DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1407X

DO NOT DETACH THIS SLIP

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This document has been recorded as

_____

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:	Mr. Lyon	Date	8-22-51
To:	Director, Supply Div.	Date	8/23/51
To:	~~REPORTS AND RECORDS~~	Date	AUG 21 1951
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CONTROLLED DOCUMENT

340

FILE COPY
SURNAME:

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

Holderer
Jacoby
Hogan
Geehan

Memorandum

AUG 27 1951

To: Reports and Records Unit

Through: Director, Supply Division

From: Chief, Tungsten Branch

Subject: DMA-1407X O. F. Exploration Company, Inc.
% William Fillmore
Spearfish
South Dakota

Property: Robertson Tungsten
Custer County
South Dakota

Conclusion:

A pit 130 feet long, 30 feet wide, and 30 feet deep produced only 150 units of tungsten. The ore occurs in small amounts in quartz lenses in shist. Due to the nature of the deposit it is extremely doubtful if exploration with a diamond drill would disclose tungsten in commercial quantities.

Recommendation:

The application is denied.

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

Approved

Tom Lyon

Director, Supply Division

CHJacoby:ec
August 20,1951

CC: Adm. Reading File
Reports & Records Unit
Mr. Holderer
Mr. Lemmon
Mr. Geehan
Field Team, Region V
Files

FILE COPY
SURNAME:

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

Holderer
Geehan
Thayer

Q.E.C.

AUG 27 1951

O. F. Exploration Company, Inc.
% Mr. William Fillmore
Spearfish
South Dakota

In reply please refer to
DMA-1407X

Dear Mr. Fillmore:

Your application has been carefully reviewed in the light of information gained from previous operations on your property. The small production obtained from the open pit operations and the distribution of tungsten in small lenses through the country rock indicate that the chances of finding a minable amount of ore by the exploration you propose are not sufficient to justify a government loan.

Therefore, we must regretfully deny your application.

Very truly yours,

Tom Lyon

8/27

Tom Lyon
Director, Supply Division

TPThayer:ec
August 22, 1951

CC: Adm. Reading File
Reports & Records Unit
Mr. Holderer
Field Team, Region V
Mr. Lemmon
Mr. Geehan
Files

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

AUG 27 1951

C. F. Exploration Company, Inc.
% Mr. William Fillmore
Spearfish
South Dakota

In reply please refer to
[illegible]-1407X

Dear Mr. Fillmore:

Your application has been carefully reviewed in the light of information gained from previous operations on your property. The small production obtained from the open pit operations and the distribution of tungsten in small lenses through the country rock indicate that the chances of finding a minable amount of ore by the exploration you propose are not sufficient to justify a government loan.

Therefore, we must regretfully deny your application.

Very truly yours,

Tom Lyon
Director, Supply Division

TPThayer:ec
August 22, 1951

CC: Adm. Reading File
Reports & Records Unit
Mr. Holderer
Field Team, Region V
Mr. Lemmon
Mr. Geehan
Files

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

AUG 27 1951
G. E. C.

Memorandum

To: Reports and Records Unit

Through: Director, Supply Division

From: Chief, Tungsten Branch

Subject: DMA-1407X O.F. Exploration Company, Inc.
% William Fillmore
Spearfish
South Dakota

Property: Robertson Tungsten
Custer County
South Dakota

Conclusion:

A pit 130 feet long, 30 feet wide, and 30 feet deep produced only 150 units of tungsten. The ore occurs in small amounts in quartz lenses in shist. Due to the nature of the deposit it is extremely doubtful if exploration with a diamond drill would disclose tungsten in commercial quantities.

Recommendation:

The application is denied.

George B. Holderer
Chief, Tungsten Branch

Approved

Tom Lyon
Director, Supply Division

Index to File
to
Reports and Records Unit DMA-1407-X

1. 4 copies Form MF-103 with attached sheets
2. 1 copy Report of examination (unsigned) 10/2/44
3. 1 copy Contract for Deed 6/1/44
4. 1 copy Assay dated 8/30/45
5. 1 copy plan of exploration
6. 1 copy map showing mine workings

FILE COPY
SURNAME:

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

June 19, 1951

Mr. William O. Fillmore, Manager
Spearfish
South Dakota

Subject: DMA-1407X
Re: Exploration Loan -
Robertson Tungsten Property

My dear Mr. Fillmore:

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

The application was assigned Docket Number DMA-1407X and referred to Mr. George Holderer, Chief, Tungsten Branch on June 4, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1407X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel jc
Executive Secretary

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

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 1407X

Date received 5-31-51

Participation

O-F Exploration Company, Inc.

Spearfish, South Dakota

Name and address of applicant

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost $20,000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine 4 miles Southeast of Keystone, Custer County, South Dakota.

Date of filing MF-100

DMA Docket Number, if available dma 1407X

INSTRUCTIONS

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

THE APPLICANT

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

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

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

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

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

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

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

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

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

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

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

16—64067-1

THE PROPERTY

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

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

O-N Exploration Co, Inc.
(Name of company)

By W. O. Fillmore, Manager
(Signature of authorized official)

May 26, 1951
(Date)

Lillian G. Fillmore, Secty-Treas
(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

