill, about in the center of the highly productive western portion of the Boulder tungsten district, Colorado. It is operated by Johnson Bros. and Prime, capable and reliable miners, who lease from Hetzer Mines, Inc., the owners. The mine is near the western end of the Hoosier claim (fig. 2), and is bounded on the west by the "Crow Patent," on which lies the adjoining Phillip Extension mine. The Phillip vein has been worked in both the Hoosier and the Phillip Extension mines, but the Hoosier vein has been worked only in the Hoosier mine.

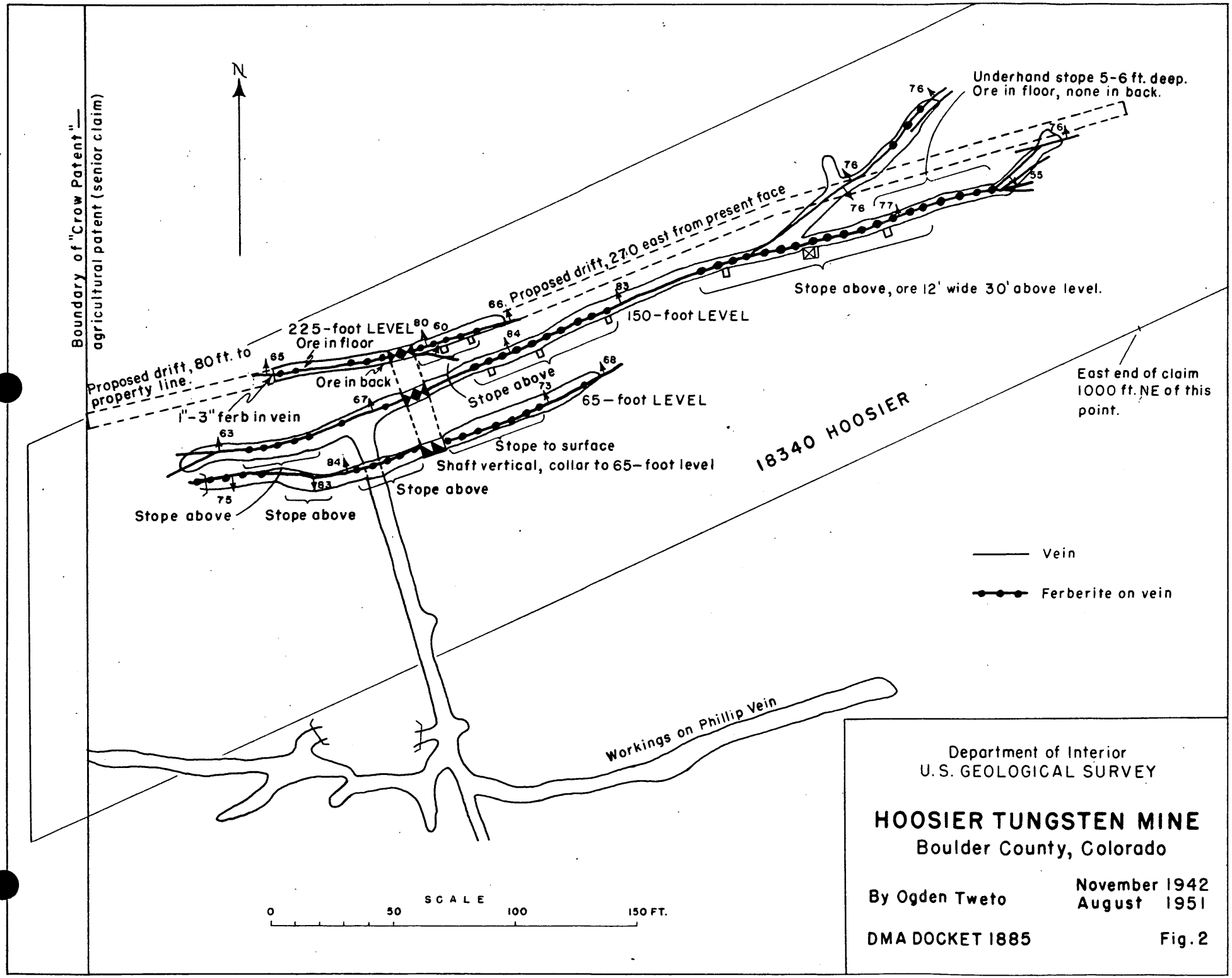
The Hoosier vein was one of the early discoveries in the Boulder district. It was worked at some time between 1901 and 1907, but no record of the output for this period is available. The mine was worked at times between 1907 and 1917, down to the 150-foot level, and it produced 442 tons of ore averaging 11.57% WO_3, or a total of 5114 units WO_3, at this time. Possibly 25% of this output came from the Phillip vein. The mine was under water from 1917 to 1943; it was reopened in 1943, and the shoot was sunk from the 150 to the 225-foot level, in ore most of the way. The mine was operated intermittently from 1943 to 1946, and was under water from 1946 to 1950, when the present lessees started operation. The output from 1943 to the present was at least 5000, and possibly as much as 7000, units WO_3.

The workings on the Hoosier vein are in aplite and pegmatite. The vein strikes about N. 75° E. and dips 60°-85° N. It is 6 to 15 inches wide in most exposures and consists of sheeted or brecciated silicified country rock and veinlets of horn quartz; at places it is a tight, crushed zone only 3 or 4 inches wide. Ferberite is, or was, present through much of the drift length on each level, as shown in figure 2. In the upper and western part of the mine the ore was relatively wide (6-18 inches), and was rather horny, but the ore on the 225-foot level and in the eastern stope above the 150 is in generally thinner seams of crystalline ferberite, free of horn quartz.

