Docket Copy
(Code 700)

AMENDMENT NO. 2

Docket No. DMEA 2011, Contract Idm E-252, dated February 5, 1952 between the United States of America and R. H. McHenry is hereby amended as follows:

1. Under item 3, exploration contract, the operator's completion date is hereby extended to May 31, 1952.

2. Under Exhibit A of the contract, Labor and Supervision, the amounts set forth for sampler, sampler helpers, and driller to be used for wages of working supervisor (operator) to the extent necessary to complete the work, but not to exceed the allowable total of $1,378.00.

This amendment shall not be construed to increase the estimated cost of the project, the aggregate total amount the Government must pay, or the percentage of the costs which the Government may pay under provisions of Article 13 of the contract form.

UNITED STATES OF AMERICA

Dated: May 19 1952

By O. B. Woodham
Executive Officer, DMEA Field Team
Region V

Dated: MAY 13 1952

R. H. McHenry
R. H. McHenry

DEPARTMENT OF THE INTERIOR
Bureau of Mines
MAY 2 - 1952

JUSTIFICATION OF AMENDMENT NO. 2

Docket No. DMEA-2011, Contract Idm E-252, R. H. McHenry

The project is designed to determine if columbite-tantalite exists in placer gravels in sufficient quantity to warrant further development and subsequent operation with mechanized equipment.

Because of the amount of water in French Creek and the difficulty of diverting the water to investigate the deposit by trenching, churn drilling was selected as the most feasible method of obtaining the desired information.

Placer gravels invariably contain some large boulders that are difficult to drill with prospecting equipment. Drilling on this project, because of boulders, has not progressed as fast as anticipated.

The operator, who supervises the work and is also the lessee, has performed the duties of the driller and sampler, as well as supervisor, and probably accounts for some delay. However, an inspection of the work does not indicate that additional labor would have appreciably affected progress to date. Furthermore, additional labor would increase unit costs. The requirement of a sampler, to be selected only with the approval of the government, was to guard against any possible contamination of samples by persons having a financial interest in the property. The present arrangement appears to have effectively prevented any possible contamination.

Because of the foregoing, the provisions of the attached amendment No. 2 are amply justified and it is recommended that the amendment be approved.

D. H. Mullen
Supervising Engineer

DEPARTMENT OF [illegible]
Defense [illegible]
[illegible]
MAY 21 1952

MAY 13 1952

Docket Copy

AMENDMENT NO. 1

Amendment to Docket No. DMEA 2011X, Contract Idm E-252, R. H. McHenry

Contract Idm E-252 dated February 5, 1952 between the United States of America and R. H. McHenry is hereby amended as follows:

(1) Under Item 3, exploration contract, the operator's date of starting work is hereby extended thirty (30) days, making the starting date on or before April 5, 1952.

This amendment shall not be construed to increase the estimated cost of the project, the aggregate total amount which the Government must pay, or the percentage of the costs which the Government may pay, under provisions of Article 13 of the contract form.

Dated March 4, 1952

UNITED STATES OF AMERICA

By A. B. Needham
Executive Officer, Region V, DMEA

R. H. McHenry

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 10 1952

MF-200
(June 1951)

Docket No. DMA 2011X
Commodity Columbite
Tantalite
Cassiterite
Idm-E-252

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

DOCKET COPY

EXPLORATION PROJECT CONTRACT [1]

It is agreed this 5th day of February 5, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] R. H. McIlenry (an individual) Buffalo, Wyoming

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 South Dakota, County of Custer described as follows: [3] The "Wiegie Group" of eight claims namely: Pure Gold, Half Muck, Long Shot, Christmas, Happy New Year, Pink Elephant, Hang Over, Resolution, located in sections 3 and 10, T.4 S., R.5E., B.H.M.

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 thirty (30) days from the date of this contract shall commence work on a project of exploration for [5] Columbite-Tantalite; 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] seventy-five (75) days 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 90 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $3,184.20, which is 90 percent of the agreed estimated total cost of this project, $3,538.

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.

R. H. McHENRY
(Operator)

By R. H. McHenry

THE UNITED STATES OF AMERICA

By C. Mittendorf
Acting Administrator, Defense Minerals Exploration Administration

Konrad Hoffland (for rec only)

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

R. H. McHenry

DMA 2011
E-252

EXPLORATION PROJECT CONTRACT
R. H. McHENRY
DOCKET NO. DMEA-2011

EXHIBIT "A"

Statement of the Work

This contract will consist of drilling six rows of 6-inch churn-drill holes across the channel gravel. The rows will be at intervals of 650 to 750 feet and there will be 3 to 5 holes per row with the holes 100 to 150 feet apart in the row. Total footage to be drilled according to the pattern just described is approximately 630 feet.

One hole (to be designated by a representative of the Field Team) in each row is to be sampled at 5-foot intervals. From the remaining holes, one sample only representative of the entire mineralized section is to be taken from each of the other holes. Operator will keep a complete log of each hole drilled. Sampling and disposition of the samples taken, are to be under the direction of the Regional Field Team.

It is estimated the work will require 30 working shifts.

Estimated Costs of the Project

Fixtures and improvements

None

Defense Materials Administration
MAR 10 1952

Operating equipment

To be purchased:

60 feet of 6-inch casing (threaded in 5-foot lengths) @ $5.00 per foot	$300.00	
1—4" Hendershot sand pump	325.00	$625.00

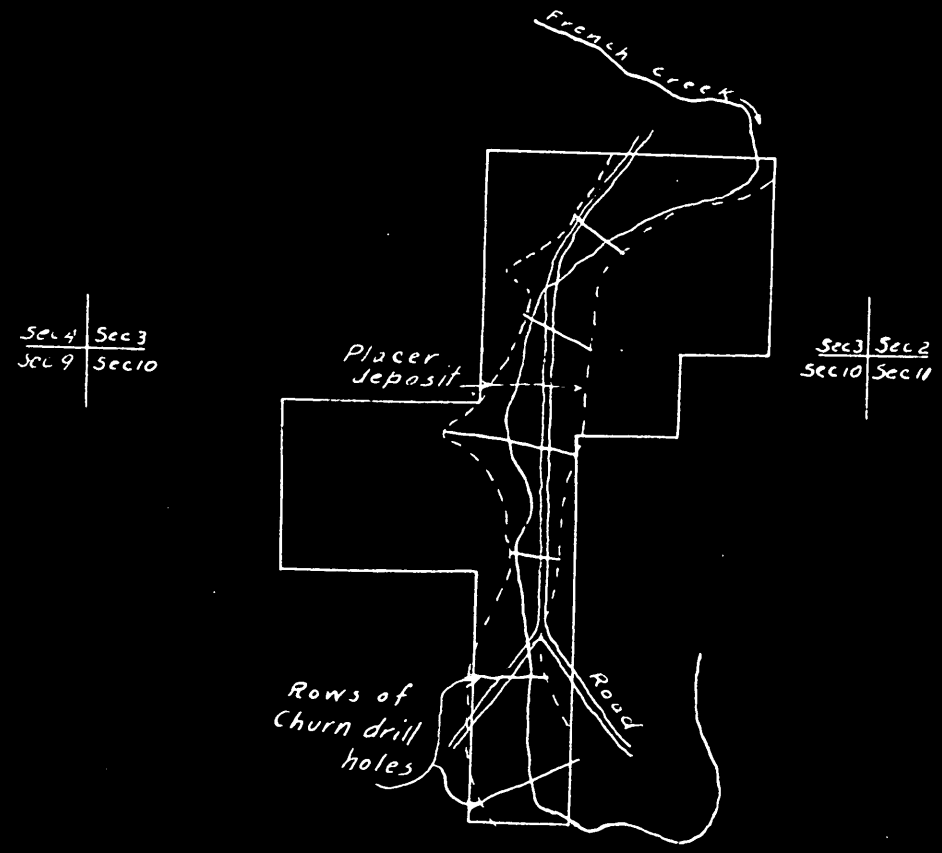
To be rented:

Drill rig @ $0.50 per foot	315.00	
Repairs to drill rig	100.00	415.00

44

Labor and supervision		
1—Sampler @ $1.50/hr., plus 6% for taxes and insurance for 30 days 1/	$381.60	
1—Driller @ $1.50/hr., plus 6% for taxes and insurance for 30 days	381.60	
1—Sample helper @ $1.25/hr., plus 6% for taxes and insurance, for 10 days	106.00	
1—Working supervisor (operator) @ $2.00/hr., plus 6% for taxes and insurance for 30 days	508.80	$1,378.00
Rehabilitation and repairs		
None		
Miscellaneous		
Fuel (gasoline and oil)	195.00	
Sample sacks and supplies	75.00	
Concentrating the samples	500.00	
Analyzing samples	350.00	1,120.00
Estimated total costs		$3,538.00

1/ The sampler, who will be responsible for the collection, preparation, and delivery of samples, will be selected and employed only with the approval of Government engineers.



Sketch of Wiegie Placer Sec 3+10 T4S, R5E B.H.M.

DMA-2011 X.

MF-202

DWA 2011

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Custer, State of South Dakota, described in a certain Exploration Project Contract dated _____, 195__, between R. H. McHenry, Buffalo, Wyoming, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated January 18, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 8th day of September, 1951

Carl L. Wiehe

Carl L. Wiehe

B. A. Gira

B. A. Gira

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

Fred Schermer By Carl L. Wiehe

Fred Schermer - Power of Attorney to Carl L. Wiehe

3/12
extra copy of Contract
for Mr Galiher - there
has been mailed.

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2011

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

EXPLORATION LOAN

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

Routing Slip

CODE- 330

To:	~~Minor & Rare Metals~~ Br.	Date	8-29-51
To:	Coordinating Comm MR. ELLIS-RM. 4070	Date	9-20-51
To:	RARE & LIGHT METALS	Date	11-30-51
To:	Legal	Date	1-22-52
To:	ELLIS	Date	1-28-52
To:	MAILS & Files	Date	3/11/52
To:		Date	
To:		Date	
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To:		Date	

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800

Chamber

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

AUG 14 1952

BF

Mr. A. B. Needham
Executive Officer
DMEA Field Team, Region V
2906 Colfax Avenue, South
Minneapolis, Minnesota

Re: Contract No. Idm-E252
Docket No. DMA-2011X
R. H. McHenry

Dear Mr. Needham:

According to our records a final report has been received on the above project for property located at Custer County, South Dakota.

If there are no other obligations to be submitted by the contractor, it would appear that this contract has been finished so far as the financial side is concerned. If so, we would like to release the balance of the money allotted to this account. I shall appreciate your advice on this point.

Sincerely yours,

P.N. 8-14-52

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration and
Audit Division

JLChambers/wb
August 14, 1952

Copy to: Mails & Files
Admr. Reading File
Mr. Chambers

FINAL REPORT

EXPLORATION OF WINGIP GROUP

Columbite-tantalite, cassiterite

DMEA Docket 2011X

Contract Idm E-252

by

J. A. Redden, Geologist
U. S. Geological Survey

E. O. Rinyon, Mining Engineer
U. S. Bureau of Mines

1 1952

Reviewed by
DMEA OPERATING COMMITTEE

8-8-52
(date)

Exploration of the Wiegie Group (McHenry Placer), Docket No. DMA 2011X, Contract Idm L-252, Custer County, South Dakota

Exploration of the McHenry placer deposit was undertaken primarily to determine the possibilities of the deposit as an economic source of columbite-tantalite and also other strategic minerals that may be present.

As proposed in the application, the deposit was to be churn drilled, the holes to be 6 inches in diameter and spaced 100 to 150 feet apart along six rows, which were to be at 650 to 750-foot intervals along the section of French Creek shown on the accompanying sketch map.

It was estimated that thirty holes, having an aggregate total depth of 630 feet, would be required to obtain the necessary data for making an accurate estimate of the value and yardage in the deposit. However, after the first few holes were drilled, in the E and C groups, and the samples concentrated, it was evident from the depth of the holes and from the failure to obtain even a trace of columbite-tantalite by panning the concentrates that the deposit could be explored with fewer and shallower holes.

By agreement between the applicant and the field team, one or more holes, as needed, would be drilled along each row, the number of holes depending on the results obtained from the first hole drilled along the row. Location of the first hole was as near as possible to what was considered the center of the main channel of the deposit. The holes sampled are shown on the sketch map.

Churn drilling was started on April 14, 1952. In all 13 holes, varying in depth from 3 feet 10 inches to 16 feet 2 inches and totaling 116.5 feet, were drilled. Fifteen samples were taken. The samples as taken by the applicant were then concentrated and the concentrates analyzed for columbite-tantalite.