MF-103

O-F Exploration Company, Inc.
Spearfish, South Dakota

The Applicant.
1. Applicant is a Corporation.
3. Timon Johannes Oltmans, Belle Fourche, So.Dak. Pres and Director
Roderick Henry LeBron, 6120-N 30th St, Omaha, Nebr. V.Pres and Director
Lillian G. Fillmore, Spearfish, So.Dak. Secty-Treas and Director
William Orlo Fillmore, Spearfish, So.Dak., Manager and Director
Andrew H. Johnson, Douglas, Wyoming with the above, the five largest stockholders.
4. The Corporation is managed by W m O. Fillmore, named above, who will manage this project. Mr Fillmore has been active inmthe mining business for the past eighteen years, has a wide experience in mining and diamond drilling in the Black Hills For several years was engaged in the business of diamond drilling, being a partner in the Fillmore Drilling Company now owned and operated by M.F. Fillmore of Deadwood, S o.Dak. Has been manager of the Beaver Creek Mining Co., the Dakota Tin and Gold Co; in 1948 was consulting engineer of the Keahey Tungsten Mines, Shoshone, Wyoming; Superintended the sinking of the shaft and drilling of the tungsten property in this application.
5. Hold contract for deed to the property.
7. Copy of lease contmact attached. This is in good standing.
8. Company has been inactive since the Government cancelled our tungsten contract for purchase of ore when we shut down. Company does not owe any obligations. Assets consist of the Silver Queen Mine located near Deadwood, now under lease; the Brenning Oil field near Douglas, Wyoming and the Friend Robertson tungsten property. We have ample money pledged by stockholders to take care of further exploration on the tungsten property.
9. $5000 prepared to invest. Yes, sufficient to pay our part of costs.
THE PROPERTY
10.(a) This tungsten property is located 4 miles Southeast of Keystone, Custer County, South Dakota, approximately one half mile North of the Spokane Lead and Silver Mine.
(b) The legal description is the following:- 3.2 acres in the East ½ NE ¼ S 22 T 2S R 6 E Black Hills Meridian. Both area are the same.
11. Friend Robertson Tungsten property.
12. Four miles from Keystone, C.B.& Q railroad 4 miles, connected to hard surface highway 16, 1 mile to the South by a good gravel road, shipping point is Keystone.
13. Only available water is from shaft and wells sunk in the district. Or Iron Creek, approximately 1½ miles from property.
Power for project must be manufactured. Highline about 1500 ft away.
14. No buildings on property now except tool shed 8' x 8'. No useable facilities now on property.
15; Ore that has been extracted was shipped to Wah Chang Tungstenxx&m., Trading Corporation, Woolworth Building, New York 7, N.Y.
16. History; See report and maps enclosed.
(b) No known production in this vicinity on tungsten.
17. Not in production.
18. See diamond drill map, ore contacted 45 ft south of shaft. Also approximately 2% tungsten in dump material from shaft.
Assay sheet enclosed on 1947 lbs.
(c) No information available, that is on amount of tonnage.
THE EXPLORATION
20. Sheelite and wolframite tungsten ores.
21. Our program is to diamond drill, sink the present shaft about 50 ft from the present 35 ft level and drift to the ore located by the previous diamond drilling, which would be approximately 45 ft from the present shaft. This should be fairly well completed by October

first,this year, depending on how soon we start. It will have to be in the near future.

22. Information enclosed in reports and maps.

REQUIREMENTS AND COSTS.

23.Estimated cost follows:-

a. Labor- 2 miners, 2 muckers, 1 hoist man, 1 foreman all at $1.25 per hour, 40 hour week 4 months		$4800.00
b. One supervisor at $100 per week 4 months		1600.00
c.Repairs on shaft,re-conditioning gallus frame and shaft		500.00
d. Shaft house and work shop for housing equipment		1200.00
e. Equipment-1 air compressor(210 cu,ft.)	$3600.00	
1 jack hammer	275.00	
1 drifter	425.00	
1 truck 1½-2 ton	2400.00	6700.00
f. Diamond drill equipment per month $250.		1000.00
Diamond drill bits for 1500 ft drilling		1500.00
g. Hoist, air tank, ore cars, rail, misc. eqpmt $100 per mo.		400.00
h. Dynamite, drills bits, hardware, piping etc		2000.00
i. Cost of power, hauling water for diamond drilling		300.00
Total		$20,000.00

24. Time schedule.

It will take at least 30 days to get things going and the equipment on the property. This will take probably half the money. The balance will be spent in about equal amounts over three months of exploration of the property.

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 1407X

Date received 5-31-51

Participation

Name and address of applicant

O-F Exploration Company, Inc.
Spearfish, South Dakota

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost $20,000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine 4 miles Southeast of Keystone, Custer County, South Dakota.

Date of filing MF-100

DMA Docket Number, if available dma 1407X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

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THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

O-B Exploration Co., Inc.
(Name of company)

By M. T. Fillmore, Manager.
(Signature of authorized official)

May 26, 1951
(Date)

Lillian G. Fillmore, Sec'y-Treas
(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

O-F Exploration Company, Inc.
Spearfish, South Dakota

MF-108

The Applicant.

1. Applicant is a Corporation.

3. Simon Johannes Oltmans, Belle Fourche, So.Dak. Pres and Director
Roderick Henry LeBron, 6120-N 30th St, Omaha, Nebr. V.Pres and Director
Lillian G. Fillmore, Spearfish, So.Dak. Secty-Treas and Director
William Orlo Fillmore, Spearfish, So.Dak., Manager and Director
Andrew F. Johnson, Douglas, Wyoming with the above, the five largest stockholders.

4. The Corporation is managed by W. O. Fillmore, named above, who will manage this project. Mr Fillmore has been active in the mining business for the past eighteen years, has a wide experience in mining and diamond drilling in the Black Hills. For several years was engaged in the business of diamond drilling, being a partner in the Fillmore Drilling Company now owned and operated by J.F. Fillmore of Deadwood, S.Dak. Has been manager of the Beaver Creek Mining Co., the Dakota Tin and Gold Co; in 1943 was consulting engineer of the Cooley Tungsten Mines, Shoshone, Wyoming; Superintended the sinking of the shaft and drilling of the tungsten property in this application.

5. Sold contract for deed to the property.

7. Copy of lease contract attached. This keeps good standing.

8. Company has been inactive since the Government cancelled our tungsten contract for purchase of ore when we shut down. Company does not owe any obligations. Assets consist of the Silver Queen Mine located near Deadwood, now under lease; the Dunning Oil field near Douglas, Wyoming and the Friend Robertson tungsten property. We have ample money pledged by stockholders to take care of further exploration on the tungsten property.

9. 500% prepared to invest. Yes, sufficient to pay our part of costs.

THE PROPERTY

10.(a) This tungsten property is located 4 miles Southeast of Keystone, Custer County, South Dakota, approximately one half mile North of the Keystone Lead and Silver Mine.

