UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

Terminated (or cancelled) without certification. DMEA No. 1210

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.
- ✓ Closing Letter
- 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 _____

WMC
Reviewer's Initials

Government's Copy

RUBEROID COMPANY
EXPLORATION PROJECT CONTRACT
DOCKET NO. DMEA-1210

AMENDMENT NO. I

Contract No. I-DMA-E23, Docket No. DMA-1210, between the Government and The Ruberoid Company, is amended as follows:

Exhibit "D" is deleted and a new Exhibit "D", is added, effective June 26, 1951, reading as follows:

EXHIBIT "D"

Labor

Labor, as classified by the Operator, may be paid at wage rates which prevail for those classifications in the labor area where the work is being performed, including time and one-half for overtime and customary shift differentials.

Supervision

1 Consulting Geologist @ $1,000.00 per month	$8,000.00
1 Superintendent @ $675.00 per month	5,400.00
1 Surveyor @ $675.00 per month	5,400.00

This amendment shall not be construed to increase the estimated total cost of the contract or the maximum amount which the Government will pay as provided in the contract.

Dated September 29, 1952.

THE RUBEROID CO.

By [signature]
Operator

THE UNITED STATES OF AMERICA

By [signature]
Administrator-Defense Minerals
Exploration Administration

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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(April 1951)

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Docket No. DMA 1210
Commodity Asbestos

I-DMA-E23

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

JUL 31 1951

It is agreed this 26th day of June, 1951, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] The Ruberoid Company, Home Office 500 - Fifth Avenue, New York 18, New York, acting through its Vermont Asbestos Mines Division, Hyde Park, Vermont

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 Vermont, ~~County~~ Counties of Orleans & Lamoille described as follows: [3]

(See attached Appendix I)

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, encumbrances, as to each of which the subordination agreement of the holder is attached:~~ as to some parts it has no right, title, or interest, and as to other parts it has options to purchase.

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for [5] Asbestos; 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] 18 months 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. Attached hereto, marked "Exhibit 'B'," is a detailed list of 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 its agreed pro-rata share of the cost. 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.* Attached hereto, marked "Exhibit 'C'," is a detailed list of operating equipment divided into categories of items to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or rental value, as the case may be, annexed to each. 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.

Appendix I and Appendix II are attached hereto as part of this contract

16—64066-1

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.* Attached hereto, marked "Exhibit 'D'," is 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.

9. *Rehabilitation and repairs.* Attached hereto, marked "Exhibit 'E'," is a detailed schedule of existing facilities, buildings, installations, and fixtures, with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition, which cost shall be allowed as a cost of the project.

10. *Allowable costs of the project.* The allowable 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, 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 the 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, or any other indirect costs not expressly allowed by these regulations, 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. *Participation by the Government.* At the end of the first full calendar month after the Operator has commenced work under the project, and at the end of each succeeding calendar month, the Operator shall submit to the Government a voucher for payment with a detailed statement of work done and allowable costs (as defined in Article 10 of this agreement) incurred, in a form and with supporting data acceptable to the Government. After approving the voucher, the Government shall pay to the Operator 90 percent of the sum of such costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $64,440.00, which is 90 percent of the agreed estimated total cost of this project, $71,600.00.

12. *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.

13. *Progress reports.* The Operator shall provide the Government with monthly reports of progress in form and content satisfactory to the Government, and upon the completion of the project or termination of the contract 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.

14. *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 additional for each 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 property 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. (See attached Appendix II)

15. *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.

16. *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 ~~triplicate~~ six copies the day and year first above written.

The Rubend Co
(Operator)

By W. C. Conran
Vice President

THE UNITED STATES OF AMERICA

By [signature]
Administrator
Defense Minerals Administration

U. S. GOVERNMENT PRINTING OFFICE 16—64066-1

Docket No. DMA - 1210 (Asbestos)

The Ruberoid Company
Exploration Project Contract

Appendix I

(1) Brown Ledges Area - Town of Lowell (held by options)

H. S. Richardson Farm - approx. 280 acres - Lot 18, Range 12; Lots 18-19, Range 11.

F. M. Racicot Farm - approx. 180 acres - Lot 21, Range 9 and 10.

H. Rabion Farm - approx. 160 acres - Lot 20, Range 9 and 10.

Ira Pope Farm - approx. 50 acres - Lot 17, Range 9.

Laplume Farm - 1/2 mineral interest - 200 acres - Lots 3 and 4, Town of Westfield.

(2) Leland Hill Area - Town of Lowell

H. H. Parker - 50 acres - Lots 12, Range 9 (Optioned)

Quentin L. Elliott - 370 acres - Lots 10 and 11, Range 9; Lots 8, 9 and 10, Range 8 (Optioned)

Belrose Farm - 30 acres (not yet optioned)
J. S. Brahama - 45 acres - Lot 12, Range 10 (not yet optioned)

(3) Caster Farm - Bliss Farm Area - Town of Lowell

1/4 interest - mineral rights - Lots 18 and 19, Range 7, approx. 200 acres (Optioned)

Bliss Farm - Lots 15, 16 and 17, Range 7 - approx. 250 acres (Optioned)

Morse Farm - Lot 14, Range 7 - 100 acres (not as yet optioned)

(4) General area from town of Eden to Long Pond - Eden Town - approx. 500 acres. (Not as yet optioned)

(5) General area (Westfield, Jay and Newport Towns) (Not as yet optioned)

(6) General area in Lamoille County covered by aerial magnetometer survey (Belvedere and Eden Towns) (Not as yet optioned)

Docket No. DMA-1210 (Asbestos)

The Ruberoid Company
Exploration Project Contract

APPENDIX II

The Operator agrees to furnish the Government, as represented by DMA, with copies of all data and maps, prepared as a result of the magnetometer survey.

In view of the fact that the Operator at the date of this contract has no right, title, or interest in certain parts of the land, and in other parts has only options to purchase, the Operator agrees that if, within a period of 10 years from the date of this contract, it should have or acquire any right, title, or interest in any of the lands described in Appendix I of this contract, there shall immediately attach to such right, title, and interest the lien of the Government for repayment which is referred to in Article 14 of the contract form, and such lien shall be and remain in effect for a period of 10 years from the date of this contract or from the date upon which the Operator acquires such right, title, or interest, whichever is longer.

In view of the fact that it cannot be known in advance what might be the nature of any such right, title, or interest that the Operator might acquire in the land, or what claims, liens, or encumbrances thereon might be prior to the Government's lien, the Operator further agrees that in the event that a discovery or

development results from the work as provided in Article 14 of the contract form, and such prior claim, lien, or encumbrance or the foreclosure thereof prevents the Operator from producing from such discovery or development, and production is made from such discovery or development by some persons or interests other than the Operator, the Operator will nevertheless make repayment to the Government upon the same terms and conditions and to the same extent and in the same amount as if the production was being made by the Operator; and if the exact amount of production cannot be determined for this purpose, the Operator agrees to accept the Government's best estimate thereof.

Docket No. DMA-1210 (Asbestos)

The Ruberoid Company
Exploration Project Contract

EXHIBIT "A"

Exploration Project:

Aerial Magnetometer Survey by Contract (confined to area in Lamoille County) (as shown on map) $ 7,500.00

Surface Magnetometer Survey and Diamond Drilling

Surface magnetometer survey and Diamond Drilling may be made only on those parts of areas designated in Appendix I and on map as (1), (2) and (3) which are now held under Option. However, such survey and drilling may also be made on other parts of those areas as well as parts of areas designated in Appendix I and on map as (4) and (5), provided Options are obtained on said parts of these areas and subordination agreements covering same are furnished this office prior to start of such survey.

Labor	13,000.00
Core testing	1,500.00
Supervision (salary)	5,400.00
Consulting Geologist (salary and fees)	8,000.00
Surveying and mapping (salary)	5,400.00
Diamond Drilling contract, 6,500 ft. @ $4.23 per ft.	27,500.00
Rental of Jeep and truck	1,800.00
Materials and supplies	1,500.00
Total cost of Project	$71,600.00

EXHIBIT "B"

Fixtures and Improvements:

The cost of any additional facilities, buildings and fixtures to be purchased, installed or erected by the Operator shall not be charged as a cost of the project.

EXHIBIT "C"

Operating Equipment:

Rental of jeep wagon - 15,000 miles @ 6¢ per mile	$900.00
Rental of 3/4 ton pickup truck - 15,000 miles @ 6¢ per mile	900.00

EXHIBIT "D"

Labor and Supervision:

	No.	Class	Maximum wages per hour	Max. Wages or Salaries	
Labor -	6	Laborers	$ 1.07)		
	3	Student helpers	1.17)	$13,000.00	Wages
	1	Rodman	1.17)		
	2	Core testers - each $250.00 per month		1,500.00	
Supervision-	1	Consulting Geologist	$1,000.00 per month	8,000.00	Salaries
	1	Superintendent	675.00 " "	5,400.00	
	1	Surveyor	675.00 " "	5,400.00	

EXHIBIT "E"

Rehabilitation and Repairs:

The cost of any rehabilitation or repairs to existing facilities, buildings, installations and fixtures to put into useful operating condition shall not be charged as a cost of the project.

CORE DRILLING AGREEMENT

NO.
PAGE

1. **THIS AGREEMENT**, made and entered into this twenty first day of December, 19[illegible] by and between The Ruberoid Company of Ryde Park Vermont the party of the first part and the JOY MANUFACTURING COMPANY, of Pittsburgh, Pennsylvania, party of the second part,

Witnesseth:

2. In consideration of certain payments hereby agreed to be made by the said first party to the said second party, the said second party hereby agrees to drill, sink or prospect with a diamond core drill from surface in or near Eden, Vermont at site[illegible] to be selected by the said first party, subject to the conditions hereinafter mentioned. It is further agreed by the said first party that the depth of none of the herein specified drill holes shall exceed a depth of 1000 feet, and the total amount as guaranteed must be drilled in not more than eighteen holes.

3. The said second party agrees to use for the above described work one Diamond Core drill[illegible], and men skilled in operating same; to operate the drill both day and night whenever practicable, and to furnish only such person as the said first party may designate by written order, all core taken out of said prospect hole. Size of core to be approximately 1 1/8" AX inches in diameter. The said first party shall provide suitable boxes if it desires to save the core, and if it also desires may have a man at the drill at all times to remove and take charge of said core. No information whatever regarding the records and results of this drilling is to be given any other party, without the written consent of the said first party.

4. The said first party hereby agrees to pay to said second party the following price[illegible] for the herein described drilling.