Concentration and preparation of the samples was done under the supervision of A. E. McHugh, Associate Professor of the Metallurgy Department of the South Dakota School of Mines and Technology. The procedure in brief is as follows:

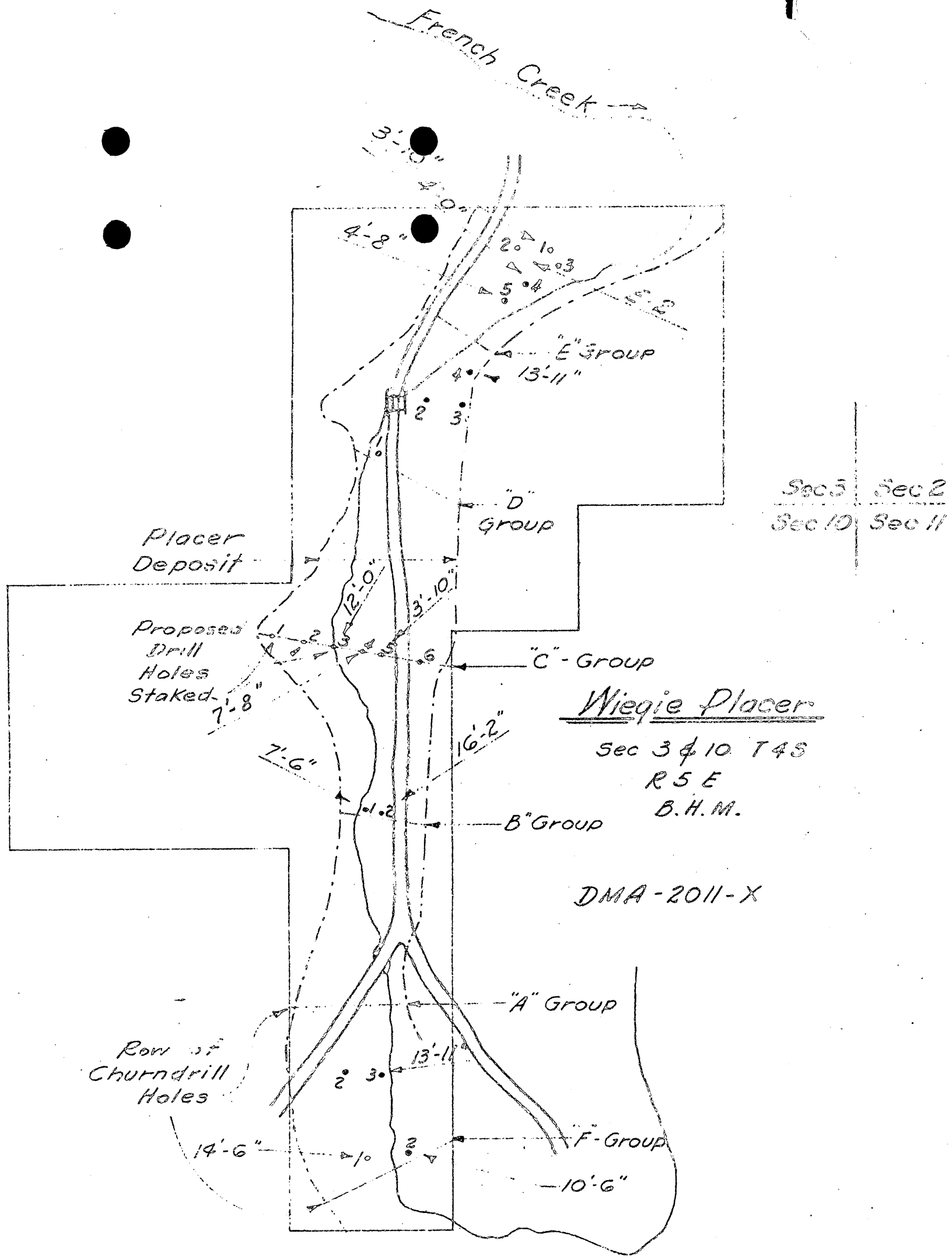
The sample was measured wet for volume, then dried and screened on an 1/8-inch screen. The oversize was retained as reject and visually inspected for columbite-tantalite, as well as other strategic minerals. The minus 1/8-inch material was then concentrated on a laboratory size Wilfley table. A part of the middlings were recirculated in order to make certain that any heavy minerals would be recovered. The concentrates were dried, weighed, and split once with a Jones splitter, one-half was taken for analyses and the other half again split, with one part for the applicant and one for the Bureau. As a precautionary measure , the the tailings were panned occasionally to check for columbite-tantalite. Analyses for columbite-tantalite were by Charles Bentley of the South Dakota School of Mines and Technology Experimental Station. No columbite-tantalite was found in any of the samples.

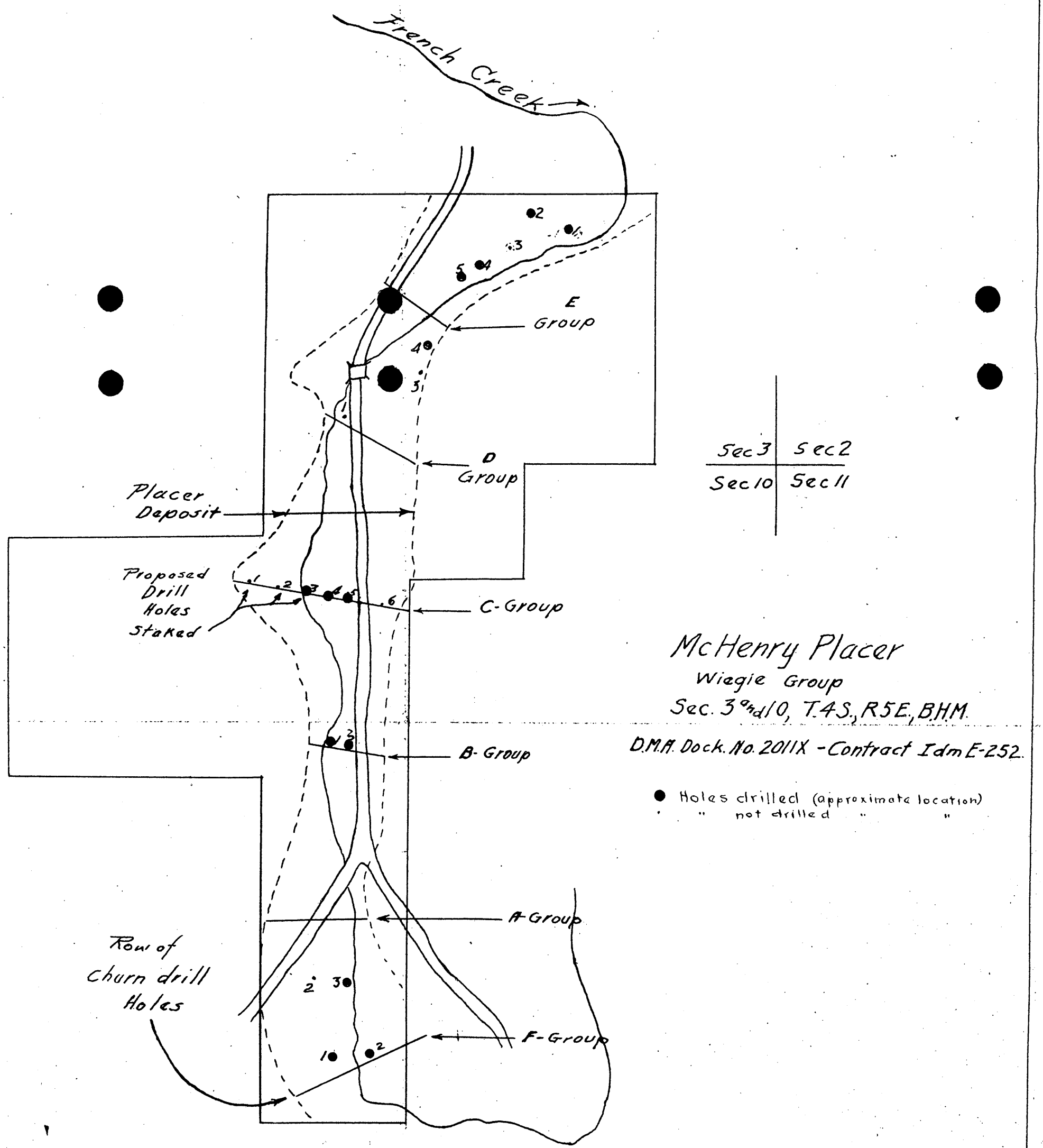
Sampling and other data are given below:

Hole and Sample Number	Hole Depth From	Hole Depth To	Vol. (wet) of sample Cu. Ft.	Weight (Dry) of concentrates Grams	Percent Cb_2O_5-Ta_2O_5
A-3	0	13' 11"	.761	1,370	None
B-1	0	5'	.709	2,613	"
B-1	5'	7' 6"	.929	3,050	"
B-2	0	16' 2"	1.138	1,584	"
C-3	0	12'	.428	1,048	"
C-4	0	5'	.766	1,654	"
C-4	5'	7' 8"	.770	2,763	"
C-5	0	13' 10"	.453	1,388	"
D-4	0	13' 11"	.699	2,710	"
E-1	0	3' 10"	.250	1,361	"
E-2	0	4'	.548	291	"
E-4	0	4'	1.230	2,947	"
E-5	0	4' 8"	.330	946	"
F-1	0	14' 6"	.658	273	"
F-2	0	10' 6"	.743	667	"

In six of the thirteen holes drilled the applicant (driller) was not certain that he had bottomed on bedrock. However, from the character of material recovered at or near the bottom of at least four of the six holes, it was apparent that the holes were very near bedrock, if not on it. In the other seven holes bedrock was reached.

As the analyses showed no trace of columbite-tantalite in any of the samples, it is obvious that no discovery was made. In the opinion of the field team the results have proven conclusively that the deposit is of no economic importance at present or in the forseeable future, and therefore a certificate of discovery is not applicable.


French Creek
3'-0"
4'-0"
4'-8"
"E" Group
13'-11"
"D" Group
Sec 3
Sec 2
Sec 10
Sec 11
Placer Deposit
12'-0"
3'-10"
Proposed Drill Holes Staked
7'-8"
"C" - Group
Wiegie Placer
Sec 3 & 10 T4S
R5E
B.H.M.
7'-6"
16'-2"
"B" Group
DMA-2011-X
"A" Group
Row of Churndrill Holes
13'-11"
14'-6"
"F" - Group
10'-6"


French Creek
E Group
D Group
Placer Deposit
Proposed Drill Holes Staked
C-Group
B-Group
A-Group
F-Group
Row of Churn drill Holes
Sec 3
Sec 2
Sec 10
Sec 11
McHenry Placer
Wiegie Group
Sec. 3 and 10, T.4S., R5E., B.H.M.
D.M.A. Dock. No. 2011X - Contract Idm E-252.
Holes drilled (approximate location)
" not drilled " "

R. H. McHenry, Buffalo, Wyo.
AEC Contract Idm-8258
Docket [illegible]-2011x

Drilling Report

A total of Thirteen (13) test holes were drilled and Fifteen (15) samples were taken for assays.
From the Assays none and a trace of Columbite-Tantalite.

Test # C-3 T.D. 12 Ft.
From 0' to 6" Top Soil
" 3' to 7'6" Gravel & Boulders
" 7'6" to 11' Sand & Gravel
" 11' to 12' Rock

Test # C-4 T.D. 7'8" Ft.
From 0' to 6" Top Soil
" 6" to 2' Rock & Gravel
" 2' to 3' Sand & Rock
" 3' to 4' Sand & Rock
" 4' to 7'8" Sand & Gravel

Test # B-1 T.D. 7'6" Ft.
From 0' to 1' Top Soil
" 1' to 4' Boulders
" 4' to 6' Broken Rock
" 6' to 7'6" Sand & Gravel.

Test # B-2 T.D. 16'2" Ft.
From 0' to 10'6" Silt
" 10'6" to 12' Rock & Gravel
" 12' to 16'2" Fine Sand.

Test # A-3 T.D. 13'11" Ft.
From 0' to 2' Top Soil
" 2' to 5'6" Sand & Gravel
" 5'6" to 12' Sand
" 12' to 13'11" Sand Rock.

Test # F-1 T.D. 14'6" Ft.
From 0' to 2' Top Soil
" 2' to 5'6" Boulders
" 5'6" to 13' Hard Sand
" 13' to 14'6" Mica Shist.

Test # F-2 T.D. 10'6" Ft.
From 0' to 8'2" Top Soil
" 8'2" to 10'6" Sand & Gravel

Test # E-4 T.D. 13'11" Ft.
From 0' to 10' Top Soil
" 10' to 12' Rock & Gravel
" 12' to 13' Sand & Gravel
" 13' to 13'11" Sand.

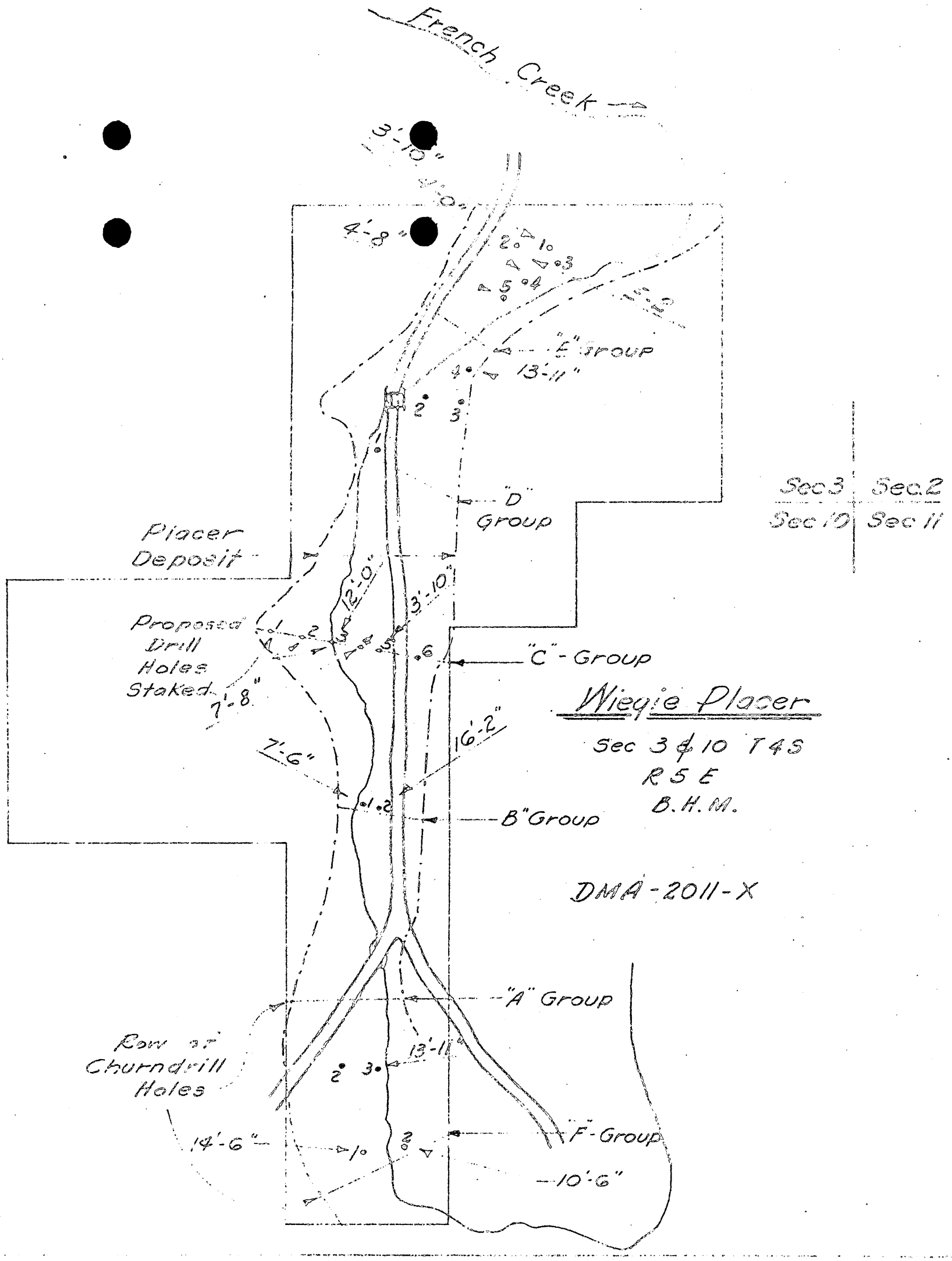
Test # E-3 T.D. 8'
From 0' to 6" Top Soil
" 6" to 3' Sand
" 3' to 8' Sand & Gravel.

