UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

Terminated (or cancelled) without certification. DMEA No. 2077

This is the official contract file containing all official records of the project. Duplicate material has been removed. The records contained in the files are checked and are arranged in this manner:

Left Side

Certificate of Audit (Final).

Interim Audit(s).

✓ Report of Review.

Termination Notice or Agreement.

Recision Notice.

Assignment of Contract.

✓ Contract Amendments (latest on top).

✓ Contract with all exhibits and annexes.

Owner's Consent to Lien.

Subordination Agreement.

Leases and assignments of leases.

✓ Application and attachments.

Schedule of Collections.

✓ Operator's monthly reports and all attachments (latest on top).

Right Side

✓ Project summary.

✓ Work completed analysis.

All other material is filed in chronological order with correspondence including the following reports as checked:

✓ Final Field Team Report. (Tab)

Operator's Final Report.

✓ Interim Reports.

✓ On-site Exam Report(s). (Tab)

Settlement Sheets.

If additional folders are required because of volume of records, show folder numbers and contents below:

Maps in folder number _____

Operator's Monthly Reports in folder number _____

R. C. G. ✓

Reviewer's Initials

7973

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Fred Bugsbe

P. O. Box 611

Riverdale, New Jersey

pertaining to Exploration Project Contract No. Idm-1257, Docket No. DMA-2077, as amended on December 20, 1951, for the months of July to September 1952, inclusive, covering a project for the exploration of flake graphite.

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 Regional DMEA Executive Officer, 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 supported by documentary evidence of the costs incurred under the contract; and
(c) the costs claimed consisted only of labor and supervision at rates specified by the contract and rental and depreciation of required equipment.

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

Total cost as billed by Contractor		$ 1,778.00
Exceptions:		
By DMEA Finance Officer	$ -0-	
Herewith	-0-	-0-
Total Accepted Cost		$ 1,778.00

The contract calls for a 50 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Eight hundred eighty-nine and no/100 Dollars

— $ 889.00 —

is considered valid and proper.

March 9, 1953

E H Talbot
Auditor

MR. JOHNSON:

Attached has been to Division and back.

However Docket copy and Division copy were not received (just Govt's cy and Finance Copy).

Should we write for the other copies?

Have Mr. Houte [illegible]

Mr. [illegible]

Hazel

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
College Park, Maryland

June 26, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: W. T. Millar for McHenry Mosier, Executive Officer
DMEA Field Team, Region VIII

Subject: Amendment to Contract Idm-E257 - Graphite

Enclosed is the original and one copy of the amendment extending the time of the starting date for this contract, which was necessary to allow time for the applicant to obtain local equipment for the operation on this project.

W. T. Millar
W. T. Millar

Attachment

No drawer or docket copies received.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 26 1952

SES
6-26-52

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 6-27-52

REFERRED TO:

1. ~~Mrs. Berry, Rm. 4624~~
2. Mr Hook R 4639
3. H Berry R 4624
4.

FOR:

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

REMARKS: Note below:

Hazel; this isnot an executed case, yet. The Div. and Docket copies are not attached and not rec'd.

Check (X) before the items needing attention.

~~R. E. ADAMS~~
Frank Johnson
Initials of sender.

GPO 16—63815-1

GOVERNMENT'S COPY

CONTRACT AMENDMENT

June 17, 1952

Docket No.:	DMEA-2077
Contract No.:	IdmE-257
Operator:	Fred Busche, P.O. Box 811 Riverdale, New Jersey
Commodity:	Flake Graphite
Amount: $1,850.00	Government Participation - 50% - $925.00

Amendment to Contract: Article "3. Exploration Project" - should read: The Operator, within One hundred thirty (130) days from the date of this contract shall commence work on a project of exploration for Flake Graphite; 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 two hundred twenty (220) 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.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution or any item of allowable cost which is expressly designed "allowable maximum."

JUN 26 1952

Approved in sextuplicate
this 17th day of June 1952

Fred Busche

Fred Busche
Operator

W. P. Miller for

McHenry Mosier, Executive Officer
Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

MF-200
(June 1951)

DMEA-2077

Docket No. DMA _____
Commodity Graphite
IdmE-257

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

GOVERNMENT'S COPY

Amendment I attached

EXPLORATION PROJECT CONTRACT [1]

It is agreed this 19th day of February, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Fred Busche, P. O. Box 811, Riverdale, New Jersey

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 New Jersey, County of Morris described as follows: [3] A tract of 49 acres in the town of Riverdale, Morris County, New Jersey, owned by Fred and Julia G. Busche, as recorded in Deeds - Book T-49 pp 416-418 at County Clerk's Office at Morristown, New Jersey

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: (No encumbrances)

~~(b) That he is a lessee, 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~~

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] Flake Graphite; 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] Sixty (60) 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 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $925.00, which is 50 percent of the agreed estimated total cost of this project, $1,850.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

Fred Busche

Fred Busche
(Operator)

By

THE UNITED STATES OF AMERICA

By O. Mutteudorf
Acting Administrator
Defense Minerals Exploration Administration

U. S. GOVERNMENT PRINTING OFFICE 16—64000-2

EXPLORATION PROJECT CONTRACT
FRED BUSCHE
DOCKET NO. DMEA-2077

EXHIBIT "A"

Statement of the Work

It is proposed to dig 4 trenches having an aggregate length of 600 feet and to cut test samples from the rock exposed in the bottom of the trenches. The location of the trenches and the taking of samples shall be as directed by the Government.

The estimated time of completion is sixty (60) days.

The estimated total cost of the project is $1,850.00

Fixtures and improvements		
None		
Operating Equipment		
To be rented:		
Shovel or bulldozer - 32 hours @$10.00/hr.		$ 320.00
To be purchased:		
None		
To be furnished by Operator		
Small tractor (Cost $3,000) monthly depreciation 2 months @ $50/mo.	$ 100.00	
Automobile - 500 miles @ 7¢/mi.	35.00	135.00
Labor and Supervision		
Cleaning trenches - 16 shifts @ $14.00 plus insurance, etc. $1.40	246.00	
Sampling - 60 shifts @ $14.00 plus insurance $1.40	924.00	
Supervision	80.00	1,250.00
Small tools		145.00
ESTIMATED TOTAL COST OF PROJECT		$1,850.00

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 2077

Date received 9-17-51

Participation

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. SEP 17 PM 1951

U.S. Dep't of the Interior
Defense Minerals Adm., Washington, D.C.

Fred Busche
P.O. Box 811
Riverdale, N. J.

Name and address of applicant

Date July 30, 1951

FILL IN THIS BLOCK

Date of application May 21, 1951

Estimated cost $10,000.00

Mineral or metal Graphite

Percentage of Government participation one-half

Location of mine Riverdale, New Jersey

Date of filing MF-100 May 21, 1951

DMA Docket Number, if available 2077

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? Individual see MF100
*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. see MF100
*5. Are you the owner or the lessee of the property? see MF100
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. none
7. If lessee, attach a copy of the lease and state if it is in good standing. ------

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. see shedule
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)? $5,000.00

*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. see schedule

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. see schedul

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. Bloomingdale Mining Co.

*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. Riverdale, Susquehanna and Erie R.R.gd. roads

*13. State source and quantity of water available for operations and its sufficiency at all seasons. small brook on land State amount of power to be used, rate per hour or other cost, and source. 10 hp. pump.Electric available.

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

15. State in detail how the ore could be shipped and how and where milled. By railroad from milling plant on land.

*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. see MF100

(*b*) State briefly the known history and production of adjoining and neighboring properties. see MF100

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. see MF100

*17. Production: Not until exploration completed.

(*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.) Not 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? Graphite.

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

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. see schedule

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. Two miners @ $2.00per hr.

(*b*) Supervisors, by numbers and positions, with salaries of each. none

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings Electric line$500.00. $500.0

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings. Electric line

(*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. Power hoist $25.per day.Crane $500.Air compressor etc.$50.perday

(*f*) Cost of rental for equipment which the operator proposes to rent. see (e) above

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

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

(*i*) Cost of power, water, utilities, and any other items not provided for above. see schedule

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. see schedule

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.

Fred Buscle
(Name of company)

By _____
(Signature of authorized official)

July 30, 1951
(Date)

_____
(Title)

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

*Same as footnote on page 1.

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

Form MF-103

U.S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

SCHEDULE

8. Real Estate $30,000.00. Personal property $5,000.00
Liabilities none.
10. A tract of land containing approximately 49 acres in the borough of Riverdale, County of Morris and State of New Jersey.
(b) Same as (a).
21. It will take about four months to open the old mine now on the property and to pump out the water and core drill the land.
22. This property had been previously owned and mined by the Bloomingdale Mining Co. Mr. John E. Decker, who worked in this mine many years ago says there is a lot of good ore in the mine.
23(g) Small tractor, bars, shovels etc. $20.00 a day.
(h) Picks and shovels at $2.50 each and bars at $6.00 each.
(i) Electric power about $.03 per K.W.
Supplement-Exploratory core drilling-about 500 lineal feet of holes @ $6.00 per foot.
24. Open and timber top existing mine-four weeks
Pump out water and explore existing mine-four to six weeks.
Exploratory core drilling-six to eight weeks.
Whole operation should not be more than four months.