For drilling holes from surface to depths of 300 feet @ $3.25 per foot.
For drilling holes from surface to depths of 1000 feet @ $3.75 per foot.

5. In accordance with this agreement, the said first party hereby guarantees the said second party a minimum total of [illegible] feet of drilling at the price[illegible] as herein provided in Clause Four.

The said second party shall have the option of withdrawing from this contract after a total of [illegible] feet have been drilled under the terms of this agreement.

In the event the said first party should stop the drilling before the guaranteed footage has been drilled, it agrees to pay the said second party half the price per foot for the undrilled balance, in addition to payment at full price for the footage actually drilled.

JOY MANUFACTURING COMPANY

Form 6215 (1A)—2-49—BPC 21295

6. The first party agrees to spot the drill holes not more than 1,500 feet from an ample source of water for drilling purposes. In the event the holes are spotted more than 1,500 feet from an ample source of water supply and it becomes necessary to haul the water, then the cost of hauling such water will be for the account of the first party.

7. The second party agrees to move the drilling equipment between holes free of any cost to the first party.

8. Should the party of the first part fail to perform its part of the contract to locate sites, as herein agreed, regardless of cause, or should the party of the first part issue instructions that delay operations for any reason or in any other way interrupt the continuous operation of the said diamond drill, it shall pay the second party the labor expense of drilling crew while idle through such delay at the rate of $30.00 per shift, consisting of 8 hours, for each shift or part thereof that the operation of the said drill is delayed.

9. The party of the second part agrees to cover its employees with Workmen's Compensation Insurance under the State Laws of Vermont and agrees to furnish the first party with insurance certificate as evidence of such coverage.

10. The second party agrees to complete the drilling as covered by this agreement not later than December 31, 1952.

11. The payments for the herein described work are to be made on the first of each month for all invoices rendered for work done up to the 25th day of the previous month.

12. The party of the second part hereby agrees to start the herein described work in the Spring of 1952 or sooner, weather permitting. This proposition is for immediate acceptance, but although accepted does not constitute a contract until approved by an officer of the Joy Manufacturing Company, at its office in Pittsburgh, Pennsylvania, U.S.A., and is subject to change or withdrawal until so approved.

It is expressly agreed that there are no promises, agreements or understandings outside of this contract, and that no agent or salesman has any authority to obligate the Joy Manufacturing Company, by any terms, stipulations or conditions not herein expressed. This contract may be altered only by written consent of both parties hereto.

JOY MANUFACTURING COMPANY

By .....

IN WITNESS WHEREOF, the parties hereto have set their hands and seals.

Accepted by

.....

.....

Title.....

Approved by JOY MANUFACTURING COMPANY

By.....

Date.....

Title.....

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATIVE AND AUDIT DIVISION

AUDIT CERTIFICATE

I have examined the records and transactions of:

The Ruberoid Company
Vermont Asbestos Mines Division
Hyde Park, Vermont

pertaining to Exploration Project Contract No. Idm-E23, Docket No. DMA-1210, as amended by the DMEA Executive Officer of Region VIII by letter dated February 20, 1952, and by Amendment No. 1 dated September 29, 1952, covering a project of exploration for asbestos, for the period of June 26, 1951 to December 31, 1952.

My examination was made in accordance with generally accepted standards applicable in the circumstances.

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

Total Cost as billed by contractor	$61,936.36
Exceptions	-0-
Total Accepted Cost	$61,936.36

The contract calls for a 90 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Fifty-five thousand seven hundred forty-two and 72/100 Dollars

$55,742.72

is valid. Since the Government has paid the Operator $55,742.64, this amount is accepted as full payment.

This certificate is issued on the provision that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

R. J. BREKHUS
Auditor

December 8, 1953

A U D I T R E P O R T

I INTRODUCTION

On December 1, 2 and 3, 1953 a final audit (covering the period of June 26, 1951 to December 31, 1952) was made of the records and accounts of operations pertaining to Contract No. Idm-E23, Docket No. DMA-121C (as amended by the DMEA Executive Officer of Region VIII by letter dated February 20, 1952, and by Amendment No. 1, dated September 29, 1952) with:

The Ruberoid Company
500 Fifth Avenue
New York 18, New York

acting through its:

Vermont Asbestos Mines Division
Hyde Park, Vermont

covering a project of exploration for asbestos.

The basic accounting records under this contract are located in the Vermont Asbestos Mines Division's office at its mills located 4.1 miles west of Eden Mills on State Route 100.

During the course of the audit the following officers and employees of the Division were consulted as required:

Mr. M. J. Messel, General Superintendent
Mr. J. K. Gilmore, Supervisor of Exploration
Mr. L. Jordan, Assistant Supervisor of Exploration
Mr. K. A. Foster, Office Manager
Mr. Price Freeman, Cost Analyst
Mr. M. S. Pope, Payroll Clerk
Mr. F. Merrill, Storekeeper

Their cooperation and assistance greatly facilitated the audit.

II GENERAL INFORMATION ON RECORDS

The accounting records for the exploration project are completely integrated, through an apparently modern and comprehensive branch office accounting system with the accounts covering the Company's exploration, development, quarrying, mill and other operations. Invoices for services and materials are scheduled on an accounts payable voucher register which is forwarded to the Ruberoid Company's Central Accounting Offices, South Bound Brook, New Jersey. Small local purchases and services are paid for by check out of an Imprest Fund maintained in a local bank. While labor was paid for by withdrawals from the imprest fund, salaried personnel

were paid by the New York Office and a debit memorandum forwarded indicating distribution of the total amount.

The costs of exploration applicable to the DMEA projects is carried in the plant ledger in an account designated as 1285, with subaccounts for the various elements of costs. Costs were recorded on a month end accrual basis. The records were substantially examined and found to be accurately maintained.

The Company's accounts are audited after the close of each fiscal year (March 31) by Price Waterhouse & Company, certified public accountants, as well as the Ruberoid Company's internal auditors.

III SCOPE OF AUDIT AND FINDINGS

An interim audit was made, and a report submitted, by Mr. E. D. Talbert, DMEA Auditor, on September 12, 1952, covering the period from June 26, 1951 to July 31, 1952. This audit covers the remainder of the operations under this contract, the five month period ending December 31, 1952, and the combined results of both audits are discussed in this report.

The audit was limited to ascertaining the accuracy, propriety and validity of the costs as shown in the "Totals to date" column of Form MF-104, Operator's Monthly Report and Voucher for the month of December, 1952. The extent of the audit and the findings under each of the "Items of Cost" follow.

(1) Independent Contracts: $37,724.26

The work under this phase consisted of diamond drilling, which was performed by Joy Manufacturing Company, Pittsburgh, Pennsylvania. All invoices covering the cost were examined and compared with the drill logs submitted by the Supervisor of Exploration. Footings and extensions were checked in detail and found correct. It was found that the total costs charged to this item were:

Under subcontract dated May 15, 1951:

1354' of diamond drilling @ $3.50 per foot	$ 4,739.00
2339' of diamond drilling @ $3.25 per foot	7,601.76
Hauling water for 4 holes @ $60.00 per hole	240.00

Under subcontract dated December 21, 1951:

7578' of diamond drilling @ $3.25 per foot	24,628.50
Hauling water 103 loads @ $5.00 per load	515.00
Total	$37,724.26

The subcontract dated May 15, 1951, and formally approved by the Executive Officer of the DMEA Field Team by letter dated September 26, 1952, provided for a minimum of 2,000' of diamond drilling at $3.50 per foot and all in excess of 2,000' at $3.25 per foot. A total of 646' at $3.50 per foot drilled prior to the date of the Exploration Project Contract was not charged to the costs of the project. The second subcontract dated December 21, 1951, and approved by the Executive Officer of the DMEA Field Team on August 27, 1952 called for a minimum of 6,000' of diamond drilling to be paid for at $3.25 per foot for holes drilled to depths of 300' and $3.75 per foot for holes drilled to depths of 1,000'. All footage drilled under the latter contract was at the $3.25 per foot rate. Water haulage costs chargeable to the Operator were paid for by the subcontractor and included in the monthly billings.

The contract as originally written called for diamond drilling 6,500' at an estimated cost of $4.23 per foot. On February 20, 1952, the Executive Officer of the DMEA Field Team approved a revised schedule of expenditures under the contract whereby the estimated amount available for diamond drilling was increased from $27,500.00 to $40,535.00. Accordingly, 11,271 feet of diamond drilling was performed at a cost of $37,724.26.

It is noted that the cost of diamond drilling achieved under this method of subcontracting was well below the $4.23 per foot estimated in the contract.

(2) <u>Labor and Supervision</u> $22,681.69

The charges under this item were checked against the pertinent sub-accounts in the Plant Ledger, invoices for services of a surveyor were reviewed, journal vouchers covering salaried personnel were spot checked against time sheets, and, in order to sample check labor charges the Daily Time Sheets (approved by J. K. Gilmore, Supervisor of Exploration) for the months of September 1951, and July and August 1952, were reconciled with the individual IBM time clock cards for time and computed at the indicated rates.

Labor is unorganized and is paid in accordance with Company established classifications. The normal work week is 48 hours of which the first 40 hours are paid for at straight time rates, and the balance is paid for at time and one-half. An audited summary of the total costs by the classifications shown on Exhibit "D" of the contract follows:

Labor	-	Laborers	$1,961.83	
		Student Helpers	1,323.29	
		Rodmen (including Surveryors)	1,569.14	$4,854.26
Supervision		Superintendent		4,917.97

Technical -	Consulting Geologist	$7,000.00	
	Core Tester (salary)	134.06	
	Surveyor (salary)	3,967.90	
	Surveyor (invoiced)	1,807.50	$12,909.46
			$22,681.69

Charges for surveyors are on three different bases: (a) hourly wage employees assigned to surveying; (b) a portion (50% after May 1952, 100% previously) of an assistant geologist's (Louis Jordan's) salary; and (c) invoiced fees for services (of J. B. Wheeler). The charge for Superintendent represents a portion of the salary of J. K. Gilmore, the Company's Supervisor of Exploration. The consulting geologist (W. B. Miller) is under contract with the Company on a retainer fee ($7,200.00 per annum) payable on a quarterly basis, $1,000.00 per quarter being apportioned to this project. The core tester was charged at the rate of $250.00 per month on the basis of actual time spent on the project. There have been no charges for core testing since November 1951. All charges for supervision and technical services are deemed reasonable and proper.

(3) Operating Materials and Supplies: $725.85

All charges for purchases were verified by checking against the Plant Ledger, pulling and reviewing all invoices for propriety and spot checking for mathematical accuracy. A large portion ($643.25 of the $725.85 total) represents the costs of core boxes; the next largest single item was a transit costing $43.87; and the balance was mostly maps, drawing paper, etc. Only one item charged at $.43 was drawn from Company stock and was considered too inconsequential for identification and price verification.