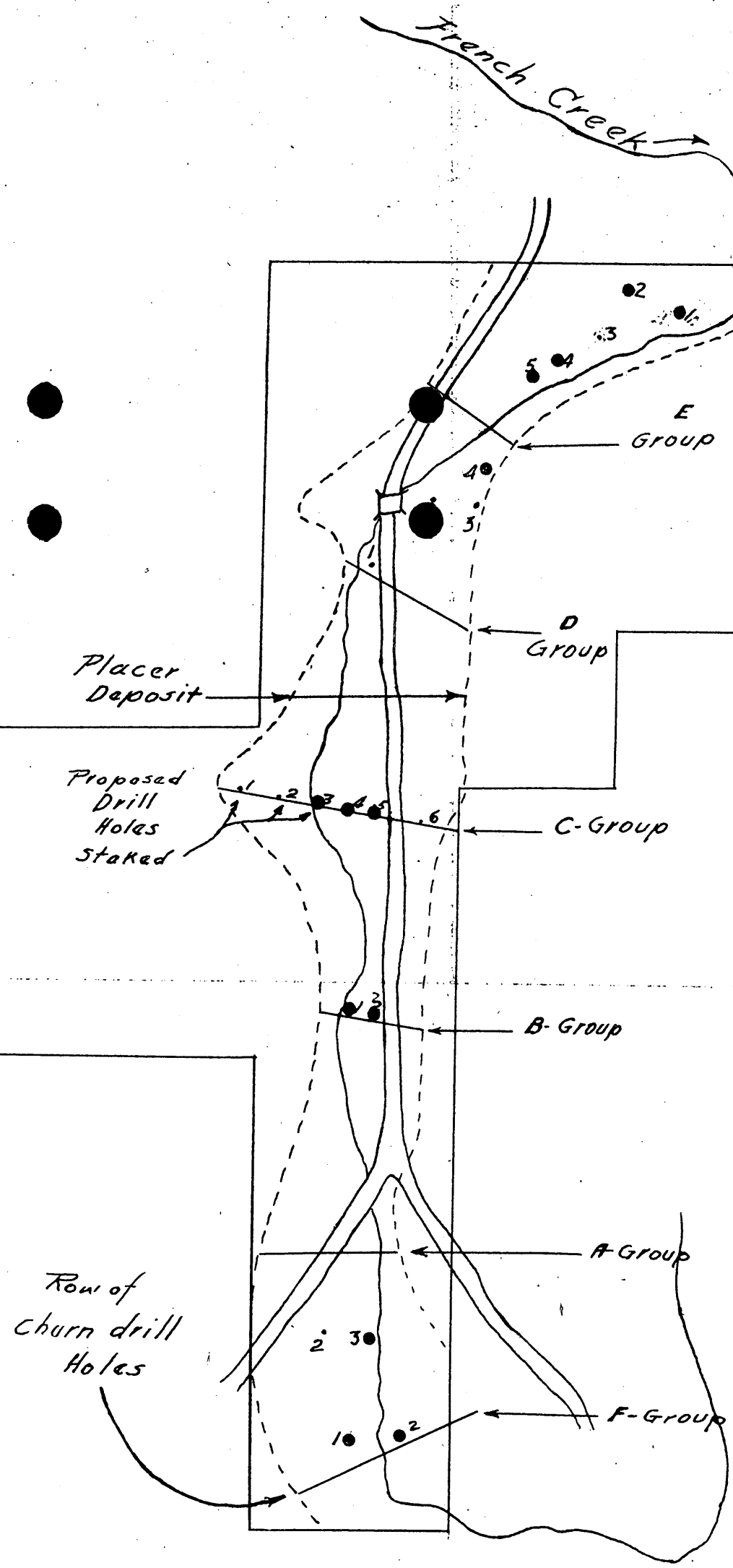
0' to 8' Samples were taken from Holes # B-1 & C-4.

A previous report on test holes # B-3, E-4, B-1 & C-3 were submitted with Form NF-104 on May 19, 1952.

R. H. McHenry
R. H. McHenry

RECEIVED
JUL 26
DEPT. OF INTERIOR
BUREAU OF MINES
REGION V


French Creek
3'-10"
4'-0"
4'-8"
"E" Group
13'-11"
"D" Group
Sec 3
Sec 2
Sec 10
Sec 11
Placer Deposit
12'-0"
3'-10"
Proposed Drill Holes Staked
7'-8"
"C" - Group
Wiegie Placer
Sec 3 & 10 T4S
R5E
B.H.M.
7'-6"
16'-2"
"B" Group
DMA-2011-X
"A" Group
Row of Churndrill Holes
13'-11"
14'-6"
"F" Group
10'-6"



Sec 3	Sec 2
Sec 10	Sec 11

McHenry Placer

Wiegie Group

Sec. 3 and 10, T.4S., R5E., B.H.M.

D.M.A. Dock. No. 2011X - Contract Idm E-252.

● Holes drilled (approximate location)
· " not drilled " "

R.H.McKenny. Buffalo, [illegible]
PWA Contract Idm-[illegible]
Docket [illegible]A-2011x

68

Drilling Report

A total of Thirteen (13) test holes were drilled and Fifteen (15) samples were taken for assays.
From the Assays none had a trace of Columbite-Tantalite.

Test # C-3 T.D.12 Ft.
From 0' to 5' Top Soil
" 6' to 7'6" Gravel & Boulders
" 7'6" to 11' Sand & Gravel
" 11' to 12' Rock

Test # C-2 T.D. 7'6" Ft.
From 0' to 6" Top Soil
" 6" to 2' Rock & Gravel
" 2' to 3' Sand & Rock
" 3' to 4' Sand & Rock
" 4' to 7'6" Sand & Gravel

Test # B-1 T.D. 7'6" Ft.
From 0' to 1' Top Soil
" 1' to 4' Boulders
" 4' to 6' Broken Rock
" 6' to 7'6" Sand & Gravel.

Test # B-[illegible] T.D. 16'2" Ft.
From 0' to 10'6" Silt
" 10'6" to 12' Rock & Gravel
" 12' to 16'2" Fine Sand.

Test # A-3 T.D. 13'11" Ft.
From 0' to 2' Top Soil
" 2' to 5'6" Sand & Gravel
" 5'6" to 12' Sand
" 12' to 13'11" Sand Rock.

Test # 1-1 T.D. 14'6" Ft.
From 0' to 2' Top Soil
" 2' to 5'6" Boulders
" 5'6" to 13' Hard Sand
" 13' to 14'6" Mica Schist.

Test # [illegible]-2 T.D. 10'6" Ft.
From 0' to 6'2" Top Soil
" 6'2" to 10'6" Sand & Gravel

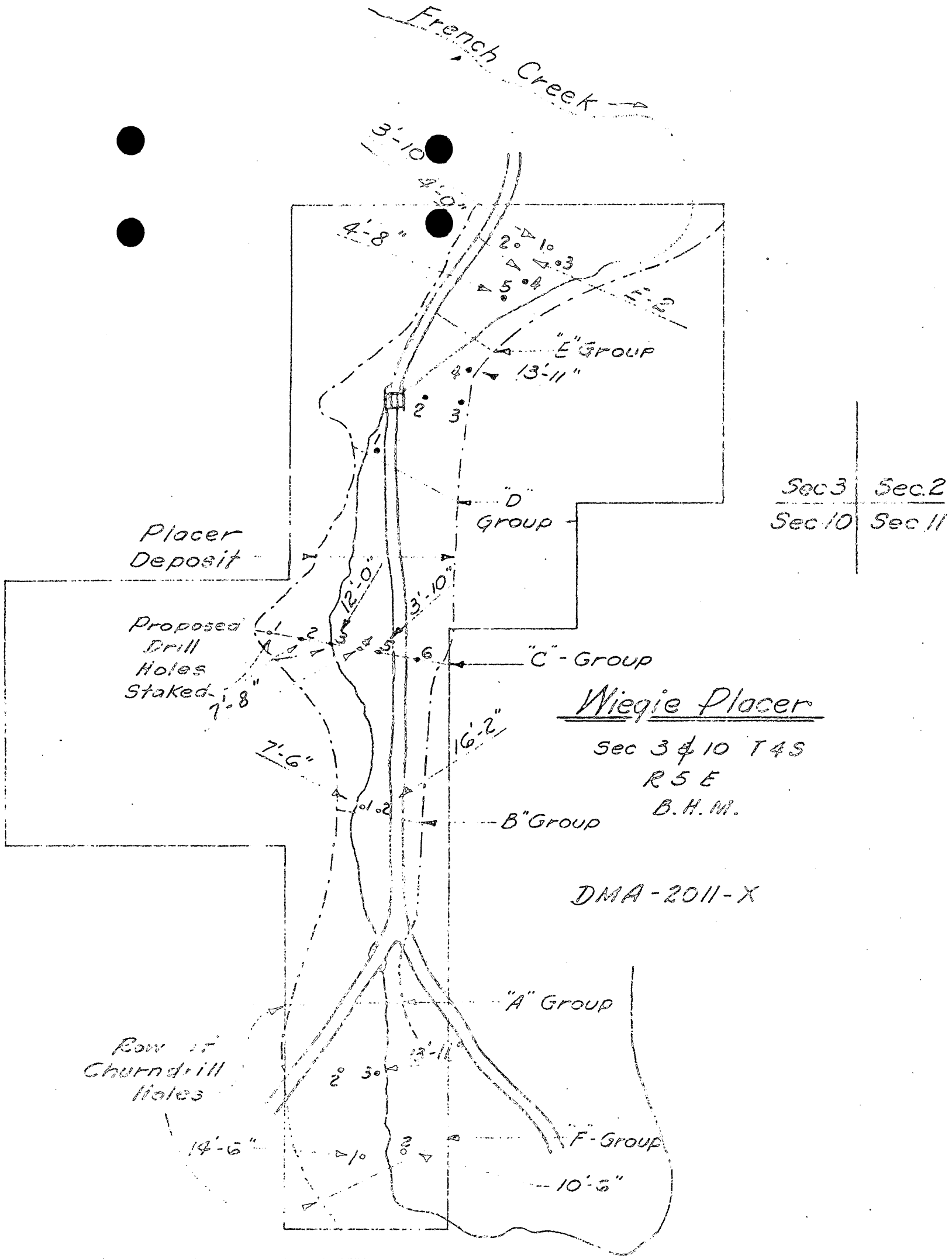
Test # [illegible]-4 T.D. 13'11" Ft.
From 0' to 10' Top Soil
" 10' to 12' Rock & Gravel
" 12' to 13' Sand & Gravel
" 13' to 13'11" Sand.

Test # 1-[illegible] T.D. 8'
From 0' to 6' Top Soil
" 6' to 3' Sand
" 3' to 4' Sand & Gravel.

0' to 5' Samples were taken from holes [illegible]-1 & C-4.

A previous report on test holes [illegible]-1 & C-3 were submitted in form WP-104 on May [illegible].

R H McKenny
R. H. McKenny.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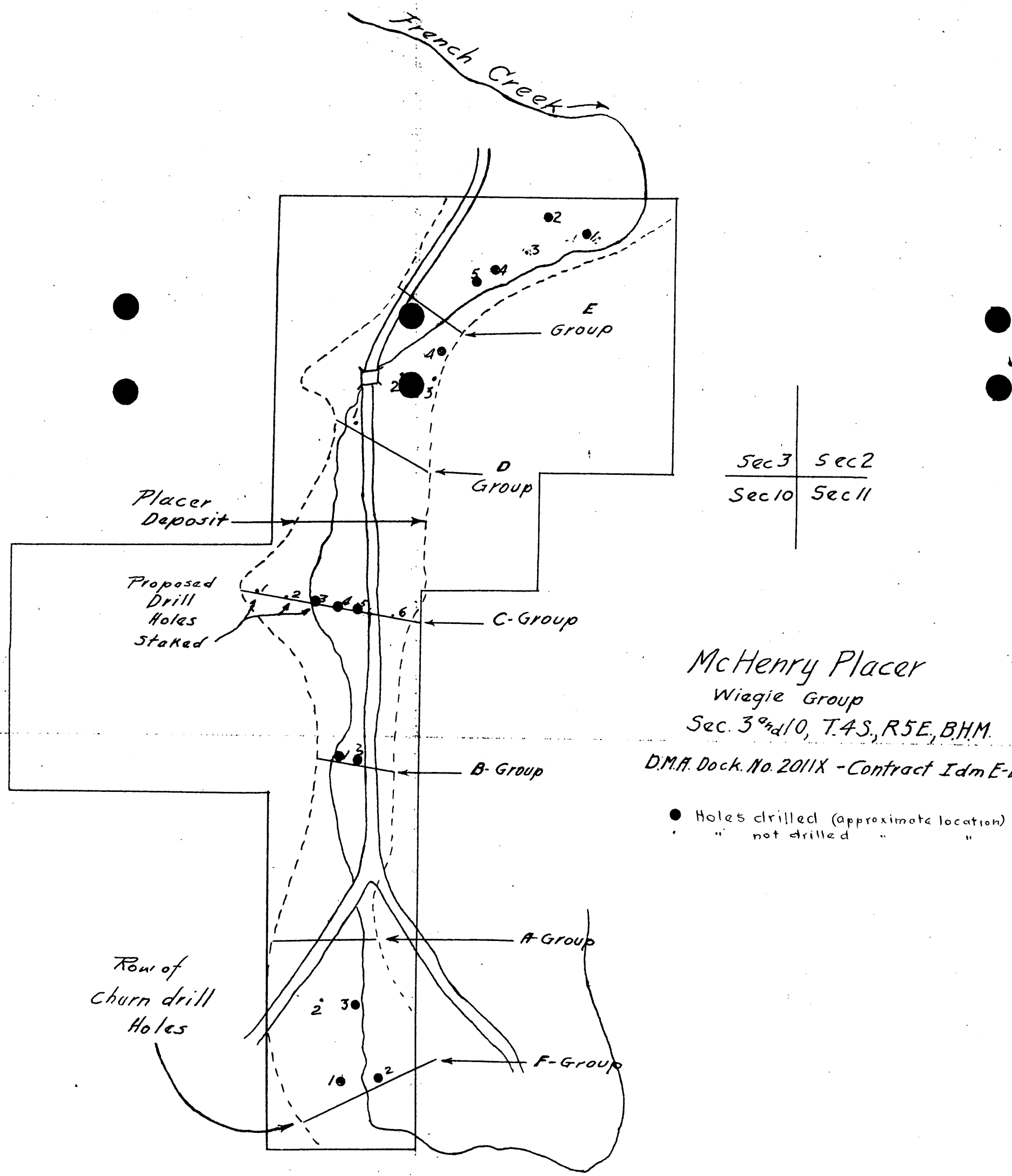
French Creek
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Placer Deposit
Proposed Drill Holes Staked
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Row of Churn drill Holes
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Sec 2
Sec 10
Sec 11
McHenry Placer
Wiegie Group
Sec. 3 and 10, T.4S., R5E, B.H.M.
D.M.A. Dock. No. 2011X - Contract Idm E-252.
Holes drilled (approximate location)
" not drilled " "

R.H.McHenry, Buffalo
DMEA Contract Idm-8252
Docket DMA-2011x

Drilling Report

A total of Thirteen (13) test holes were drilled and Fifteen (15) samples were taken for assays.
From the Assays none had a trace of Columbite-Tantalite.