Fred Busch
Box 811, Rhinebeck, N.J

DMEA 2077 Flake Graphite
Contract No. Idm-8[illegible]57 50%

$1,850 = Amount of Contract

amounts allowed
Monthly Progress Reports
July 195- Aug. 195- Sept 195-

1)	none	Independent Contract	—	—	—	
2)	1,250.00	Labor & Supervision Supervision	420.- 40.-	332.- 40.-	—	565 lineal feet of trenches were sampled 63 samples
3)		Oper. Mat. & Supplies	—	—	—	
4) a	$320.00	Oper. Equipment Rental Purchase	420.-	126.-	300.-	1778.00 / 565 = $3.14 cost per ft. of trench
b	none		—			
c	135.00	Deprs. Allow	50.-	50	—	
5)	None	Rehab. & Rep.	—	—	—	
6)	none	New Bldg & Installation	—	—	—	
7)	145	Miscellaneous	—	—	—	
			930.00	548	300	Last Report
			548.00			Contract work Complete
			300.00			
			$1778.00			Total cost

Final narrative report from operator dated Sept. 11, 195-
Work completed Sept. 9, 195-

Gov. share 50% $889.00

Form MF-104 (Rev.)
(April 1952)

DEPARTMENT OF THE INTERIOR
Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

NOV 14 1952

Month of Sept., 1952 Docket No. DMEA 2077 Contract No. IdmE 257
Operator's Name Fred Busche Minerals
Address Box 811, Riverdale, N.J. Flake Graphite
Contract Amount, $ 1,850 Government Participation: 50% Amount, $ 925.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	None	$752.00	$752.00			
Supervision	None	80.00	80.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental Bulldozer	$30.00	546.00	626.00			
Rental-Compressor	220.00	None	220.00			
Purchase						
Depreciation	None	100.00	100.00			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$300.00	1478.00	1773.00			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Sept. 11, 1952 Payee Fred Busche
Fred Busche
Per Title Operator

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 150.00

Signature /s/ W.F. Owen, Jr.
(Authorized Certifying Officer)

Date 11/10/52 Vou. No. DMEA-13
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E257 in accordance with the terms of the contract.

Signature Kenneth M. Earl Title Minerals Technologist Date Sept. 11, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. F. Miller Title Acting Exec. Officer DMEA Field Team Date 11/3/52

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. 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.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 14 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Sept. 195 2 Docket No. DMEA 2077 Contract No. Dms 257
Operator's Name Fred Buesche Minerals
Address Box 811, Riverdale, N.J. Flake Graphite

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core		CONTRACT COMPLETED						
Churn								
Auger								
Stripping								
Trenching & Sampling	ft.	$300.00		$1778.00	565	$3.147	600	$3.082
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		300.00		1778.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								$1,850.00

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.

Date Sept. 11, 1952 Operator Fred Busche
Fred Busche
Per Title Operator

REMARKS:

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.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

U. S. GOVERNMENT PRINTING OFFICE 205676

COPY

Re:Docket No.DMEA 2077
Contragt No. IdmE 257
Mineral-Flake Graphite

Item 4

Ernest Hartwig
Licensed Blaster-Concrete Breaking
North Maledon Ave.
Paterson,R.D.3,N.J.

Rental of Air Compressor including 2 men
to operate pneumatic tools.

4 days @ $55.00 per day $220.00

Certified transcript
Fred Busche
Fred Busche
Operator

COPY

Re: Docket No. DMEA 2077
Contract No. IdmE 257
Mineral-Flake Graphite

Item 4

G.E.Spata
Excavating & Dredging
87 Schuyler Ave.
Pompton Lakes, N.J.

8 hours @ $10.00 per hour $80.00

Bulldozing trenches

Certified transcript
Fred Busche
Fred Busche
Operator

Item 4

Docket No. [redacted] 2077
Contract No. Idm-2257
Mineral-Flake Graphite

Sept.11,1952

NARRATIVE DESCRIPTION

This report is to accompany the third and final progress report on exploration work at the Fred Busche graphite deposit, Riverdale,N.J.,and covers the period from Sept.1 through Sept.9, 1952.

On Sept.4,Kenneth M.Earl,Bureau of Mines Engineer,arrived at the project to supervise the cutting of samples from the trenches.

A total of 63 samples,averaging 5 pounds per foot,were taken from 565 lineal feet of trenches. This work was completed Sept.9,1952.

As one of the trenches crossed the access road to the project,a bulldozer was used to back-fill that portion of the trench after the sample was taken.

All work to be done under this contract has been completed.

Fred Busche

Fred Busche,Operator

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 3 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1952 Docket No. DMEA 2077 Contract No. IdmE-257
Operator's Name Fread Busche
Address Box 811, Riverdale, N.J.
Minerals Flake Graphite
Contract Amount, $ 1,850.00 Government Participation: 50 % Amount, $ 925.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	$332.00	$420.00	$752.00			
Supervision	$ 40.00	40.00	80.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental Bulldozer	126.00	420.00	546.00			
Purchase						
Depreciation 1 month	$50.00	50.00	100.00			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$548.00	$930.00	$1478.00			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Sept. 8, 1952 Payee Fred Busche

Per _____ Title Operator

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$_____

Signature _____
(Authorized Certifying Officer)

Date _____ Vou. No. _____
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E 257 in accordance with the terms of the contract.

Signature Kenneth M. Eare Title Mineral Tech. Date Sept 8, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature McKenny Ulosich Title Executive Officer Date 9-18-52

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. 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.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 3 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1952 Docket No. DMEA 2077 Contract No. IdmE-257
Operator's Name Fred Busche Minerals Flake Graphite
Address Box 811, Riverdale, N.J.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core		NO	UNITS	COMPLETED				
Churn								
Auger								
Stripping								
Trenching	ft.	$548.00		$1478.00			600	$3.082
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		548.00		1478.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								$1,850.00

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.

Date Sept. 8, 1952 Operator Fred Busche

Per _____ Title Operator

REMARKS: Since no unit of this contract is complete until the sample is taken, the unit costs will appear on a subsequent progress report.

→ 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.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

U. S. GOVERNMENT PRINTING OFFICE 205676

RE: Docket No. DMEA 2077
Contract No. IdmE 257
Mineral- Flake Graphite

Item 4

C.E.Spatz
Excavating & Dredging
87 Schuyler Ave.
Pompton Lakes,N.J.

12 3/5 hours @ $10.00 per hour $126.00

Bulldozing trenches

Certified transcript
Fred Busche
Fred Busche

Item 4

Re: Docket No. DMEA 2077
Contract No. IdmE 257
Mineral- Flake Graphite

Item 2

LABOR

John Glynis Riverdale, N.J.	4 days, 5 3/4 hours @ $14. per day	$66.00
Edgar Burkhardt POmpton Lakes, N.J.	6 days @ $14.00 per day	84.00
Don Tracey Butler, N.J.	7 days @ $14.00 per day	98.00
James Decker Butler, N.J.	6 days @ $14.00 per day	84.00
Total labor, month of August		$ 332.00

Certified transcript
Fred Busche
Fred Busche

Item 2

Re: Docket No. DMMA 2077
Contract No. IdmE 257
Mineral-Flake Graphite

Item 2

Supervision ($40.00)

This represents time of the operator devoted exclusively to supervision of operations.

Certified

Fred Busche
Fred Busche
Operator

Docket No. DMEA 2077
Contract No. IdmE 257
Minerals Flake Graphite

NARRATIVE DESCRIPTION

This report is to accompany the second monthly progress report on exploration work at the Fred Busche graphite deposit, Riverdale, N.J.

During the period the work done under this contract consisted of bulldozing one trench 150 ft. long and hand-cleaning 190 ft. of trenches. Because of heavy rains it was necessary to re-clean portions of the trenches several times in preparation for the taking of samples.

At the close of this period the trenches are in readiness for sampling.

Fred Busche
Fred Busche
Operator

Sept. 8, 1952

-104 (Rev.)
April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER

313 2

Month of July, 1952 Docket No. DMEA 2077 Contract No. IdmE-257
Operator's Name Fred Busche Minerals Flake Graphite
Address Box 811, Riverdale, N.J.
Contract Amount, $ 1,850.00 Government Participation: 50 % Amount, $ 925.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	420.00	--	420.00			
Supervision	40.00	--	40.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment: Bulldozer						
Rental	420.00	--	420.00			
Purchase						
Depreciation 2 mo.	50.00	--	50.00			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	930.00	--	930.00			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Aug. 5, 1952 *Payee Fred Busche
Fred Busche

Per Title Operator

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$

Signature
(Authorized Certifying Officer)

Date Vou. No.
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. DM-E 257 in accordance with the terms of the contract.

Signature H. L. Burnette Title Mining Engineer Date 8/12/52

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature McKenzie Moseley Title Executive Officer Date 8-12-52

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. 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.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

U. S. GOVERNMENT PRINTING OFFICE 205675

[redacted]-104A
[redacted] 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

[redacted] 13 [redacted]2

Month of July 1952 Docket No. DMEA 2077 Contract No. dm 257

Operator's Name Fred Busche Minerals Flake Graphite

Address Riverdale, New Jersey - Box 311

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts		NO UNITS CHARGED						
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching	ft.	930.00		930.00			600	3.032
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		930.00		930.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								1,850.00

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.

Date Aug. 5, 1952 Operator Fred Busche

Fred Busche

Per Title Operator

REMARKS: Since no unit of this contract is complete until the sample is taken, the unit costs will appear on a subsequent progress report.

→ 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.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

U. S. GOVERNMENT PRINTING OFFICE 205676

Docket No. DMEA 2077
Contract No. IdMR-257
Minerals - Flake Graphite

NARRATIVE DESCRIPTION

This report is to accompany the first monthly progress report on exploration work at the Fred Busche Graphite deposit, Riverdale, N. J. It is intended to summarize all work done to July 31, 1952 and as such will cover some work done in June.

During the period the work done under this contract consisted of bulldozing 450 ft. of trenches to an average depth of 2 ft. and hand cleaning 375 ft. of trenches.

The work remaining to be completed under the contract is the bulldozing of one trench 150 ft. long and the cleaning of one and one half trenches of 225 ft. Thereafter the samples will be taken.

Fred Busche
Fred Busche
Operator

August 5, 1952

Project Summary Report

By: James Hopkins March 7, 1955

1. Docket No D MEA 2077- Graphite
Fred Busche Graphite Prospect
Morris County, New Jersey
Contract No Idm- E257

Operator: Fred Busche
P.O. Box 811
Riverdale New Jersey

Application MF103 May 21, 1951
Owners Property Rights: Owner of Tract 49 acres

2. Contract: dated February 19 1952
Work authorized

4 Trenches - total 600 feet	$846.00
Sample Trenches	924.00
Supervision	80.00
Total Cost of Project	$1850.00
Government participation @ 50%	$925.00

Amendments:
No 1 defines starting and completion dates. - Extension of dates

Work Completed:

565 Linear feet Trenches	$1478.00
63 samples taken	300.00
Total Cost	$1778.00
Government Participation @ 50%	$889.00

Work began June 23 1952 and was completed September 11, 1952. Operators final report received September 19 1952. Field Team final report received Novembe 14, 1952

There was no production

3. Audit: Report of Review issued March 9 1953

Total Cost as billed by Contractor	$1778.00
Exceptions	None
Total Accepted Cost	$1778.00
Government Participation @ 50%	$889.00

4. Certification: None issued

5 Comments::

The project was established to explore a graphite occurence in a pegmatite in Byram Gneiss.