(b) The legal description is the following:- S.½ acres in the East ½ NE ¼ S 22 T 2S R 6 E Black Hills Meridian. Both area are the same.

Beautiful left out

11. Friend Robertson Tungsten property.

12. Four miles from Keystone, S.D. by railroad 4 miles, connected to hard surface highway 16, 1 mile to the South by a good gravel road, shipping point is Keystone.

13. Only available water is from shaft and wells sunk in the district. Or Iron Creek, approximately 1½ miles from property.
Power for project must be manufactured. Highline about 1500 ft away.

14. No buildings on property now except tool shed 8' x 8'. No usable facilities now on property.

15: Ore that has been extracted was shipped to Van Cleve Tungsten Co., Trading Corporation, Woolworth Building, New York 7, N.Y.

16. History; See report and maps enclosed.

(b) No known production in this vicinity on tungsten.

17. Not in production.

18. See diamond drill map, ore contacted 45 ft south of shaft. Also approximately 5% tungsten in dump material from shaft.
Assay sheet enclosed on 1347 lbs.

(c) No information available, that is on amount of tonnage.

THE EXPLORATION

20. Sheelite and wolframite tungsten ores.

21. Our program is to diamond drill, sink the present shaft about 50 ft from the present 35 ft level and drift to the ore located by the previous diamond drilling, which would be approximately 45 ft from the present shaft. This should be fairly well completed by October

first,this year, depending on how soon we start. It will have to be in the near future.

22. Information enclosed in reports and maps.

23. ESTIMATES AND COSTS.

23. Estimated cost follows:-

a. Labor- [illegible] miners, 2 muckers, 1 hoist man, 1 foreman all at 1.25 per hour, 40 hour week 4 months			4800.00
b. One supervisor at $100 per week 4 months			1600.00
c. Repairs on shaft,re-conditioning collar frame and shaft			500.00
d. Hoist house and work shop for housing equipment			1200.00
e. Equipment-1 air compressor(850 cu,ft.)		3600.00	
1 jack hammer		275.00	
1 drifter		425.00	
1 truck 1 -2 ton		2400.00	6700.00
f. Diamond drill equipment per month 250.			1000.00
Diamond drill bits for 1500 ft drilling			1500.00
g. Hoist, air tank, ore cars, rail, misc. equipt 100 cars ea.			400.00
h. Dynamite, drills bits, detonators, wiring etc			2000.00
i. Cost of power, hauling water for diamond drilling			300.00
	Total		20,000.00

24. Time schedule.

It will take at least 30 days to get drivers native and the equipment on the property. This will take probably half the money. The balance will be spent in about equal amounts over three months of exploration of the property.

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 1407X

Date received 5-31-51

Participation

O-F Exploration Company, Inc.
Spearfish, South Dakota

Name and address of applicant

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost $20,000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine 4 miles Southeast of Keystone, Custer County, South Dakota.

Date of filing MF-100

DMA Docket Number, if available dma 1407X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

O-F Exploration Co., Inc.
(Name of company)

By W. F. Fillmore - Manager
(Signature of authorized official)

May 26, 1951
(Date)

William G. Fillmore, Sec'y-Treas
(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

O-F Exploration Company,Inc.
MF-103 Spearfish, South Dakota

The Applicant.

1. Applicant is a Corporation.

3. Timon Johannes Oltmans, Belle Fourche, So.Dak. Pres and Director
Roderick Henry LeBron,6120-N 30th St,Omaha,Nebr. V.Pres and Director
Lillian G.Fillmore,Spearfish,So.Dak. Secty-Treas and Director
William Orlo Fillmore,Spearfish, So.Dak.,Manager and Director
Andrew H.Johnson, Douglas,Wyoming with the above, the five largest stockholders.

4.The Corporation is managed by W m O.Fillmore,named above, who will manage this project. Mr Fillmore has been active inmthe mining business for the past eighteen years, has a wide experience in mining and diamond drilling in the Black Hills For several yeaBa was engaged in the business of diamond drilling,being a partner in the Fillmore Drilling Company now owned and operated by M.F. Fillmore of Deadwood,S o.Dak. Has been manager of the Beaver Creek Mining Co., the Dakota Tin and Gold Co;in 1948 was consulting engineer of the Keahey Tungsten Mines, Shoshone, Wyoming; Sup#erintended the sinking of the shaft and drilling of the tungsten property in this application.

5. Hold contract for deed to the property.

7. Copy of lease contract attached.This isin good standing.

8. Company has been inactive since the Government cancelled our tungsten contract for purchase of ore when we shut down. Company does not owe any obligations. Assets consist of the Silver Queen Mine located near Deadwood,now under lease; the Brenning Oil field near Douglas,Wyoming and the Friend Robertson tungsten property. We have ample money pledged by stockholders to take care of further exploration on the tungsten property.

9. $5000 prepared to invest. Yes,sufficient to pay our part of costs.

THE PROPERTY

10.(a) This tungsten property is located 4 miles Southeast of Keystone,Custer County, South Dakota,approximately one half mile North of the Spokane Lead and Silver Mine.

(b)The legal description is the following:- 3.2 acres in the East ½ NE ¼ S 22 T 2S R 6 E Black Hills Meridian. Both ares are the same.

11. Friend Robertson Tungsten property.

12.Four miles from Keystone,C.B.& Q railroad 4 miles,connected to hard surface highway 16, 1 mile to the South by a good gravel road, shipping point is Keystone.

13. Only available water is from shaft and wells sunk in the district. Or Iron Creek, approximately 1¾ miles from property.
Power for project must be manufactured. Highline about 1500 ft away.

14. No buildings on property now except tool shed 8' x 8'. No usaable facilities now on property.

15; Ore that has been extracted was shipped to Wah Chang ~~Tungsten Co.~~, Trading Corporation, Woolworth Building,New York 7,N.Y.

16. History; See report and maps enclosed.

(b) No known production in this vicinity on tungsten.

17. Not in production.

18. See diamond drill map,ore contacted 45 ft south of shaft. Also approximately 2% tungsten in dump material from shaft.
Assay sheet enclosed on 1947 lbs.