Test # C-3 T.D.12 Ft.
From 0' to 6' Top Soil
" 6' to 7'6" Gravel & Boulders
" 7'6" to 11' Sand & Gravel
" 11' to 12' Rock

Test # C-4 T.D. 7'8" Ft.
From 0' to 6" Top Soil
" 6" to 2' Rock & Gravel
" 2' to 3' Sand & Rock
" 3' to 4' Sand & Rock
" 4' to 7'8" Sand & Gravel

Test # B-1 T.D. 7'6" Ft.
From 0' to 1' Top Soil
" 1' to 4' Boulders
" 4' to 6' Broken Rock
" 6' to 7'6" Sand & Gravel.

Test # B-2 T.D. 16'2" Ft.
From 0' to 10'6" Silt
" 10'6" to 12' Rock & Gravel
" 12' to 16'2" Fine Sand.

Test # A-5 T.D. 13'11" Ft.
From 0' to 2' Top Soil
" 2' to 5'6" Sand & Gravel
" 5'6" to 12' Sand
" 12' to 13'11" Sand Rock.

Test # F-1 T.D. 14'6" Ft.
From 0' to 2' Top Soil
" 2' to 5'6" Boulders
" 5'6" to 13' Hard Sand
" 13' to 14'6" Mica Shist.

Test # E-2 T.D. 10'6" Ft.
From 0' to 8'2" Top Soil
" 8'2" to 10'6" Sand & Gravel

Test # D-4 T.D. 13'11" Ft.
From 0' to 10' Top Soil
" 10' to 12' Rock & Gravel
" 12' to 13' Sand & Gravel
" 13' to 13'11" Sand.

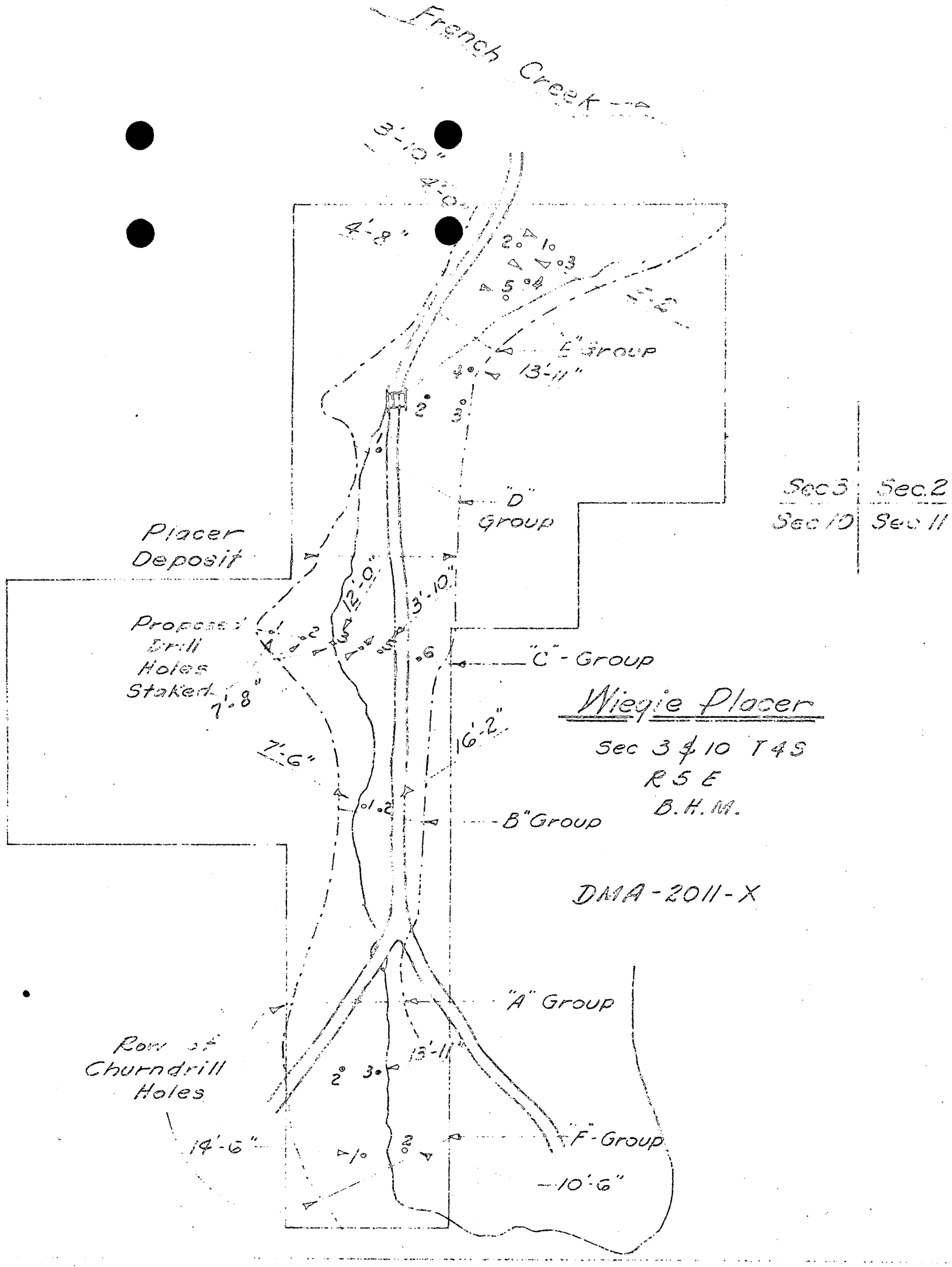
Test # E-3 T.D. 4'
From 0' to 6" Top Soil
" 6" to 3' Sand
" 3' to 4' Sand & Gravel.

0' to 6' Samples were taken from Holes # B-1 & C-4.

A previous report on test holes # A-5, E-4, F-1 & C-3 were submitted with form MF-104 on May 15, 1952.

R.H. McHenry

RECEIVED
JUL 26 1982
BUREAU OF MINES
MINNEAPOLIS, MINN.
REGION V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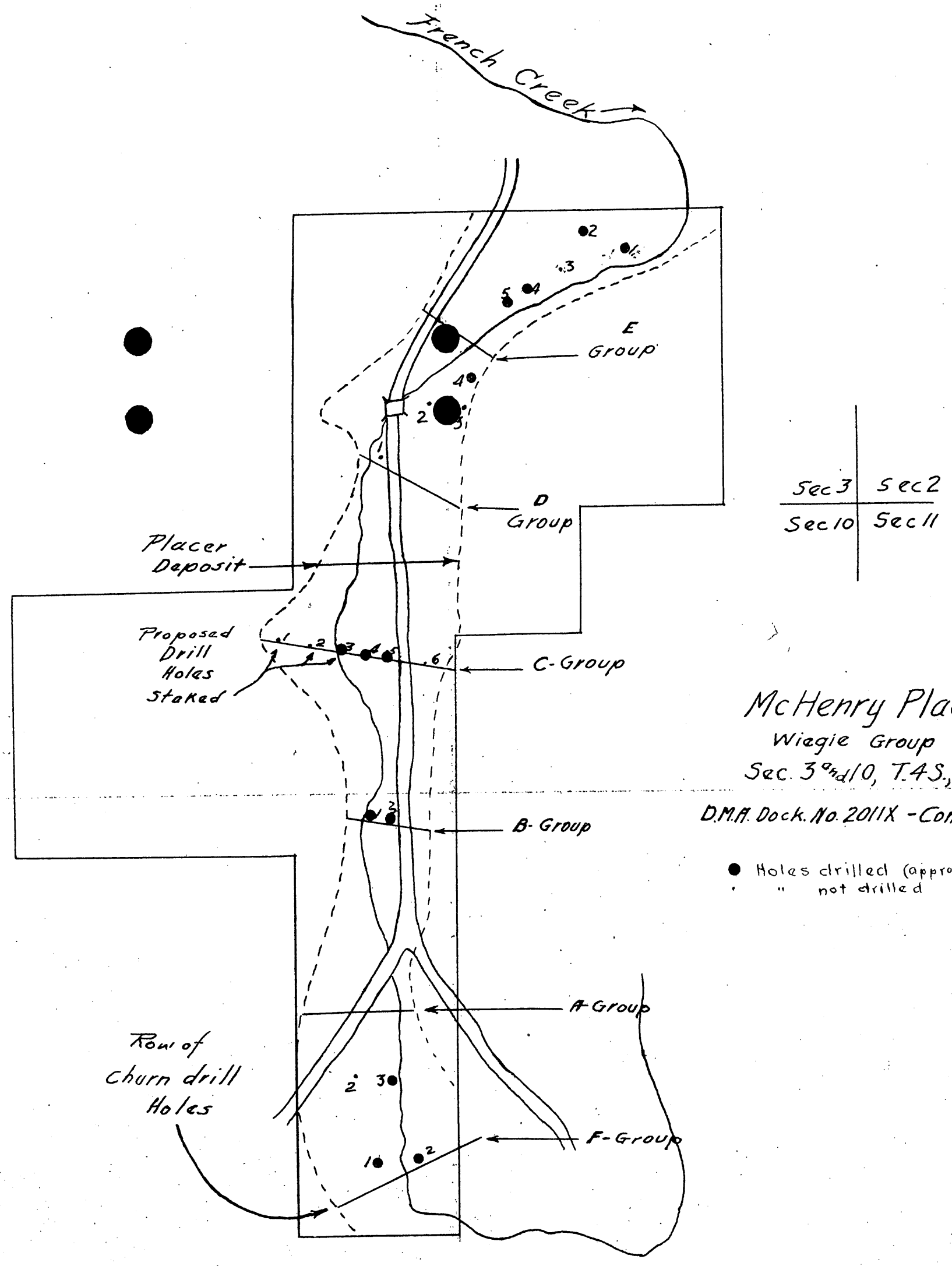
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McHenry Placer
Wiegie Group
Sec. 3 and 10, T.4S., R5E., B.H.M.
D.M.A. Dock. No. 2011X - Contract Idm E-252.
● Holes drilled (approximate location)
• " not drilled " "

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

June 9, 1952

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D.C.

From: Executive Officer, Field Team, Region V

Subject: Operator's Monthly Progress Report April and May 1952
Docket DMA-2011x, Contract Idm-E252
R. H. McHenry (Wiegie Group)

Here are two copies of the subject report, as processed for payment, for your files.

A. B. Needham
Executive Officer
Field Team, Region V

Attachment

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 11 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

June 9, 1952

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D.C.

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A. B. Needham
Executive Officer
Field Team, Region V

Attachment

ABNeedham:mg

cc: Region V
Dutton
files
df

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

May 19, 1952

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Amendment No. 2 - Docket DMEA-2011x, Contract Idm-E252
R. H. McHenry

Here are the original and two copies of the subject amendment and justification for same.

One copy of the amendment has been retained by this office, one copy is being sent to the Regional fiscal section, one to the operator, and one to our Rapid City office.

A. B. Needham
Executive Officer
Field Team, Region V

Attachments 3

ABNeedham:dt
cc Dutton
Region V
files
df

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
MAY 21 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

May 6, 1952

Mr. R. H. McHenry
Buffalo, Wyoming

Dear Mr. McHenry:

Reference is made to your DMEA Contract Idm-E252, Docket DMA-2011x, for exploration of the Wiggie property in South Dakota.

This office has been directed, by way of Circular 19 issued by the Washington office of DMEA, to inform all operators of exploration projects that it will be necessary to support the original of the monthly reports (Form MF-104) with documentary proof of costs. Such proof shall consist of the original invoices (or certified copies where originals are not available), certified transcripts of payrolls, purchase orders, purchase contracts, and distribution statements (for costs distributed on a pro rata basis to the projects). The certification required is merely "Certified true copy (or transcript)", followed by the operator's signature.

Effective date of submitting such documentary support of costs is May 1, 1952. Therefore, all monthly reports submitted subsequent to that date shall include the supporting material. In the future, please submit five copies of Form MF-104.

If you are in doubt as to procedures, please feel free to contact our Rapid City office.

Sincerely yours,

Department of the Interior
Defense Minerals Exploration
Received
MAY 8 1952

A. B. Needham
Executive Officer
Field Team, Region V

:BNeedhamdt
cc Dutton
Mullen
Madden
Mill
DMEA (Wash) 2
Region V
Files
df

BL

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

[redacted]
Region V
2905 Colfax Avenue South
Minneapolis 8, Minnesota

May 6, 1952

Mr. R. H. McHenry
Buffalo, Wyoming

Dear Mr. McHenry:

Reference is made to your DMEA Contract Idm-N25P, Docket DMA-2011x, for exploration of the Miegis property in South Dakota.

This office has been directed, by way of Circular 19 issued by the Washington office of DMEA, to inform all operators of exploration projects that it will be necessary to support the original of the monthly reports (Form MP-104) with documentary proof of costs. Such proof shall consist of the original invoices (or certified copies where originals are not available), certified transcripts of payrolls, purchase orders, purchase contracts, and distribution statements (for costs distributed on a pro rata basis to the projects). The certification required is merely "Certified true copy (or transcript)", followed by the operator's signature.