One main ore shoot, which widens and branches downward, has been found thus far on the Hoosier vein, and, in addition, several small bodies of ore have been stoped. The main ore shoot lies on either side of the shaft at the surface and on the first level, where it has a stope length of 105 feet. It pitches eastward across the shaft between the 65- and 150-foot levels, and evidently splits and widens. On the 150-foot level, there are two stopes east of the shaft, 60 and 100 feet long, separated by a barren pillar 35 feet long. Ore is present in the floor beneath both stopes and was worked in a shallow underhand stope for 25 feet east of the eastern stope, where no ore is present in the back of the drift. On the bottom level, good ore was exposed in the face of the drift west of the shaft when the mine was visited August 28, 1951, and ore was exposed in the floor and back of the drift at places between the breast and the shaft. A small stope east of the shaft was put up by previous operators, and workable ore is exposed at the back and in one end of it.

The applicants have requested a loan of $15,000 to drive the 225-foot level about 80 feet westward to the property line and about 270 feet eastward to a point a little beyond the easternmost exposure of ore on the 150-foot level. This is an excellent prospect for ore, and sound basis for a loan. Ore was stoped extensively above the 150-foot level and is present in the floor of the level. The next logical move is to drive beneath this ore on the 225-foot level and explore the block between levels by raising. The possibility of finding ore by such work seems almost certain.

According to the estimates of the Bureau of Mines (see Mr. Harrer's report) the proposed 350 feet of drift and 150 feet of raises (at sites to be chosen after drifting is completed) would cost about $15,000. Accordingly, it is recommended that an Exploration Loan of $15,000 be granted for this work (Government participation 75% or $11,250).


N
Boundary of "Crow Patent" — agricultural patent (senior claim)
Underhand stope 5-6 ft. deep. Ore in floor, none in back.
Proposed drift, 270 east from present face
Stope above, ore 12' wide 30' above level.
150-foot LEVEL
225-foot LEVEL
Ore in floor
Ore in back
Proposed drift, 80 ft. to property line.
1"-3" ferb in vein
Stope above
65-foot LEVEL
Stope to surface
Shaft vertical, collar to 65-foot level
Stope above
Stope above
Stope above
East end of claim 1000 ft. NE of this point.
18340 HOOSIER
Vein
Ferberite on vein
Workings on Phillip Vein
SCALE
0
50
100
150 FT.
Department of Interior
U.S. GEOLOGICAL SURVEY
HOOSIER TUNGSTEN MINE
Boulder County, Colorado
By Ogden Tweto
November 1942
August 1951
DMA DOCKET 1885
Fig. 2

JOHNSON BROTHERS AND PRIME
THE HOOSIER MINE
NEDERLAND, BOULDER COUNTY, COLO.

Engineering Report

By C. M. Harrer
Mining Engineer
U. S. Bureau of Mines

Engineering

JOHNSON BROTHERS AND PRIME
THE HOOSIER MINE
NEDERLAND, BOULDER COUNTY, COLO.

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Description of the deposits	3
Ore reserves	3
Present status	4
Project proposals and costs	5
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Conclusions	9
Recommendations	9

ILLUSTRATIONS

Figure	Follows Page
1. Index map, Hoosier mine, Boulder County, Colo.	1
2. Hoosier tungsten mine, Boulder County, Colo.	*

* See figures following "Geology Report".

JOHNSON BROTHERS AND PRIME
THE HOOSIER MINE
NEDERLAND, BOULDER COUNTY, COLO.

ENGINEERING REPORT

By

C. M. Harrer

INTRODUCTION

The Hoosier mine is operated under a lease agreement between Hetzer Mines, Inc., of Nederland, Colo., lessor, and Messrs. R. L. and R. W. Johnson and G. A. Prime, a partnership, lessees.

The lessees have applied for a $15,000.00 exploration loan to augment their tungsten reserves under the Defense Production Act of 1950.

Field examination of the property was completed on August 28, 1951, by engineers of the Colorado Branch, Bureau of Mines, Region IV, and a member of the U. S. Geological Survey in the company of lessee G. A. Prime, mine operator, and lessee R. W. Johnson, mill operator.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Hoosier mine is within the boundaries of the Hoosier lode claim, survey no. 18340, in secs. 6, 7, and 8, T. 1 S., R. 72 W., Boulder County tungsten mining district, Boulder County, Colo. (fig. 1), at an altitude of about 8,412 feet. The mine is 2.2 miles northeast of Nederland by a well maintained county road readily accessible throughout the year.

The climate is generally mild and mining can be carried on throughout the year. Ample water is available for customary milling operations. Timber in the area is small but suited for general mining operations.