(4) Operating Equipment:

Not applicable to this contract.

(5) Initial Rehabilitation and Repairs:

Not applicable to this contract.

(6) New Buildings, Improvements, etc.:

Not applicable to this contract.

(7) Miscellaneous: $804.56

All charges for payroll taxes and insurance were checked against the postings to the Plant Ledger and the supporting Journal Vouchers. Computations were spot checked. The following rates were in effect, and being charged in accordance with instructions from the Company's Central Accounting Offices, to both Company and DMTA exploration projects:

(a) Public Liability Insurance, effective with June 1952, was $.05072 per $100 insurable payroll (exclusive of overtime). Prior to June, 1952, the rate was $.05142.

(b) Workmen's Compensation Insurance, effective June 1, 1952 was $.73 per $100 of insurable payroll (exclusive of overtime). During 1951 the rate was $.81.

(c) Unemployment Insurance

	1952	1953
Federal	$ .30	$ .30
Vermont State	.80	1.00
Total per $100 payroll	$1.10	$1.30

(d) Social Security Tax: $1.50 per $100 of payroll

An audited summary of charges for payroll taxes and insurance follows:

Payroll Taxes (Social Security and Unemployment)	$373.59
Liability Insurance	103.67

Transportation consisted of mileage paid for at the rate of six cents per mile for motor vehicles used in conducting exploration operations. The type of vehicle used and the mileage traveled were shown on the Daily Time Sheets along with the direct labor, and were approved by J. K. Gilmore, Supervisor of Exploration. The mileage shown was totalled, computed at the contract rate, and reconciled with the costs charged. One payment was made out of the Imprest Fund for the use of an employee's (F. W. Iahses') car during period when the Company's jeep was under repair.

A summary of audited mileage charges follows:

Company-owned equipment 5,278 miles @ $.06	$316.68
Employee- owned automobile 177 miles @ $.06	10.62
Total	$327.30

IV CONCLUSIONS AND RECOMMENDATIONS

This audit has disclosed that all costs, as charged to this project are reasonable and proper under the terms of the contract, including the exhibits and amendments.

The audit disclosed that adjustments between Items of Costs shown on the December 1952 MF-104 were required as follows:

Items of Cost	Totals as Submitted	Totals Distribution Corrected
(1) Independent Contracts:		
Drilling	$37,724.26	$37,724.26
(2) Labor and Supervision		
Labor	4,915.13	4,854.26
Supervision	4,917.97	4,917.97
Technical Services	12,848.59	12,909.46
(3) Operating Materials and Supplies		
Core Boxes	643.25	643.25
Other	82.60	82.60
(7) Miscellaneous		
Payroll Taxes	373.59	373.59
Liability Insurance	103.67	103.67
Transportation	327.30	327.30
Totals	$61,936.36	$61,936.36

At the conclusion of the audit the findings were discussed with the General Superintendent, Mr. M. J. Messel, and the Cost Analyst, Mr. Price Freeman. There were no disallowances made during this audit, and the above costs are approved.

B. J. BREKHUS
Auditor

December 8, 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

CONTRACT ADMINISTRATION AND AUDIT DIVISION

Interim AUDIT CERTIFICATE

I have examined the records and transactions of:

The Ruberoid Company

Vermont Asbestos Mines Division

Hyde Park, Vermont

pertaining to Exploration Project Contract No. I-DMA-E23, Docket No. DMA-1210, for the period of June 26, 1951 to July 31, 1952.

My examination was made in accordance with generally accepted standards applicable in the circumstances.

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

Total Cost as billed by contractor	$46,200.43
Exceptions	-0-
Total Accepted Cost	$46,200.43

The contract calls for a 90 per cent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Forty-one thousand five hundred eighty and 39/100 Dollars,

— $41,580.39 —

is valid and proper.

This certificate is issued on the provision that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

E. D. Talbert

E. D. TALBERT
Auditor

September 19, 1952

I INTRODUCTION

During the period of September 9 to 12, 1952, an interim audit (covering the period of June 26, 1951 to July 31, 1952) was made of the records and accounts of operations pertaining to Contract No. I-DMA-E23, Docket No. DMA-1210 (as amended by the DMEA Executive Officer of Region VIII by letter dated February 20, 1952) with:

The Ruberoid Company
500 Fifth Avenue
New York 18, New York

acting through its:

Vermont Asbestos Mines Division
Hyde Park, Vermont

covering a project of exploration for Asbestos.

The basic accounting records under this contract are located in the Vermont Asbestos Mines Division's office at its mills which are reached by proceeding north from Hyde Park on Vermont State Route 100 for 11.5 miles to Eden Mills then left on an unnumbered road for 4.1 miles.

During the course of the audit the following officers and employees of the Division were consulted as required:

Mr. H. J. Hessel, General Superintendent
Mr. J. K. Gilmore, Supervisor of Exploration
Mr. K. A. Foster, Office Manager
Mr. Price Freeman, Cost Analyst
Mr. M. S. Pope, Payroll Clerk
Mr. F. Merrill, Storekeeper

All were very co-operative and rendered all possible assistance in facilitating the audit.

II GENERAL INFORMATION ON RECORDS

The accounting operations are under a modern branch office accounting system. Most invoices for services and materials are scheduled (every day or so as volume, due dates or discounts require) on an accounts payable Voucher Register to The Ruberoid Company's Central Accounting Offices, South Bound Brook, New Jersey. Vouchered invoices are filed alphabetically by vendors, with sub-filing by Voucher Register number. Small local purchases and services are paid by check out of an Imprest Fund maintained in a local bank. Payments for labor are effected by withdrawals from the Imprest Fund. Salaried personnel are paid by the New York office with notification to the Division's office of only the total amounts to be charged to its various accounts.

The Exploration Project accounting records are completely integrated with those pertaining to the Division's mill, quarrying, exploratory and other operations. However a separate section (designated as Account 1285) of the Plant Ledger covers the work under DMEA contracts, with three-digit sub-accounts (with the first digit "0" designating this contract) for each of the items of costs shown in Exhibits "A" and "D" of the contract. All the records pertaining to this project had been maintained accurately and, except for a few minor instances, on a month-end accrual basis.

The accounts are subject to periodical audits by a certified public accounting firm (Price, Waterhouse & Co.) as well as The Ruberoid Company's own internal auditors.

III SCOPE OF AUDIT AND FINDINGS

The audit was limited to ascertaining the accuracy, propriety and validity of the costs as shown in the "Totals to Date" column of Form MF-104, Operator's Monthly Report and Voucher, for the month of July, 1952. The extent of the audit and the findings under each of the "Items of Cost" follow.

(1) Independent Contracts:

All charges were verified by reviewing all pertinent invoices of the sub-contractor (Joy Manufacturing Company), checking against the sub-contract rates and the footages shown on copies of the drill logs, and spot-checking the mathematical calculations. It was found that the total costs charged to this item were:

Under sub-contract dated May 15, 1951:

1354' @ $3.50 per foot	$4,739.00
2339' @ $3.25 per foot	7,601.76
Hauling water:	
4 holes @ $60.00 per hole	240.00

Under sub-contract dated December 21, 1951:

4540' @ $3.25 per foot	14,755.00
Total	$27,335.76

The sub-contract dated May 15, 1951 provided for a minimum of 2,000' at $3.50 per foot and all in excess of 2,000' at $3.25 per foot. A total of 646' @ $3.50 per foot was drilled prior to the date of the Exploration Project Contract and was not charged to the costs of the project. It does not appear that this sub-contract has been approved in writing by the Government as required by Article 4 of the Contract. However, implied approval has been construed since the rates are well within the estimate of $4.23 per foot shown in Exhibit "A", the work was in progress on the date of the

project Contract, and the succeeding sub-contract dated December 21, 1951, was approved by letter dated August 27, 1952 from the DMEA Executive Officer, Region VIII.

(2) Labor and Supervision:

The charges under this item were checked against the pertinent sub-accounts of the Plant Ledger, invoices for services of a surveyor were reviewed, journal vouchers covering salaried personnel were spot-checked against time sheets, and, in order to sample-check labor charges, the Daily Time Sheets (approved by J. K. Gilmore, Supervisor of Exploration) for the months of September, 1951 and July, 1952 were reconciled with the individual IBM time clock cards for time and computed at the indicated rates.

Labor is unorganized and is paid in accordance with Company established classifications. The following hourly wage rates, pertinent to labor on this project, were in effect:

Classification	Effective 11/12/50	Effective 5/4/52
Sparesman	$1.14	$1.19
General Laborer	1.07	1.12

Exploration Department employees are paid under these rates regardless of the particular work being done, i. e., whether acting as surveyor, rodman, helper, or laborer. The current rates are slightly in excess of the "Maximum wages per hour" listed in Exhibit "D", which if taken literally would prohibit even the customary time and a half for overtime. Overtime of Exploration Department employees is pro-rated between all exploratory projects on the basis of total time each employee devotes to each project. It is believed that these rates, as well as the method of distributing overtime, are extremely reasonable and equitable.

The Supervisor of Exploration notified the DMEA Executive Officer, Region VIII, by letter of May 20, 1952, that the new rates had been put into effect and further stated "I understand approval for the wage increase would be granted by approval of the monthly cost statement." The DMEA Executive Officer's letter of reply dated May 23, 1952, did not refer to the change in rates nor did he withhold approval of subsequent MF-104's, to which were attached listings clearly indicating the increased hourly charges. It is believed, therefore, that acceptance of these new rates is proper and in order.

An audited summary of the total costs by the classifications shown in Exhibit "D" of the Contract follows:

Labor	-	Laborers	$ 1,875.26	
		Student Helpers	1,179.35	
		Rodman (incl. Surveyors)	1,371.54	$ 4,426.15*
Supervision	-	Superintendent		3,717.97

Technical	- Consulting Geologist	$ 5,000.00	
	Core Tester (salary)	134.06	
	Surveyor (salary)	2,949.67	
	Surveyor (invoiced)	1,590.00	$ 9,673.73
Total			$17,817.85

*Exclusive of a $26.88 undercharge corrected in August.