Effective date of submitting such documentary support of costs is May 1, 1952. Therefore, all monthly reports submitted subsequent to that date shall include the supporting material. In the future, please submit five copies of Form MP-104.

If you are in doubt as to procedures, please feel free to contact our Rapid City office.

Sincerely yours,

Department of the Interior
Defense Minerals Exploration Administration
Received
MAY 8 1952

A. B. Needham
Executive Officer
Field Team, Region V

ABNeedham:dt
cc Dutton
Mullen
Sudden
Hill
DMEA (Wash) 2
Region V
files
df

Taken from Memo. 4/3/52 from Executive Officer, Region V to Operating Committee; Status of projects in re. to discoveries.

Other projects have not progressed far enough to make a determination as yet. They are such dockets as 812x-a, 1813x, 1551x, 1812x, 2073x, 2011x, and 2078x.

The foregoing is the status of all projects to April 1, 1952.

OFFICE OF THE ADMINISTRATOR

Folder

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

March 6, 1952

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA-2011x, Contract Idm-E252
R. H. McHenry

Here are the original and three copies of the subject contract which the operator has just signed.

Because of the delay in consummating the deal, starting date had to be extended from March 5 to April 5, 1952, by amendment No. 1 attached to contract.

A. B. Needham
Executive Officer
Field Team, Region V

Attachments

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 10 1952

700

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

Mr. Ell

FI Knouse
Ellis
Needleman
Norton

FEB 5 - 1952

Mr. A. E. Needham
Executive Officer, Region V
DMEA Field Team
2903 Colfax Ave., South
Minneapolis 8, Minnesota

Re: Docket No. DMA-2011X
Columbite, Tantalite & Cassiterite
A. H. McCleary
Cliffie Group Claims - South Dakota
Exploration Project Contract

Dear Mr. Needham:

Enclosed are the original and five copies of the referenced contract which have been signed by the Government, together with attachments, Exhibit "A" (two pages) one map, and one Landlord's Subordination Agreement.

If the terms and conditions of this contract meet with the approval of the operator, the original and all copies are to be signed by the official authorized to sign the contract. Upon obtaining the signature to the contract the copy marked "Operator's Copy" is to be given to the operator and the copy marked "Field Team's Copy" is to be retained by your office, and the original and three copies are to be returned to this office.

If any part of this contract does not meet with the approval of the operator, the original and all copies are to be returned to this office together with the proposed changes for consideration.

The original application was for the total amount of $9,590.00, and the final contract is for the amount of $3,538.00 which is the total amount recommended by the Field Team.

Sincerely yours,

2-5-52

(signed) FRANK E. JOHNSON
Chairman, Operating Committee
Defense Minerals Exploration
Administration
FLKnouse/jem 1-28-52
cc to: Adm. Reading File
Docket
Messrs. Needleman, S. Rm. 1347
Norton, J.J. Rm. G-228 G.S.
Ellis
Knouse
Field Team, Reg. V

Enclosures

Concurred:
J. H. Hedges
Member, Bureau of Mines

Dwight M. Lemmon
Member, Geological Survey

IN REPLY REFER TO:

G-MD-JJN

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

December 18, 1951

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMA-2011X.

To: Lawrence Houk, Defense Minerals Exploration Administration
From: J. J. Norton
Commodities: Cb, Ta, Sn, Av.
Applicant: R. H. McHenry
Location of property: SE of Custer, South Dakota
Field team's recommendation: Approve exploration by 6 rows of churn drill holes, 3 to 5 holes in each row.

Comments: 1. Exhibit A indicates that U. S. Bureau of Mines will concentrate the samples, and presumably will do the analytical work also. At least no provision is made for money for anyone else to do this work.

2. Description of location, second paragraph on page 2, is ambiguous. It means that the route from the site of the project to Custer is to travel north on the gravel road, then west on U. S. 16.

3. I visited the site of this project in October, 1951, but I don't believe I can supply any worthwhile data that is not in the field team report.

ACTION SUGGESTED: Follow field team's recommendations.

J. J. Norton

J. J. Norton

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

~~WASHINGTON, D.C.~~

Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

Reviewed by Dmea Com. Operating 11/28/51 SHB

November 19, 1951

Memorandum

To: Coordinating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region V

Subject: Docket DMA-2011x, R. H. McHenry
Custer, South Dakota

Returned is the subject docket application, together with review of application and other supporting data, and four copies of the field team report on the subject application, which recommends the project as feasible.

It should be noted, however, that the proposed method of sampling has been changed. This is in accord with the approval of the applicant.

A. B. Needham, Executive Officer
DMEA Field Team
Region V

Attachments

NOV 23 9 25 AM '51
DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION V

DMA-2011X

Wiegie Group, Custer District

Custer County, South Dakota

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.
NOV 23 9 25 AM '51

Glen Walker, Mining Engineer
U. S. Bureau of Mines

J. A. Redden, Geologist
U. S. Geological Survey

November 15, 1951

DEFENSE MINERALS ADMINISTRATION
Report of Field Examination

by

Glen Walker, Mining Engineer
U. S. Bureau of Mines

J. A. Redden, Geologist
U. S. Geological Survey

Docket No.: DMA-2011X
Property: Wiegie Group
Applicant: R. H. McHenry
Commodity: Columbite-tantalite, gold, tin

Conclusions and Recommendations

This placer appears worthy of some exploration because of the geologic probabilities. Two samples were panned with negative results, but they are not considered indicative because of their location. An attempt has been made to learn something of the results of earlier prospecting in the general area. The report of Newton and Jenney makes very little mention of activity and much less of results obtained in 1875-76. The nearest placer workings are 3½ to 5 miles upstream from the subject property. One operator in this district claims the amount of heavy dark minerals caught was considerable; however, he wasted them as his primary effort in 1936 was for gold.

It is recommended that the exploration, as outlined in the application, be modified to include 21 churn drill holes instead of the single trench. (See map.)

Columbite-tantalite and cassiterite are minerals for which the government participates 90 percent in the cost of their discovery, hence are of high strategic importance.

The geologic probability of making a discovery can be indicated by the fact that the present drainage basin includes numerous pegmatites that are partly eroded; also, no doubt, a considerably larger number of these deposits have been totally removed and redeposited in detrital material. South Dakota pegmatites are known to contain varying but small amounts of columbite-tantalite and cassiterite.

No manpower problem is anticipated because only three men are to be employed other than the applicant.

The applicant has secured a churn drill rig on a rental basis. Supplies and repairs for the machinery can be readily obtained in Custer, about 5 miles distant by good gravel and tarvia roads.

The project is easily accessible to Custer, county seat and rail point, by traveling about 2 miles north on a good gravelled road and west 3 miles on U. S. highway 16.

Power for the project will be furnished by gasoline, which will be delivered in barrels. There is ample water for the exploration and also for the mining operation, if it is feasible.

The applicant is an earth-moving and ditching contractor with several years experience. It is felt that his background is sufficient for this operation.

Exhibit A

The exploration will consist of six rows of 6-inch churn drill holes totaling 630 feet. The holes, 3 to 5 per row, will be 100 to 150 feet apart. Rows of holes will extend across the creek channel and will be at intervals of 650 to 750 feet. In each row one hole, designated by the Bureau of Mines, will be sampled at 5-foot intervals; from the remaining holes only one sample will be taken. A log of each hole, including measurements before and after the casing is driven, will be kept by the operator. The samples will be conveyed in suitable containers to the U.S.G.S. office in Custer, South Dakota by the operator (applicant). The U. S. Bureau of Mines will take the samples to the Rapid City metallurgical laboratory and concentrate them by gravity methods. The concentrate from each sample will be weighed and split into samples for analysis. One split will be sent for analysis; the remainder will be held to settle any controversy. It is estimated the project will require 30 working shifts to complete.

630 feet churn drilling and sampling @ $5.617 per ft.	$ 3,538.00
Total for project	$ 3,538.00

Exhibit B

Not applicable.

Exhibit C

60 feet 6-inch casing (threaded in 5-foot lengths) @ $5.00 per foot	$ 300.00
1 - 4" Hendershot sand pump	325.00
Rental on drill rig @ $0.50 per ft.	315.00
Repairs on drill rig	100.00
Fuel (gasoline and oil)	195.00
Sample sacks and supplies	75.00
Analyzing samples	350.00
Concentrating	500.00
Total	$ 2,160.00

Exhibit D

*1 - sampler @ $1.50 per hour, plus 6% for taxes and insurance, for 30 days	$ 381.60
1 - driller @ $1.50 per hour, plus 6% for taxes and insurance, for 30 days	381.60
1 - concentrate helper @ $1.25 per hour, plus 6% for taxes and insurance, for 10 days	106.00
1 - working supervisor (applicant) @ $2.00 per hour, plus 6% for taxes and insurance, for 30 days	508.80
Total	$1,378.00

* The sampler, who will be responsible for the collection, preparation, and delivery of samples, will be selected and employed only with the approval of Government engineers.

Exhibit E

Not applicable.

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION V

DMA-[illegible]

Wiegle Group, Custer District

Custer County, South Dakota

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
NOV 23 9 25 AM '51

Glen Walker, Mining Engineer
U. S. Bureau of Mines

J. A. Redden, Geologist
U. S. Geological Survey

November 15, 1951

DEFENSE MINERALS ADMINISTRATION
Report of Field Examination

by

Glen Walker, Mining Engineer
U. S. Bureau of Mines

J. A. Redden, Geologist
U. S. Geological Survey

Docket No.: DMA-2011X
Property: Wiegle Group
Applicant: R. H. McKenry
Commodity: Columbite-tantalite, gold, tin

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Columbite-tantalite and cassiterite are minerals for which the government participates 90 percent in the cost of their discovery, hence are of high strategic importance.

The geologic probability of making a discovery can be indicated by the fact that the present drainage basin includes numerous pegmatites that are partly eroded; also, no doubt, a considerably larger number of these deposits have been totally removed and redeposited in detrital material. South Dakota pegmatites are known to contain varying but small amounts of columbite-tantalite and cassiterite.

No manpower problem is anticipated because only three men are to be employed other than the applicant.

[illegible]
Report on [illegible]

To

[illegible]
U. S. Bureau of [illegible]

[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Conclusions and Recommendations

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

The applicant has secured a churn drill rig on a rental basis. Supplies and repairs for the machinery can be readily obtained in Custer, about 8 miles distant by good gravel and tarvia roads.

The project is easily accessible to Custer, county seat and rail point, by traveling about 2 miles north on a good gravelled road and west 3 miles on U. S. highway 16.

Power for the project will be furnished by gasoline, which will be delivered in barrels. There is ample water for the exploration and also for the mining operation, if it is feasible.

The applicant is an earth-moving and ditching contractor with several years experience. It is felt that his background is sufficient for this operation.

Exhibit A

The exploration will consist of six rows of 6-inch churn drill holes totaling 650 feet. The holes, 3 to 5 per row, will be 100 to 150 feet apart. Rows of holes will extend across the creek channel and will be at intervals of 650 to 750 feet. In each row one hole, designated by the Bureau of Mines, will be sampled at 5-foot intervals; from the remaining holes only one sample will be taken. A log of each hole, including measurements before and after the casing is driven, will be kept by the operator. The samples will be conveyed in suitable containers to the U.S.G.S. office in Custer, South Dakota by the operator (applicant). The U. S. Bureau of Mines will take the samples to the Rapid City metallurgical laboratory and concentrate them by gravity methods. The concentrate from each sample will be weighed and split into samples for analysis. One split will be sent for analysis; the remainder will be held to settle any controversy. It is estimated the project will require 20 working shifts to complete.

650 feet churn drilling and sampling @ $5.617 per ft.	$ 3,650.00
Total for project	$ 3,650.00

Exhibit B

Not applicable.

Exhibit C

60 feet 6-inch casing (threaded in 5-foot lengths) @ $5.00 per foot	$ 300.00
1 - 4" Hendershot sand pump	$25.00
Rental on drill rig @ $0.50 per ft.	315.00
Repairs on drill rig	100.00
Fuel (gasoline and oil)	195.00
Sample sacks and supplies	75.00
Analyzing samples	350.00
Concentrating	600.00
Total	$ 3,150.00

Exhibit D

1 - sampler @ $1.80 per hour, plus 6% for taxes and insurance, for 30 days	$ 381.60
1 - driller @ $1.80 per hour, plus 6% for taxes and insurance, for 30 days	381.60
1 - concentrate helper @ $1.25 per hour, plus 6% for taxes and insurance, for 10 days	106.00
1 - working supervisor (applicant) @ $2.50 per hour, plus 6% for taxes and insurance, for 30 days	508.80
Total	$1,378.00

* The sampler, who will be responsible for the collection, preparation, and delivery of samples, will be selected and employed only with the approval of Government engineers.

Exhibit E

Not applicable.

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 2011X

Commodity COLUMBITE

Total Amount $9,590.00

Govt. Participation $8631.00

1. Name and Address of Applicant R. H. McHENRY
BUFFALO, WYOMING

2. Location of Property CUSTER COUNTY, SOUTH DAKOTA

3. Mineral or metal COLUMBITE, ETAL Is it listed in Section 9 of MO-5? YES

If not, application will be rejected.

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

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

a) Good

b) Poor

c) None

d) Don't know—needs field examination ✓

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

5. Is the applicant's right to the property clearly stated? YES, BUT LEASE TERMS TOO INEXACT
(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? NOT GIVEN IN LEASE, NOR ANY RIGHT TO MINE, TELL APPLICANT TO CORRECT THIS.

*question numbers are those of MF-103

7. Are subordination agreements necessary? YES, IF LEASE IS CLARIFIED

a) MF-201? _____

b) MF-202 ✓ PROVIDED LEASE IS REFORMED SO CONTRACT COULD BE MADE.

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 ? CAN CAISSON WORK BE DONE ?
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* YES

d) Water (question 13)* YES

e) Power (question 13)* YES

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

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

Is a field check needed on this point? YES

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

a) Is the project adequately described? NO

If not, are there sufficient data given so that you can describe the project? NO If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? NO – HOW MUCH GROUND IS EXCLUDED IN PICNIC GROUND?

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? No If so, attach a draft.

e) Are the cost estimates reasonable? ?

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? DON'T KNOW

d) Is a field check needed? YES

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

a) Are there sufficient data? ?