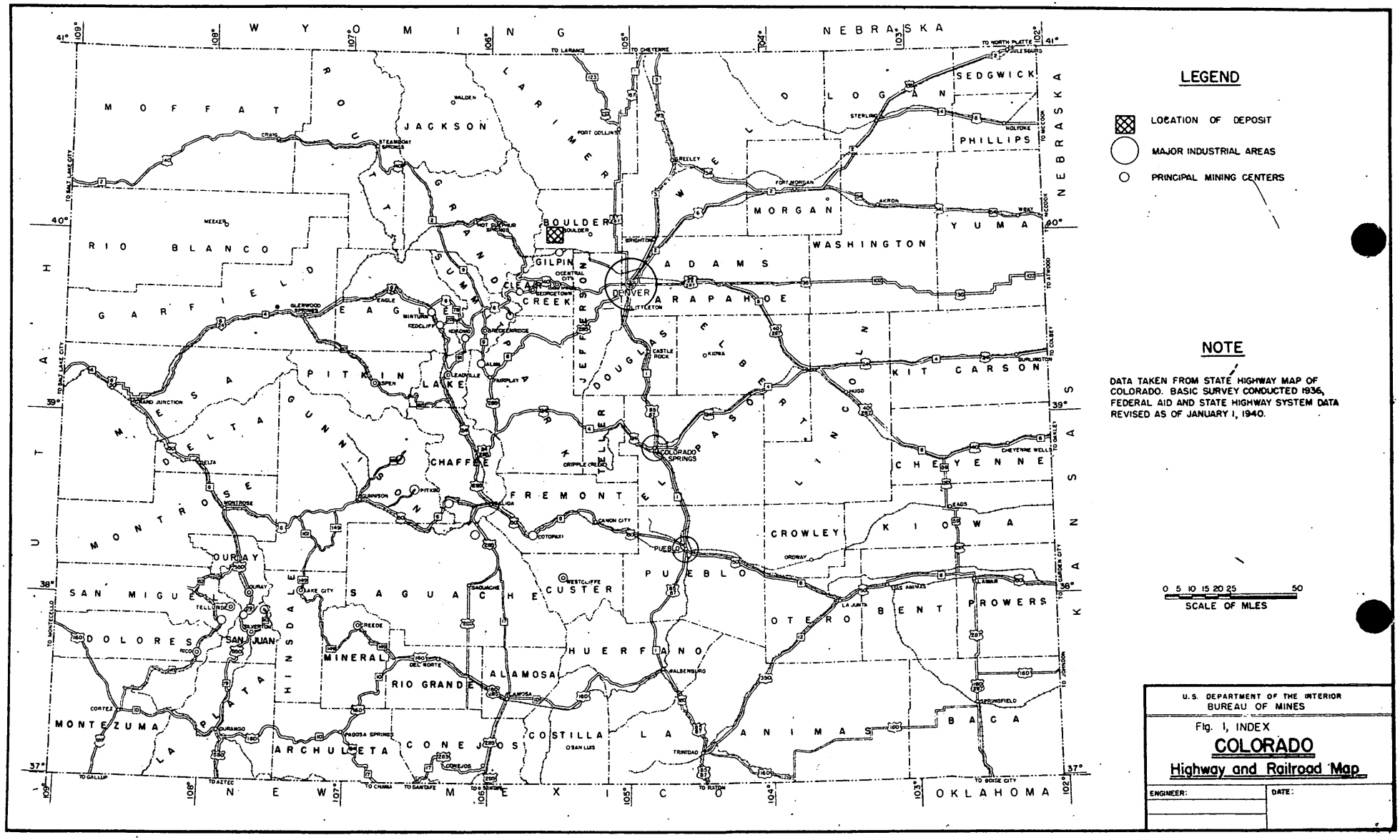

Fig. 1 - INDEX MAP, HOOSIER MINE, BOULDER CO. COLORADO. DMA-1885

Concentrates and supplies are trucked through Nederland. Railroad shipping points are Rollinsville on the Denver and Rio Grande Western Railroad, 5 miles from Nederland, and Boulder, on the Colorado and Southern and Union Pacific Railroads.

Electric power furnished by Public Service Company of Colorado, is now being used at the mine and mill.

HISTORY AND PRODUCTION

Tungsten as ferberite was discovered near Nederland, Colo., in 1899. Total production from the Boulder tungsten district through 1948 is reported as 24,480 tons of 60 percent WO_3 concentrates, valued at $23,700,000.00.

The Hoosier mine production for the period 1907-42 is estimated at 442 tons averaging 11.57 percent WO_3, which concentrated to a total of 5,114 units of 60 percent WO_3.

Present production is 15 tons of crude ore per day (8 hours), averaging between 1/2 to 1 percent WO_3. The mill produces 150 pounds of concentrates per day operating two 8-hour shifts. The concentrates average 55 percent WO_3.

OWNERSHIP AND EXTENT

The Hoosier lode claim, survey no. 18340, covering 5.65 acres in secs. 6, 7, and 8, T. 1 S., R. 72 W., Boulder County, Colo., is owned by Hetzer Mines, Inc., of Nederland, Colo.

Messrs. R. L. Johnson, of Louisville, Colo., R. W. Johnson, of Berthoud, Colo., and G. A. Prime, of Nederland, Colo., operate the mine on the above property under a 3-year lease agreement with Hetzer Mines, Inc., dated October 1, 1949, which will probably be renewable although this is not mentioned in the agreement.

A royalty of 15 percent of the net proceeds from the sale of any ores is stipulated. "Net proceeds" is interpreted as the net sale price of ores less transportation charges to the lessor's mill at Nederland. Lessees can sell all ores to the lessor, or to any other market, at the best price offered.

DESCRIPTION OF THE DEPOSITS

Tungsten occurs as massive to coarsely crystalline ferberite with a gangue of gray horn quartz (fig. 2). Veinlets, streaks, and lenses of ore are found along a prominent fissure and also in sets of more or less parallel fractures particularly noticed in the hanging wall of an old stope on the 150-foot level where the main fissure vein, formerly stoped to a width of 2 feet, is now being mined to a width of over 12 feet. Wall rocks are aplite and pegmatite.

Ferberite occurs as small, irregular bodies of high-grade ore raking to the east. Collectively, 50 ore shoots in the Boulder district have shown an average tonnage of about 350 tons assaying 8 percent WO_3. Veins vary in width from a fraction of an inch to 3 feet, and widths of over 15 feet may be mined where ferberite incrusts a network of fractures and prices are favorable. Old stopes on the 150-foot level of the Hoosier mine have firm, aplite walls and stand well with stull support. Coarse, barren wall rock broken is back-filled in the stopes.

ORE RESERVES

There is insufficient data available upon which to base ore reserve estimates for the Hoosier mine. As is customary in small mines in the Boulder tungsten field, ore is seldom developed in advance of mining operations. On the basis of previous production in mining from the surface to the 150-foot level, and the good ore that has been exposed

in the shaft and in drifting recently started on the lower, or 225-foot, level, the assumption appears justified that sufficient ore reserves will be developed to warrant the loan recommended in this report.

