Included in

Supplemental

report to Mr. Mittendorf, January 14, 1953

NARRATIVE ON DMEA CONTRACTS TERMINATED AS OF DECEMBER 31, 1952

Contract No. IGm-1252
Docket No. DMA-2011X
Contract date: February 5, 1952
Commodity: Columbite-Tantalite
Contractor: R. H. McHenry
Location: Custer County, South Dakota
Contract Amount: $3,538.00
Govt. participation: 90% - $3,184.20
Amount spent: $1,457.37 (Govt. share: $1,311.63)

Work on this project was completed May 18, 1952, and officially terminated July 28, 1952.

The purpose of this contract was to drill six rows of 6-inch churn-drill holes across channel gravel. The rows were to be at intervals of 650 to 750 feet and the holes spaced 100 to 150 feet apart. This pattern called for approximately 630 feet of drilling. However, after the drilling had progressed somewhat no columbite-tantalite was found in panning samples from the holes drilled. Therefore, after drilling 13 holes totalling 116.5 feet (the total footage drilled), it was decided to terminate the project as of the date shown above.

The property is considered to be of no economic importance.

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

R. H. McHenry

Buffalo

Wyoming

pertaining to Exploration Project Contract No. Idm-R252, Docket No. DMA-2011A, including Amendments Nos. 1 and 2, for the period of April and May, 1952.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with the Executive Officer of the Field Team, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of an audit of the Operator's accounts and records for the following reasons:

(a) the administrative cost to the Government of an audit would be excessive in relation to value of the contract or the estimated amount of possible disallowances thereunder;
(b) the Monthly Reports were partially supported by documentary proof of the costs incurred under the contract; and
(c) a major portion ($793.73) of the costs covered an allowance to the operator as a working supervisor.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by Contractor		$1,457.37
Exceptions:		
By DMEA Finance Officer	$ -0-	
Herewith (schedule attached)	-0-	-0-
Total Accepted Cost		$1,457.37

The contract calls for a 90 per cent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of One thousand three hundred eleven Dollars and 63/100

- $1,311.63 -

is considered valid and proper.

Jay L. Chamberlin
Auditor

October 3, 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

DIVISION 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] D. H. McHenry (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 "Oleole Group" of eight claims namely: Pure Gold, Half Hack, Long Shot, Christmas, Happy New Year, Pink Elephant, Bang 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, and 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.

D. D. DeHART

(Operator)

By R. M. Henry

THE UNITED STATES OF AMERICA

By C. Mitteudorf

Acting Administrator, Defense Minerals Exploration Administration

Konrad Hoffhaus (form only)

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

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

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:

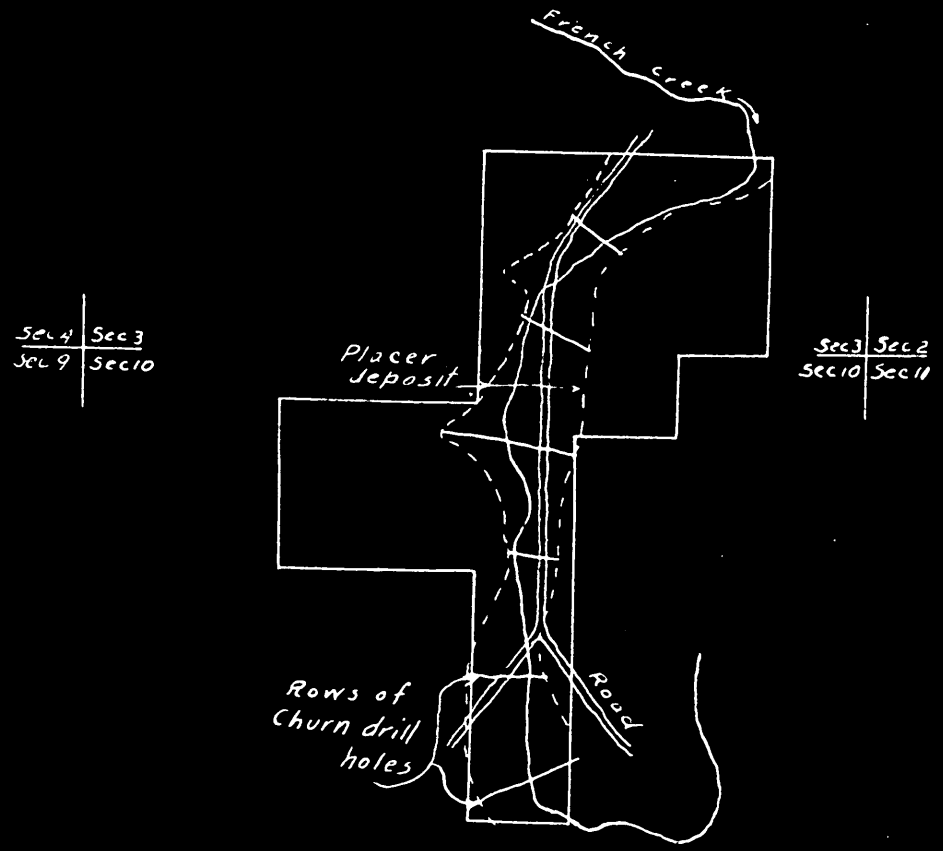
Drill rig @ $0.50 per foot	315.00	
Repairs to drill rig	100.00	415.00