The work was conducted in a satisfactory and workmanlike manner. The Operation was good Monthly reports were satisfactory. Supervision by Government Engineer was very good.

Geological Premise:

A pegmatite dying in a gneiss contained bunches of coarse graphite. The gneiss immediately enclosing the pegmatite contains flakes of graphite. It was believed the pegmatite contained graphite in commercial quantities. The work proved this thesis to be incorrect.

Geological Criteria on which project was founded:

A pegmatite containing bunches of graphite enclosed in gneiss containing flakes of graphite.

Geological Criteria developed during the project:

A graphite ore that could be milled was found. Milling ratio of concentration is 40 to 1. The final product has a value of $40.00 per ton. Thus one ton of ore in place possessed a value of $1.00. Not commercial

(over)

Future Possibilities

Results of this project do not justify further work as only a very low grade one can be expected.

Recommendation

The Field Team recommended withdrawal of further participation by the Government, and considered a certification of discovery or development is not justified.

The Alaska Mineral Division concurs in the recommendation of the Field Team.

☑ Audited P. R. 3-9-53 W[illegible] ANALYSIS SHEET -- DMEA PROJECT ☑ Actual Cost

☐ Certified Analysis as of 12-6-54 Incl. Voucher for Sept. 1954 ☐ Agreed Unit Costs

Name Fred Busche Docket No. 2077

State N. J. Commodity Graphite Idm-E No. 257

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting					
Raising					
Shafts					
Winzes					
Drilling (Specify)					
Surface Excavation		$1550.00		1478.00	1478.00
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify) Sampling →		$300.		$300.	$300.00
Totals		1850.00		$1,778.00	$1778.00

Flotation Tests made at College Park - No Cost to Project

Prepared by [signature]

63 - 5# samples taken.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
ROOM 13 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

3077

April 22, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED APR 24 1957

DATE	INITIALS	CODE
		220

Dr. Meredith E. Johnson
State Geologist
Dept. of Conservation and Economic
Development
520 East State Street
Trenton 25, New Jersey

Dear Doctor Johnson:

In my letter of April 17, I incorrectly stated that the DMEA contract with Fred Busche was to explore for manganese. A recheck of the records indicates that graphite was the mineral sought. I regret that I misinformed you.

Very truly yours,

Robert A. Laurence
Executive Officer, DMEA
Region V

RAL/as
cc
Opr. Com.
Millar
Lynch
Files

COPY

March 4, 1955

Memorandum

To: Mr. Jay L. Chambers

From: Lawrence O. Houk (initialed) L. O. H.

Subject: Closing dockets

The Nonmetallic Minerals Division have reviewed the following contracts and do not intend to make certifications of discovery or development:

Idm-E52	DMEA-1212	Idm-E	DMEA-
40	1213	217	1969
13	1679	244	1955
73	519	253	2134
74	1390	257	2077
76	1664	272	2360
93	812B	288	2344
97	1224	324	2255
121	1517	344	2156
124	1318	373	2439
125	1720	411	2528
129	1665	430	2524
134	1732	433	2620
140	1813	444	2646
179	1122	450	2681
180	1250	480	2725
191	1914	497	2776
195	1612	507	2840
198	1929	518	2785
211	1721	524	2909
216	2104	543	2950
		565	3030

DMEA
Summary Report
June 30, 1953

Operator:	Fred Busche
Address:	Box 811, Riverdale, New Jersey
Location:	Town of Riverdale, Morris County, N. J.
Docket No.:	DMEA-2077
Contract No.:	Idm-E257
Commodity:	Flake Graphite
Total Cost:	$1,850.00
Government Participation:	50% - $925.00
Duration of Contract:	June 28, 1952 to September 26, 1952

The purpose of this contract was to explore for graphite on a prospect known as the Fred Busche Graphite Deposit. The work authorized consisted of bulldozing, hand-cleaning, and cutting channel samples along the center line of 4 trenches having an aggregate length of 600 feet.

Work done under this contract was performed between June 23 and September 9, 1952. The four trenches cut by bulldozer averaged 2 feet deep, 10 feet wide for an aggregate length of 600 feet. A total 63 samples averaging 5 pounds per foot were cut from a channel 3" x 10" in the center of the trenches for a total distance of 565 linear feet.

Metallurgical testing and analytical determinations were made by the Government. One of the samples taken assayed 4.40 percent graphite, another 2.37 percent graphite, 12 of the samples assayed between 1.04 percent and 1.45 percent and all of the rest were under 1.0 percent graphite.

No estimate of tonnages was attempted.

Total cost of project	$1,778.00
Government share of cost	889.00 or 50%
Government share unexpended	36.00

The Field Team's final report as well as that of the operator has been completed and transmitted. Exploration results indicated mineralization of grade too low to be economically mined. It was recommended that a Certificate of Discovery or Development should not be issued.

Mr. Geo. C. Lesfrenge

FINAL REPORT ON COMPLETED CONTRACT

DMEA Docket No. 2077 - (Flake Graphite)

Contract No. Idm-E257

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 15 1953

Busche Graphite
Morris County, New Jersey

by

Defense Minerals Exploration Administration
Field Team, Region VIII

April 10, 1953

F.T. RPT.

Reviewed by
DMEA OPERATIONS CONTROL
4-26-53
(Date)

DMEA Docket No. 2077 - (Flake Graphite)
Contract No. Idm-E257
Fred Busche, Box 811, Riverdale, New Jersey
Busche Graphite Property, Morris County, New Jersey

The final examination and the supervision of the sampling were by K. M. Earl, representative of the Bureau of Mines; Ralph E. Van Alstine, representing the U. S. Geological Survey, examined the property.

Summary

Four trenches totaling 565 lineal feet were bulldozed, then cleaned by hand and sixty-three channel samples averaging 5 pounds per foot were cut under supervision of a Government engineer. The samples were analyzed at the College Park Station of the Bureau and beneficiation tests were run there on the three most promising samples.

Conclusions

The amount of good grade graphite found in the exploration program was insufficient to make a mine. The beneficiation tests indicate that this graphite would not be suitable for crucible manufacturing but could be used as lubrication grade.

Recommendations

The quantity and quality of graphite exposed during this project are considered unfavorable for a successful mining operation.

The Field Team recommends withdrawal of further participation in this exploration by the Government. Furthermore, the Field Team considers a certification for discovery or development of this deposit is not justified.

Introduction

On February 19, 1952 the Defense Minerals Exploration Administration and Fred Busche entered into an Exploration Project Contract to evaluate a graphite prospect known as the Fred Busche graphite deposit, Morris County, New Jersey. This contract was amended June 17, 1952 to extend the closing date from May 18, 1952 to September 26, 1952.

It was agreed that a Government engineer would supervise the sampling and that metallurgical testing and analytical determinations would be made by the Government.

Description of Work

Work completed under this contract consisted of bulldozing four trenches to bedrock, hand-cleaning with pick and shovel a strip 24 inches wide along the center line for the entire length of each trench, final cleaning of the bedrock by blowing

with compressed air, and cutting channel samples 3" x 10" in cross section along the center line of each trench with a pneumatic concrete breaker using 1" chisel point steel. A total of 63 samples averaging 5 pounds per foot were taken from 565 lineal feet of trenches. The work done under this contract was performed intermittently between June 23, 1952 and September 9, 1952.

The results of the assays on Government supervised samples are shown on the attached assay plan. Beneficiation tests were made on sample 4, trench 2, and on combined samples 13 and 14, from trench 1.

Following are the results of these tests as reported by Frank D. Lamb, Chief, Minerals Dressing Section, Bureau of Mines, College Park, Maryland:

"The two samples, marked (KT-1-13 and 14) and (KT-2-4), respectively, were crushed to pass a 10-mesh screen and tested separately by two procedures. The first procedure involved straight flotation using 2 pounds of sodium carbonate, 1 pound of sodium silicate, 1/2 pound of pine oil, and 1/2 pound of kerosene per ton of ore. Rougher concentrates were floated and cleaned twice without regrinding. This procedure was expected to yield the maximum amount of crucible-grade graphite. Results of the tests are shown in the following table:

Results of Flotation Tests Without Regrinding

Sample: KT-1-13 and 14

Product	Weight Recovered, Percent	Assay, Percent Carbon
+48-Mesh Concs.	1.2	79.5
-48-Mesh Concs.	3.1	40.9
Total	4.3	64.6

Sample: KT-2-4

Product	Weight Recovered, Percent	Assay, Percent Carbon
+48-Mesh Concs.	2.7	65.5
-48-Mesh Concs.	3.8	54.6
Total	6.5	59.3

"The above tests indicated that additional grinding and cleaning are required to increase the grade of the concentrates. Hence, tests were conducted on each sample which involved grinding 500-gram charges in a pebble mill for 10 minutes followed by rougher flotation as previously described and regrinding the concentrates for 15 minutes. The reground rougher concentrates were cleaned twice in a laboratory flotation machine. Results of these tests were as follows:

Results of Flotation Tests With Regrinding

Sample No.	Weight Recovered, Percent	Assay of Concs., Percent Carbon
KT-1-13 and 14	2.54	86.4
KT-2-4	5.56	75.5

"The concentrates produced by the second procedure were higher grade than in the first tests and in the case of sample KT-1-13 and 14 would meet chemical specifications for crucible grade graphite. However, the products would not be suitable for crucible manufacturing because of the fine size of the graphite.

"Microscopic examination of the cleaned concentrates revealed that they contain a large amount of fine-sized biotite. The complete elimination of biotite from the concentrates would probably result in concentrates suitable for use as lubricant graphite, but the most practical method of accomplishing this separation is not known and would require additional work."

The above samples from trench 1 and trench 2 as indicated on the assay plan were the only samples which contained enough graphite to warrant beneficiation tests.

Results of this exploration project do not justify further participation by the Government at this time.