PRESENT STATUS

Messrs. Ralph L. Johnson, Roy W. Johnson, and George A. Prime, lessees from Hetzer Mines, Inc., are presently engaged in mining and milling ferberite tungsten ore from the Hoosier mine. Mill feed at present comes from dumps on the surface and stope fills remaining above the 150-foot level. Additional ferberite veinlets opened in the hanging walls of old stopes are being mined, and development rock from the west heading on the 225-foot level contains sufficient ferberite to sort and mill.

Underground development (fig. 2) is accessible through a 4 x 8 foot shaft with a 3 1/2 x 4 foot bucketway. The shaft is about 230 feet deep and both the 150-foot and 225-foot levels were examined.

The 150-foot level is developed by about 460 feet of drift and ore was mined from stopes on three different ore shoots.

The 225-foot, or bottom, level is being developed by two headings for a combined length of 95 feet, and is the site of the proposed exploration program.

The surface plant consists of a headframe with bucket dump, and buildings which house the shop, electrified mine hoist, air compressor, and Timken bit grinder with their electric controls. A rock house equipped with a 2-inch trommel screen is located nearby and is used for sorting out barren rock.

Well facilities for the gravity concentration of the ferberite are located on the adjoining Phillips Extension claim. They are owned jointly by G. A. Prime and Mrs. Halifield, of Nederland. Johnson brothers have a lease with option-to-purchase agreement with Mrs. Halifield for her half interest in the mill.

G. A. Prime is in charge of mine operations and is a thoroughly experienced leaser and ferberite miner. P. W. Johnson is in charge of milling and is a competent mill operator.

The Hoosier mine is now producing 15 tons of crude ore per day (8 hours), averaging 1/2 to 1 percent WO_3, and making 150 pounds of 55 percent WO_3 concentrate per day operating two 8-hour shifts.

At present 4 miners, 1 hoistman, and 3 mill operators are employed at a rate of $1.50 per hour.

PROJECT PROPOSALS AND COSTS

The lessees of the Hoosier mine propose to explore the Hoosier vein and various ferberite ore shoots known to extend below the 150-foot level and more or less traceable down the shaft and along the 225-foot level by about 80 feet of drifting westerly to the end line of the Hoosier claim and 270 feet easterly (fig. 2). In addition, 150-feet of exploratory raise will be driven from the 225-foot level to prospect favorable mineralized zones. This plan was worked out in a conference between the examining engineer and Messrs. G. A. Prime and R. W. Johnson.

Lessees do not pay rental on the surface plant and fixed equipment on the property and no rent payments involving Hetzer Mines, Inc., or their equipment is proposed.

Lessees expect to make their own mining equipment available at one-half the going rates, at a total rental of $12.53 per day arrived at from data made available by Associated Equipment Distributors of Denver, Colo.

Lessees propose to conduct exploration on a night shift basis and separate from their production activities which will be limited to the day shift.

Project Cost Data

Crew for exploration:

Distribution	Rate	Cost per day on a 6 day week basis ($13.00/day)
2 - miners at	$ 1.50/hour	$26.00
2 - muckers at	1.50/hour	26.00
1 - hoistman at	1.50/hour	13.00
1 - top trammer at	1.50/hour	13.00
1 - foreman at	400.00/month (1/2 time)	8.00
Social Security and Compensation Insurance		5.00
Total supervision and labor cost per day		$91.00
Total labor cost of project, for 100 days		$9,100.00

Supplies to be used in driving 350 feet of drift: including sales tax

90 boxes dynamite at $11.25/box	$1,032.75	- 1,012.50
5 rolls fuse at $45.00/3,000 foot roll	229.50	- 225.00
2,800 blasting caps at $2.50/hundred	71.40	- 70.00
700 feet 8-pound mine rail at $140.00/ton	399.84	- 140.00
Ties, spikes, bolts, and fish plates	75.00	
350 feet airline at $.30/foot	107.10	- 105.00
350 feet waterline at $.16/foot	57.12	- 56.00
Machine oil and repairs at $25.00/month	83.33	
Small tools at $60.00	61.20	
Total	$2,117.24	

Supplies to be used in driving 150 feet of raise: including sales tax

75 boxes dynamite at $11.25/box	$ 860.63
2 1/3 rolls fuse at $45.00/3,000 foot roll	107.10
1,200 blasting caps at $2.50/hundred	30.60
76 - 5-foot stulls at $.10/foot	38.76
150 - 4-inch sheeting stulls, 16 feet long at $.50 each	76.50
150 feet of ladders at $.25/foot	38.25
100 pounds 60d nails at $16.00/hundred pounds	16.32
125 feet of 1-inch air line at $.30/foot	38.25
125 feet of 1/2-inch air line at $.16/foot	20.40
Wedges, etc.	30.00
Total	$1,256.81

General supplies: including sales tax

500 Timken bits, ground 3 times, at $.60 each	$306.00
Steel breakage and replacement for project	183.60
3 sets of drill steel	122.40
Total	$612.00

Equipment owned by lessees which will be available on a rental basis:

1 - Gardner-Denver S-55 drifter, complete with drilling column and hoses
1 - Thor model 75 jackhammer mounted on a shell, complete with drilling column and hoses.
1 - Sullivan 91 stoper complete with hoses
1 - 20 horsepower electric Fairbanks Morse, 2-inch, 2 stage centrifugal sump pump
2 - Bucket dolly trucks

Total rental per day, based on going rates of Associated Equipment Distributors of Denver, Colo., will be estimated at one-half of going rates, or $12.53 per day.