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

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

d) Are the proposed wages and salaries reasonable? ?

e) Is a field check needed? YES

14. Exhibit E (question 23-c)*

a) Is it applicable? NO

b) Sufficient data?

c) Reasonable?

d) Field check needed? NO

15. In your judgment, can the proposed work be done in the proposed time? ?

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? SEE ATTACHED MEMO, 9/17/51, BY J. J. NORTON - IF EXPLORATION IS WARRANTED, HAVE APPLICANT PROVIDE CLEAR & COMPLETE MAPS & EXHIBITS IN SEXTUPLICATE FOR CONTRACT. IN WHAT TOWNSHIP & RANGE ARE CLAIMS? A LEASE GIVING RIGHT TO MINE FOR SOME TIME IS NECESSARY.

Reviewed by: E R Gordon

Date 9/19/51

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

IN REPLY REFER TO:

G-MD-JJN

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

September 17, 1951

Memorandum

To: Weston Bourret, Defense Minerals Administration

From: J. J. Norton, U. S. Geological Survey

Subject: Application DMA-2011 from R. H. McHenry, Buffalo, Wyoming, for a $9,590 project to explore placer grounds in the Black Hills.

Application DMA-2011, from R. H. McHenry, Buffalo, Wyoming, is for a $9,590 exploration project on a 160 acre tract of placer ground in Custer County, South Dakota, that is suspected of containing gold, columbite-tantalite, tin, and garnet. Exploration for columbite-tantalite in some of the placer gravels in the southern Black Hills is clearly warranted, and the applicant's property seems to be as good a place as any to do some of this work. I recommend that this application be sent to the field team to determine what exploratory work, if any, is warranted on this property. In order to evaluate this proposal adequately, the field team will need to be told how much the Government expects to pay for columbite-tantalite concentrates. *

I have discussed the proposed exploration with Mr. Waskey of the Defense Minerals Administration and as a result have become convinced that this prospect could be best explored by about 15 shafts to bedrock along three, four, or five lines that are normal to the long direction of the property. The shafts should be sunk by the caisson method in order to obtain good samples. Mr. Waskey tells me that a Rex Speed Prime pump or a Jaeger pump would be suitable to dewater such prospect shafts. The total cost of this work probably would not exceed $4,000.

In the event that exploration shows that the property does not contain enough columbite-tantalite to be worth further consideration, then future applicants for this sort of work in nearby placer grounds should be expected to dig the first shaft themselves to show that their land is worth further exploration at Government expense.

J J Norton

J. J. Norton

* Present price for columbite-tantalite concentrates containing 60% combined pentoxides ($Cb_2O_5 + Ta_2O_5$) ranges from $1.25 to $2.00 per pound of contained pentoxides. We suggest that project be evaluated on the basis of a possible price increase that might double or even treble present value.

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

Mr. L. H. Mahoney
Buffalo, Wyoming

SEP 24 1951

Re: Columbite
DMA docket 2011x

Dear Mr. Mahoney:

Your application, docket 2011x, for an exploration project in the amount of $9,500.00, has been received by the Minor and Rare Metals Branch of the Supply Division.

Before a decision can be reached on your request we find it is necessary to obtain additional information on your property. Your application therefore is being referred to the office of the Executive Officer of DMA field team V, Mr. A. D. Boudreau, 8903 Calfax Avenue, South Minneapolis 8 Minnesota, who will get in touch with you if necessary.

Yours very truly,

SIGNED

Tom Lyon, Director
Supply Division

Everden/mk 9-21-51
cc: Adm. Asst. File
Lyon
Field Team V
Norton, USGS
Note: Gerstenberg, Bur. of Mines
Bourquet
DMA Docket Files

IN REPLY REFER TO:

G-ND-JJN

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

September 17, 1951

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From: J. J. Norton, U. S. Geological Survey

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J. J. Norton

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copy to: DMA files

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 2011

Date received 8-27-51

Participation

R. H. McHenry
Buffalo
Wyoming

Name and address of applicant

Date 8/20/51

FILL IN THIS BLOCK

Date of application August 20, 1951

Estimated cost $ 9,590.00

Mineral or metal Gold, columbite-tantalite ~~tin, garnets.~~

Percentage of Government participation 90%

Location of mine On French Creek five miles ~~south east of Custer.~~

Date of filing MF-100 None filed

DMA Docket Number, if available ~~None~~ 2011

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.

R. H. McHenry (Name of company)

By R H McHenry (Signature of authorized official)

8/20/51 (Date)

R. H. McHenry Owner (Title)

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

*Same as footnote on page 1.

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

ADDENDA TO FORM MF-103

R. H. McHenry

Buffalo, Wyoming

THE APPLICANT

1. Individual.

2. Not a partnership.

3. Not a corporation.

4. (a) Four years of contracting (earth moving) experience, five years association with placer mining operation.

   (b) The owners of the land, Carl L. Siehe and B. A. Gira have had a life time of experience in mining operations, and will assist in carrying out the proposed exploration.

5. Lessee.

6. Not the owner but owners state that there are no claims, liens, or encumbrances of any character against the property.

7. Copy of lease attached to this application.

8. Assets -- Earth moving equipment ------ $ 14,000.00
   Real Estate ---------- 8,500.00
   Cash on hand ---------- 1,000.00
   Accounts collectable -------- 750.00
   $ 24,250.00

   Liabilities -- Amortized Loan On Home ---------- $ 3,600.00

9. Sufficient to pay my part of exploration.

THE PROPERTY

10. (a) The property consists of 160 acres of placer ground lying along French Creek, containing, by conservative estimate, a minimum of 400,000 and up to approximately 600,000 yards of mineral bearing gravels. The physical position of said gravels being such that the proposed exploration and the subsequent operations to recover the minerals is entirely feasible, according to the experience of the applicant.

ADDENDA TO FORM MF-103

H. H. McHenry

Buffalo, Wyoming

THE PROPERTY

10. (b) The legal description is as follows; Eight claims known as the "Wiegie Group", located by legal sub-division and the particular description follows, No. 1 (Pure Gold) W½ SE¼ SE¼ Sec. 3, No. 2 (Half Muck) E½ SW¼ SE¼ Sec. 3, No. 3 (Long Shot) W½ SW¼ SE¼ Sec. 3, No. 4 (Christmas) N½ NW¼ NE¼ Sec. 10, No. 5 (Happy New Year) S½ N½ NE¼ NW¼ and N½ S½ NE¼ NW¼ Sec 10, No. 6 (Pink Elephant) S½ S½ NE¼ NW¼ and N½ N½ SE¼ NW¼ Sec. 10, No. 7 (Hang Over) S½ N½ NE¼ and NW¼ SW¼ NE¼ Sec. 10, and No. 8 (Resolution) S½ SW¼ NE¼ and NW¼ NW¼ SE¼ Sec. 10, excepting that land enclosed by the Haselrodt Picnic Ground boundry. Said "Wiegie Group" situated on French Creek, approximately five miles south east of Custer.

11. No known former names, present name the Wiegie Group.

12. The property is situated five miles south east of Custer on French Creek.. The property is reached over three miles of hard surface highway, and two miles of gravel, passable all year. A railroad is located at Custer.

13. French Creek is the source of water supply, and is sufficient for seasonal operations. Power will be self contained Diesel Unit on Back Hoe, and direct connected gas engine on pump.

14. No existing facilities.

15. During testing operations, gravel will be washed in a sluice box and concentrates will be tested for the various mineral contents. Concentrates can be shipped from Custer.

16. (a) Property was formerly reserved for a Ranger Station, changing conditions made this unnecessary, and ground was released for location. No former operations.

(b) Neighboring properties are a ranch and a government reservation for a picnic ground. No operations on either tract.

(c) No private reports or investigations. Metalurgical investigations have consisted of yard tests which have revealed quantities of gold, columbite-tantalite, garnets, with some tin.

17. No former production.

18. Property has not been operated but estimated minimum yardage is 400,000 with a possible 600,000 yards of mineral bearing gravel.

R. H. McHenry

Buffalo, Wyoming

THE PROPERTY

19. The property was originally tested for gold but when it was said that Lincoln Page of the U. S. G. S. had stated that he believed that the gravels would produce the bulk of any columbite-tantalite that would be produced in the Black Hills, and that he believed that they would carrytas much as one pound per yard. It has been also said that Dr. Herman Rinebolt has made a similar statement. After hearing of the above statements, more comprehensive tests were made, and particles of columbite-tantalite were found that could be picked from the pan with the fingers, considering the friable nature of the metal, it is natural to assume that a considerable amount will be found in fine concentrates.

THE EXPLORATION

20. Gold, columbium-tantalum, garnets, and possibly tin.

21. To dig approximately 1,000 feet of trench on a water grade, starting at the creek level at the lower end of property. This would drain and expose the bed-rock. After bed-rock is exposed it is proposed to test the gravel for a distance of about 500 feet along the course of stream, and then to turn at right angles and test the gravels across the entire width of the gravel beds. It is believed that these findings will be sufficient to determine the values in the entire area. Estimated time required to complete testing is three months. If loan is approved in time to permit, it is hoped to complete testing this fall, and, if findings warrant, to assemble a dry land dredge during the winter months so that washing operations can be started early in the spring.

22. The geological basis for the project being that French Creek traverses an area of pegmatite dikes that contain the strategic minerals, and that hand testing has revealed their presense in the gravels.
During past large scale placer operations on French Creek, columbium-tantalum was not of it's present importance, and the only note made of a heavy black metal was that the concentrates were so heavy that it made the clean-up extreamly arduous.
Map of the area is being included with this application.

R. H. McHenry

Buffalo, Wyoming

23. (a) One man to test gravel and to work on sluice box @ $12.00 per day ---------- $ 1,080.00

(b) Supervision to be included in operation of Back Hoe.

(c) None.

(d) None.

(e) None.

(f) None.

(g) Back Hoe @ $80.00 per day, including operator and fuel. ---------- $ 7,200.00

(h) None.

(i) Gasoline pump to operate sluices and transportation of equipment to job. $ 1,310.00

Cost of exploration ---------- $ 9,590.00

24. At the end of three months, the project, it is estimated, will be completed. This would include complete sampling of approximately 1,100 lineal feet of gravel, from top to bed-rock. Project can be completed before the end of the year, if the usually mild Black Hills autumn is enjoyed. A severe cold spell would make operations difficult, but it is the intention to complete testing before the first of the year.

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 2011

Date received 8-27-51

Participation

Name and address of applicant

[illegible]
Buffalo
Wyoming

Date 8/20/51

FILL IN THIS BLOCK

Date of application August 20, 1951

Estimated cost $ 8,500.00

Mineral or metal Gold, colum[illegible] [illegible] tin, [illegible]

Percentage of Government participation 90%

Location of mine [illegible]

Date of filing MF-100 [illegible]

DMA Docket Number, if available 2011

INSTRUCTIONS

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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.

(*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.

[illegible] (Name of company)

By R. T. McQuary (Signature of authorized official)

8/20/51 (Date)

[illegible] (Title)

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

*Same as footnote on page 1.

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

[illegible] TO FORM [illegible]-105

R. H. McHenry

Buffalo, Wyoming

THE APPLICANT

1. Individual.

2. Not a partnership.

3. Not a corporation.

4. (a) Four years of contracting (earth moving) experience, five years association with placer mining operation.

   (b) The owners of the land, Carl L. Aiehe and B. A. Gire have had a life time of experience in mining operations, and will assist in carrying out the proposed exploration.

5. Lessee.

6. Not the owner but owners state that there are no claims, liens, or encumbrances of any character against the property.

7. Copy of [illegible] attached to this application.

8. Assets -- Earth moving equipment ------ $ 14,000.00
   Real state ---------- 8,500.00
   Cash on hand ---------- 1,000.00
   Accounts collectable -------- 750.00
   $ 24,250.00

   Liabilities -- Amortized Loan On Home ---------- $ 3,500.00

9. Sufficient to pay my part of exploration.

THE PROPERTY

10. (a) The property consists of 160 acres of placer ground lying along French Creek, containing, by conservative estimate, a minimum of 400,000 and up to approximately 600,000 yards of mineral bearing gravels. The physical position of said gravels being such that the proposed exploration and the subsequent operations to recover the minerals is entirely feasible, according to the experience of the applicant.

ADDENDA TO FORM MF-103

H. H. McHenry

Buffalo, Wyoming

THE PROPERTY

10. (b) The legal description is as follows; Eight claims known as the "Wiggie Group", located by legal sub-division and the particular description follows, No. 1 (Pure Gold) W½ SE¼ SE¼ Sec. 3, No. 2 (Half Nuck) E½ SE¼ SE¼ Sec. 3, No. 3 (Long Shot) W½ SW¼ SE¼ Sec. 3, No. 4 (Christmas) N½ NW¼ NE¼ Sec. 10, No. 5 (Happy New Year) S½ N½ NE¼ NW¼ and N½ S½ NE¼ NW¼ Sec 10, No. 6 (Pink Elephant) S½ S½ NW¼ NW¼ and N½ N½ SE¼ NW¼ Sec. 10, No. 7 (Hang Over) S½ N½ NE¼ and NW¼ SW¼ NE¼ Sec. 10, and No. 8 (Resolution) S½ N½ NE¼ and NW¼ NW¼ SE¼ Sec. 10, excepting that land enclosed by the Haselrodt Picnic Ground boundry. Said "Wiggie Group" situated on French Creek, approximately five miles south east of Custer.

11. No known former names, present name the Wiggie Group.

12. The property is situated five miles south east of Custer on French Creek.. The property is reached over three miles of hard surface highway, and two miles of gravel, passable all year. A railroad is located at Custer.

13. French Creek is the source of water supply, and is sufficient for seasonal operations. Power will be self contained Diesel Unit on Back Hoe, and direct connected gas engine on pump.

14. No existing facilities.

15. During testing operations, gravel will be washed in a sluice box and concentrates will be tested for the various mineral contents. Concentrates can be shipped from Custer.

16. (a) Property was formerly reserved for a Ranger Station, changing conditions made this unnecessary, and ground was released for location. No former operations.

(b) Neighboring properties are a ranch and a government reservation for a picnic ground. No operations on either tract.

(c) No private reports or investigations. Metalurgical investigations have consisted of yard tests which have revealed quantities of gold, columbite-tantalite, garnets, with some tin.

17. No former production.

18. Property has not been operated but estimated minimum yardage is 400,000 with a possible 800,000 yards of mineral bearing gravel.