MAR 10 1952

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

630 / 3538.00
315.00
3880
3180
1000

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

DMA 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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 10 1952

Division Copy

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 C. B. Woodham
Executive Officer, DMEA Field Team
Region V

Dated: MAY 13 1952

R. H. McHenry
R. H. McHenry

DEPARTMENT OF
Defense
MAY 21 1952

JUSTIFICATION OF AMENDMENT NO. 2

Docket No. UMA-2011, Contract Idm M-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 ... Dalles ... MAY 21 1952

MAY 13 1952

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

R. H. McHenry
R. H. McHenry

☑ Audited

☐ Certified

[illegible]K ANALYSIS SHEET - DMEA PROJEC[illegible]

Analysis as of Dec. 8, 1954
Incl. Voucher for May 1952

☑ Actual Cost

☐ Agreed Unit Costs

Name R. H. McHenry

Docket No. DMA-2011X

State South Dakota

Commodity Columbite-tantalite, cassiterite

Idn-E No. 252

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting					
Raising					
Shafts					
Winzes					
Drilling (Specify) Churn	630	$ 2,913.00	116.5	$ 1,457.37	
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased		625.00			
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify)					
Totals		$ 3,538.00		$ 1,457.37	

Prepared by Ellis

OFFICE OF THE ADMINISTRATOR

8/11/52 glg

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

~~WASHINGTON 25, D.C.~~

Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

July 30, 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, Custer, S. Dak.

Here are the original and three copies of the Field Team final report of the subject exploration project, which indicates a discovery was not made.

The original and three copies of the operator's report are attached also.

Final accounting consisted of only one MF-104, which was the first and final.

Final expenditures are as follows:

Total contract allotment	$3,538.00
Government's share	3,184.20
Total amount spent	1,457.37
Government's share of expenses	1,311.63
Balance of Government's share available for the general exploration fund	1,872.57

The project work was completed May 18, 1952, and July 28, 1952, is official completion date.

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

Attachments
ABNeedham:dg
cc Dutton
Mullen
Redden
Hill
Region V
files
df

FINAL REPORT

EXPLORATION OF WIEGIE GROUP

Columbite-tantalite, cassiterite

DMEA Docket 2011X

Contract Idm E-252

by

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

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

Reviewed by
DMEA OPERATING COMMITTEE
8-8-52
(date)

Exploration of the Wiegie Group (McHenry Placer), Docket No. DMEA 2011X, Contract Idm E-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:

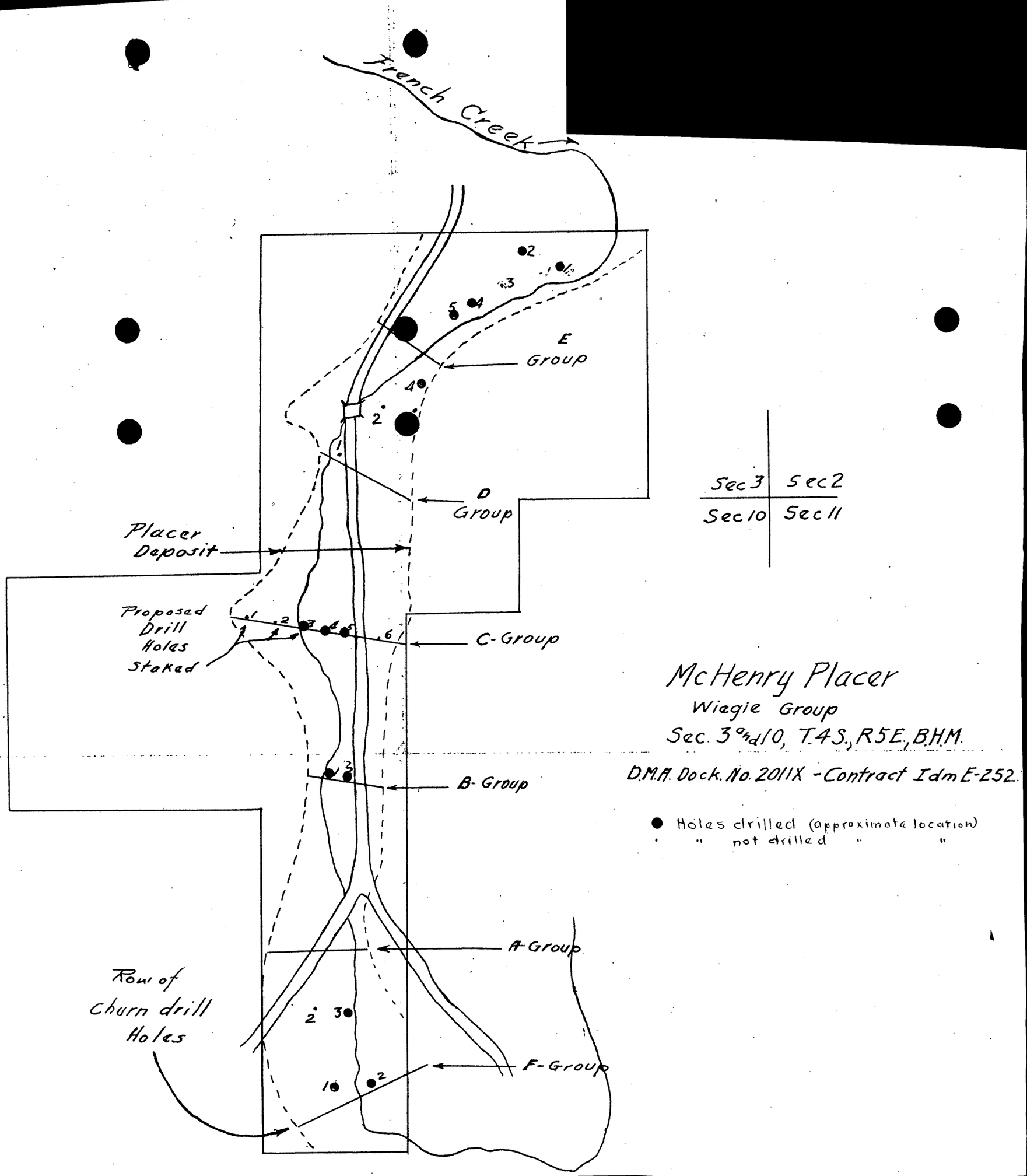
The sample was measured wet for volume, then dried and screened on an 1/8-inch screen. The oversize was retained as reject and visually inspected for columbite-tantalite, as well as other strategic minerals. The minus 1/8-inch material was then concentrated on a laboratory size Wilfley table. A part 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.