Total rental for project for 100 days $1,253,00

General costs:

Estimated power per day	$4.00
Maintenance per day	1.90
Total per day	$5.90
Total for project for 100 days	$590.00

Total project cost:

Work location	Days Estimated Time
Drift west on the 225-foot level	40
Drift east on the 225-foot level	100
Raises above the 225-foot level	50
Placing chutes and deadwork	10
Total length of project when crew for drifting west also drive raises	100 days

Recapitulation: (100 days operation)

Total supervision and labor	$9,100.00
Total drift supplies	2,117.24
Total raise supplies	1,256.81
Total general supplies	612.00
Total equipment rentals	1,253.00
Total general costs	590.00
Contingencies	70.95
Total cost of project	$15,000.00

The total cost of $15,000.00 is considered adequate for completion of the project.

PROPOSED FINANCING

R. L. and R. W. Johnson and G. A. Prime, as lessees of the Hoosier mine, are presently engaged in mining and milling ferberite ore at a profit. They expect to contribute their equipment on a rental basis, and services as detailed under project costs, at a total contribution of $2,053.00. The additional amount of $1,697.00 required as their share in 25 percent participation will be made up from profits of present operations and capital on hand. They are financially reliable and solvent.

CONCLUSIONS

Ferberite exposures in underhand stoping and the stopes above the 150-foot level indicate extensions of ore shoots in depth. Ore incrusting fracture systems in the hanging walls of old stopes on the 150-foot level promise ore extensions beyond the walls of the main fissure.

Ferberite is traceable down the shaft and along the drifts on the 225-foot level which is the site of proposed exploration.

Ferberite occurs as narrow and discontinuous streaks and lenses in veins or along filled fissures which cannot be predicted by sampling and can be explored best by a drift with raises on promising exposures.

The past history of the mine and the favorable geologic environment exposed make this an attractive exploration program.

Lessees are competent and reliable ferberite operators familiar with the district.

Their lease will be active for 13 months which will be adequate for completion of the exploration project, estimated to require 100 days.

RECOMMENDATIONS

It is recommended that the application for a tungsten exploration loan of $15,000.00 under the Defense Production Act of 1950, Defense Minerals Administration docket 1885, be approved. The Government's participation will be 75 percent or $11,250.00 and the applicants' 25 percent or $3,750.00.

FILE COPY
SURNAME:

Holden
Ballard
Lemmon
Rockey

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

In reply please refer to
DM-1335 Duncaten

AUG 9 1951

a.E.C.

Mr. Ralph Johnson

Louisville, Colorado

Dear Mr. Johnson:

Your application for an exploration loan has been referred to Mr. Jack H. East, Jr., Executive Officer, DMA Field Team, Region IV, 224 New Customhouse Building, Denver 2, Colorado for a field appraisal.

Please contact Mr. East and offer your assistance in showing the property to his engineer.

Very truly yours,

SIGNED

Tom Lyon
Director, Supply Division

TJBallard/jam

CC: Adm. Reading File
Rec'ds. and Rep'ts. Unit
Mr. Holderer (2)
Files

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

AUG 9 1951

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

Dear Sir:

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

Docket No. 1885

Commodity Tungsten

Applicant Johnson Bros. & Prime, Nederland, Boulder County, California

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

In reply please refer to
DMA-1885 Tungsten

Mr. Ralph Johnson

AUG 9 1954

Louisville, Colorado

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Rec'ds. and Rep'ts. Unit
Mr. Holderer (2)
Files

File to Field 8/3/51

DMA-1885 Tungsten

Johnson Bros. & Prime

1- MF 103

1- pencil sketch, 1- typed answers to questions

1- Survey notes, 1- copy lease

Return to JR 9/10/51

with final report

Done

Albson

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

AUG 9 1951

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

REGIONAL DIRECTOR'S
OFFICE
REGION IV
AUG 15 1951
BUREAU OF MINES
DENVER, COLORADO

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on:

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Applicant Johnson Bros. & Prime, Nederland, Boulder County, ~~California~~ Colo.

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Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

~~6/5/51~~ 8/3/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Field Referral

Docket No. 1885

Commodity Tungsten

Total Amount $15,000

Govt. Participation $11,250

1. Name and Address of Applicant Johnson Bros. & Prime
Nederland, Boulder County, Colorado

2. Location of Property Hoosier mine, 2 miles NE of Nederland, Colo.

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

If not, application will be rejected.

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

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

a) Good

b) Poor

c) None

d) Don't know—needs field examination Requires examination to determine if work proposed is warranted.

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

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

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

Does the lease have sufficient time to run to cover a future productive period? Lease expires Oct. 1, 1952.

*question numbers are those of MF-103

7. Are subordination agreements necessary? Yes

   a) MF-201? No

   b) MF-202 Yes

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

   a) Available manpower Yes

   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? No

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

   Not known.

   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? _____ If so, attach a draft.

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

      Sketch section. Requires map.

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

      If not, what part of it is? _____

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?_____ If so, attach a draft.

e) Are the cost estimates reasonable? Excessive for work planned

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? No

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

c) Is a field check needed?_____

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

a) Is it applicable? Yes

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

c) Are rents and charges reasonable? No data

d) Is a field check needed?_____

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? Probably; may include labor that should be charged to other activities of mine.

d) Are the proposed wages and salaries reasonable? Yes

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? If the field team believes the project has merit and will discover a quantity of ore that is reasonable in proportion to the cost of exploration, please assist the applicant to complete the necessary exhibits.

Reviewed by: Dwight M. Lemmon
Dwight M. Lemmon
Geo B Holden

Date ~~August 1, 1951~~

Approved
Jim Fyon

97692

In reply please refer to
DMA-1885 Tungsten

AUG 9 1951

Mr. Ralph Johnson

Louisville, Colorado

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Very truly yours,

SIGNED

Tom Lyon
Director, Supply Division

TJBallard/jam

CC: Adm. Reading File
Rec'ds. and Rep'ts. Unit
Mr. Helderer (2)
Files

FILE COPY
SURNAME:

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

July 27, 1951

Johnson Bros & Preine a, R. C

Mr. Ralph Johnson
Louisville
Colorado

Subject: DMA-1885
Re: Exploration Loan -
Hoosier

My dear Mr. Johnson:

Receipt is acknowledged of your application and attachments of July 9, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1885 and referred to Mr. George Holderer, Chief, Tungsten Branch on July 27, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1885.