(c) No information available, that is on amount of tonnage.

THE EXPLORATION

20.Sheelite and wolframite tungsten ores.

21.Our program is to diamond drill, sink the present shaft about 50 ft from the present 35 ft level and drift to the ore located by the previous diamond drilling, which would be approximately 45 ft from the present shaft. This should be fairly well completed by October

first,this year, depending on how soon we start. It will have to be in the near future.

22. Information enclosed in reports and maps.

REQUIREMENTS AND COSTS.

23.Estimated cost follows:-

a. Labor- 2 miners, 2 muckers, 1 hoist man, 1 foreman all at $1.25 per hour, 40 hour week 4 months		$4800.00
b. One supervisor at $100 per week 4 months		1600.00
c.Repairs on shaft,re-conditioning gallus frame and shaft		500.00
d. Shaft house and work shop for housing equipment		1200.00
e. Equipment-1 air compressor(210 cu,ft.)	$3600.00	
1 jack hammer	275.00	
1 drifter	425.00	
1 truck 1½-2 ton	2400.00	6700.00
f. Diamond drill equipment per month $250.		1000.00
Diamond drill bits for 1500 ft drilling		1500.00
g. Hoist, air tank, ore cars, rail, misc. eqpmt $100 per mo.		400.00
h. Dynamite, drill bits, hardware, piping etc		2000.00
i. Cost of power, hauling water for diamond drilling		300.00
Total		$20,000.00

24. Time schedule.

It will take at least 30 days to get things going and the equipment on the property. This will take probably half the money. The balance will be spent in about equal amounts over three months of exploration of the property.

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 1407X

Date received 5-31-51

Participation

O-F Exploration Company, Inc.
Spearfish, South Dakota

Name and address of applicant

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost $80,000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine 4 miles Southeast of Keystone, Custer County, South Dakota.

Date of filing MF-100

DMA Docket Number, if available dma 1407X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
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    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
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20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
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    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

O-Z Exploration Co., Inc.
(Name of company)

By W. O. Fillmore Manager
(Signature of authorized official)

May 26, 1951
(Date)

William G. Fillmore, Sec'y-Treas.
(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

MF-103

O-F Exploration Company, Inc.
Spearfish, South Dakota

The Applicant.
1. Applicant is a Corporation.
3. Timon Johannes Oltmans, Belle Fourche, So.Dak. Pres and Director
Roderick Henry LeBron, 6120-N 30th St, Omaha, Nebr. V.Pres and Director
Lillian G. Fillmore, Spearfish, So.Dak. Secty-Treas and Director
William Orle Fillmore, Spearfish, So.Dak., Manager and Director
Andrew M. Johnson, Douglas, Wyoming with the above, the five largest stockholders.
4. The Corporation is managed by W m O. Fillmore, named above, who will manage this project. Mr Fillmore has been active inmthe mining business for the past eighteen years, has a wide experience in mining and diamond drilling in the Black Hills For several years was engaged in the business of diamond drilling, being a partner in the Fillmore Drilling Company now owned and operated by M.F. Fillmore of Deadwood, S o.Dak. Has been manager of the Beaver Creek Mining Co., the Dakota Tin and Gold Co; in 1948 was consulting engineer of the Keahey Tungsten Mines, Shoshone, Wyoming; Sup#erintended the sinking of the shaft and drilling of the tungsten property in this application.
5. Hold contract for deed to the property.
7. Copy of lease contract attached. This is in good standing.
8. Company has been inactive since the Government cancelled our tungsten contract for purchase of ore when we shut down. Company does not owe any obligations. Assets consist of the Silver Queen Mine located near Deadwood, now under lease; the Brenning Oil field near Douglas, Wyoming and the Friend Robertson tungsten property. We have ample money pledged by stockholders to take care of further exploration on the tungsten property.
9. $5000 prepared to invest. Yes, sufficient to pay our part of costs.
THE PROPERTY
10. (a) This tungsten property is located 4 miles Southeast of Keystone, Custer County, South Dakota, approximately one half mile North of the Spokane Lead and Silver Mine.
(b) The legal description is the following:- 3.2 acres in the East ½ NE ¼ S 22 T 2S R 6 E Black Hills Meridian. Both ares are the same.
Same as 10(a)
11. Friend Robertson Tungsten property.
12. Four miles from Keystone, C.B.& Q railroad 4 miles, connected to hard surface highway 16, 1 mile to the South by a good gravel road, shipping point is Keystone.
13. Only available water is from shaft and wells sunk in the district. Or Iron Creek, approximately 1¾ miles from property.
Power for project must be manufactured. Highline about 1500 ft away.
14. No buildings on property now except tool shed 8' x 8'. No usable facilities now on property.
15; Ore that has been extracted was shipped to Wah Chang ~~Tungsten Co.~~, Trading Corporation, Woolworth Building, New York 7, N.Y.
16. History; See report and maps enclosed.
(b) No known production in this vicinity on tungsten.
17. Not in production.
18. See diamond drill map, ore contacted 45 ft south of shaft. Also approximately 2% tungsten in dump material from shaft.
Assay sheet enclosed on 1947 lbs.
(c) No information available, that is on amount of tonnage.
THE EXPLORATION
20. Sheelite and wolframite tungsten ores.
21. Our program is to diamond drill, sink the present shaft about 50 ft from the present 35 ft level and drift to the ore located by the previous diamond drilling, which would be approximately 45 ft from the present shaft. This should be fairly well completed by October

first,this year, depending on how soon we start. It will have to be in the near future.

22. Information enclosed in reports and maps.

REQUIREMENTS AND COSTS.