R. H. McHenry

Buffalo, Wyoming

THE PROPERTY

19. The property was originally tested for gold but when it was said that Lincoln Page of the U. S. G. S. had stated that he believed that the gravels would produce the bulk of any columbite-tantalite that would be produced in the Black Hills, and they he believed that they would carry as much as one pound per yard. It has been also said that Dr. Herman Rinebolt has made a similar statement. After hearing of the above statements, more comprehensive tests were made, and particles of columbite-tantalite were found that could be picked from the pan with the fingers, considering the friable nature of the metal, it is natural to assume that a considerable amount will be found in fine concentrates.

THE EXPLORATION

20. Gold, columbium-tantalum, garnets, and possibly tin.

21. To dig approximately 1,000 feet of trench on a water grade, starting at the creek level at the lower end of property. This would drain and expose the bed-rock. After bed-rock is exposed it is proposed to test the gravel for a distance of about 500 feet along the course of stream, and then to turn at right angles and test the gravel across the entire width of the gravel beds. It is believed that these findings will be sufficient to determine the values in the entire area. Estimate time required to complete testing is three months. If loan is approved in time to permit, it is hoped to complete testing this fall, and, if findings warrant, to assemble a dry land dredge during the winter months so that washing operations can be started early in the spring.

22. The geological basis for the project being that French Creek traverses an area of pegmatite dikes that contain the strategic minerals, and that hand testing has revealed their presense in the gravels.
During past large scale placer operations on French Creek, columbium-tantalum was not of it's present importance, and the only note made of a heavy black metal was that the concentrates were so heavy that it made the clean-up extreamly arduous.
Map of the area is being included with this application.

R. H. McHenry

Buffalo, Wyoming

23. (a) One man to test gravel and to work on sluice box @ $12.00 per day ---------- $ 1,080.00

(b) Supervision to be included in operation of Back Hoe.

(c) None.

(d) None.

(e) None.

(f) None.

(g) Back Hoe @ $80.00 per day, including operator and fuel. ---------- $ 7,200.00

(h) None.

(i) Gasoline pump to operate sluices and transportation of equipment to job. $ 1,310.00

Cost of exploration ---------- $ 9,590.00

24. At the end of three months, the project, it is estimated, will be completed. This would include complete sampling of approximately 1,100 lineal feet of gravel, from top to bed-rock. Project can be completed before the end of the year, if the usually mild Black Hills autumn is enjoyed. A severe cold spell would make operations difficult, but it is the intention to complete testing before the first of the year.

A G R E E M E N T

THIS AGREEMENT, made and entered into this 18th day of January, 1951, by and between Carl L. Wiebe and B. A. Gira both of Custer, South Dakota, and Fred Schermer of Detroit, Michigan, hereinafter referred as the Parties of the First Part, and R. H. McHenry of Buffalo, Wyoming, hereinafter referred as the Party of the Second Part.

WITNESSETH: Whereas, the Parties of the First Part are the owners of a certain group of placer claims located in Custer County, South Dakota, and more particularly described as follows:

> The group consists of eight (8) claims known as the "Wiegie Group" with the following legal descriptions, No. 1 (Pure Gold) W½ SE¼ SE¼ Sec. 3, No. 2 (Half Mask) N½SW¼SE¼ Sec. 3, No. 3 (Long Shot) W½SW¼SE¼ Sec. 3, No. 4 (Christmas) N½NW¼NE¼ Sec. 10, No. 5 (Happy New Year) S½N½NE¼NW¼ and N½S½NE¼NW¼ Sec. 10, No. 6 (Pink Elephant) S½S½NE¼NW¼ and N½N½SE¼NW¼ Sec. 10, No. 7 (Hang Over) SW¼NW¼NE¼ and NW¼SW¼NE¼ Sec. 10, and No. 8 (Resolution) SW¼SW¼NE¼ and NW¼NW¼SE¼ Sec. 10, excepting the land enclosed in the Haselrodt Picnic Ground boundary. Said Wiegie Group being situated on French Creek between the Fay Homestead and the Haselrodt Picnic grounds, and approximately five miles southeast of Custer, South Dakota.

WHEREAS, the Party of the Second Part is desirous of entering upon said premises for the purpose of testing the gravel thereon, for the purpose of determining whether or not the values therefrom can be produced on a commercial basis.

NOW, THEREFORE, the parties hereto do each mutually agree as follows:

1. The Party of the Second Part will enter upon said premises on or before the 1st day of May, 1952, and will conduct such testing operations as are necessary in determining the values of said gravel, and upon satisfactory findings shall install proper equipment for the digging and recovery of such minerals that are found in commercial quantities.

2. The Parties of the First Part agree to allow the Party of the Second Part the right to continue operations as long as such operations are continued during the entire period of the working season, and that this Contract shall remain in full effect as long as the Party of the Second Part continues such operations. The purpose of this agreement is to allow the Party of the Second Part the right to work all of the commercial gravels on the said "Wiegie Group". This contract shall be terminated only under the following conditions:-

(a) Upon the exhaustion of commercial gravels.

(b) When the said operation is discontinued without valid reason or without mutual agreement between the parties hereto.

(c) Through any default in terms of this Agreement.

2. The Parties of the First Part shall have the right to inspect such operations at any time during the life of this contract.

3. The payments of royalties shall be made as hereinafter stipulated. The Party of the Second Part will pay to the Parties of the First Part a royalty of Twelve and one-half percent (12½) of the gross value of all minerals recovered as the result of such operation and in the following manner:

(a) Twelve and one-half percent (12½%) of the gold shall be paid in that part of the gold so recovered, excepting such part that may be recovered in such a manner that necessitates selling to a United States Mint, and then settlement shall be based upon Twelve and one-half percent (12½%) of the Mint returns.

(b) Twelve and one-half percent (12½%) of the columbite-tantalite, tin, garnets and all other minerals recovered in the course of said operation. All settlements in payment for these minerals shall be based upon the settlement sheets received from purchaser, copies of which are to be furnished to the Parties of the First Part.

4. Time is the essence of this Agreement, and this Agreement shall inure to the benefit of and be binding upon the heirs, executors, administrators, successors and assigns of the respective parties hereto.

5. The intent of this contract is to allow the Party of the Second Part to continue operations as long as commercial gravels are present, and as long each year as seasonal conditions will permit without interruptions excepting such interruptions as caused by sickness, breakdowns or acts of providence.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals, the day and year first above mentioned and written in this Agreement.

Carl L. Wiehe
Carl L. Wiehe

B. A. Gira
B. A. Gira.

Fred Schermer By Carl L. Wiehe
Fred Schermer
(By Carl L. Wiehe, Power of Attorney)
PARTIES OF THE FIRST PART.

R. H. McHenry
R. H. McHenry - PARTY OF THE SECOND PART.

STATE OF SOUTH DAKOTA)
COUNTY OF CUSTER)ss.

On this 5th day of November, 1951, before me personally appeared Carl L. Wiehe, B. A. Gira and R. H. McHenry known to me as the Parties of this Agreement, and who acknowledged to me that they executed the same.

Eric Vendeprien
Notary Public.

My Commission expires March 17, 1952

A G R E E M E N T

THIS AGREEMENT, made and entered into this 18th day of January 1951, by and between Carl L. Wiebe and B. A. Giro both of Custer, South Dakota, and Fred Schermer of Detroit, Michigan hereinafter referred as the Parties of the First Part, and R. H. McHenry of Buffalo, Wyoming, hereinafter referred as the Party of the Second Part.

WITNESSETH: Whereas, the Parties of the First Part are the owners of a certain group of placer claims located in Custer County, South Dakota, and more particularly described as follows:

The group consists of eight claims known as the "Wiegie Group" with the following legal descriptions, No. 1 (Pure Gold) W½ SE¼ SE¼ Sec. 3, No. 2 (Half Muck) E½ SW¼ SE¼ Sec. 3, No. 3 (Long Shot) W½ SW¼ SE¼ Sec. 3, No.4 (Christmas) N½ NW¼ NE¼ Sec. 10, No. 5 (Happy New Year) S½ N½ NE¼ NW¼ and N½ S½ NE¼ NW¼ Sec. 10, No. 6 (Pink Elephant) S½ S½ NE¼ NW¼ and N½ N½ SE¼ NW¼ Sec. 10, No. 7 (Hang Over) SW NW¼ NE¼ and NW¼ SW¼ NE¼ Sec. 10, and No. 8 (Resolution) SW¼ SW¼ NE¼ and NW¼ NW¼ SE¼ Sec. 10 , excepting the land enclosed in the Haselrodt Picnic Ground boundary. Said Wiegie Group being situated on French Creek between the Fay Homestead and the Haselrodt Picnic grounds, and approximately five miles south east of Custer, South Dakota.

WHEREAS, the Party of the Second Part is desirous of entering upon said ground for the purpose of testing and washing the gravel for purpose of recovering the minerals values therefrom, such known minerals being gold, columbium-tantalum, tin, garnets, together with the use of such water, timber or such other appurtenances that may be required in carrying out such operations.

NOW, THEREFORE, the parties hereto do each mutually agree and promise as follows;

1. The Party of the Second Part will enter upon said premises on or before the 1st day of May 1952, and will conduct such testing operations as is necessary in determining the values of said gravels, and upon the conclusion of satisfactory findings, shall install proper equipment for the digging and recovery of such minerals that are found to be in commercial quantities.

2. The Parties of the First Part shall have the right to inspect such operations at any time during the life of this contract.

3. The Party of the Second Part will pay to the Parties of the First Part Twelve and One Half percent (12½%) of the gross value of all minerals recovered as the result of such operation in the following manner. High! Ent

(a) 12½% of the gold shall be paid in that part of the gold so recovered, excepting such part that may be recovered in such a manner that necessitates selling to a United States Mint, and then settlement shall be based upon 12½% of the Mint returns.

(b) 12½% of all other minerals, settlements to be based upon all settlement sheets, copies of which to be furnished the Parties of the First Part.

4. Time is of the essence of this agreement, and this agreement shall inure to the benefit of and be binding upon the heirs, executors, administrators, successors and assign of the respective parties hereto.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals, the day and year first above mentioned and written in this agreement.

Carl L. Wiehe

Carl L. Wiehe

B. A. Gira

B. A. Gira

Fred Schermer c.L.W.

Fred Schermer
(By Carl L. Wiehe, Power of Attorney

Parties of the First Part

R. H. McHenry

R. H. McHenry - Party of the Second Part

State of South Dakota)
)
County of Custer)

On this 13th day of January 1951, before me personally appeared Carl L. Wiehe, B. A. Gira and R. H. McHenry known to me as the parties to this agreement and who acknowleged to me that they executed same.

Eric Hedegren
Notary Public

My Commision Expires: March 17 '52

FILE COPY
SURNAME:

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

Gordon
Bourret
Norton
Moots
Thayer
Tyson

SEP 24 1951

Mr. R. H. McHenry
Buffalo, Wyoming

Re: Columbite
DMA docket 2011x

Dear Mr. McHenry:

Your application, docket 2011x, for an exploration project in the amount of $9,590.00, has been received by the Minor and Rare Metals Branch of the Supply Division.

Before a decision can be reached on your request we find it is necessary to obtain additional information on your property. Your application therefore is being referred to the office of the Executive Officer of DMA field team V, Mr. A. B. Needham, 2908 Colfax Avenue, South Minneapolis 8 Minnesota, who will get in touch with you if necessary.

Yours very truly,

SIGNED
Tom Lyon, Director
Supply Division

EGordon/mh 9-19-51
cc: Adm. Read. File
Lyon
Field Team V
Norton, USGS
Note ~~Dieterich~~, Bur. of Mines
Bourret
DMA docket files

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

SEP 24 1951

Mr. A. B. Needham
2908 Colfax Avenue
South Minneapolis 8, Minnesota

Dear Sir:

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

Docket No. 2011x

Commodity columbite

Applicant R. H. McHenry

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

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

Mr. A. B. Needham
2908 Colfax Avenue
Soith Minneapolis 8, Minnesota

SEP 24 1951

Dear Sir:

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

Docket No. 2011x

Commodity columbite

Applicant R. H. McHenry

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

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 2011X

Commodity COLUMBITE

Total Amount $9,590.00

Govt. Participation $8,631.00

1. Name and Address of Applicant R. H. McHENRY
BUFFALO, WYOMING

2. Location of Property CUSTER COUNTY, SOUTH DAKOTA

3. Mineral or metal COLUMBITE, ETAL Is it listed in Section 9 of MO-5? YES

If not, application will be rejected.

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

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

a) Good

b) Poor

c) None

d) Don't know—needs field examination ←

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

5. Is the applicant's right to the property clearly stated? YES, BUT TOO INEXACT LEASE TERMS
(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? NOT GIVEN IN LEASE, NOR ANY RIGHT TO MINE
TELL APPLICANT TO CORRECT THIS.

*question numbers are those of MF-103

7. Are subordination agreements necessary? YES, IF LEASE IS CLARIFIED

a) MF-201? _____

b) MF-202 ✓ PROVIDED LEASE IS REFORMED SO CONTRACT COULD BE MADE.

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 ? CAN CAISSON WORK BE DONE ?
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* YES

d) Water (question 13)* YES

e) Power (question 13)* YES

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

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

Is a field check needed on this point? YES

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

a) Is the project adequately described? NO

If not, are there sufficient data given so that you can describe the project? NO If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? NO - HOW MUCH GROUND IS EXCLUDED IN PICNIC GROUND ?

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? No If so, attach a draft.

e) Are the cost estimates reasonable? ?

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? Don't Know

d) Is a field check needed? YES

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

a) Are there sufficient data? ?

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

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

d) Are the proposed wages and salaries reasonable? ?

e) Is a field check needed? YES

14. Exhibit E (question 23-c)*

a) Is it applicable? NO

b) Sufficient data?

c) Reasonable?

d) Field check needed? NO

15. In your judgment, can the proposed work be done in the proposed time? ?

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? SEE ATTACHED MEMO, 9/17/51, BY J. J. NORTON - IF EXPLORATION IS WARRANTED HAVE APPLICANT PROVIDE CLEAR & COMPLETE MAPS & EXHIBITS IN SEXTUPLICATE FOR CONTRACT. IN WHAT TOWNSHIP & RANGE ARE CLAIMS? A LEASE GIVING RIGHT TO MINE FOR SOME TIME IS NECESSARY.

Reviewed by: E R Gordon

Date 9/19/51

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

August 27, 1951

Mr. R. H. Mc Henry
Buffalo, Wyoming

Subject: DMA-2011
Re: Exploration Loan
Wiegle Group

My dear Mr. Mc Henry:

This will acknowledge receipt of your application dated August 8, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA- 2011 and referred to the ~~Industrial Minerals~~ Minor & Rare Metals Branch.