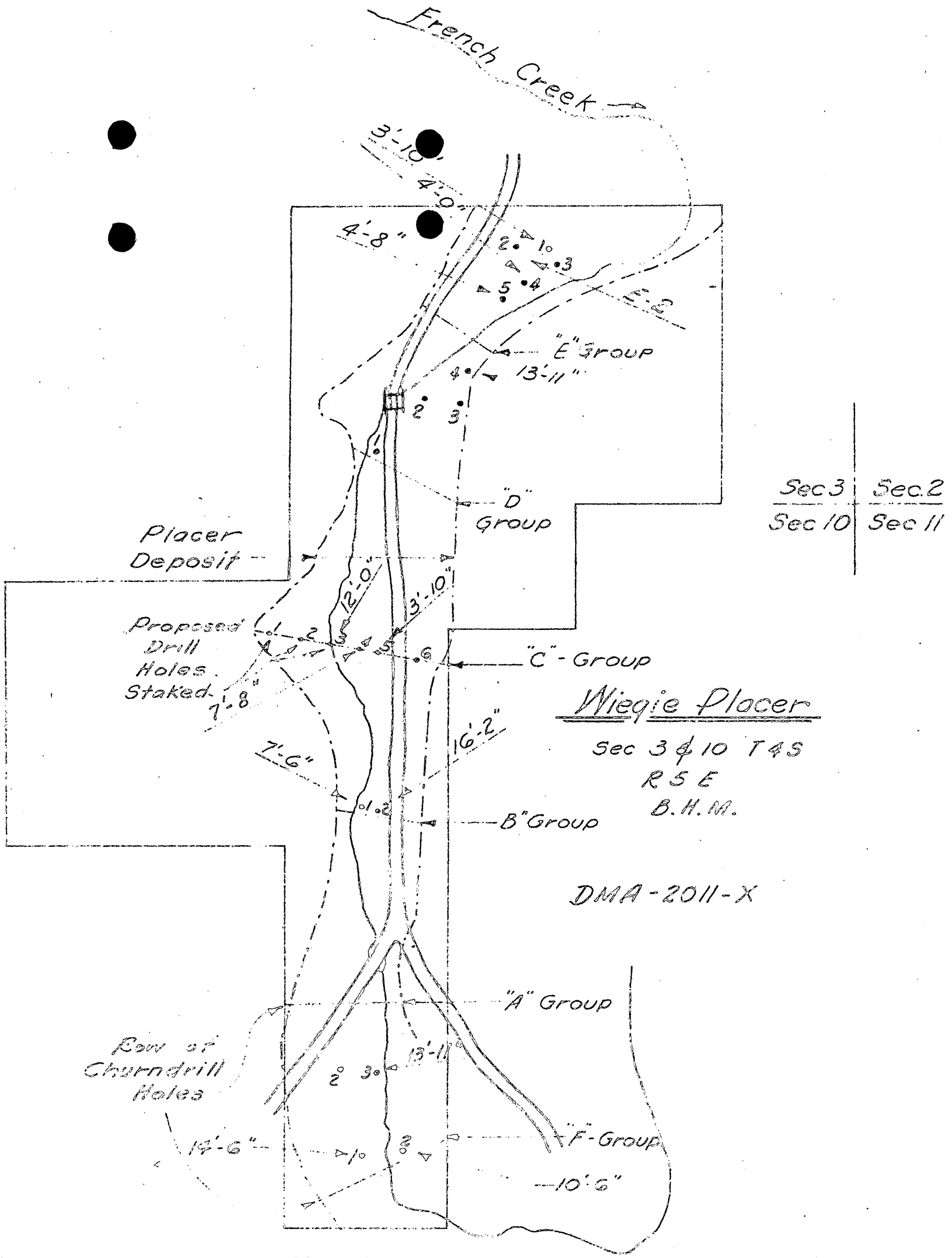
Sampling and other data are given below:

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
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 " "


French Creek
3'-10"
4'-9"
4'-8"
"E" Group
13'-11"
"D" Group
Placer Deposit
12'-0"
3'-10"
Proposed Drill Holes Staked
7'-8"
"C" - Group
16'-2"
7'-6"
"B" Group
"A" Group
Row of Churndrill Holes
13'-11"
14'-6"
"F" - Group
10'-6"
Sec 3
Sec 2
Sec 10
Sec 11
Wiegie Placer
Sec 3 & 10 T4S
R5E
B.H.M.
DMA-2011-X

R.H.McHenry, Buffalo,Wyo
DMEA Contract Idm-E252
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-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