Sincerely yours,

LANDON F. STROBEL
ymt 7/27

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
File
Holderer
Lyon

July 27, 1951

Mr. Ralph Johnson
Louisville
Colorado

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Hoosier

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Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
File
Holderer
Lyon

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1885

Date received 7-24-51

Participation

Johnson Bros. & Prime
Nederland, Colorado

Ralph Johnson
Louisville, Colorado

Name and address of applicant

Date July 9, 1951

FILL IN THIS BLOCK

Date of application July 9, 1951

Estimated cost $15000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine 2 miles North East of Nederland, Colorado

Date of filing MF-100 May 21

DMA Docket Number, if available 0081

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? Partnership

*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. inapplicable

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. 19 yrs. mining experience

*5. Are you the owner or the lessee of the property? lessee

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. inapplicable

7. If lessee, attach a copy of the lease and state if it is in good standing. lease in good standing

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

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

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? sufficient money to pay our part of project

*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. Hoosier mine

*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. all building and equipment necessary on ground good.

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	15 tons per day	1/2%	$16.00	$20.00
(2) Milling	15 tons per day			
(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? tungsten

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. none

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings. none

(*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. one pump $963.00

(*f*) Cost of rental for equipment which the operator proposes to rent. $100 per mo. or $300.00

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work. $300.00

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each. $1450.00

(*i*) Cost of power, water, utilities, and any other items not provided for above. power--$950

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.

Johnson Brost Prime
(Name of company)

By Ralph L. Johnson
(Signature of authorized official)

July 9 1951
(Date)

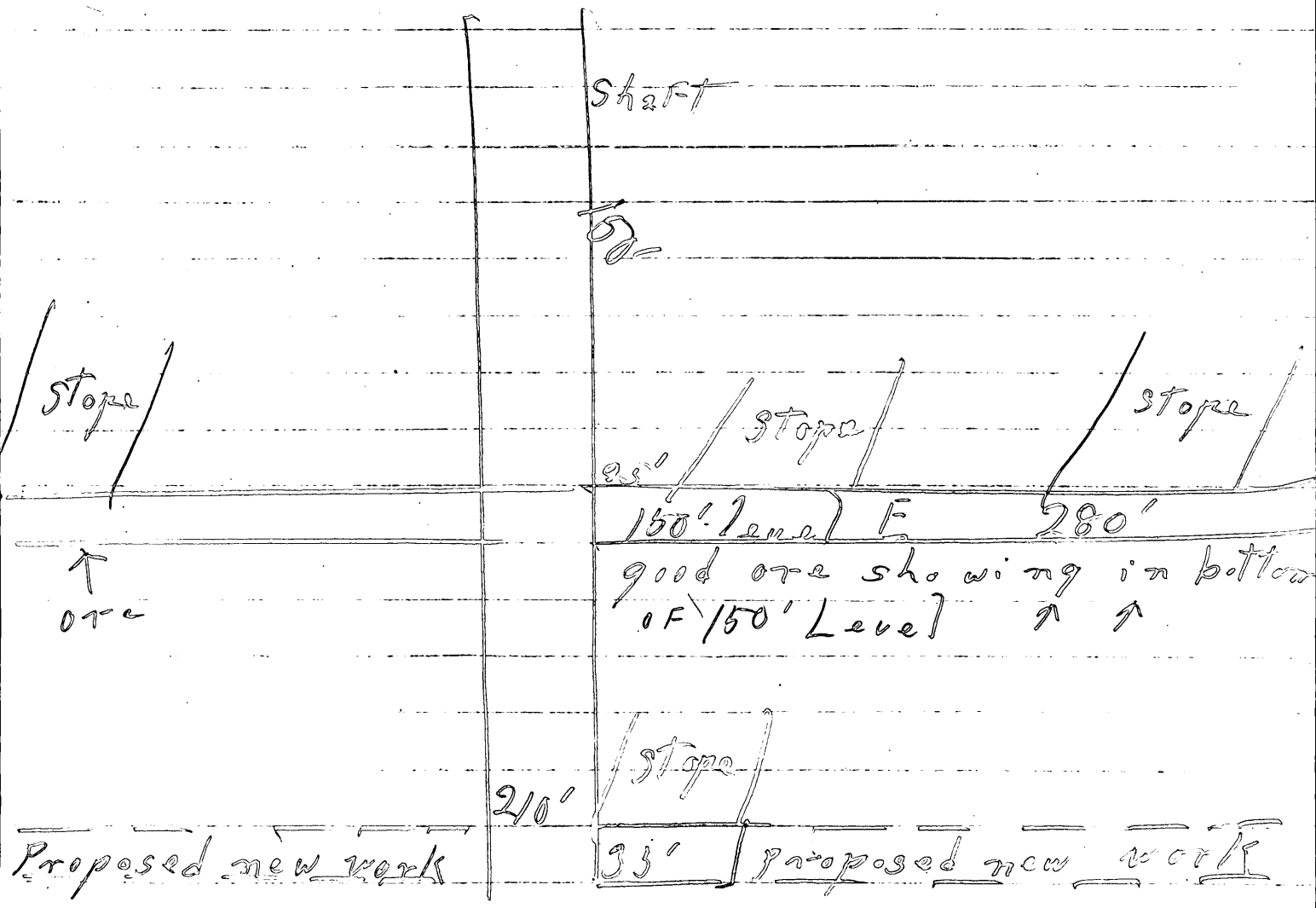
Partner
(Title)

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

*Same as footnote on page 1.