Charges for Surveyors are on three different bases: (a) hourly wage employees assigned to surveying; (b) a portion (50% May through July, 100% previously) of an Assistant Geologist's (Louis Jordan's) salary; and (c) invoiced fees for services (of J. B. Wheeler). The charge for a Superintendant represents a portion of the salary of J. K. Gilmore, the Company's Supervisor of Exploration. The Consulting Geologist (W. B. Miller) is under contract with the Company at a retainer fee ($7,200 per annum) payable on a quarterly basis, $1,000 per quarter being apportioned to this project. The Core Tester was charged, at the rate of $250 per month, on the basis of actual time spent on the project. There has been no charges for core testing since November 1951. All charges for supervision and technical services are deemed reasonable and proper.

(3) Operating Materials and Supplies:

All charges for purchases were verified by checking against the Plant Ledger, pulling and reviewing all invoices for propriety and spot-checking for mathematical accuracy. A large portion ($282.00 of the $364.60 total) represents the cost of Core Boxes; the next largest single item was a transit costing $43.87; and the balance was mostly maps, drawing paper, etc. Only one item charged at $.43 was drawn from company stock and was considered too inconsequental for identification and price verification.

(4) Operating Equipment:

The costs shown under "Rental" represent the costs for transportation at 6 cents per mile in accordance with Exhibit "C". On the revised MF-104 this item should properly be shown under (7) Miscellaneous.

The Daily Time Sheets approved by J. K. Gilmore, Supervisor of Exploration, include a listing of the mileage for each vehicle used. All Sheets were reviewed, the mileage totaled, computed at the contract rate and reconciled with the costs charged. One payment was made out of the Imprest Fund for the use of an employee's (F. W. Tahse's) car during a period when the Company's jeep was under repair.

A summary of the audited mileage charge follows:

Company-owned equipment	4,710 miles @ $.06	$282.60
Employee-owned automobile	177 miles @ $.06	10.62
Total		$293.22

(5) Initial Rehabilitation and Repairs:

Not applicable to this Contract.

(6) New Buildings, Improvements, etc.:

Not applicable to this Contract.

(7) Miscellaneous:

All charges for payroll taxes and insurance were checked against the postings to the Plant Ledger and the supporting Journal Vouchers. Computations were spot-checked. The following rates were in effect and being charged, in accordance with instructions from the Company's Central Accounting Offices, to both company and DMEA exploration projects:

(a) Public Liability Insurance, effective with June, 1952, was $.05072 per $100 of insurable payroll (exclusive of overtime). Prior to June, 1952, the rate was $.05142.

(b) Workmen's Compensation Insurance, effective June 1, 1952, was $.73 per $100 of insurable payroll (exclusive of overtime). During 1951 the rate was $.81.

(c) Unemployment Insurance:

	1952	1951
Federal	$ .30	$ .30
Vermont State	.80	1.00
Total per $100 of payroll	$1.10	$1.30

(d) Social Security Tax; $1.50 per $100 of payroll.

An audited summary of charges for payroll taxes and insurance follows:

Payroll Taxes (Social Security and Unemployment)	$304.77
Liability Insurance (and Compensation)	84.23

IV CONCLUSIONS AND RECOMMENDATIONS

This audit has disclosed that all costs, as charged to this project, are reasonable and proper under the terms of the contract, including the Exhibits, as amended, except for the formality on the part of the Government of confirming in writing the implied approval of: (1) the sub-contract dated May 15, 1951, with the Joy Manufacturing Company; and (2) the increase in wage rates effective May 4, 1952.

It is recommended, in effecting this latter action, that Exhibit "D" of the contract be amended to incorporate the Company's labor classifications and rates shown in the second paragraph of Sec. III (2) above. This will eliminate the unnecessary maintenance by the Company of time sheets,

distribution records and cost accounts under the several fictitious classifications.

The audit disclosed that adjustments between the Items of Costs shown on the July MF-104 were required as follows:

Items of Cost	Totals through July 31, 1952 July MF-104	As Audited
(1) Independent Contracts:		
Drilling	$27,335.76	$27,335.76
(2) Labor and Supervision:		
Labor	4,543.81	4,426.15
Supervision	13,274.04	3,717.97
Technical Services		9,673.73
(3) Operating Materials & Supplies:		
Core Boxes		282.00
Other	364.60	82.60
(4) Operating Equipment:		
Rental	293.22	
(7) Miscellaneous:		
Payroll Taxes		304.77
Liability Insurance	78.63	84.23
Workmen's Compensation	5.60	
Other Insurance	304.77	
Transportation		293.22
Totals	$46,200.43	$46,200.43

At the conclusion of the audit, the findings were discussed with the General Superintendent (M. J. Messel) and the Cost Analyst (Price Freeman) and assistance was given the latter in the correct preparation of the August 1952, MF-104 and the MF-104A, which also, through a misunderstanding, has been prepared incorrectly in the past.

E. D. Talbert

E. D. TALBERT
Auditor

September 12, 1952

FILE COPY
SURNAME:

Anderson
Houk
Orlin
Hoffland
Chambers

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

JAN 22 1954

Mr. Stanley Woodward
Executive Vice President
The Ruberoid Company
500 Fifth Avenue
New York 18, New York

Re: Docket No. DMEA-1210 - Asbestos
The Ruberoid Company
Hyde Park, Vermont
Contract No. Idm-E23

Dear Mr. Woodward:

This is with reference to the subject Exploration Contract between your company and the Government.

The final audit of the contract expenditures and the final reports of the Operator and the Field Team have been received and accepted by this Administration. A contract for the total amount of $71,600.00 was approved and the sum of $61,936.36 was expended, 90 percent of which, or $55,742.72, represented the Government's share. There are no unused materials, supplies or equipment to be disposed of for the joint account of the Operator and the Government.

Because the results of the exploration were unfavorable, it is not our intention to make a certification of discovery or development which would create a lien against the subject property. We are, therefore, closing our books and records with respect to this project. Your attention is called, however, to Article 12 of the Contract which requires the Operator to "keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract".

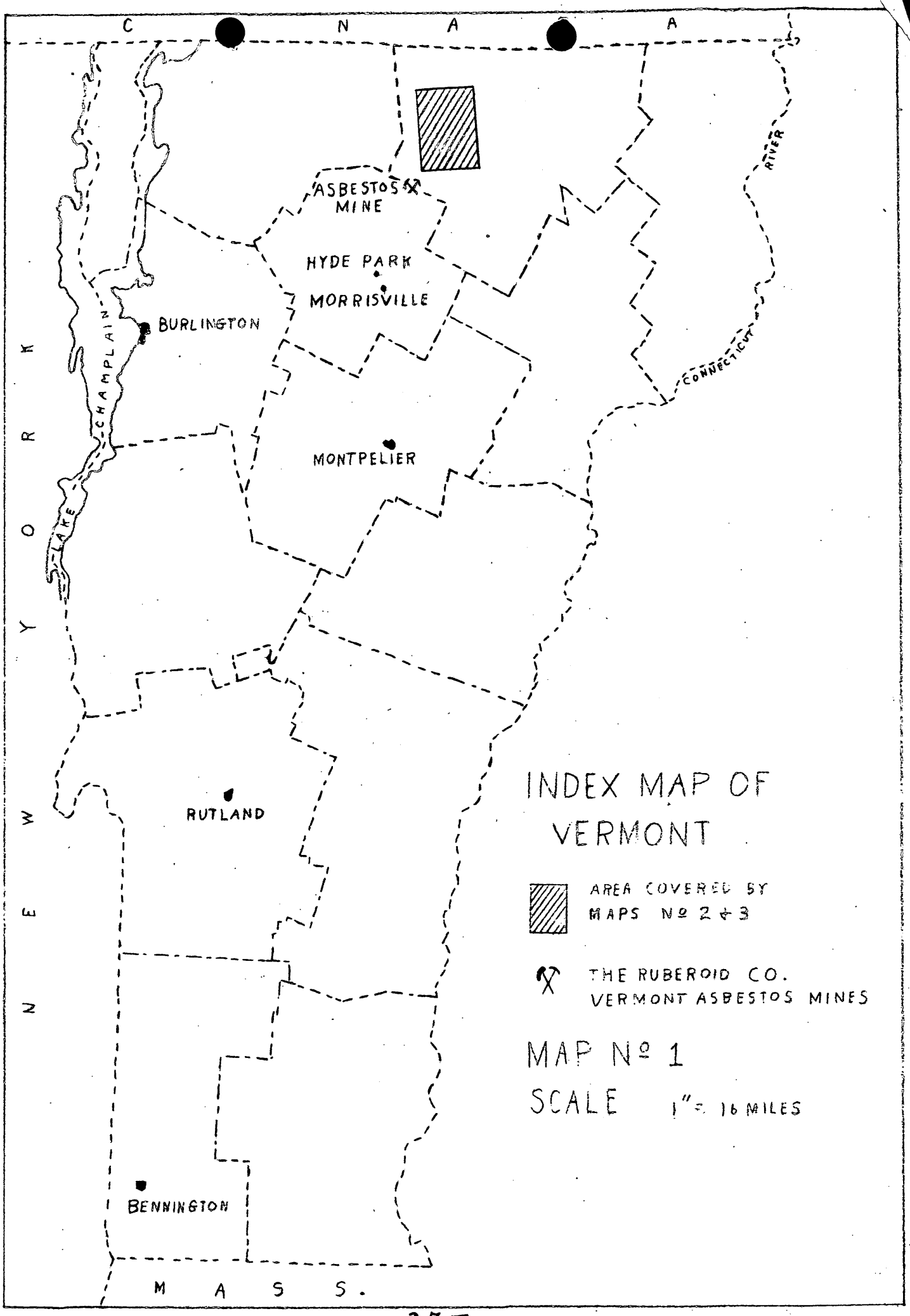
Your interest in the Exploration Program of the Defense Minerals Exploration Administration and your willingness to participate therein are appreciated.