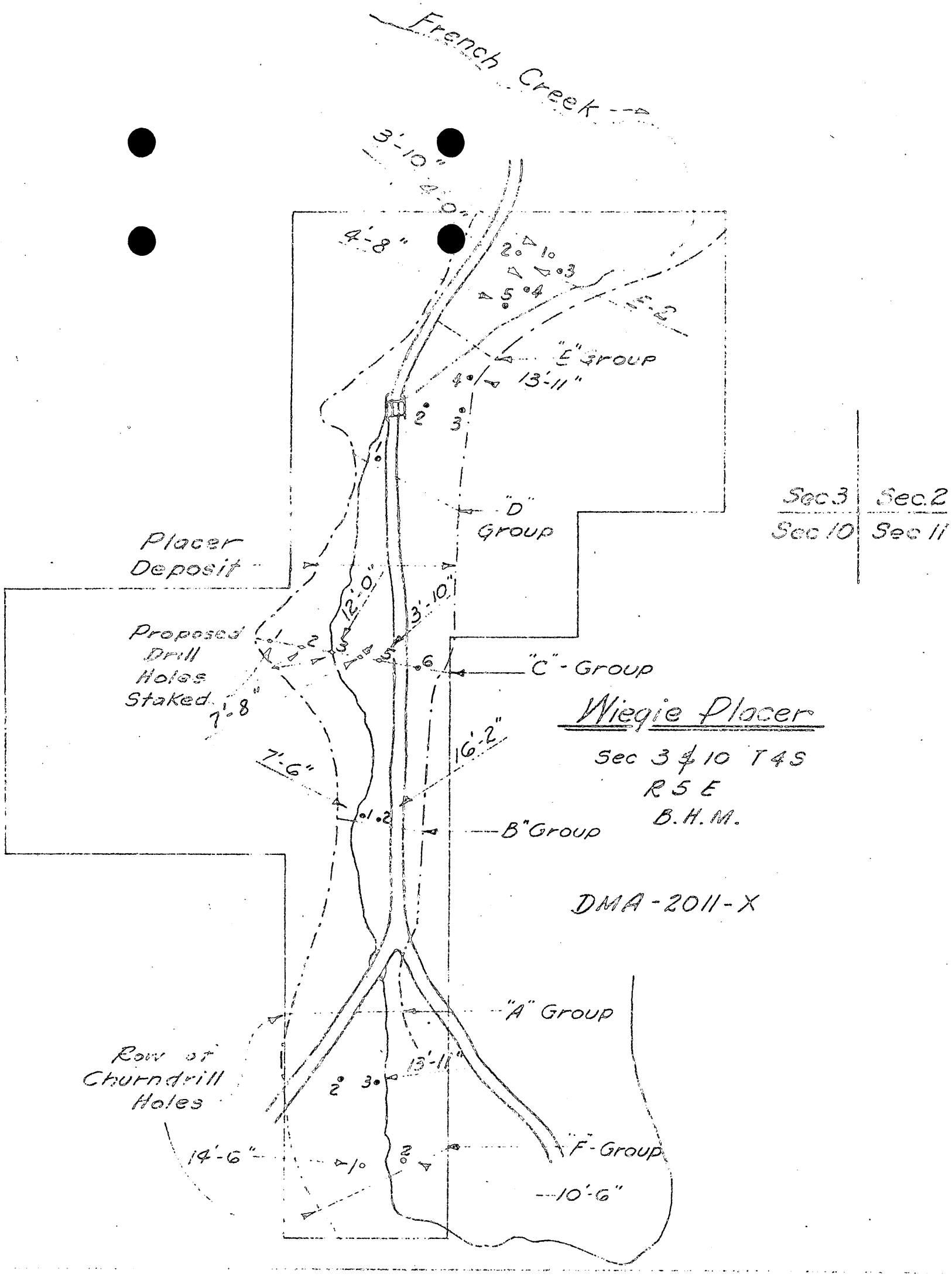
Test # D-4 T.D. 13'11" Ft.
From 0' to 10' Top Soil
" 10' to 12' Rock & Gravel
" 12' to 13' Sand & Gravel
" 13' to 13'11" Sand.