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

22 Hoosier Mine Shaft & Drifts



Ore Expected to occur on 210' Level in continuation of all ore shoots developed on 150' level

HOOSIER MINE

Hoosier mine--survey No. 18340 embracing a portion of Sections 6-7-8 in township One South of Range Seventy two West of Sixth Principal Meridian in Grand Island mining districts County of Boulder State of Colorado.

DISCRIPTION OF HOOSIER LOAD

Beginning at corner No. 1 identical with corner No. 1 of said Phillip load claim.

Thence, first course magnetic veriation fourteen degrees east, south sixty five degrees, fifty six minutes west one thousand five hundred feet to corner No. 2 identiacal with corner No. 2 of said Phillip load.

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George A. Prime — Nederland, Colorado
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8. Cash on hand $1236.95
Equipment owned $10000.00
Equipment leased $4500.00
Lien on equipment owned $4577.00

10. (a.) Hoosier mine
Shaft is 200 ft. deep
750 ft. of drifts 150 ft. of cross cut
completely equiped in mine and on top

12. Mine is located 2 miles North East of Nederland on good dirt road to town of Nederland or 18 miles West of Boulder, Colo. on oil surface road. Eight miles from Rollinsville, Colo. nearest railroad

13. Water from mine good and sufficient at all seasons
Public Service Co. of Colorado power unlimited, approximate cost $1.00 to $1.50 per hr.

15. We have our own mill at mine and ship ore all in concentrates to Nederland, Colorado

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23. Labor

3 miners @ $1.50 per hr.	$3600.00
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g rent on owned equipment	350.00
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i cost of power	950.00
	$13,798.00

24. Mine is in opperation now--new proposed exploration work to be completed in 100 days.

July 27, 1951

Mr. Ralph Johnson
Louisville
Colorado

Subject: DMA-1885
Re: Exploration Loan -
Hoosier

My dear Mr. Johnson:

Receipt is acknowledged of your application and attachments of July 9, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1885 and referred to Mr. George Holderer, Chief, Tungsten Branch on July 27, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1885.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
File
✓Holderer
Lyon

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dpma 1885

Date received 9-24-51

Participation

Johnson Bros. & Prime
Nederland, Colorado

Ralph L. Johnson
Louisville, Colorado
Name and address of applicant

Date July 9, 1951

FILL IN THIS BLOCK

Date of application July 9, 1951

Estimated cost $15000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine 2 miles North East of Nederland, Colorado

Date of filing MF-100 May 21

DMA Docket Number, if available 0081

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? Partnership

*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. inapplicable

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. 19 yrs. mining experience

*5. Are you the owner or the lessee of the property? lessee

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. inapplicable

7. If lessee, attach a copy of the lease and state if it is in good standing. lease in good standing

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

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

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? sufficient money to pay our part of project

*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. Hoosier mine
*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. all building and equipment necessary on ground good.
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	15 tons per day	1/2%	$16.00	$20.00
(2) Milling				
(3) Shipped or sold	15 tons per day			

*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? tungsten
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. none
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    (*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. one pump $963.00
    (*f*) Cost of rental for equipment which the operator proposes to rent. $100 per mo. or $300.00
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work. $300.00
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each. $1450.00
    (*i*) Cost of power, water, utilities, and any other items not provided for above. power--$950
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.

Johnson Brost Prime (Name of company) By Ralph L. Johnson (Signature of authorized official)

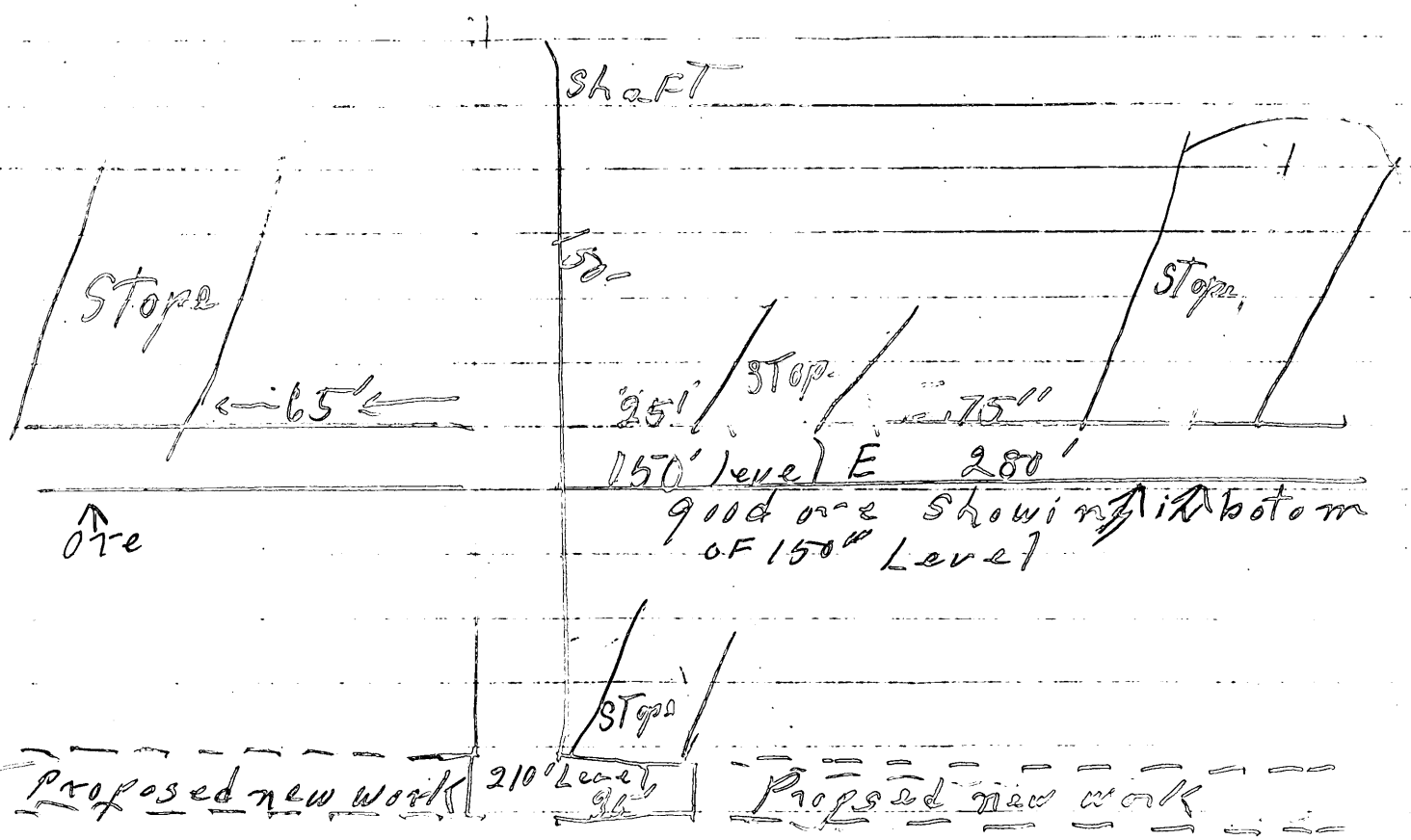
July 9 1957 (Date) President (Title)