23.Estimated cost follows:-

a. Labor- 2 miners, 2 muckers, 1 hoist man, 1 foreman all at $1.25 per hour, 40 hour week 4 months		$4800.00
b. One supervisor at $100 per week 4 months		1600.00
c.Repairs on shaft,re-conditioning gallus frame and shaft		500.00
d. Shaft house and work shop for housing equipment		1200.00
e. Equipment-1 air compressor(210 cu,ft.)	$3600.00	
1 jack hammer	275.00	
1 drifter	425.00	
1 truck 1½-2 ton	2400.00	6700.00
f. Diamond drill equipment per month $250.		1000.00
Diamond drill bits for 1500 ft drilling		1500.00
g. Hoist, air tank, ore cars, rail, misc. eqpmt $100 per mo.		400.00
h. Dynamite, drills bits, hardware, piping etc		2000.00
i. Cost of power, hauling water for diamond drilling		300.00
Total		$20,000.00

24. Time schedule.

It will take at least 30 days to get things going and the equipment on the property. This will take probably half the money. The balance will be spent in about equal amounts over three months of exploration of the property.

dmr 1407X

REPORT OF EXAMINATION

OF THE

ROBERTSON TUNGSTEN PROPERTY

CUSTER COUNTY, SOUTH DAKOTA

October 2, 1944

The Robertson tungsten property is located 4 miles southeast of Keystone, Custer county, South Dakota, see Fig. 1. Keystone with a population of about 500 is a village on the Chicago, Burlington, and Quincy Railroad. The tungsten deposit is approximately ½ mile north of the Spokane lead-silver mine, a well known landmark in the district. The property is connected to the hard surfaced U.S. highway 16 one mile to the south by a good gravel road.

The property was purchased "on contract" by T.J. Oltmans, Lemmon, South Dakota, and W.O. Filmore, Spearfish, South Dakota in June 1944. The property purchased consists of 3.02 acres in the E½-NE¼, Section 27, T.2S.R. 6E, Black Hills Meridian and 52½ acres in section 28, T. 2S. R. 6E, Described as follows:

W½ SW¼ NW¼.....20 acres
NW¼ NW¼ SW¼.....10 acres
NE¼ SW¼ NW¼.....10 acres
N½ S½ SW¼ NW¼..... 5 acres
W½ NW¼ SW¼ NW¼..... 5 acres
NE¼ NW¼ SW¼ NW¼..... ½ acres

The altitude in the vicinity of the deposit is about 4500 feet above sea level. The deposit is in gentle rolling country exposing only a few small outcrops. The country rock in the immediate area is pre-Cambrian schist which appears to be an embayment in the northeastern part of the great granite and pegmatite Harney Peak granite batholith. The schist is intruded by small granite and pegmatite dikes and narrow quartz veins. The tungsten minerals wolframite and scheelite occur in and along the contact of one of these quartz veins. It is also found in the enclosing schist. The wolframite is found as a fracture filling, a breccia and in irregular masses, weighing up to 50 pounds and the scheelite is found on the surface of the wolframite probably as an alteration product of it. The quartz vein in which the mineralization occurs is about 10 feet wide near the surface and strikes S 13W, see Fig. 2. The vein is exposed near the surface for a distance of about 50 feet along the strike and for a depth of 30 feet in an open cut.

The tungsten mineralization is also shown in diamond drill hole 3 at a vertical depth of 60 feet below the surface and 35 feet horizontally southwest of the exposure in the cut, see figure 2 and 3. Figure 3 shows the vertical cross-sections through the drill holes. The cross-section through drill hole 3 shows that the drill hole penetrates the same quartz dike found on the surface and in the open cut. At a distance of 69 feet the drill hole encountered mineralization for a width of about 1 foot. The mineralization for this width was heavy and it occurred in the schist as well as in the quartz dike. The drill hole did not cut through the entire dike so its full width and the extent of mineralization at this depth has not been determined. Close drilling in this type of mineralization is necessary for a drill hole may be put down 1 foot along side of a barren hole and encounter good values. The mean of a number of holes however, will approximate the average value of the mineralization. Drill hole 2 interexected a north-south striking quartz vein but no mineralization was found. The information for this one drill hole is not sufficient ~~edd~~ evidence to definitely abandon the possibilities of this vein. Drill hole 1 should have intersected the quartz dike exposed by drill hole 3 and the open cut but either the quartz vein pinches out or a plunging of the dike to the southeast is suggested in which case the drill hole is under the apex of the dike.

The first exploratory work on the deposit was done by the owner in a small way and it is reported that he shipped 3,000 pounds of tungsten ore to Germany in 1914.

In 1939 the property was leased to a Wyoming organization who made a small shipment to the Wolfe Tongue Mining Company at Boulder, Colorado. The following letter to the owner indicates the grade of this shipment and the conditions of the sale.

RICHLAND CORPORATION

Securities--Real Estate--Insurance

10 Townsend Building Phone 712

Casper, Wyoming

November 27, 1939

Mr. Friend Robertson
Hermosa, S. Dak.

Dear Mr. Robertson:

We received a letter back from the Wolfe Tongue Mining Co. Saturday morning.

Following is their report on our material: Assay report by Hill and J. Jude: 59% onlot number 2322; Net weight 646 - 1% moisture leaves 640 lbs.; 59% assay leaves 377.6 lbs at 73.1 cents equals $276.03 total at 20% royalty equals $55.21.

From this report we are mailing check to the Custer County Bank at Custer, S. Dak. to be credited to your account, in the amount of $55.21.

We will keep the original assays and reports in our office at Casper together with a complete set of books, which will be available for your inspection at any time.

We have named our little company the Rushmore Mining Company. Hoping the above meets with your approval, I remain,

Truly yours,

Richland Corporation

/s/ L.H. Richardson

By L. H. Richardson

The above shipment must have been a hand sorted concentrate as no milling equipment has ever been installed at the property. It is therefore indicative of the quality of material that can be cured by hand sorting. It also shows that a high grade concentrate could be secured by milling.