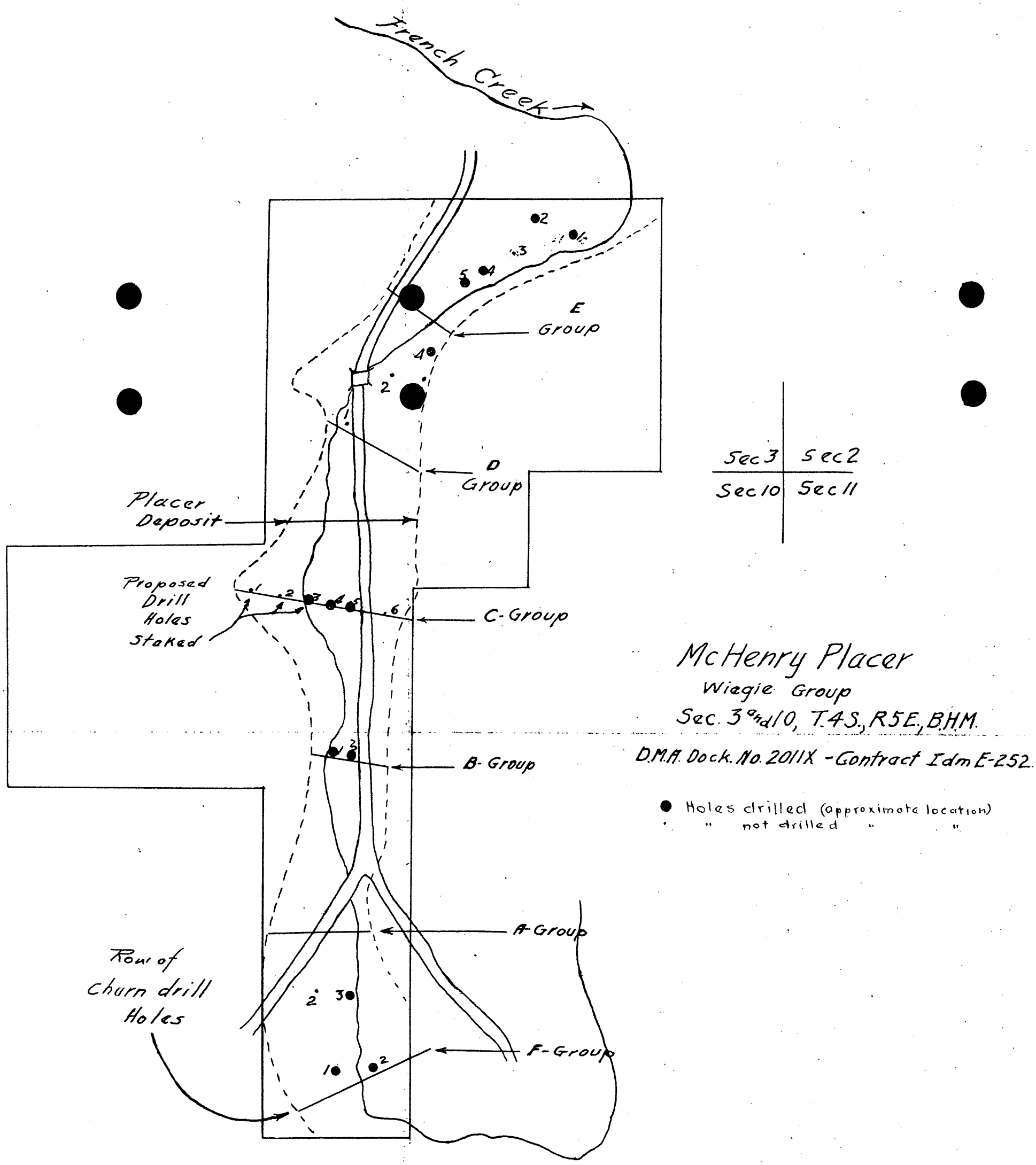
Test # E-2 T.D. 8'
From 0' to 6" Top Soil
" 6" to 3' Sand
" 3' to 4' Sand & Gravel.

0' to 5' Samples were taken from Holes # B-1 & C-4.

A previous report on test holes # E-5,E-4,E-1 & C-5 were submitted with form MF-104 on May 19,1952.