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

*Same as footnote on page 1.

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

22 Hoosier mine shaft & drifts



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24. Mine is in operation now--new proposed exploration work to be completed in 100 days.

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 1885

Date received 7-24-51

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Johnson Bros. & Prime
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Ralph Johnson
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Date July 9, 1951

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FILL IN THIS BLOCK

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DMA Docket Number, if available 0081

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Johnson Brost Prime
(Name of company)

By Ralph L. Johnson
(Signature of authorized official)

July 9 1957
(Date)

President
(Title)

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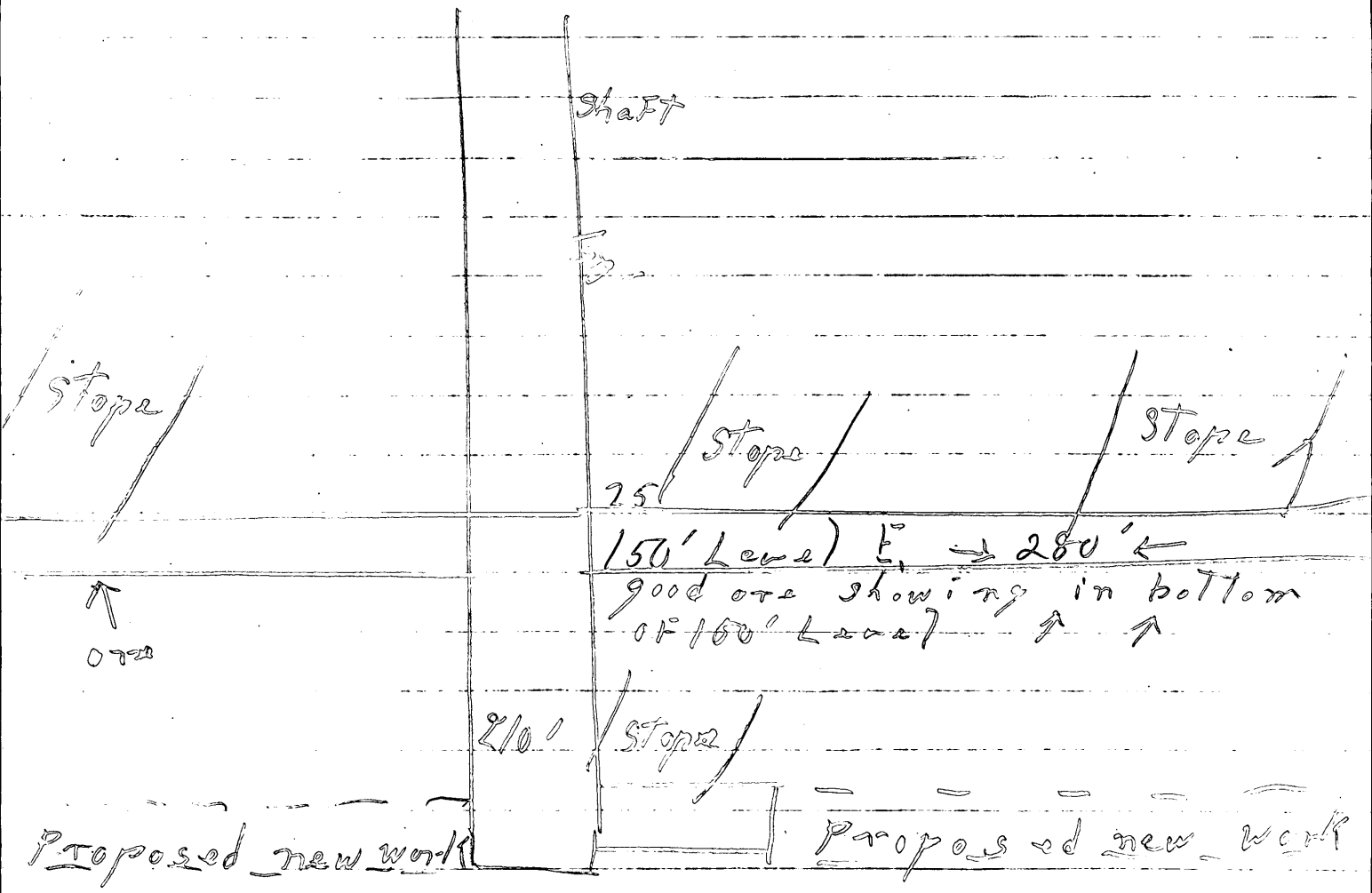

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