Geology

The graphite occurs in hilly land with a moderate stand of trees and brush. As indicated in the Passaic Folio, the rock in the area is Byram Gneiss. The pegmatite strikes northeast and contains bunches of flake graphite. The gneiss and mica schist on either side of the pegmatite are graphitic, although the flakes in the gneiss are smaller than in the associated crystalline rocks. An assay plan is included with this report.

Project Expenditures

Total approved	$1,850.00
Total cost of project	1,778.00
Government's share of cost	889.00 or 50%
Government's share unexpended	36.00

There was no production during the operation.

Efficiency of Operations

Because of the lack of experience in mining on the part of the operator, work was not conducted as efficiently as would otherwise be obtained, since it was not practicable for a Government engineer to be at the project to sample each trench as it was excavated. In accordance with the contract the Government

engineer supervised the sampling after trenching had been completed, and some additional work was necessary to reclean portions of the bedrock prior to sampling due to rains washing in the walls of the trenches.

Equipment

Work on this project was on a rental basis as shown in the progress reports. Therefore, no equipment was purchased for the project.

W. T. Millar

W. T. Millar, Executive Officer
Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

John B. Hanley

John B. Hanley, U. S. Geological Survey
Member, Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

FILE COPY
SURNAME:

Chambers

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

BW

MAR 1 2 1953

Mr. W. T. Miller
Executive Officer
DMEA Field Team, Region VIII
Eastern Experiment Station
College Park, Maryland

3/12/53 J.C.

Dear Mr. Miller:

As a result of Mr. Talbert's recent visit, he has completed and prepared the following Reports of Review:

Contract No.	Docket No.	Operator
E255	DMA-2248	Ozark-Mahoning Company
E257	DMA-2077	Fred Bunche

These Reports are transmitted to you for distribution in accordance with Section 3 of DMEA Circular 19, Supplement 4, dated October 9, 1952.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

Enclosure

WBorovies/vb
March 12, 1953

Copy to: Docket
Admr. Reading File
Mr. Chambers

DMEA
Summary Report
January 28, 1953

Operator:	Fred Busche
Location:	Town of Riverdale, Morris Co., New Jersey
Address:	Box 811, Riverdale, New Jersey
Docket No.:	DMEA-2077
Contract No.:	Idm-E257
Commodity:	Flake Graphite
Total Cost:	$1,850.00
Government Participation:	50% - $925.00
Duration of Contract:	(Amended) To start June 28, 1952 and to be completed September 26, 1952

The purpose of this contract was to explore for strategic graphite on a prospect known as the Fred Busche Graphite Deposit.

The work authorized consisted of bulldozing, hand-cleaning, and cutting channel samples along the center line of 4 trenches having an aggregate length of 600 feet.

Work done under this contract was performed intermittently between June 23, 1952 and September 9, 1952. A total of 63 samples averaging 5 pounds per foot were taken from 565 linear feet of trenches.

Metallurgical testing and analytical determinations were made by the Government. One of the samples taken assayed 4.40 percent graphite, another 2.37 percent graphite, 12 of the samples assayed between 1.04 percent and 1.45 percent and all of the rest were under 1.0 percent graphite.

The results of this exploration project were unfavorable and did not justify further participation by the Government.

No estimate of tonnages was attempted.

Total cost of project	$1,778.00
Government share of cost	889.00 or 50%
Government share unexpended	36.00

FILE COPY
SURNAME:

Robertson
Hawk
Selfridge

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

Mr. W. T. Millar
Acting Executive Officer, DMEA
Field Team, Region VIII
Bureau of Mines
Eastern Experiment Station
College Park, Maryland

Subject: Docket No. DMEA-2077 - Graphite
Fred Busche Graphite Prospect
Morris County, New Jersey
Contract No. Idm-8257

Dear Mr. Millar:

Please forward to Mr. Fred Busche, P. O. Box 811, Riverdale, New Jersey, one copy of the assay map which was made for the subject property and accompanied the Final Field Inspection Report, October 30, 1952.

In a separate letter to Mr. Busche, we are sending an excerpt of that part of the report pertaining to the flotation tests on two of the trench samples. A copy of this letter is enclosed herewith for your information and files.

J.C. 1-19-53

Sincerely yours,

George G. Selfridge (JB)
Chairman, Operating Committee

Approved:

J. H. Hedges (JB)
Member, Bureau of Mines

A. R. Kinkel, Jr. (JB)
Member, Geological Survey

Enclosure

JTRobertson:gad 12/29/52
Copy to: Admr. R. File
Operating Committee
Docket File
Mr. Hawk

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

Robertson
Smith
Hedges
Hartwell
Selfridge

JAN 19 1953

Mr. Fred Busche
P. O. Box 811
Riverdale, New Jersey

Subject: Docket No. DMEA-2077 - Graphite
Fred Busche Graphite Prospect
Morris County, New Jersey
Contract No. IAm-2277

Dear Mr. Busche:

Reference is made to your letter of December 15, 1952 regarding your request for the engineer's findings on the subject property. We are requesting Mr. W. T. Millar, Executive Officer, DMEA, Bureau of Mines, College Park, Maryland, to send you a copy of the map showing the assay results of the trench sampling.

We are unable to send you the full report, but the following excerpt from the engineer's report gives you the results of a beneficiation test on two of the better grade samples; on Sample No. 4, Trench 2, and on a combined Sample No. 13 and 14, Trench 1.

The two samples, marked (KT-1-13 and 14) and (KT-2-4), respectively, were crushed to pass a 10-mesh screen and tested separately by two procedures. The first procedure involved straight flotation using 2 pounds of sodium carbonate, 1 pound of sodium silicate, 1/2 pound of pine oil, and 1/2 pound of kerosene per ton of ore. Rougher concentrates were floated and cleaned twice without regrinding. This procedure was expected to yield the maximum amount of crucible-grade graphite. Results of the tests are shown in the following table:

Results of Flotation Tests Without Regrinding

J.C. 1-19-53

Sample: KT-1-13 and 14

Product	Weight Recovered, Percent	Assay, Percent Carbon
+48-Mesh Conc.	1.2	79.5
-48-Mesh Conc.	3.1	60.9
Total	4.3	64.6

Sample: KT-2-4

Product	Weight Recovered, Percent	Assay, Percent Carbon
+48-Mesh Comes.	2.7	65.5
-48-Mesh Comes.	3.8	54.6
Total	6.5	59.3

The above tests indicated that additional grinding and cleaning are required to increase the grade of the concentrates. Hence, tests were conducted on each sample which involved grinding 500-gram charges in a pebble mill for 10 minutes followed by rougher flotation as previously described and regrinding the concentrates for 15 minutes. The reground rougher concentrates were cleaned twice in a laboratory flotation machine. Results of these tests were as follows:

Results of Flotation Tests with Regrinding

Sample No.	Weight Recovered, Percent	Assay of Comes., Percent Carbon
KT-1-13 and 14	2.54	86.4
KT-2-4	5.56	75.5

The concentrates produced by the second procedure were higher grade than in the first tests and in the case of sample KT-1-13 and 14 would meet chemical specifications for crucible grade graphite. However, the products would not be suitable for crucible manufacturing because of the fine size of the graphite.

The map, together with the above test data, should, we think, provide you with all the essential information that you may require.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

JTRobertson:gad 12/29/52
Copy to: Admr. R. File
Operating Committee (2)
Docket File
Field Team, Region VIII

FILE COPY
SURNAME:

Robertson

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

January 15, 1953

Memorandum

To: Chairman, Operating Committee

From: J. T. Robertson, Nonmetallic Minerals Division

Subject: Docket No. DMEA - 2077 - Graphite
Fred Busche Graphite Prospect
Morris County, New Jersey
Contract No. Idm-8257

J.C. 1-19-53

Re: A request from Mr. Fred Busche, Operator, for information on engineer's findings.

Attached is a draft of a letter for the Administrator's signature in reply to a request for information on the engineer's findings as a result of sampling and flotating tests.

The letter to be sent to the operator provides him with an excerpt of the Metallurgical report on the subject by Frank D. Lamb, Chief, Minerals Dressing Section, Bureau of Mines, College Park, Maryland. (See Final Field Inspection Report, October 30, 1952, by Kenneth M. Earl, Field Team Engineer). The excerpt being sent does not make any economic interpertation of the test results and no amplification is made of the flotation test results.

However, for the benefit of the Operating Committee and the Administrator there is here submitted a brief analysis, or breakdown, of the results from the best test.

The best result from flotation treatment was that made from combined samples No. 13 and No. 14, both cut from Trench No. 1. (See Assay map). This ore assayed 2.37% carbon; using it as the head assay, a graphite concentrate, 2.54% by weight, was produced, assaying 86.4% carbon.

Based on an assumed 1 ton or 2,000 lb. lot, the metallurgy is substantially as follows:

<u>Heads</u>: 2000 lbs - Assay 2.37% carbon, 47.4 lb carbon per ton.
<u>Concentrate</u>: 2.54% of 2,000=
50.8 lbs. - Assay 86.4% carbon 43.9 lb carbon recovered.
<u>% Recovery</u>: 43.9/47.4 = 92.6%

Ratio of Concentration: 100 to 2.54 or 39.4 to 1
Say 40 to 1

Mesh: Minus 50 mesh. All concentrate produced was minus 50 mesh and due to the fineness this graphite is non-flake or non-crucible grade.

Value of Concentrate: The product is not crucible grade and would be marketed in competition with amorphous graphite at prices ranging from $20.00 to $40.00 per ton.

Conclusion: It is obvious that an ore requiring 40 tons of ore to make 1 ton of concentrate worth $40.00 a ton would be unprofitable to mine and mill. The ore is too low grade and not amenable to being made into the higher grades of flake graphite, commanding four to five times the prices of amorphous grades. The gross value of the ore in place is only about 1.00 per ton.

The work on this exploration project has been completed but the final audit report has not been made. On receipt of final audit report, the operator will be notified by the usual form letter that no discovery is made, but in the meantime the information to be sent to the operator as the results of assays and flotation tests could be sent to him as stated in the letter to be signed by the Administrator.