R.H.McHenry


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"


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 " "

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25~~
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

ABNeedham:mg

cc: Region V
Dutton
files
df

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

25

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 252

Name of Operator R. H. McHenry (Wiegie Group)
Docket No. DMA 2011-X
Total Contract Amount $ 3,538.00
Government Participation: 90 % Amount, $ 3,184.20
Distribution of Expenditures for Month of April and May, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 11 1952

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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

R. H. McHenry (Wiegie Group)
(Name of Company)

By R H McHenry
(Signature of Authorized Official)

May 19, 1952
(Date)

Operator
(Title)

NOTE.—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.

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]						
(b) Rented[2]	107.82	--	107.82	107.82	--	107.82
(c) Furnished by operator						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

MONTHLY NARRATIVE REPORT

Docket No. DMA 2011-X
Contract Idm E-252
Wiegie Group

The exploration conducted on the Wiegie placer included only churn drill sampling. Thirteen 6-inch holes were drilled for a total of 116.5 feet. Fifteen samples were taken, but to date results on only four of them have been submitted by the analyst.

Samples from holes E-5, E-4, E-1 and C-5 showed no columbite-tantalite according to the analyses by Chas. Bentley of the South Dakota School of Mines and Technology.

8.96 : 7.0 oust.

13) 116.5
104
12.5
11
60

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]						
5. Supervision	793.73	--	793.73	793.73	--	793.73
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts	117.95	--	117.95	117.95	--	117.95
(d) Other	113.65	--	113.65	113.65	--	113.65
7. Power gasoline & oil	136.72	--	136.72	136.72	--	136.72
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability						
(c) Workmen's Compensation						
10. Contract Work Sample Analysis	187.50	--	187.50	187.50	--	187.50
11. Other (specify)						
Total	1,457.37	--	1,457.37	1,457.37	--	1,457.37
Deletions						
Adjusted totals						
Totals previously reported	--	--	--			
Totals to date	1,457.37		1,457.37	1,457.37	--	1,457.37

in lieu of purchase of pump

must include labor

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by E. O. Bingos
Entered by
Approved by D. F. Mullen Supervising Engineer
Amount approved for payment 1311.63
Remarks 130.00 withheld pending final report
#1181.63

16—64068-3

1457.37
187.50 analyses
1269.87

116)1269.87
116
1098
1044
54.0

10.94

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF April-May, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes	6.813		3.16	0.924	10.897					
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying				1.61	1.61					
Roads and trails										
Test pits										
Other (specify)										
Totals	6.813		3.16	2.534	12.507	feet	116.5	0	116.5	630

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

2/6/52 gla

[illegible]

[illegible]

Mr. A. E. Needham
Executive Officer, Region V
DMEA Field Team
2905 Colfax Ave., South
Minneapolis 6, Minnesota

Re: Docket No. DM[illegible]-2011[illegible]
Columbite, Tantalite & Cassiterite
J. H. Cherry
Siegle [illegible] 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 Examiner's Copy" is to be retained by your office, and the original and four copies are to be returned to this office.

If any portion 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 [illegible]9,590.[illegible], and the final contract is for the amount of [illegible]3,438.[illegible] which is the total amount recommended by the Field Team.

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures

APPROVED:
J. H. Hedges
Director, Bureau of Mines

Dwight M. Lemmon
Director, Geological Survey

FEKnouse/jem 1-2[illegible]-52
cc to: [illegible], Reading File
Docket
Messrs. [illegible]oleman, S. F. 1347
Horton, J.J. Rm. G-2[illegible]8 G.S.
Ellis
Knouse
Field Team, Reg. V

MF-200
(June 1951)

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

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

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

R. H. McHenry (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 Mucky, Long Shot, Christmas, Happy New Year, Pink Elephant, Hang Over, Rosebud, in Sections 3 & 10, T. 4 S., R. 5 E., B.H.M. Lusted

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 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 $ 3,184.80, 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

THE UNITED STATES OF AMERICA

By

Acting Administrator
Defense Minerals
Exploration Admin.