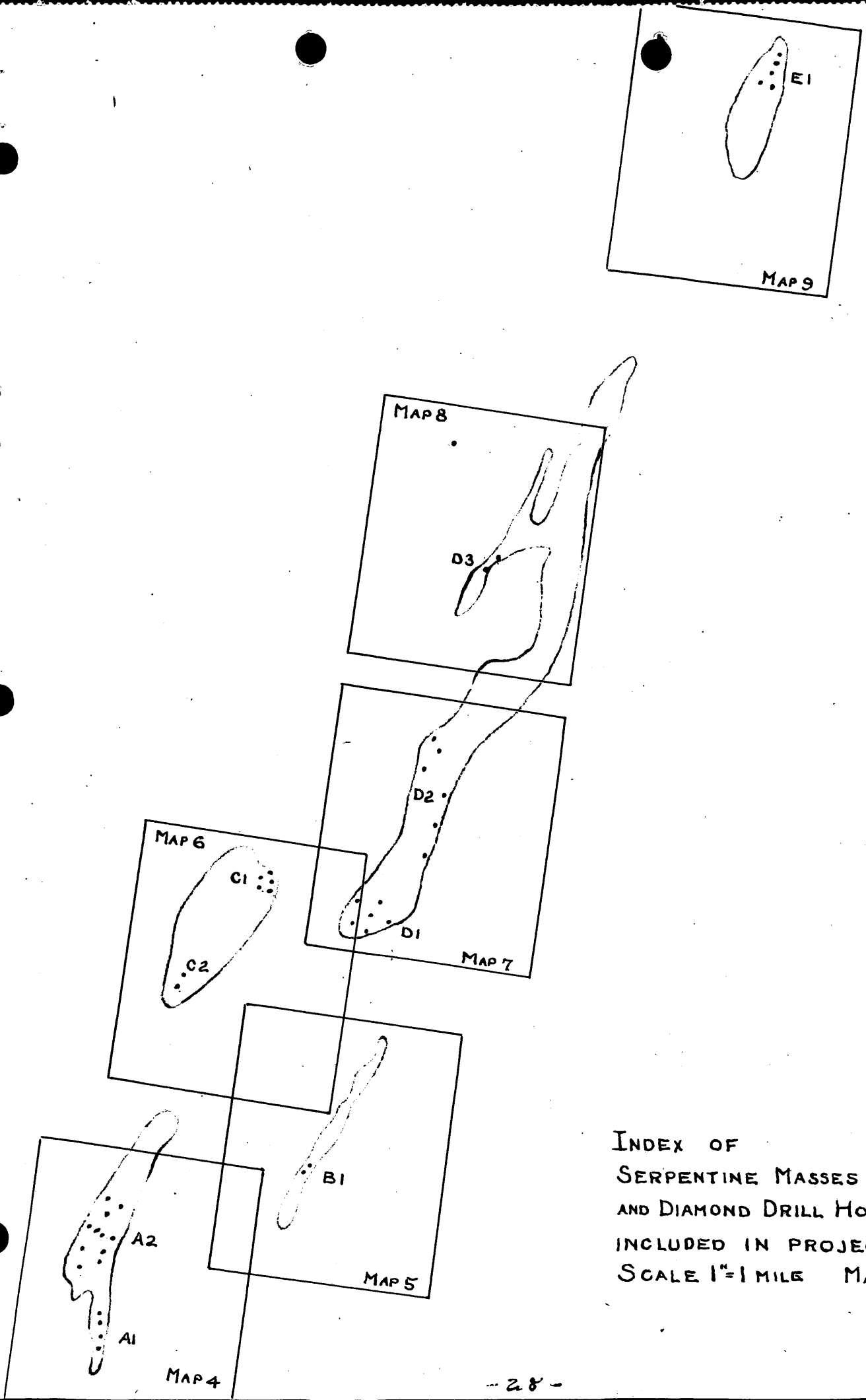
Sincerely yours,

C. O. Mittendorf
By SST
Administrator

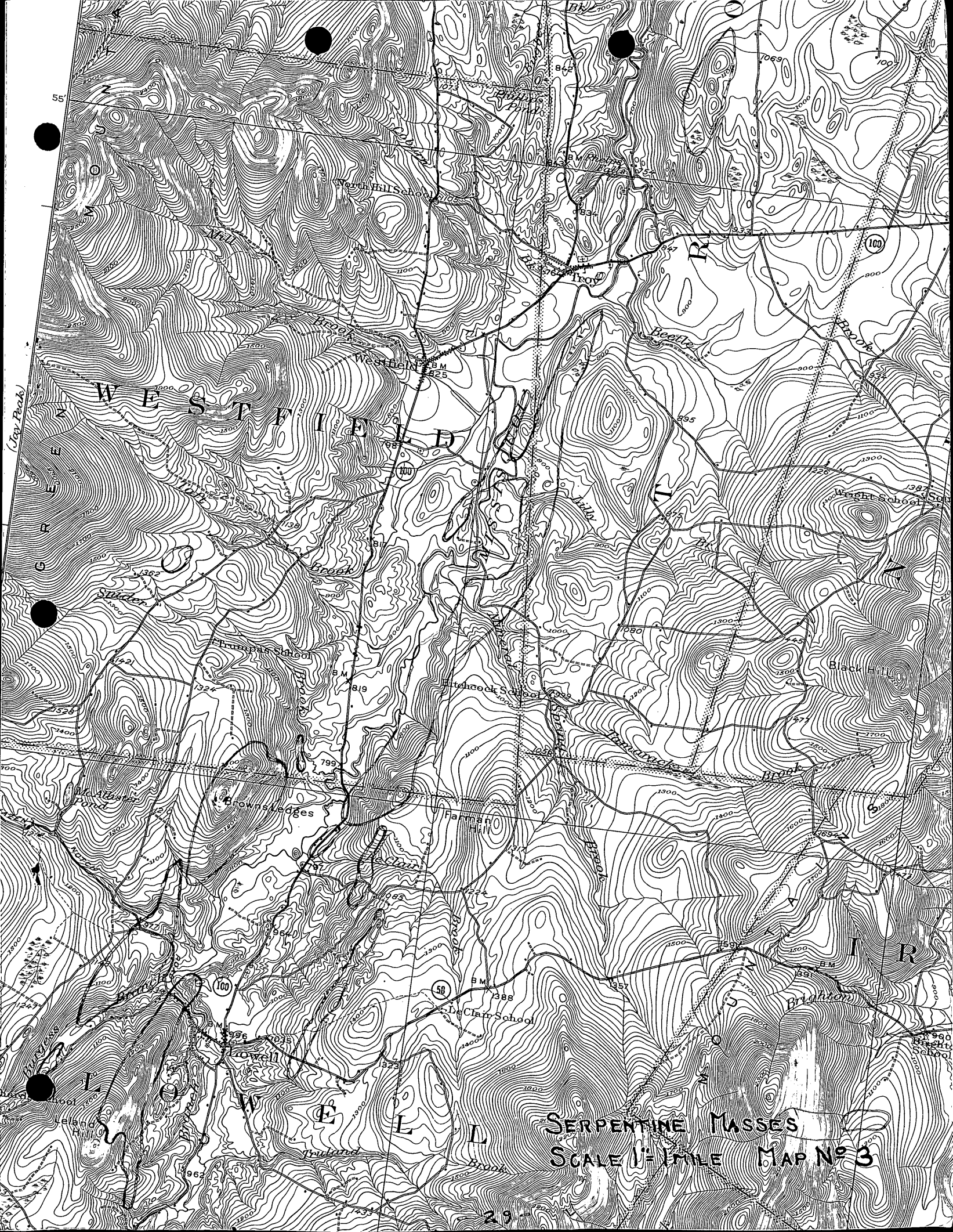
WCAnderson:gad 1/21/54
Copy to: Admr. R. File
Docket File
Dr. Bowles, 3516
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk
Field Team, Region VIII

R.C.G.
1-22-54


C N A A
ASBESTOS MINE
HYDE PARK
MORRISVILLE
BURLINGTON
CHAMPLAIN
LAKE
NEW YORK
CONNECTICUT
RIVER
MONTPELIER
RUTLAND
BENNINGTON
MASS.
INDEX MAP OF VERMONT
AREA COVERED BY MAPS Nº 2 & 3
THE RUBEROID CO. VERMONT ASBESTOS MINES
MAP Nº 1
SCALE 1" = 16 MILES



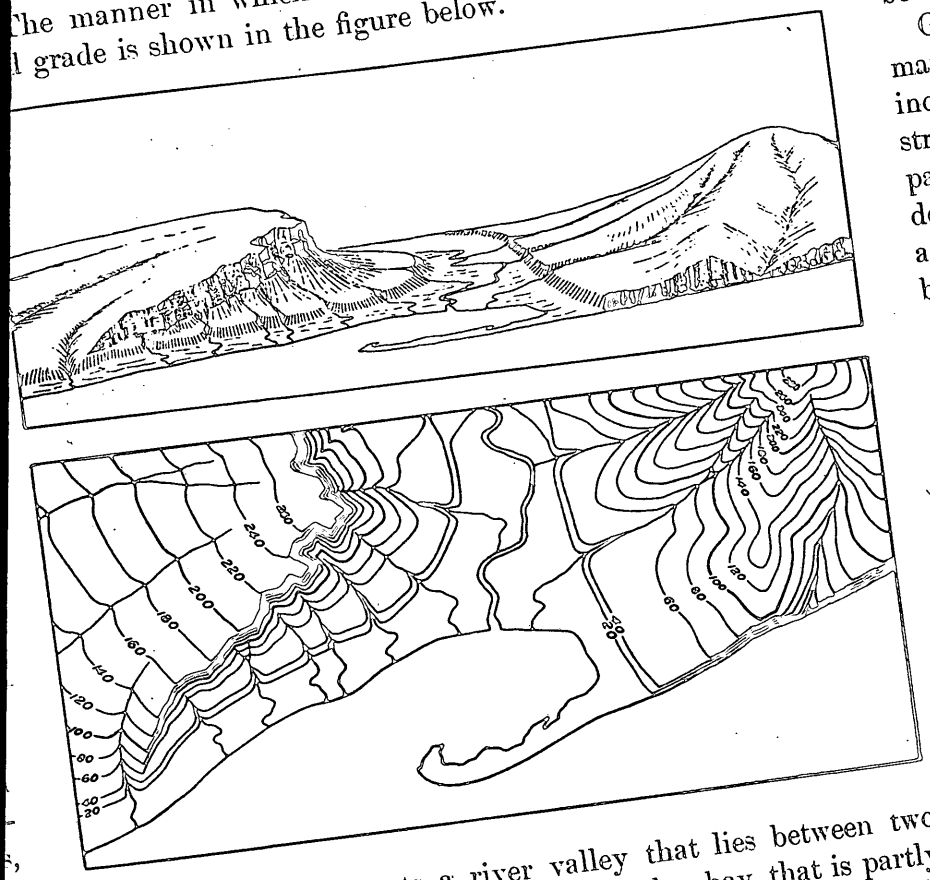
INDEX OF
SERPENTINE MASSES
AND DIAMOND DRILL HOLES •
INCLUDED IN PROJECT
SCALE 1"=1 MILE MAP Nº 2



SERPENTINE MASSES
SCALE 1" = 1 MILE MAP No 3

imaginary line on the ... above sea level. ... is at the same altitude above sea level. ... be drawn at any altitude, but in practice only the contours at certain regular intervals of altitude are shown. The ... or zero of altitude of the Geological Survey maps is mean sea level. The 20-foot contour would be the shore line if the ... would rise 20 feet above mean sea level. Contour lines ... the shape of the hills, mountains, and valleys, as well as ... altitude. Successive contour lines that are far apart on ... map indicate a gentle slope, lines that are close together ... cate a steep slope, and lines that run together indicate a ...