Kindly refer to DMA- 2011 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

FELDSPAR PRODUCERS ASSOCIATION

Black Hills Pegmatite Minerals

CUSTER, SOUTH DAKOTA

August 29, 1951

United States Department of the Interior
Defense Minerals Administration
Washington 25, D. C.

DMA 2011

Gentlemen:

Enclosed please find the application of R. H. McHenry of Buffalo, Wyoming for an Exploratory Loan. Included with application Form MF-103, please find copy of Lease Agreement and a map of the area.

Landlord's Subordination Agreement is not included for the reason that these blanks are not available at this time. We would appreciate it very much if you would forward a dozen or so of these blanks so that they will be available for future applications.

As the writer is one of the owners of the land described in the enclosed application, I can assure you that the Subordination Agreement will be forwarded as soon as blanks are at hand.

Yours very truly,

B. A. Gira

B. A. Gira

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 27 1951

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 2011

Date received 8-27-51

Participation

R. H. McHenry
Buffalo
Wyoming

Name and address of applicant

Date 8/20/51

FILL IN THIS BLOCK

Date of application August 20, 1951

Estimated cost $ 9,590.00

Mineral or metal Gold, columbite-tantalite tin, garnets.

Percentage of Government participation 90%

Location of mine On French Creek five miles south east of Custer.

Date of filing MF-100 None filed

DMA Docket Number, if available 2011 ~~None~~

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

THE EXPLORATION

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

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

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

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

R. H. McHenry
(Name of company)

By R. H. McHenry
(Signature of authorized official)

8/20/51
(Date)

R. H. McHenry
Owner
(Title)

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

*Same as footnote on page 1.

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

ADDENDA TO FORM MF-103

R. H. McHenry

Buffalo, Wyoming

THE APPLICANT

1. Individual.

2. Not a partnership.

3. Not a corporation.

4. (a) Four years of contracting (earth moving) experience, five years association with placer mining operation.

   (b) The owners of the land, Carl L. Wiehe and B. A. Gira have had a life time of experience in mining operations, and will assist in carrying out the proposed exploration.

5. Lessee.

6. Not the owner but owners state that there are no claims, liens, or encumbrances of any character against the property.

7. Copy of lease attached to this application.

8. Assets -- Earth moving equipment ------ $ 14,000.00
   Real Estate ---------- 8,500.00
   Cash on hand ---------- 1,000.00
   Accounts collectable -------- 750.00
   $ 24,250.00

   Liabilities -- Amortized Loan On Home ---------- $ 3,600.00

9. Sufficient to pay my part of exploration.

THE PROPERTY

10. (a) The property consists of 160 acres of placer ground lying along French Creek, containing, by conservative estimate, a minimum of 400,000 and up to approximately 600,000 yards of mineral bearing gravels. The physical position of said gravels being such that the proposed exploration and the subsequent operations to recover the minerals is entirely feasible, according to the experience of the applicant.

ADDENDA TO FORM MF-103

H. H. McHenry

Buffalo, Wyoming

THE PROPERTY

10. (b) The legal description is as follows; Eight claims known as the "Wiegie Group", located by legal sub-division and the particular description follows, No. 1 (Pure Gold) W½ SE¼ SE¼ Sec. 3, No. 2 (Half Muck) E½ SW¼ SE¼ Sec. 3, No. 3 (Long Shot) W½ SW¼ SE¼ Sec. 3, No. 4 (Christmas) N½ NW¼ NE¼ Sec. 10, No. 5 (Happy New Year) S½ N½ NE¼ NW¼ and N½ S½ NE¼ NW¼ Sec 10, No. 6 (Pink Elephant) S½ S½ NE¼ NW¼ and N½ N½ SE¼ NW¼ Sec. 10, No. 7 (Hang Over) SW¼ NW¼ NE¼ and NW¼ SW¼ NE¼ Sec. 10, and No. 8 (Resolution) SW¼ SW¼ NE¼ and NW¼ NW¼ SE¼ Sec. 10, excepting that land enclosed by the Haselrodt Picnic Ground boundry. Said "Wiegie Group" situated on French Creek, approximately five miles south east of Custer.

11. No known former names, present name the Wiegie Group.

12. The property is situated five miles south east of Custer on French Creek.. The property is reached over three miles of hard surface highway, and two miles of gravel, passable all year. A railroad is located at Custer.

13. French Creek is the source of water supply, and is sufficient for seasonal operations. Power will be self contained Diesel Unit on Back Hoe, and direct connected gas engine on pump.

14. No existing facilities.

15. During testing operations, gravel will be washed in a sluice box and concentrates will be tested for the various mineral contents. Concentrates can be shipped from Custer.

16. (a) Property was formerly reserved for a Ranger Station, changing conditions made this unnecessary, and ground was released for location. No former operations.

(b) Neighboring properties are a ranch and a government reservation for a picnic ground. No operations on either tract.

(c) No private reports or investigations. Metalurgical investigations have consisted of yad tests which have revealed quantities of gold, columbite-tantalite, garnets, with some tin.

17. No former production.

18. Property has not been operated but estimated minimum yardage is 400,000 with a possible 600,000 yards of mineral bearing gravel.

R. H. McHenry

Buffalo, Wyoming

THE PROPERTY

19. The property was originally tested for gold but when it was said that Lincoln Page of the U. S. G. S. had stated that he believed that the gravels would produce the bulk of any columbite-tantalite that would be produced in the Black Hills, and that he believed that they would carry as much as one pound per yard. It has been also said that Dr. Herman Rinebolt has made a similar statement. After hearing of the above statements, more comprehensive tests were made, and particles of columbite-tantalite were found that could be picked from the pan with the fingers, considering the friable nature of the metal, it is natural to assume that a considerable amount will be found in fine concentrates.

THE EXPLORATION

20. Gold, columbium-tantalum, garnets, and possibly tin.

21. To dig approximately 1,000 feet of trench on a water grade, starting at the creek level at the lower end of property. This would drain and expose the bed-rock. After bed-rock is exposed it is proposed to test the gravel for a distance of about 500 feet along the course of stream, and then to turn at right angles and test the gravels across the entire width of the gravel beds. It is believed that these findings will be sufficient to determine the values in the entire area. Estimated time required to complete testing is three months. If loan is approved in time to permit, it is hoped to complete testing this fall, and, if findings warrant, to assemble a dry land dredge during the winter months so that washing operations can be started early in the spring.

22. The geological basis for the project being that French Creek traverses an area of pegmatite dikes that contain the strategic minerals, and that hand testing has revealed their presense in the gravels.
During past large scale placer operations on French Creek, columbium-tantalum was not of it's present importance, and the only note made of a heavy black metal was that the concentrates were so heavy that it made the clean-up extreamly arduous.
Map of the area is being included with this application.

R. H. McHenry

Buffalo, Wyoming

23. (a) One man to test gravel and to work on sluice box @ $12.00 per day ---------- $ 1,080.00

(b) Supervision to be included in operation of Back Hoe.

(c) None.

(d) None.

(e) None.

(f) None.

(g) Back Hoe @ $80.00 per day, including operator and fuel. ---------- $ 7,200.00

(h) None.

(i) Gasoline pump to operate sluices and transportation of equipment to job. $ 1,310.00

Cost of exploration ---------- $ 9,590.00

24. At the end of three months, the project, it is estimated, will be completed. This would include complete sampling of approximately 1,100 lineal feet of gravel, from top to bed-rock. Project can be completed before the end of the year, if the usually mild Black Hills autumn is enjoyed. A severe cold spell would make operations difficult, but it is the intention to complete testing before the first of the year.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 3-30-51.

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 2011

Date received 8-27-51

Participation

R. H. McHenry
Buffalo
Wyoming

Name and address of applicant

Date 8/30/51

FILL IN THIS BLOCK

Date of application August 30, 1951

Estimated cost $ 9,590.00

Mineral or metal Gold, columbite-tantalite tin, garnets.

Percentage of Government participation 90%

Location of mine On French Creek five miles south east of Hunter.

Date of filing MF-100 None filed

DMA Docket Number, if available ~~None~~ 2011

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.

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

R. H. McEnery (Name of company)

By R. H. McEnery (Signature of authorized official)

8/20/51 (Date)

R. H. McEnery Owner (Title)

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

*Same as footnote on page 1.

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

ADDENDA TO FORM MF-103

R. H. McHenry

Buffalo, Wyoming

THE APPLICANT

1. Individual.

2. Not a partnership.

3. Not a corporation.

4. (a) Four years of contracting (earth moving) experience, five years association with placer mining operation.

   (b) The owners of the land, Carl L. Siehe and E. A. Giro have had a life time of experience in mining operations, and will assist in carrying out the proposed exploration.

5. Lessee.

6. Not the owner but owners state that there are no claims, liens, or encumbrances of any character against the property.

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H. H. McHenry

Buffalo, Wyoming

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18. Property has not been operated but estimated minimum yardage is 600,000 with a possible 600,000 yards of mineral bearing gravel.

R. H. McHenry

Buffalo, Wyoming

THE PROPERTY

19. The property was originally tested for gold but when it was said that Lincoln Page of the U. S. G. S. had stated that he believed that the gravels would produce the bulk of any columbite-tantalite that would be produced in the Black Hills, and that he believed that they would carry as much as one pound per yard. It has been also said that Dr. Herman Rinebolt has made a similar statement. After hearing of the above statements, more comprehensive tests were made, and particles of columbite-tantalite were found that could be picked from the pan with the fingers, considering the friable nature of the metal, it is natural to assume that a considerable amount will be found in fine concentrates.

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Map of the area is being included with this application.

R. R. McHenry

Buffalo, Wyoming

23. (a) One man to test gravel and do work on sluice box @ $12.00 per day ---------- $ 1,080.00

(b) Supervision to be included in operation of Back Hoe.

(c) None.

(d) None.

(e) None.

(f) None.

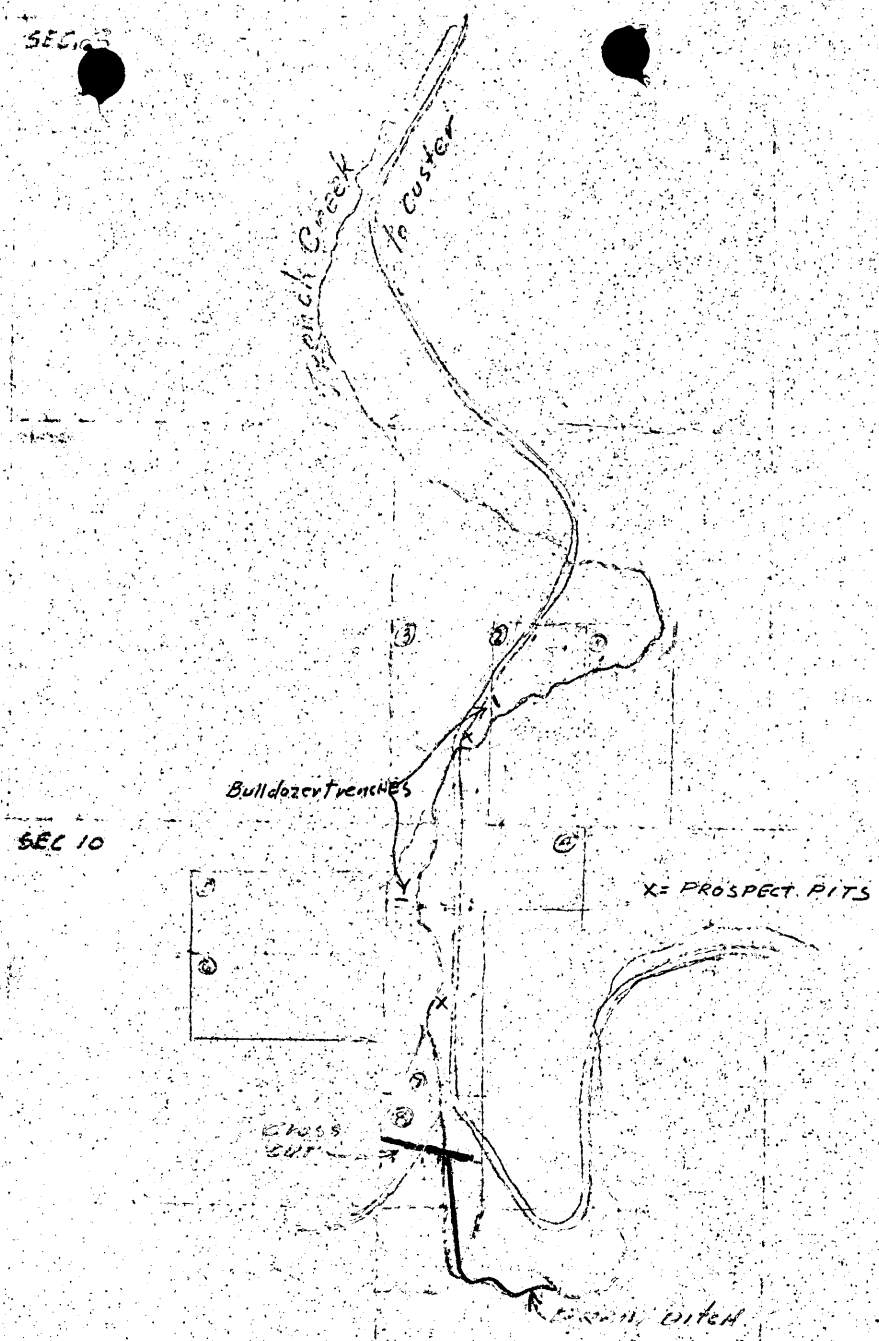
(g) Back Hoe @ $80.00 per day, including operator and fuel. ---------- $ 7,200.00

(h) None.

(i) Gasoline pump to operate sluices and transportation of equipment to job. $ 1,310.00

Cost of exploration ---------- $ 9,590.00

24. At the end of three months, the project, it is estimated, will be completed. This would include complete sampling of approximately 1,100 lineal feet of gravel, from top to bed-rock. Project can be completed before the end of the year, if the usually mild Black Hills autumn is enjoyed. A severe cold spell would make operations difficult, but it is the intention to complete testing before the first of the year.



Scale - 1 inch = 1320

Gravels outlined in red

Proposed Drain ditch & cross cut in Brown

[illegible]