SIGNED

Jasper T. Robertson
Nonmetallic Minerals Division

JTRobertson:fls 1/15/53

Copy to: Admr. R. File
Docket File
Mr. Ipuk

600

December 30, 1952

DMEA-2077
Fred Bucher
Graphite

Memorandum

To: Chairman, Operating Committee

From: Chief, Nonmetallic Minerals Division

Subject: Release of information from DMEA project.

The Operator should be supplied with the factual data obtained on the portion of the project in which he paid a portion of the costs.

The Government supervised sampling, and performed the assaying and beneficiation tests. The results of the beneficiation tests are included in the letter to the Operator for a decision by the Operating Committee on their policy with respect to the release of information.

This Division recommends that only the assay map without comment be forwarded to the Operator.

LGHouk:gad 12/30/52

Copy to: Admr. R. File
Docket File
Mr. Houk

Ceramic & Fertilizer
Materials Branch

Box 31 Riverdale, N.J.
Dec 15, 1952

Mr. Lawrence G. Hook.
Chief, Non Metallics Minerals Division
U.S. Bureau of Mines
Washington, D.C.

Re. Docket No. 2077
Contract No IDME 257
Minerals Flake Graphite

Dear Sir.

Have been advised by Mr Kenneth Earl, Mine Engineer, to write to you for my report on the findings of the exploration for graphite, which we completed in September.

Thank you in advance for a prompt reply

Yours very truly

Fred Busché

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 22 1952

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 1/19/53

REFERRED TO:
1. Operating Committee
2.
3.
4.

FOR:

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

REMARKS: This is Mr. Busch's letter request a report on engineer's findings

Check (X) before the items needing attention.

Robertson
Initials of sender.

Letter under discussion

GPO 16—63815-1

DEC 18 10 00 PM '52
BUREAU OF MINES
WASHINGTON, D.C.

FILE COPY
SURNAME:

Robertson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

BW

December 3, 1952

Memorandum

To: Mr. C. O. Mittendorf, Administrator

From: Jasper T. Robertson, Nonmetallic Minerals Division

Subject: A Review of Docket No. DMEA-2077 - Graphite
Contract: Idm-E257
Date: Feb. 19, 1952 Amount $1,850
Project work started June 23, 1952
Project work completed Sept. 11, 1952
Property: Fred Busche Graphite Prospect
Morris County, New Jersey
Applicant: Fred Busche
Box 811
Riverdale, New Jersey

9/17/51 Application received. (MF-103 date 5 21/51)
9/28/51 Referred to Region VIII for Field Team examination.
11/19/51 Field examination report received. On-site examination by Stanley A. Feitler, USBM. Report recommends surface trenching and sampling at estimated cost of $1,850.
2/19/52 Contract approved in amount of $1,850.
6/17/52 Contract amended to extend time of starting work. Amendment No. 1.
6/23/52 Project work started.
9/11/52 Project work completed. Operator's final Progress Report for September includes a final operator's narrative report.
11/14/52 Received Final Field Team Report. Final Report dated 9/30/52 written by Kenneth M. Earle, Engineer, USBM. Report includes some beneficiation tests on two samples, and also an assay map.

Resume:

The operation was conducted in a satisfactory manner. Four trenches were cut across a graphite-enriched zone in a gneiss formation. 565 linear feet of trenching was made and the exposed outcrop cut by 63 samples which assayed as follows:

Trench No. 1	160 ft. long	13	samples	averaged	0.65%	Graphite
Trench No. 2	160 ft. "	16	"	"	0.84%	"
Trench No. 3	85 ft. "	11	"	"	0.54%	"
Trench No. 4	160 ft. "	18	"	"	0.50%	"
			Weighed Average		0.65%	"

Flotation tests made on two of the highest grade samples indicate that the product is unsuitable for crucible-grade flake graphite.

Comment:

The project did not prove up a significant discovery of strategic graphite.

Project expenditures: (Subject to audit.)

Total of contract	$1,850.00
Total cost of project	1,778.00
Government's share @ 50%	889.00
Government's share unexpended	36.00

No operating equipment was purchased for the project; therefore, no salvage material or equipment left over.

JTRobertson:gad 12/3/52

Copy to: Admr. R. File
Docket File
Mr. Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
College Park, Maryland

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 4 1952

November 3, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region VIII

Subject: Fred Busche property, Morris County, New Jersey
Contract Idm-E257, Docket DMEA-2077 - (Graphite)

Attached are the original and three carbons of the Final Field Inspection Report by Kenneth M. Earl, for Contract Idm-E257.

W. T. Millar

W. T. Millar

Attachments - 4

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 4 1952

Final Field Inspection Report
October 30, 1952
by
Kenneth M. Earl, Engineer

1 - DMEA Docket No. 2077 - (Graphite)
Contract No. Idm-E257
Fred Busche, Box 811, Riverdale, New Jersey
Fred Busche property, Morris County, New Jersey

2 - On February 19, 1952 the Defense Minerals Exploration Administration and Fred Busche entered into an Exploration Project Contract to evaluate a graphite prospect known as the Fred Busche graphite deposit, Morris County, New Jersey. This contract was amended June 17, 1952 to extend the closing date from May 18, 1952 to September 26, 1952.

It was agreed that a government engineer would supervise the sampling and that metallurgical testing and analytical determinations would be made by the government. The results of the assays on government supervised samples are shown on the attached assay plan. Beneficiation tests were made on sample 4, trench 2, and on combined samples 13 and 14, from trench 1.

Following are the results of these tests as reported by Frank D. Lamb, Chief, Minerals Dressing Section, Bureau of Mines, College Park, Maryland:

"The two samples, marked (KT-1-13 and 14) and (KT-2-4), respectively, were crushed to pass a 10-mesh screen and tested separately by two procedures. The first procedure involved straight flotation using 2 pounds of sodium carbonate, 1 pound of sodium silicate, 1/2 pound of pine oil, and 1/2 pound of kerosene per ton of ore. Rougher concentrates were floated and cleaned twice without regrinding. This procedure was expected to yield the maximum amount of crucible-grade graphite. Results of the tests are shown in the following table:

Results of Flotation Tests Without Regrinding

Sample: KT-1-13 and 14

Product	Weight Recovered, Percent	Assay, Percent Carbon
+48-Mesh Concs.	1.2	79.5
-48-Mesh Concs.	3.1	40.9
Total	4.3	64.6

Reviewed by
DMEA OPERATING COMMITTEE

11-10-52
(date)

Sample: KT-2-4

Product	Weight Recovered, Percent	Assay, Percent Carbon
+48-Mesh Concs.	2.7	65.5
-48-Mesh Concs.	3.8	54.6
Total	6.5	59.3

"The above tests indicated that additional grinding and cleaning are required to increase the grade of the concentrates. Hence, tests were conducted on each sample which involved grinding 500-gram charges in a pebble mill for 10 minutes followed by rougher flotation as previously described and regrinding the concentrates for 15 minutes. The reground rougher concentrates were cleaned twice in a laboratory flotation machine. Results of these tests were as follows:

Results of Flotation Tests with Regrinding

Sample No.	Weight Recovered, Percent	Assay of Concs., Percent Carbon
KT-1-13 and 14	2.54	86.4
KT-2-4	5.56	75.5

"The concentrates produced by the second procedure were higher grade than in the first tests and in the case of sample KT-1-13 and 14 would meet chemical specifications for crucible grade graphite. However, the products would not be suitable for crucible manufacturing because of the fine size of the graphite.

"Microscopic examination of the cleaned concentrates revealed that they contain a large amount of fine-sized biotite. The complete elimination of biotite from the concentrates would probably result in concentrates suitable for use as lubricant graphite, but the most practical method of accomplishing this separation is not known and would require additional work."

The above samples from trench 1 and trench 2 as indicated on the assay plan were the only samples which contained enough graphite to warrant beneficiation tests.

Results of this exploration project do not justify further participation by the government at this time.

3 - Work done under this contract consisted of bulldozing four trenches to bedrock, hand-cleaning with pick and shovel a strip 24 inches wide along the center line for the entire length of each trench, final cleaning of the bedrock by blowing with compressed air, and cutting channel sample 3" x 10" in cross section along the center line of each trench with a pneumatic concrete breaker using 1" chisel point steel. A total of 63 samples averaging 5 pounds per foot were taken from 565 linear feet of trenches. The work done under this contract was performed intermittently between June 23, 1952 and September 9, 1952.

4 - The graphite occurs in hilly land with a moderate stand of trees and brush. As indicated in the Passaic Folio, the rock in the area is Byram Gneiss. The pegmatite strikes northeast and contains bunches of flake graphite. The gneiss and mica schist on either side of the pegmatite are graphitic, although the flakes in the gneiss are smaller than in the associated crystalline rocks. An assay plan is included with this report.

5 - Project expenditures:

Total approved	$1,850.00	
Total cost of project	1,778.00	
Government's share of cost	889.00	or 50%
Government's share unexpended . .	36.00	

There was no production during the operation.

6 - Because of the lack of experience in mining on the part of the operator, work was not conducted as efficiently as would otherwise be obtained since it was not practicable for a government engineer to be at the project to sample each trench as it was excavated. In accordance with the contract the government engineer supervised the sampling after trenching had been completed, and some additional work was necessary to reclean portions of the bedrock prior to sampling due to rains washing in the walls of the trenches.

7 - Work on this project was on a rental basis as shown in the progress reports. Therefore, no equipment was purchased for the project.

Kenneth M. Earl

Kenneth M. Earl
Minerals Technologist

COPY

Box 811
Riverdale, N. J.
Sept. 24, 1952

Mr. McHenry Mosier, Executive Officer
DMEA Field Team, Region VIII
College Park, Maryland

Subject: Docket No. DMEA 2077, Contract No. Idm-E257, Fred Busche, Riverdale, N. J. Flake Graphite

My dear Mr. Mosier:

This is the first opportunity I have had to thank you for sending such a capable and cooperative man as Mr. Earl to supervise the taking of graphite samples. I do know that if there is any future work with that kind of assistance it will work out fine.

My very best regards to you, I remain

Sincerely

(S) Fred Busche

Commendation file

cc: Personnel
COMittendorf
HPGreenwald

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 29 1952

9/26/52

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
College Park, Maryland

Memorandum September 17, 1952

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Docket No. 2077 (Graphite) Fred Busche Project, Riverdale, N. J. Contract Idm-E257

Attached in quadruplicate is Kenneth M. Earl's Field Inspection Report of September 16 on subject contract.