The manner in which contour lines express altitude, form, ... grade is shown in the figure below.



The sketch represents a river valley that lies between two hills. In the foreground is the sea, with a bay that is partly enclosed by a hooked sand bar. On each side of the valley is a terrace into which small streams have cut narrow gullies. The hill on the right has a rounded summit and gently slop-

ship, ... different kinds and weights ... travel the greater part of the year are shown by ... lines; poor public roads and private roads by dashed double lines; trails by dashed single lines. Additional public road classification if available is shown by red overprint.

Each quadrangle is designated by the name of a city, town, or prominent natural feature within it, and on the margins of the map are printed the names of adjoining quadrangles on which maps have been published. More than 4,100 quadrangles in the United States have been surveyed, and maps of them similar to the one on the other side of this sheet have been published.

Geologic maps of some of the areas shown on the topographic maps have been published in the form of folios. Each folio includes maps showing the topography, geology, underground structure, and mineral deposits of the area mapped, and several pages of descriptive text. The text explains the maps and describes the topographic and geologic features of the country and its mineral products. Two hundred twenty-five folios have been published.

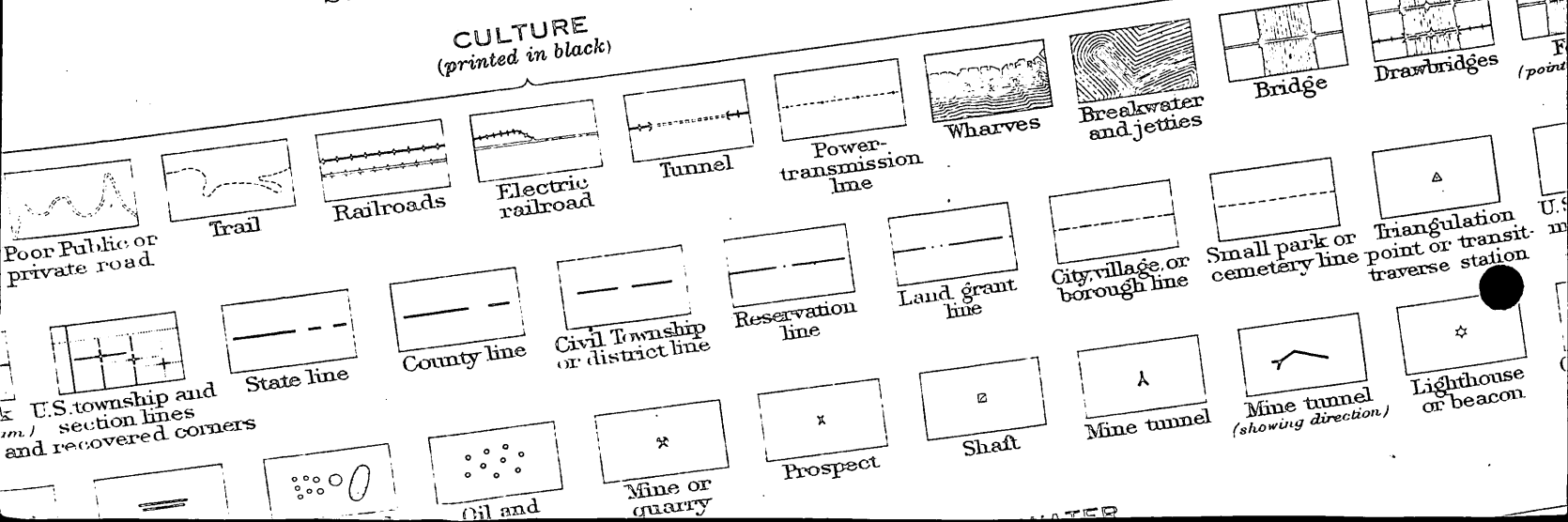
Index maps of each State and of Alaska and Hawaii showing the areas covered by topographic maps and geologic folios published by the United States Geological Survey may be obtained free. Copies of the standard topographic maps may be obtained for 10 cents each; some special maps are sold at different prices. A discount of 40 percent is allowed on an order amounting to $5 or more at the retail price. The discount is allowed on an order for maps alone, either of one kind or in any assortment, or for maps together with geologic folios. The geologic folios are sold for 25 cents or more each, the price depending on the size of the folio. A circular describing the folios will be sent on request.

Applications for maps or folios should be accompanied by cash, draft, or money order (not postage stamps) and addressed to

THE DIRECTOR,
United States Geological Survey,
Washington, D. C.

November 1937.