When the property was taken over by the Oltmans and Filmore Exploration Company the old open cut was cleaned out and the pit sunk several feet deeper into the quartz dike. A frame shaft was erected and the shaft sunk to a depth of 40 feet. In sinking the ten feet of the shaft, approximately 1 ton of tungsten ore was taken out that will

paobably average 50 percent tungsten trioxide (WO_3) for high grade ores containing 60 percent WO_3. Ores are accepted F.O.B. railroad cars at points designated by the Metals Reserve. High Grade concentrates are accepted in lots of 1 ton or more. The high grade concentrates are sujeot to the regular penalties for impuities. Concentrataion of this ore will undoubtedly come in this category. The Metals Reserve is also purchasing domestic crude ore f.o.b. Salt Lake City. They pay $30.00 per ton unit for 85% of the contained tungsten trioxide (WO_3) less $3.00 per short ton for milling and $2.00 per short ton unit additional to cover chemical treatment. No penalties for impurities is imposed on theis ore and lots of 10 tons or more will be accepted.

Tungsten is a very important ingredient in the alloying of steel and it will be as vittally needed after the war as during the war in the world rehabilitation program. When the subsidy on tungsten is lifted by the government it will find a ready market in the Denver Area.

The property is an encouraging prospect and it should be thoroughly explored and developed to the prouction stage.

Respectfully submitted,

October 2, 1944

(no. 7 under the applicant) O-F Exploration Co., Inc. Spearfish, So. Dak.

dmd 1409X

Contract for a Deed.

This Agreement, made and entered into this 1st day of June, A.D.1944, by and between Friend G.Robertson, and Anna G. Robertson,husband and wife, of Hermosa,South Dakota, parties of the first part, and hereinafter called the Grantors, and W.O.Fillmore, of Spearfish, South Dakota and T.J.Oltmans,of Lemmon, South Dakota, parties of the second part, and hereinafter called the Grantees, Witnesseth;

That the said grantees hereby agree and bind themselves to pay, or cause to be paid, to the said grantors the sum of Ten Thousand ($10,000) Dollars, in the manner as follows: Five Hundred Dollars at the time of the signing and delivery of this contract, the receipt of which is hereby acknowledged by the said Grantors, and it is further provided that Twenty-five (25%) percent of the net sale of all ore mined, produced and sold from the premises hereby purchased shall be applied upon the above stated purchase price until the entire amount of said purchase price is in that manner fully paid. It is further provided that at any time the said grantees may pay in full any balance owing on said consideration. The said payments on said consideration to be made to the grantors at the Custer County Bank, at Custer, South Dakota, and the same being intended to apply when fully completed as the purchase price for the following tract of land situated in the County of Custer, and State of South Dakota, and described as follows, to-wit:

"Approximately 3.02 acres situated in the East Half of the Northeast Quarter,(E½ NE¼) of Section Twenty-seven(27), Township Two (2) South, Range Six (6) East of the Black Hills Meridian, and described by Metes and Bounds as follows: Beginning at the Northeast corner of Tract Robertson at a stone set on Section line at South 00° 4' East 896.2 feet from Northeast corner of said Section ~~line~~ Twenty-seven (27), thence South 00° 4' East 762 feet, thence South 79° 51' West 55.5 feet, thence North 19° 52' West 707.8 feet, thence North 70° 34' East 314.5 feet to place of beginning."

That said Grantees agree that they will pay all taxes annually after January 1st,1944 as may accrue thereafter as the same shall become due and payable. That said Grantors shall execute and place in escrow at the Custer County Bank,at Custer, South Dakota, a Warranty Deed conveying said premises to said Grantees, which shall be good and sufficient in form to convey the same by a merchantable title and free from all incumbrance whatsoever, except as to the taxes and assessments to be paid by said grantees, or any lien or incumbrance created by the acts

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or defaults of said grantees. It is further agreed that the above described premises constitute a mine claim, and that said Grantors agree to execute and deliver all instruments proper and necessary to convey mining rights in and to said premises in addition to the execution and delivery of said Warranty Deed thereto.

That it is further provided, that should said Grantees at any time become in default in the making the payments on the purchase price when the same became due and payable or in the fulfillment of the other covenants herein contained, and siad default shall continue for a period of thirty days, said grantors may, at their option declare this agreement terminated, and foreclose this contract by strict foreclosure according to the provisions of the Code of South Dakota in such cases made and provided, and upon said foreclosure, and the failure of said grantees to redeem the property therefrom, said grantees shall be under no further obligation to said grantors by virtue of the same.

That said grantore do hereby represent that they have the right, power and interest in and to said premises to enable them to convey the same to said grantees according to the provisions of this agreement.

That said grantees do hereby agree that they will pay for all labor and material used upon said premises, or connected with said mining operation on the same, and not permit any liens of any kind or character to become attached to said property, and that they will commence work in the operations under said contract on the 1st day of June, 1944, and will continue the same with all proper speed and dispatch, according to the intent of this agreement.

That this agreement shall be binding upon the parties hereto, and upon their heirs, successors and assigns, and personal representatives.

It is further agreed by and between the parties heretp, that said grantees shall have the option to purchase between the dates of June 1st, 1944 and June 1st, 1945, the mining claim and premises described as:

"The West half of the Southwest quarter of the Northwest quarter, the Northwest quarter of the Northwest quarter of the Southwest quarter, the Notheast quarter of the Southwest quater of the Northwest quarter, the North half of the Southeast quarter of the Southwest quarter of the Northwest quarter, the West half of the Northwest quarter of the Southeast quarter of the Northwest quarter, and the Northeast quarter of the Northwest quarter of the Southeast quarter of the Northwest quarter, of Section Twenty-six (26), in Township Two South, of Range Six, East of the Black Hills Meridian, containing Fifty two and 50/100 acres, according to the official

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survey thereof, in Custer County, South Dakota."

For the sum of Ten Thousand($10,000) Dollars, and upon the payment thereof the said grantors shall execute and deliver to the Grantees, proper instruments of conveyance, and the same shall be conveyed by a good and sufficient warranty deed, and the title so conveyed shall be merchantable and free from all incumbrance, liens or clouds upon the same.

Provided, That should the price of tungsten or other minerals mined from said property become such that the same could not be mined at a fair profit,then and in that event said parties of the second part may at their option discontinue operations under this Contract until such time as said ore can be mined at a profit, and without in any manner becoming in default under the terms hereof.

In witness whereof, the parties hereto have hereunto set their hands, on this 1st day of June, A.D. 1944.