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

R. H. McHenry
Buffalo, Wyoming

Exhibit A

Description 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 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 Bureau of Mines) in each row, is to be sampled at 5-foot intervals. From the remaining holes one representative sample only is to be taken from each hole. 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.

~~The total cost of the project including drilling, sampling and analyzing is estimated at $3,538.00 based on 630 feet @ $5.617 per foot.~~

~~R. H. McHenry (cont'd)~~

Estimated costs of the project

Fixtures and improvements: ~~Does not apply.~~

NONE

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

Labor and supervision:

(*) 1 - sampler @ $1.50/hr., plus 6 o/o for taxes & insurance for 30 days	$381.60
1 - driller @ $1.50/hr., plus 6 o/o for taxes & insurance for 30 days	381.60
1 - sample helper @ $1.25/hr., plus 6 o/o for taxes and insurance for 10 days	106.00
1 - working supervisor (Oliver) @ $2.00/hr., plus 6 o/o for taxes and insurance for 30 days	508.80
	$1378.00

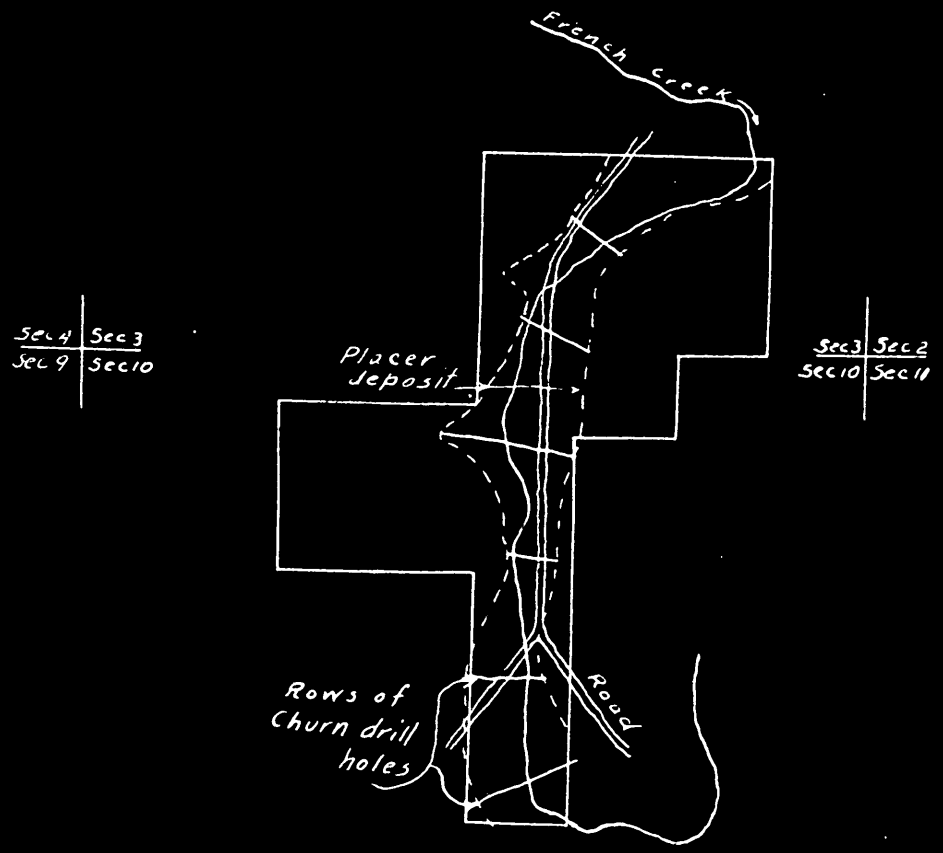
(*) The sampler, who will be responsible for the collection, preparation, and delivery of samples, will be selected and employed only with the approval of Government engineers.

R. H. McHenry (cont'd)

Rehabilitation and repairs: ~~Does not apply.~~
NONE

iii. Miscellaneous costs:

Fuel (gasoline and oil)	$195.00
Sample sacks and supplies	75.00
Concentrating the samples	500.00
Analyzing samples	350.00
	$1120.00
Estimated total costs	$3538.00



Sketch of Wiegie Placer Sec 3 + 10 T 4 S, R 5 E B.H.M.

DMA-2011 X.