STANDARD SYMBOLS

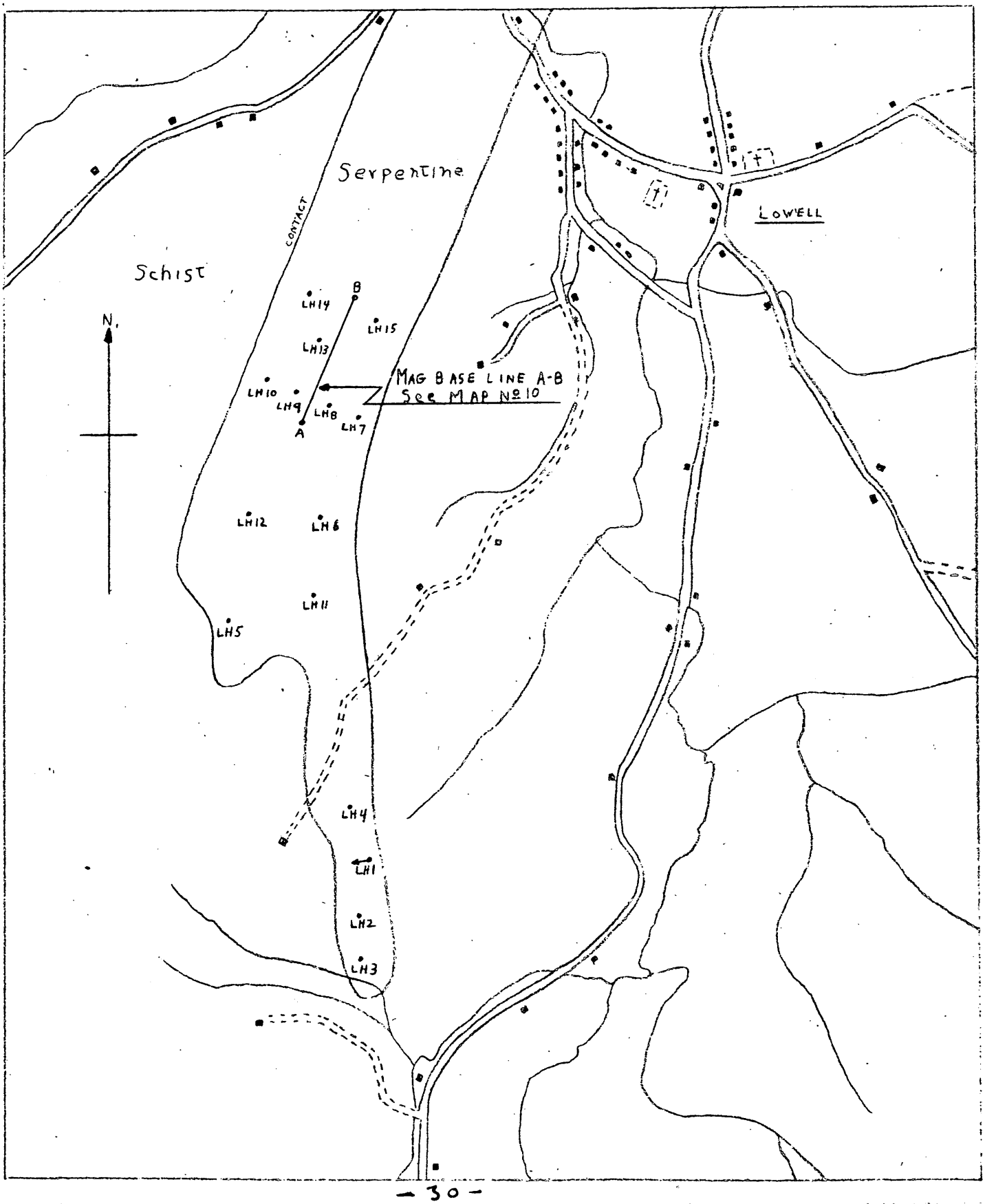


DMEA PROJECT 1210 CONTRACT E23

AREA A

SCALE 1" = 1320' MAP Nº 4

DEC. 1952

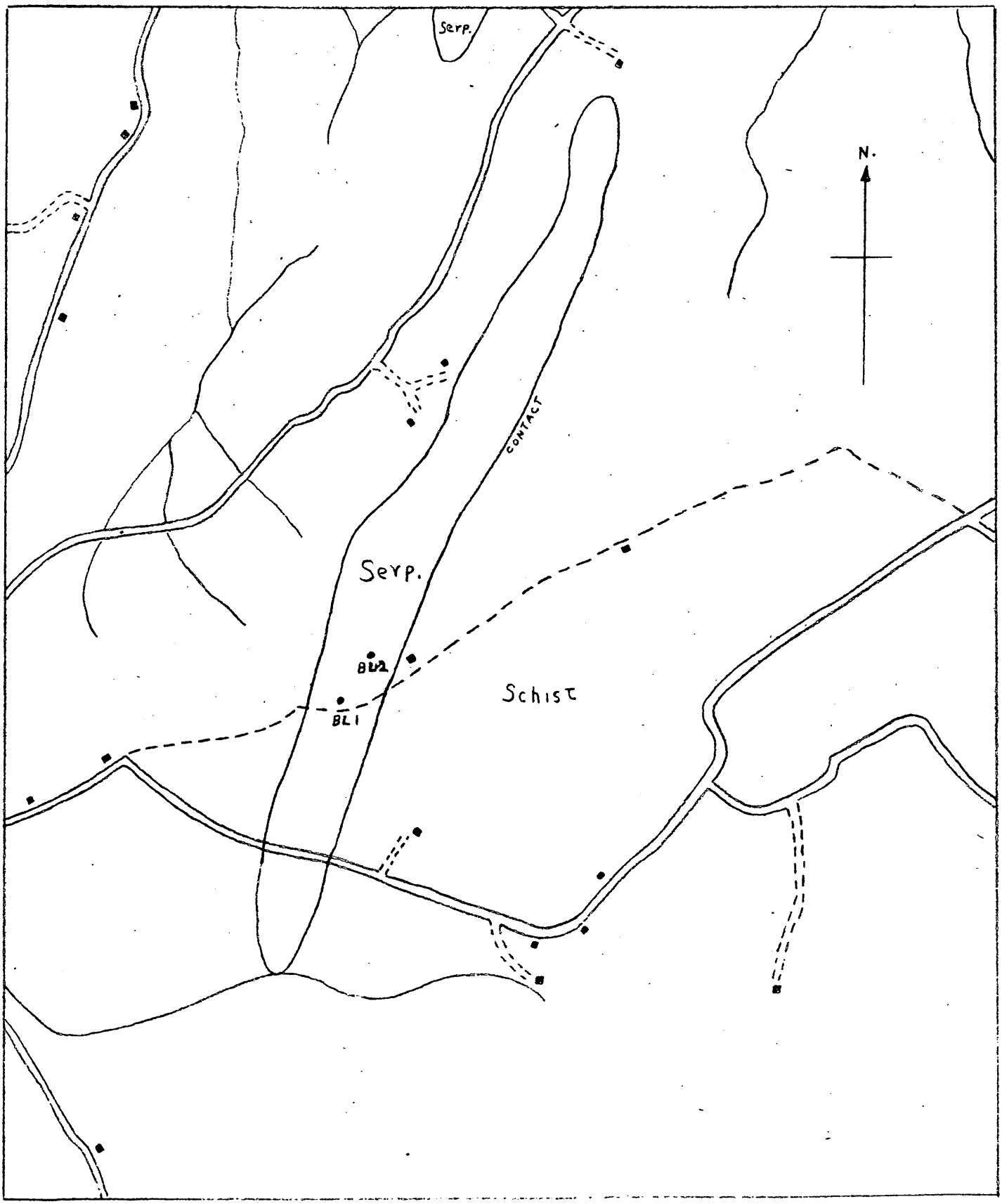


DMEA PROJECT 1210 CONTRACT E23

AREA B

SCALE 1" = 1320' MAP Nº 5

DEC. 1952

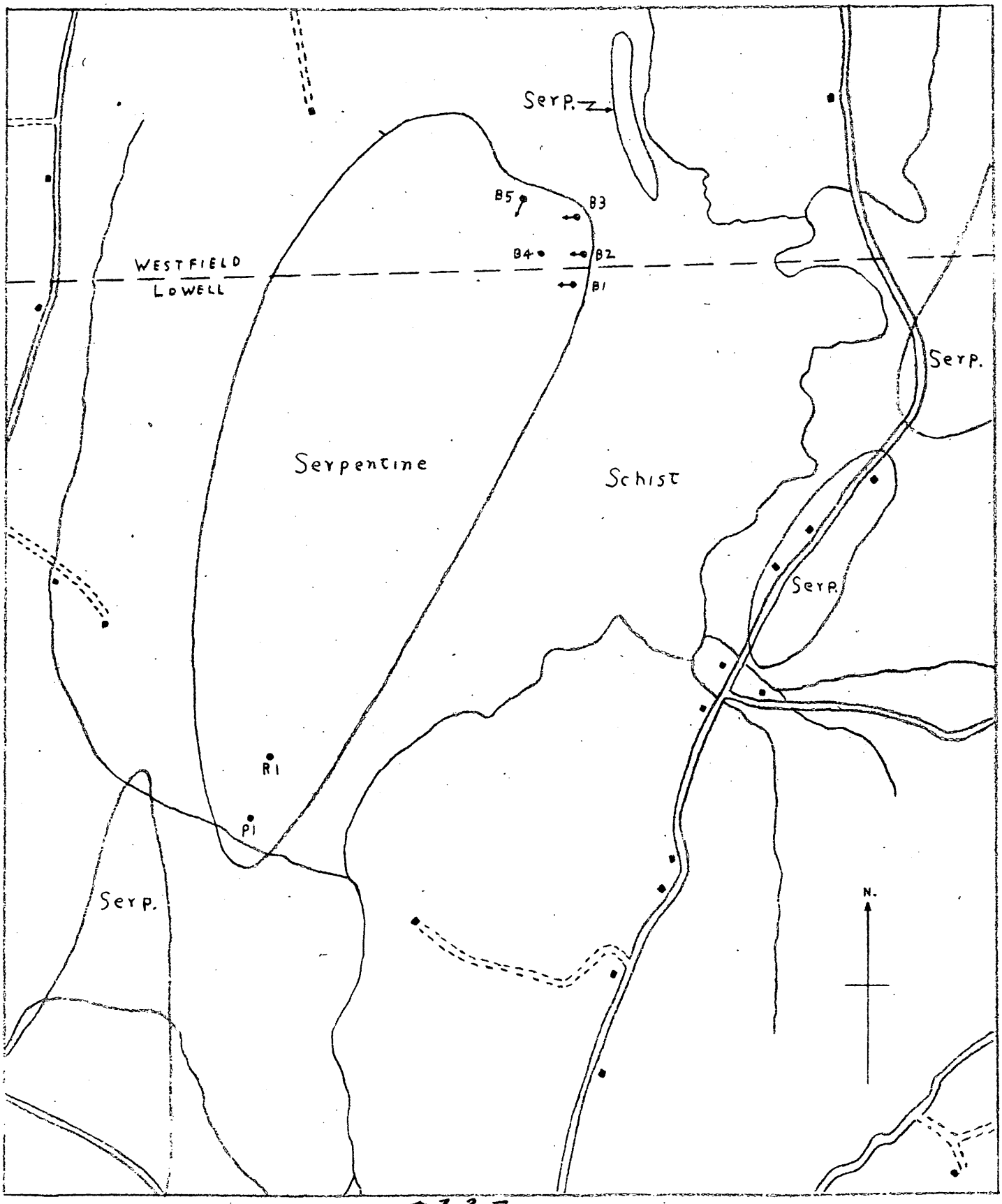


DMEA PROJECT 1210 CONTRACT E23

AREA C

SCALE 1" = 1320' MAP Nº 6

DEC. 1952