McHenry Mosier

McHenry Mosier

Attachments (4)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 19 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
College Park, Md. September 16, 1952

Field Inspection Report
Sept. 8, 1952
by
Kenneth M. Earl

DMEA Docket No. 2077 (Graphite)
Fred Busche Project, Riverdale, N. J.
Contract Idm-E257

This contract consists of excavating with a bulldozer, hand-cleaning and sampling four trenches aggregating 600 feet. Work started about June 23, 1952.

It was previously arranged, because of the lack of mining experience on the part of the operator, and other considerations, that when the trenches were in readiness a Government engineer would supervise the cutting of the samples.

On August 28, a letter was received from Aro G. Gabriel, attorney for Mr. Busche, stating that all of the trenches were ready for sampling.

The Government engineer arrived at the project on Sept. 3, and the taking of samples commenced Sept. 4.

This report is intended to cover only the work done through August 31, but because the costs for bulldozing and hand cleaning were greater than the estimates in the contract, the following should be noted. At this time, Sept. 8, seventy-five percent of the sampling has been completed and it is indicated that the cost of sampling when added to previous costs will not exceed the total allowable costs for the project.

Kenneth M. Earl

Kenneth M. Earl

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
SEP 1 1952

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Y

Copy for FEJo[illegible]on, Wash. Office

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 1 - 1952

Fred Busche
Box 811, Riverdale, N.J.
Sept. 11, 1952

McHenry Mosier,
Executive Officer,
DMEA Field Team, Region VIII,
College Park, Maryland

Re: Docket No. DMEA-2077
Contract No. Idm-E257
Mineral-Flake Graphite

Dear Mr. Mosier:

Transmitted herewith is progress report to accompany Form MF-104 covering exploratory work accomplished from September 1, 1952 through Sept. 9, 1952.

The work to be performed under this contract has been completed and this is intended as the final report.

Very truly yours,

(signed) Fred Busche
Fred Busche

BUREAU OF MINES
WASHINGTON, D. C.

Nov 13 2 37 PM '52

xxxxxxxxxxxxxxxxx

College Park, Maryland

August 13, 1952

Mr. Fred Rusche
P.O. Box 811
Riverdale, N. J.

Re: Contract Idm-E257

Dear Mr. Rusche:

In the Operators Monthly Report, covering the period June 23 to July 31, 1952, it is noted that there has been spent $420.00 for trench cleaning labor which was estimated to cost $246.00. Also there has been spent $420.00 for bulldozer rental which was estimated to cost $320.00. These two items total $274.00 more than estimated.

The condition on August 1 as stated, was that there was still 150 feet of bulldozing and 225 feet of trench cleaning to be done to complete the work except for sampling.

It is brought to your attention that these over estimate costs will of necessity reduce the amount available for sampling, as the total cost of the project to the Government cannot exceed $925.00 which is 50 percent of the $1,850.00 specified in the contract.

If the money balance after completion of trenching and cleaning is not sufficient to cover the cost of sampling, any cost in excess of $1,850.00 will not be participated in by the Government and the cost will be for your account alone.

Very truly yours,

McHenry Mosier, Executive Officer
Bureau-Survey Field Team, Defense
Minerals Exploration Administration

HLBurmeister/fd

Copy to: DMEA files (2)
COMittendorf (2) ✓
CPStation files

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~
College Park, Maryland

August 12, 1952

Memorandum

To: C. O. Mittendorf, Acting Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Docket No. DMEA-2077, Contract IdmE-257, Fred Busche, P. O. Box 811, Riverdale, N.J. (Flake Graphite)

Attached is original and two copies of Contract Amendment dated June 17, 1952 which grants additional time for the operator to start work on the project.

Also attached are two carbon copies of the operator's monthly report with narrative description for July.

McHenry Mosier

McHenry Mosier

Enclosures

RECEIVED
AUG 18 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 13 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
College Park, Maryland

August 8, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Docket DMEA-2077, Contract Idm-E257
Fred Busche - (Flake Graphite)
Morris County, New Jersey

Attached is the original with three copies of the Field Inspection Report on subject docket, by Kenneth M. Earl, Bureau of Mines Engineer.

McHenry Mosier

Enclosure

AUG 8 1952

DMEA
Field Inspection Report
August 5 & 6, 1952

Kenneth M. Earl

Operator:	Fred Busche, Box 811
Address:	Riverdale, New Jersey
Docket No.:	DMEA-2077
Contract No.:	Idm-E257
Commodity:	Flake Graphite
Total Cost:	$1,850.00
Government Participation:	50% - $925.00
Duration of Contract (amended):	To start June 28, 1952 and be completed Sept. 26, 1952

The Busche deposit was visited on August 5 and 6, 1952. The progress to date and the work remaining to be completed was reviewed with the operator and his attorney, Aro G. Gabriel. Assistance was given in preparing the first monthly progress reports.

This contract consists of bulldozing, hand-cleaning and sampling four trenches aggregating 600 feet. Work started about June 23. Three of the above trenches, each 150 feet long and, on the average 2 feet deep, have been bulldozed. Two of these trenches and about one-half of the third trench have been cleaned to bed-rock with pick and shovel.

The work remaining to be done is 150 feet of bulldozing, 225 feet of hand-cleaning and the cutting of 600 feet of sample from the four trenches.

It is estimated that about one-half of the work to be done under this contract is completed.

Because of the lack of experience in mining on the part of the operator, work is not being conducted on as efficient a basis as would otherwise be attained. Also owing to the arrangement whereby a Government Engineer is to supervise the cutting of the final samples from the trenches, no sampling will be done until all the trenches have been excavated. Consequently, owing to the sand and mud being washed into the trenches from the current heavy rains, some additional work will be required due to the necessity of recleaning the trenches prior to sampling.

Kenneth M. Earl

Submitted August 7, 1952
by Kenneth M. Earl
U. S. Bureau of Mines

FILE COPY
SURNAME:

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

JUL 28 1952

600

Houk
Selfridge

Mr. McHenry Mosier
Executive Officer, Region VIII
Bureau of Mines
Eastern Experiment Station
College Park, Maryland

Subject: Docket No. DMA-2077 - Graphite
Fred Busche
Morris County, New Jersey
Contract Idm-5257 - $1,850.00

Dear Mr. Mosier:

Transmitted herewith is a memorandum from Chief Counsel's office on subject contract.

This office should be supplied with three copies of all amendments, the original and two copies, all signed by the Operator and the Executive Officer or the Acting Executive Officer.

Sincerely yours,

George C. Selfridge (JHB)

ACTING Chairman, Operating Committee
Defense Minerals Exploration
Administration

S.N.
7-28-52

LGHouk:mp 7/25/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Houk

Approved:

J. H. Hedges (JHB)
Member, Bureau of Mines

T. P. Thayer (JHB)
Member, Geological Survey

Enclosure

FILE COPY
SURNAME:

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

140

Posting

July 23, 1952

Memorandum

n.s. in R. + R.

To: Acting Administrator

From: Acting Chief Counsel

Subject: Amendment No. 1 to Contract No. Idm-E257, Docket No. DMEA-2077 - Fred Busche

We have reviewed the amendment to the above-described contract.

The amendment has been executed in behalf of the Government by W. T. Millar "for" the Executive Officer. This execution is improper. As the delegation under section 3 of Order No. 2684 runs only to Executive Officers, the signature on contract amendments should be by the Executive Officer, or the Acting Executive Officer, if such a designation is properly made. Therefore, the signature on the amendment should read, "W. T. Millar, Acting Executive Officer," if he is so designated in the absence of the Executive Officer.

Ordinarily, in a case of this nature, where the only effect of the amendment is to extend the time for beginning the work, we would not request that the amendment be re-executed. However, as the number of signed copies forwarded with the Executive Officer's memorandum is insufficient, and as additional copies of the amendment must be signed by the Operator, the amendment should be re-executed and properly signed by the Executive Officer.

/s/ A. E. Kane
A. E. Kane
Acting Chief Counsel

HCRubin/
AEKane/ema/7-23-52
cc: Mails & Files
Adm. Reading File
F. E. Johnson
J. L. Hofflund
H. C. Rubin
Chron.

July 11, 1952

DMEA-2077 - Graphite
Fred Busche

Telephone conversation between Mr Houk and Mr Millar of College Park 11?35 A.M. - 7/11/52 re: Contract for Fred Busche, Idm-E257

Mr. Millar said contract has been executed and all copies are at College Park. Will be sent to this office this afternoon.

L. G. Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
College Park, Maryland

July 11, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Contract IdmE-257 and Amendment
Docket No. DMEA-2077 - Graphite
Fred Busche
P.O. Box 811, Riverdale, N. J.

Attached are the original and two copies of Contract No. IdmE-257, together with three copies of the contract amendment.

McHenry Mosier

Attachments

JUL 14 1952

GLS 7-14-52

[redacted]
College Park, Maryland

June 17, 1952

Mr. Fred Bumke
P. O. Box 821
Riverdale, New Jersey

Dear Mr. Bumke:

In reference to Contract Idah-327, DMEA Docket 2077, covering exploration on your Idaho graphite deposit at Riverdale, New Jersey:

Attached is an amendment to this contract, thereby, the time for starting exploration work under this contract is extended to June 30, and the period for completion of the contract to 90 days after June 30.

Kindly sign all copies of the contract amendment retaining your copy as indicated at the top of page, and return the remaining five copies to us at your earliest convenience.

Yours very truly,

Mahlon Hosler, Executive Officer
Reconnaissance Field Team
Defense Minerals Exploration
Administration, Region VIII

Enclosures - 6

copy for DMEA Files 2
MKMaleen
FEJohnson ✓

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 18 1952

Mr. Johnson

College Park, Maryland

April 14, 1952

Mr. Fred Dunbe
P. O. Box 611
Riverdale, New Jersey

Subject: Fred Dunbe
Morris County, N. J.
Docket No. DMA-2577
Graphite
Contract IdE-257

Dear Mr. Dunbe:

In reference to my letter to you under date of February 20, 1952, enclosing five copies of Contract IdE-257:

Because the Government has obligated funds in connection with your contract it is urgent that you either accept or reject this contract. Accordingly, if we do not hear from you prior to May 15, 1952, it will be assumed that you are not interested in the exploratory work described in your application and your contract will be cancelled.