Friend G. Robertson

Anna G. Robertson

W.O.Fillmore

T.J.Oltmans

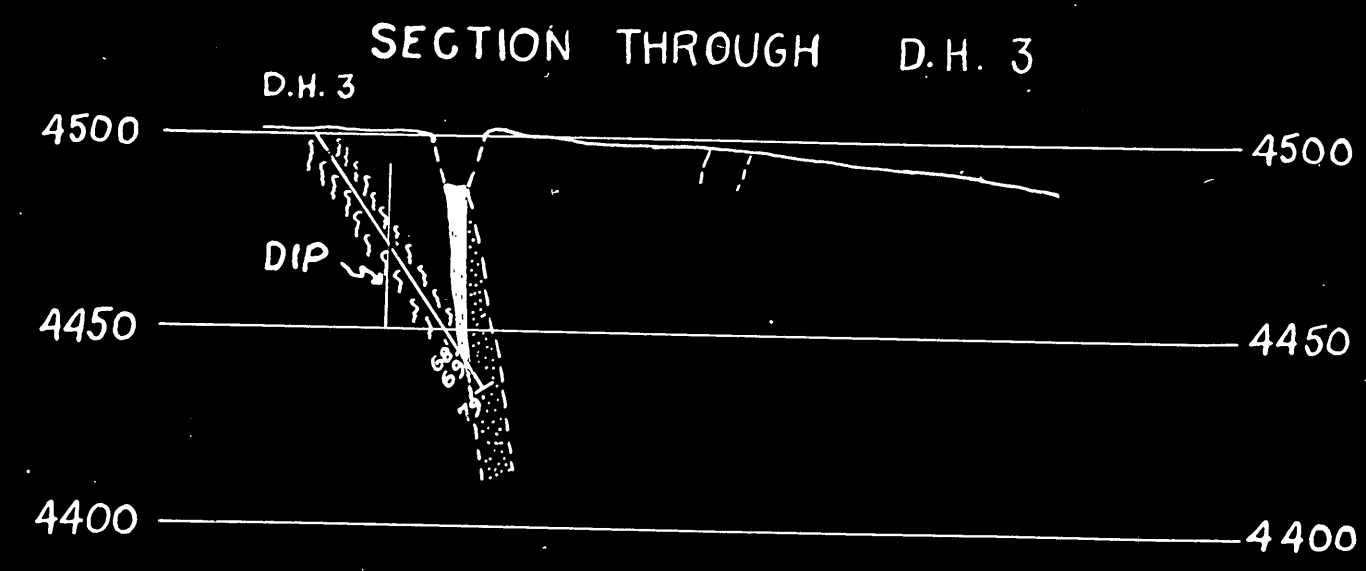
Signed and delivered in presence of:

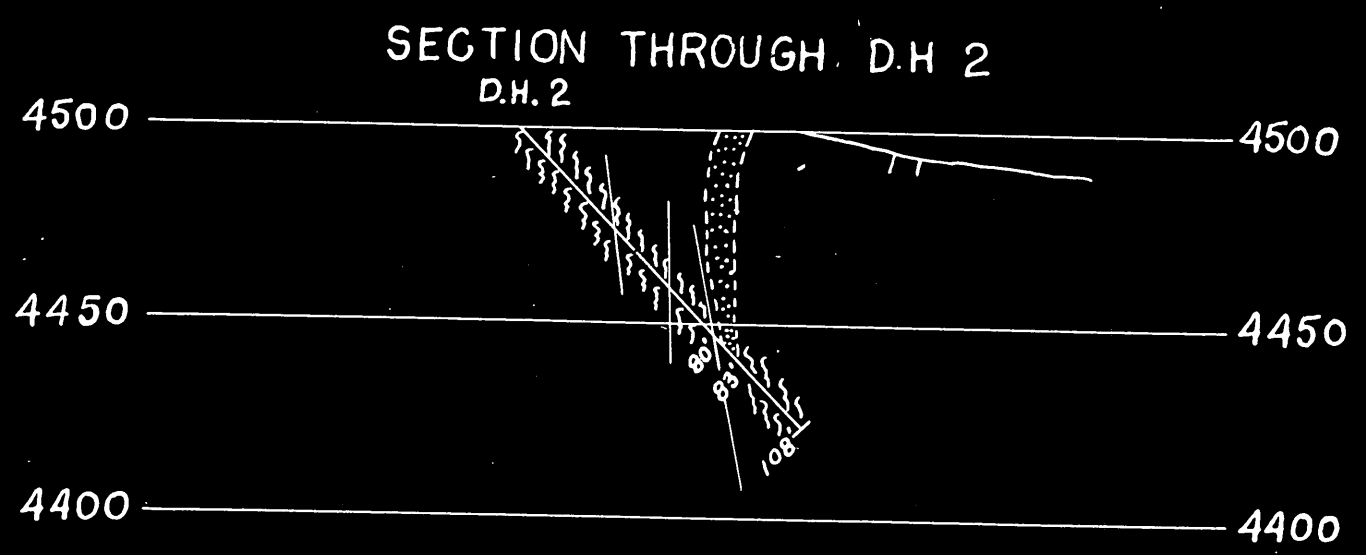
Cora Meiners,Hermosa,S.D.