Yours very truly,

Mahlon Mosier, Executive Officer
Durham-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

McHM:rwa

copy for FEJohnson
JTRobertson
MEWalsori
DMRA Files 2

FILE COPY
SURNAME:

Robertson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C. 600

FEB 19 1952

Mr. McHenry Mosier
Executive Officer
DMEA Field Team, Region VIII
Eastern Experiment Station
College Park, Maryland

Subject: Docket No. DMEA-2077
Flake Graphite
Fred Busche
Morris County, New Jersey
Idm-E257 - 2/19/52
$1850 - 925.00

Dear Mr. Mosier:

Please find herewith the original and five copies of a contract covering the subject exploration project which have been signed by this office for the Government with register number and effective date as shown.

If the contract meets with your approval, present it to the Operator for his approval and signature. If any provisions are unsatisfactory to the Operator, return all copies to this office along with suggested changes for consideration.

After signing of the contract, one copy is to be given to the Operator, one copy retained for your files, and the remaining copies, including the original, are to be returned to this office as soon as possible.

A copy of the contract required by the Regional Finance Office will be forwarded directly by the Washington Finance Section.

Sincerely yours,

2/19

(signed) FRANK E. JOHNSON (JHB)

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures 6

Approved:

W. H. Hodges (JHB)
Member, Bureau of Mines

J. P. Thayer (JHB)
Member, Geological Survey

JTRobertson:gad 2/12/52
Copy to: Admin. Reading File
Docket File
Mr. Houk
Mr. Dietrich, 3526
Mr. Norton, G-228, GSA Bldg.

R.

FILE COPY
SURNAME:

Guthrie

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

February 7, 1952

Memorandum

To: Acting Administrator

From: Chief Counsel

not stripped in R & R.

Subject: Fred Busche exploration project - Docket No. DMEA-2077

The attached six copies of a draft of an Exploration Project Contract in this case is in satisfactory legal form and is approved by this office subject to the attachment of the necessary subordination agreement and maps.

Your file in this case is returned.

J. L. Hofflund

J. L. Hofflund
Chief Counsel

Attachments

RGuthrie/ema

Copy to: Repts. & Records
J. L. Hofflund
R. Guthrie
Chron.

IN REPLY REFER TO:

G-MD-JJN

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

February 5, 1952

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMA-2077

To: Non-Metallic Minerals Division, DMEA.
From: J. J. Norton, U. S. Geological Survey
Commodity: Graphite.
Applicant: Fred Busche.
Name of property: Busche.
Location of property: Morris County, New Jersey.
Field team's recommendation: 4 trenches costing $1,850.

Comments: The field team report contains no geologic data, thus making it impossible for me to make any comments. Apparently exposures are insufficient to warrant examination by a geologist.

ACTION SUGGESTED: Follow field team's recommendations.

J J Norton

J. J. Norton

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~
College Park, Maryland

November 16, 1951

Memorandum

To: Tom Lyon, Chairman
Coordinating Committee

From: Executive Officer
Bureau-Survey Field Team
Region VIII

Subject: Docket No. DMA-2077 - (Graphite)
Fred Busche, Morris County, New Jersey

Attached in quadruplicate is field report on Docket No. DMA-2077 (Graphite), based on the field examination of Stanley A. Feitler (U. S. Bureau of Mines).

The application has now been amended by mutual agreement of the applicant, Mr. Fred Busche, and the Field Team. (See attached sketch). Although the Geological Survey did not send a geologist on this examination, Mr. Ned Nelson concurs in this request for your favorable consideration of this amended application. It is now the intent to excavate several surface trenches to obtain a representative sample. If the results of tests by the Bureau of Mines warrant, another application will be submitted for a more comprehensive exploration program.

McHenry Mosier

McHenry Mosier

Attachments

NSE MINERALS
INISTRATION
HINGTON, D.C.
1 3 50 PM '51

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

Nov 19 3 50 PM '51

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION VIII

DMA-2077, Fred Busche

Busche Graphite Prospect, Morris County, N. J.

Stanley A. Feitler, Mining Engineer
U. S. Bureau of Mines

November 16, 1951

ONSITE RPT.

Field Report on Busche Graphite Prospect
Morris County, New Jersey

Stanley A. Feitler, U. S. Bureau of Mines
November 16, 1951

RECOMMENDATIONS

This application has now been amended by mutual agreement of the applicant, Mr. Fred Busche, and the Field Team. (See attached sketch).

The field examination was made by Stanley A. Feitler on November 3, 1951.

The proposed exploration contract for the amended project follows:

PURPOSE

It is proposed to dig 4 trenches having an aggregate length of 600 feet and to cut and test samples from the bottoms of these trenches. The trenches are to be located and the sampling directly supervised by the Government.

The time required for this project is estimated to be two months.

The total cost is estimated to be $1,850.00.

FIXTURES AND IMPROVEMENTS - None

OPERATING EQUIPMENT

To be rented - Backhoe, shovel or bulldozer 32 hours at $10.00 per hour	$ 320.00
To be purchased - None	
To be furnished by the operator -	
Small tractor - Cost $3,000.00 - Monthly depreciation $50.00 Two months for cleaning trenches, moving samples, etc.	100.00
Automobile - As required at 7 cents per mile - 500 miles	35.00

LABOR AND SUPERVISION

Cleaning trenches - 16 shifts at $14.00 per shift plus insurance, etc. - $1.40	246.40
Sampling - 60 shifts at $14.00 per shift plus insurance, etc. - $1.40	924.00
Supervisor - While rented equipment is working $2.50 per hour for 32 hours	80.00
SMALL TOOLS, tool sharpening, contingencies	144.00
TOTAL	$1,850.00

Answers to questions in letter dated September 28, 1951 from Tom Lyon to McHenry Mosier:

1. The graphite occurs on hilly land with a moderate stand of trees and some brush. As indicated in the Passaic Folio, the rock in the area is Byram Gneiss. A coarse pegmatite striking northeast contains bunches of very coarse graphite. The gneiss on either side of the pegmatite is graphitic, although the flakes are smaller than in the pegmatite. The graphite in the Byram Gneiss seems to be in larger flakes than that seen in some of the deposits in Eastern New York state.

A limited tonnage of excellent coarse flake material might be produced from the pegmatite, but costs would probably be very high.

On the other hand the gneiss offers the possibility of a minable width that might yield as much crucible flake as richer rock in other districts.

2. Amended.

3. Applicant has not had any practical mining experience but intends to hire a competent man to direct the work.

4(a) Tract of 49 acres owned by Fred Busche and Julia G. Busche, his wife, in the town of Riverdale, Morris County, New Jersey, as recorded in Deeds Book T-49 pp. 416-418 at the Morris County Clerk's Office at Morristown, New Jersey.

(b) See Exploration Contract.

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

NOV 19 3 50 PM '51

College Park, Maryland

November 1[illegible], 1951

Memorandum

To: Tom Lyon, Chairman
Coordinating Committee

From: Executive Officer
Bureau-Survey Field Team
Region VIII

Subject: Docket No. DMA-2077 - (Graphite)
Fred Busche, Morris County, New Jersey

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McHenry Mosier

McHenry Mosier

Attachments

c[illegible]

[illegible] Files ?
[illegible]

FILE COPY
SURNAME:

Bam
Hagen

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

370

[illegible] Field Team, Region VIII
DMA Docket File
Mr. Barr

Mr. McHenry Mosier, Executive Officer
DMA Field Team, Region VIII
Eastern Experiment Station
College Park, Maryland

Re: DMA-2077, Graphite

Dear Mr. Mosier:

File is attached on application of Mr. Fred Busche for aid for an exploration project on graphite deposit at Riverdale, New Jersey, to the extent of 50% of $10,000. Please review subject application, arrange suitable examination and report thereon, particularly with regard to the following:

1. Geologic probability of making a significant discovery.

2. Feasibility of the work outlined in subject proposal and your opinion as to whether such work (or an alternative exploration program) would be justified by a possible discovery which might be made.

3. Competence of applicant to undertake the proposed exploration.

4. In the event of a favorable recommendation, it will be necessary to secure from applicant:

(a) a more adequate legal description of the property.

(b) sufficiently detailed answers to Question 23, form MT-103, to enable a contract to be prepared.

5. Any comments and recommendations you care to make.

Sincerely yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

U. S. Geological Survey

U. S. Bureau of Mines

FILE COPY
SURNAME:

Barr
Thayer
Wilson

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

370

SEP 28 1951

a.e.c.

Mr. Fred Buscher
Box 811
Riverdale, New Jersey

DMA-2077 - Graphite

Dear Mr. Buscher:

Your application is being referred to Mr. McHenry Mosier, Executive Officer, DMA Field Team, Region VIII, Eastern Experiment Station, College Park, Maryland, for further information.

Sincerely yours,

SIGNED J.F. 10-1

Tom Lyon, Director
Supply Division

MMASHTY:mp
9-24-51
cc: Field Team, Region VIII(2)
DMA Docket File
Mr. Barr

IN REPLY REFER TO:

G-MD-JJN

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

September 20, 1951

Memorandum

To: Robert Waskey, Defense Minerals Administration

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

Subject: Application DMA-2077 from Fred Busche for a $10,000 graphite exploration project near Riverdale, New Jersey.

The Geological Survey has very little information on graphite deposits near Riverdale, New Jersey, and in any case the information contained in application DMA-2077 from Mr. Fred Busche is not sufficiently detailed to identify the deposit that he proposes to explore. If the data on this deposit in the files of the Bureau of Mines indicates that a $10,000 exploration project may be feasible, a field examination should be made to acquire the necessary geologic data.

J. J. Norton

copy to: DMA files

FILE COPY
SURNAME:

Wesley
Barr

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

370

SEP 20 1951

Q.E.C.

Mr. Frank Lamb, Metallurgist
U. S. Department of the Interior
Bureau of Mines
College Park, Maryland

Subject: DMA-2077 - Graphite

Dear Mr. Lamb:

Copy of file is attached on application for Exploration Aid on graphite deposit in Morris, New Jersey.