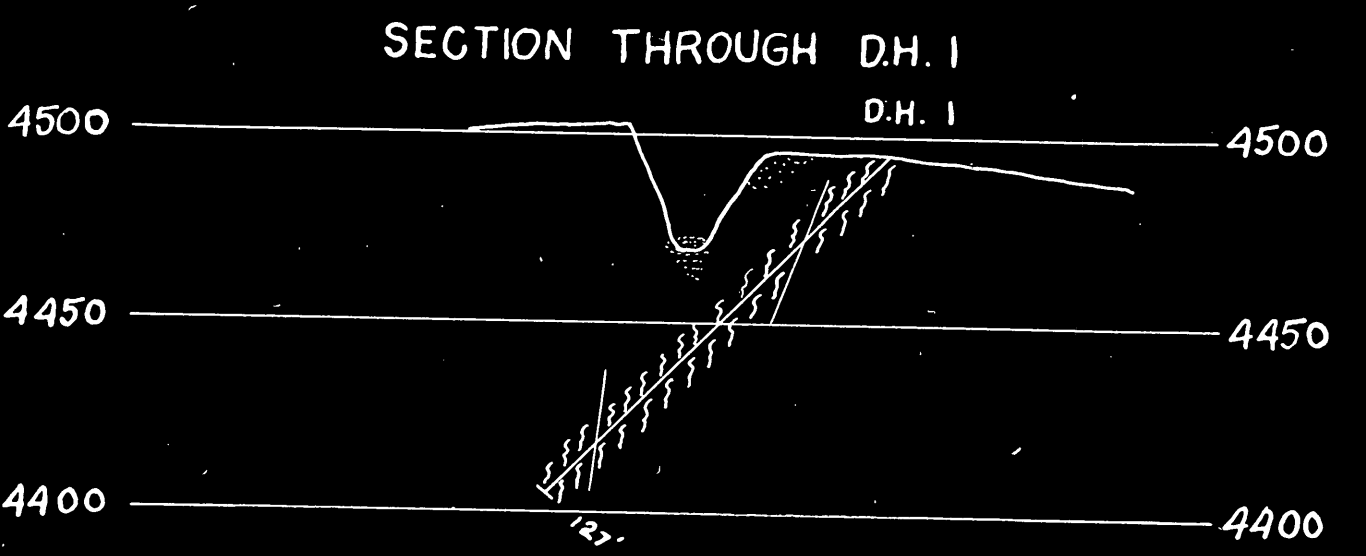
R.W.Meiners, Hermosa,S.D.

L.G.Fillmore,Spearfish,S.D.

N.E.Brown, Spearfish, S.D.







LEGEND

PRE-CAMBRIAN SCHIST — TUNGSTEN-QUARTZ VEIN

QUARTZ VEINS — DIAMOND DRILL HOLE

SCALE 1" = 50'

FIG. 3 SHOWING VERTICAL CROSS-SECTIONS

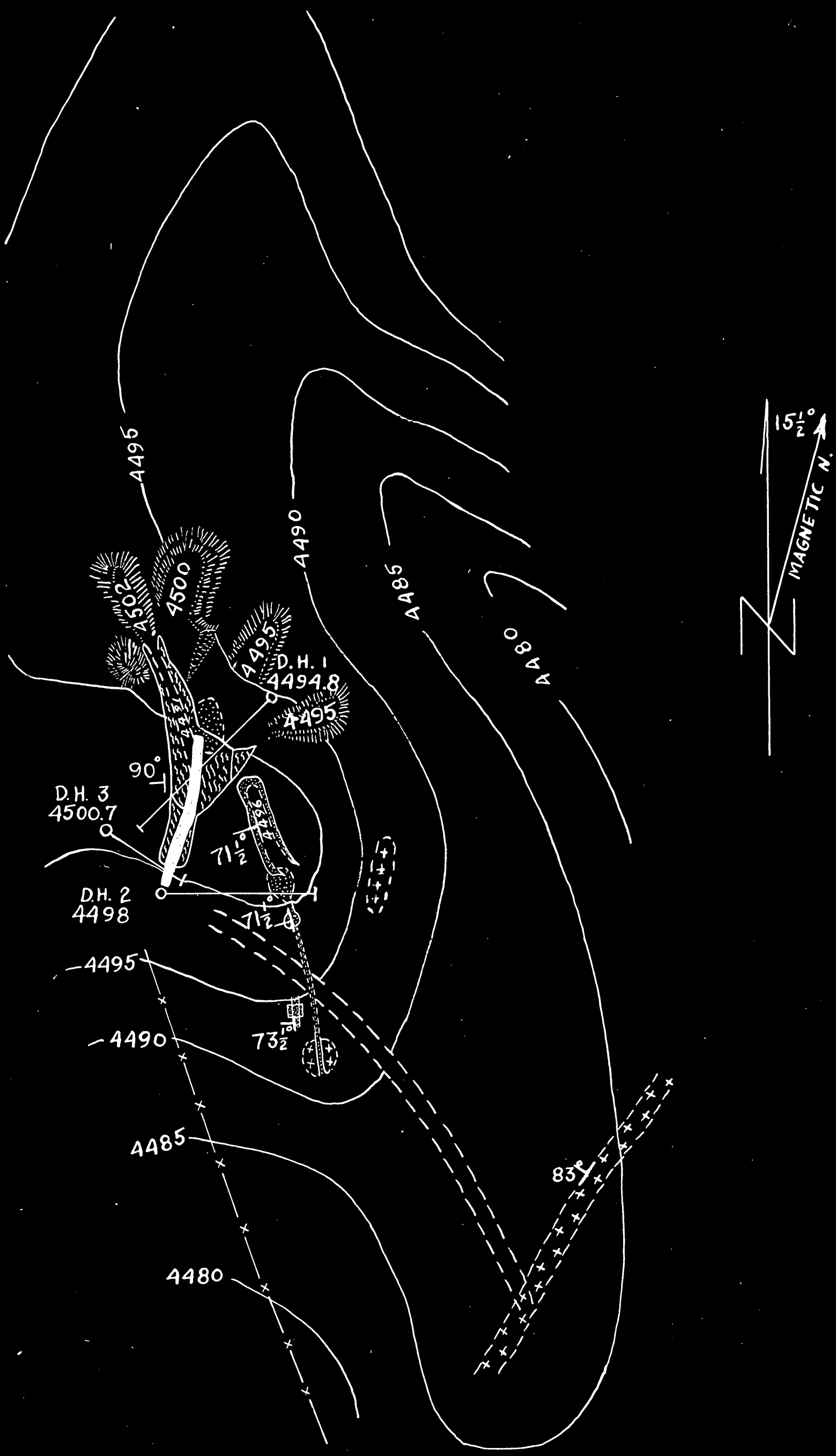


FIG. 2 GEOLOGIC & TOPOGRAPHIC MAP