Will you please review subject application and give us any comments you may care to on the advisability and feasibility of the proposal.

Sincerely yours,

SIGNED 9-20

James A. Barr, Sr., Chief
Industrial Minerals Branch

Enclosure

RWASKEY:mp
9-19-51
cc: Field Team, Region VIII (2)
Dma Docket File
Mr. Barr

Mr. Fred Busche
P. O. Box 811
Riversdale, New Jersey

Subject: DMA-2077
Re: Exploration Loan

My dear Mr. Busche:

This will acknowledge receipt of your application dated July 30, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA-2077 and referred to the Industrial Minerals Branch.

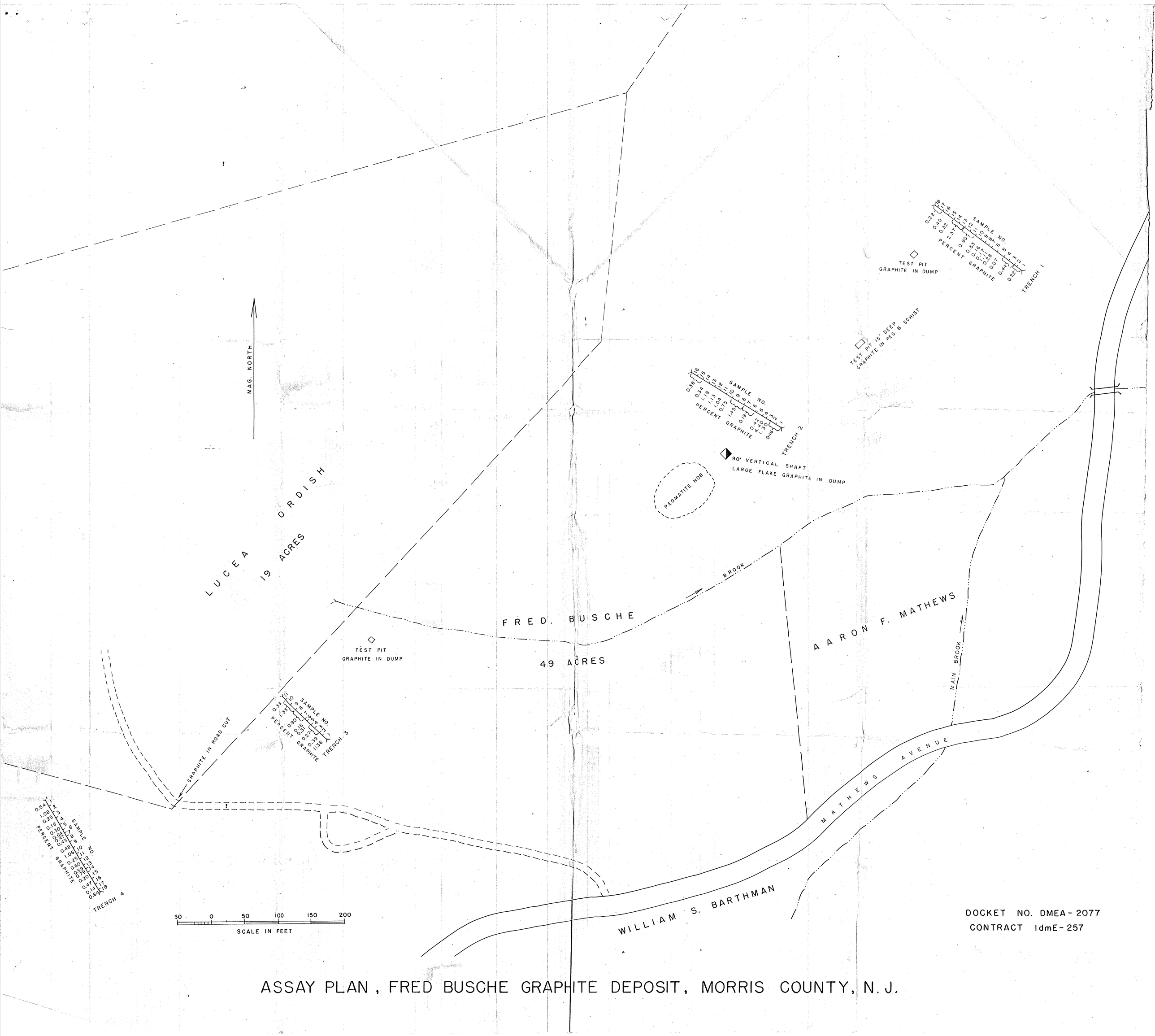
Kindly refer to DMA-2077 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

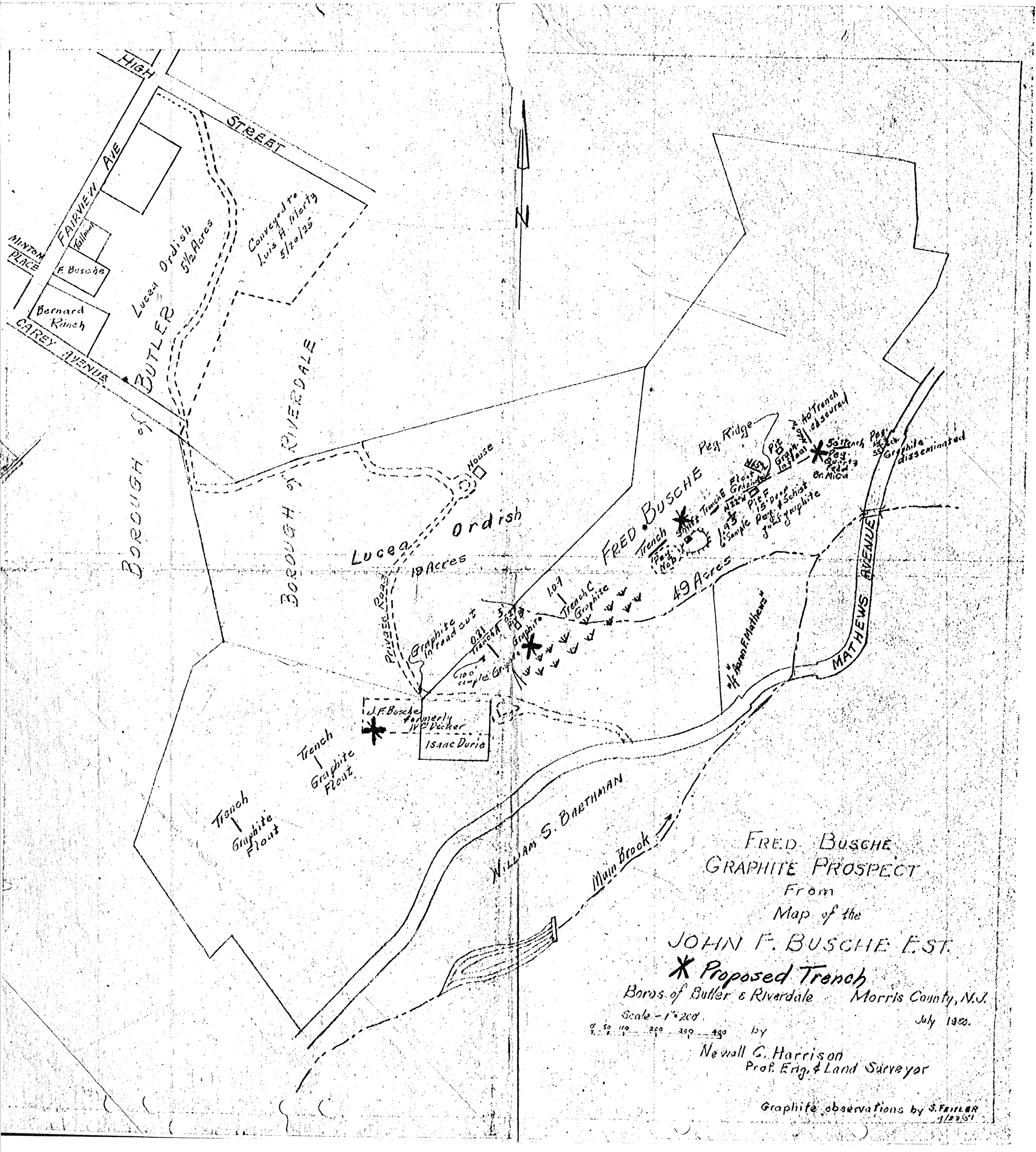
Robert E. Adams, Chief
Reports and Records Unit

2463



DOCKET NO. DMEA-2077
CONTRACT IdmE-257

ASSAY PLAN, FRED BUSCHE GRAPHITE DEPOSIT, MORRIS COUNTY, N.J.


HIGH STREET
FAIRVIEW AVE
MINTON PLACE
Tallman
F. Busche
Bernard Ranch
CAREY AVENUE
BUTLER
Lucca Ordish 5½ Acres
Conveyed to Luis H. Alberts 5/20/25
RIVERDALE
BOROUGH OF
BOROUGH OF
House
Lucca Ordish
18 Acres
PRIVATE ROAD
Graphite in road cut
0.21 Trench A
Pit B
Graphite
100' Sample Graphite
1.09 Trench C Graphite
FRED BUSCHE
Peg Ridge
Trench
Peg Nab
Shaft
Trench E Float Graphite
N22W
1.93 Sample
Pit F 15' Deep Peg & Schist Some graphite
Pit
Graph. in place
No Trench obscured
50' Trench Peg. Quartz Feldspar Br. Mica
Peg. Schist
Graphite disseminated
49 Acres
Aaron F. Mathews
MATHEWS AVENUE
J.F. Busche Formerly W. Decker
Isaac Durie
Trench Graphite Float
Trench Graphite Float
WILLIAM S. BAETHMAN
Main Brook
N
FRED BUSCHE
GRAPHITE PROSPECT
From
Map of the
JOHN F. BUSCHE EST.
* Proposed Trench
Boros of Butler & Riverdale Morris County, N.J.
Scale - 1" = 200'
0 50 100 200 300 400
July 1950.
by
Newall C. Harrison
Prof. Eng. & Land Surveyor
Graphite observations by S. FAIRLER 1/22/51