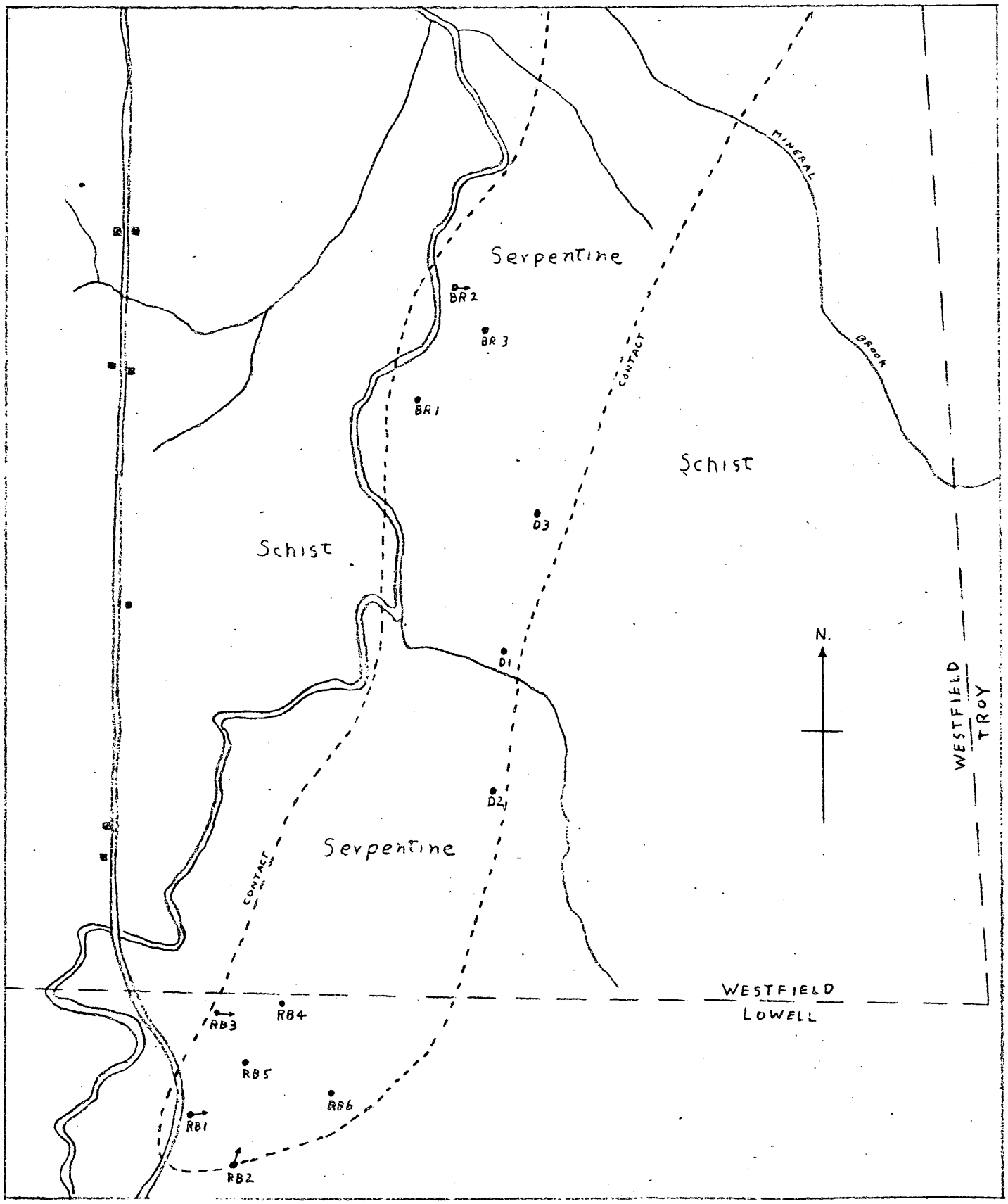


DMEA PROJECT 1210 CONTRACT E23

AREA D1 and D2

SCALE 1" = 1320' MAP Nº 7

DEC. 1952

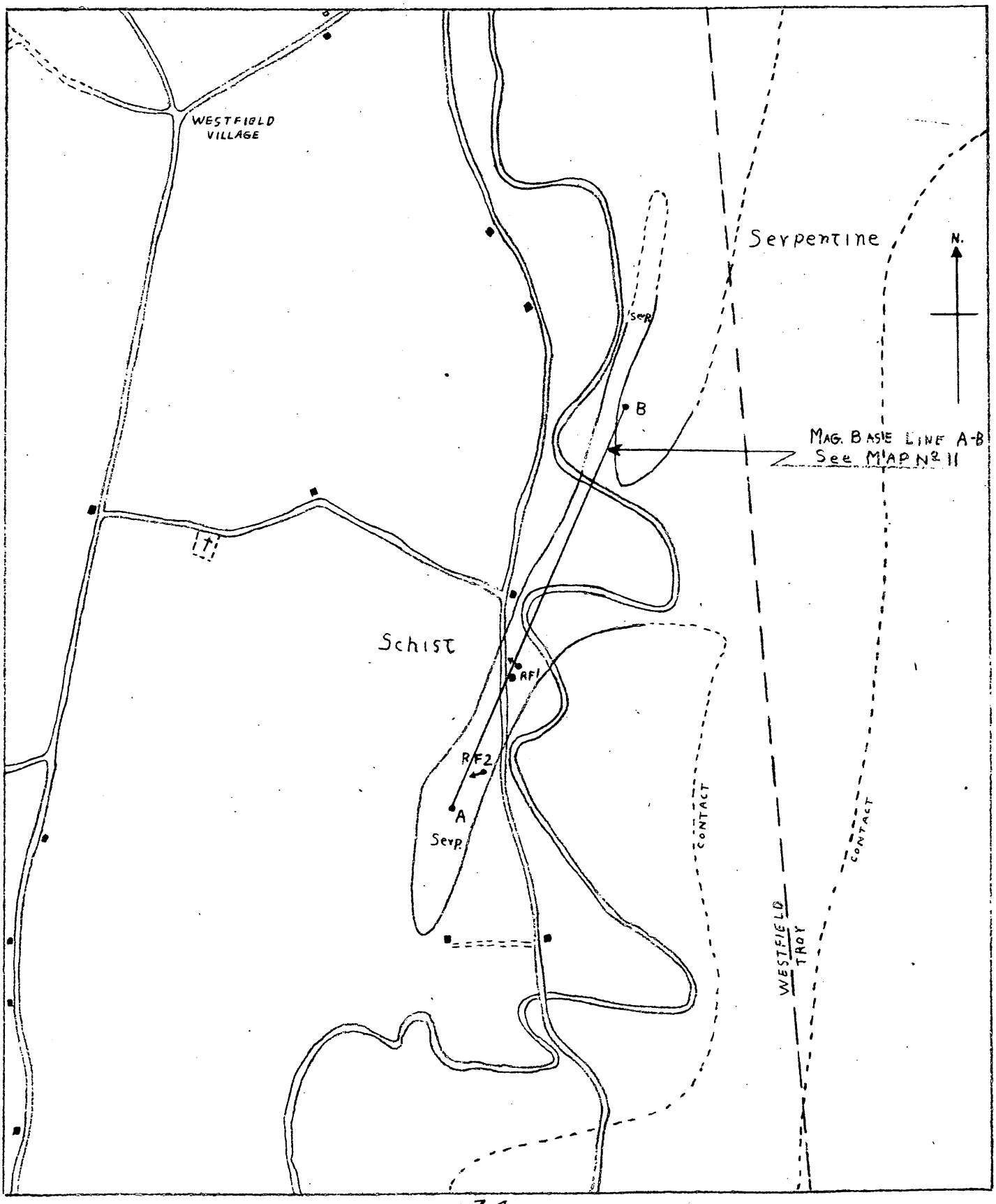


DMEA PROJECT 1210 CONTRACT E23

AREA D3

SCALE 1"=1320' MAP Nº 8

DEC. 1952

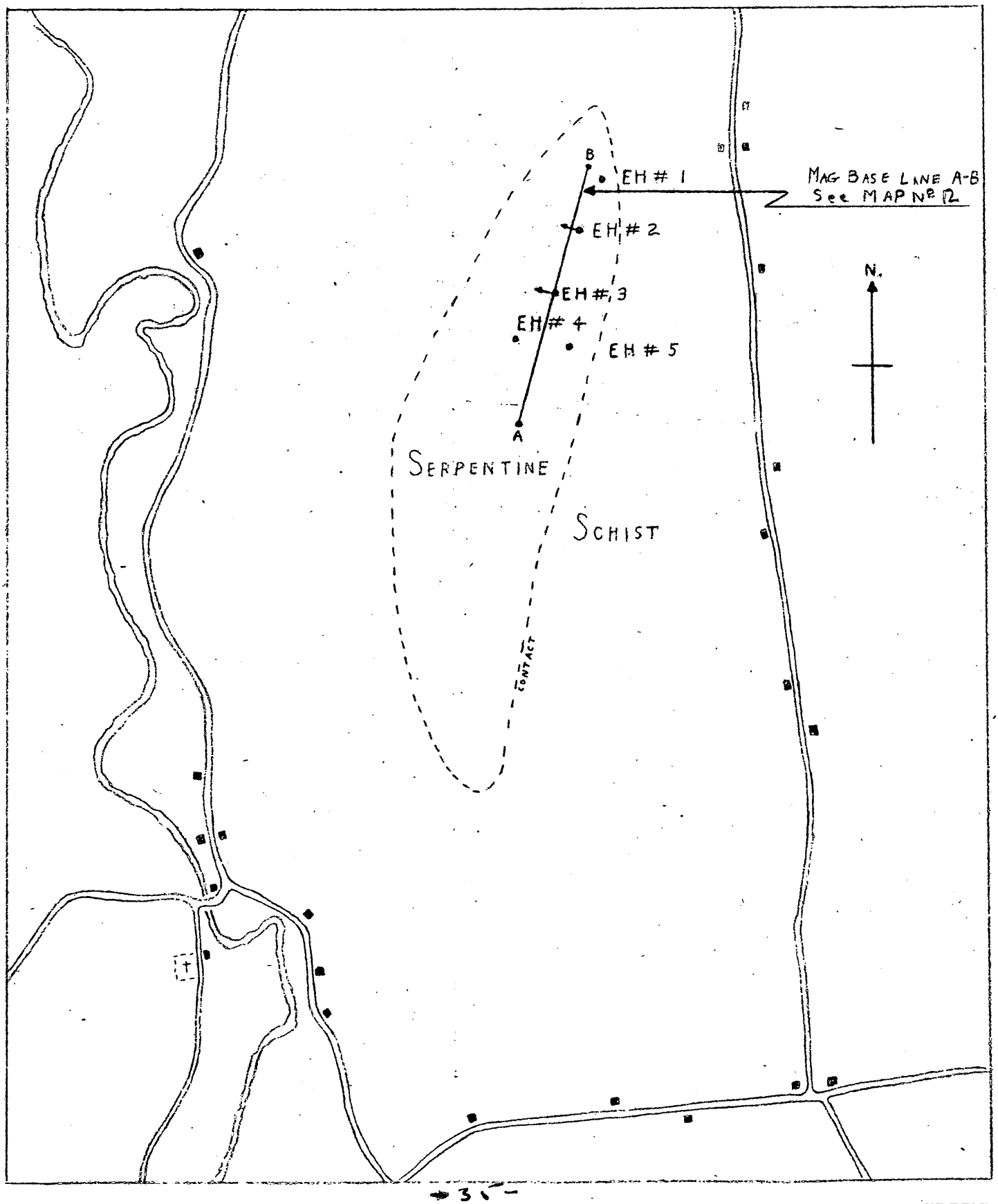


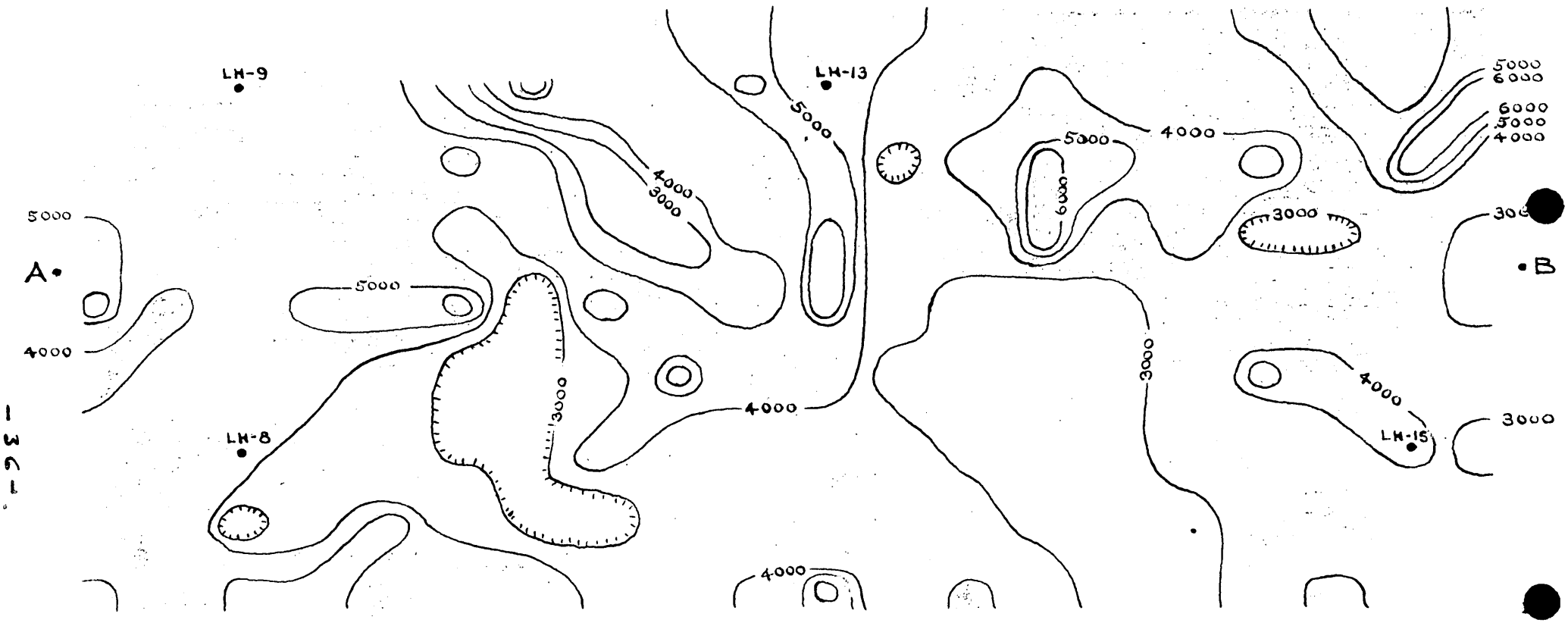
DMEA PROJECT 1210 CONTRACT E23

AREA E

SCALE 1" = 1320' MAP Nº 9

DEC. 1952

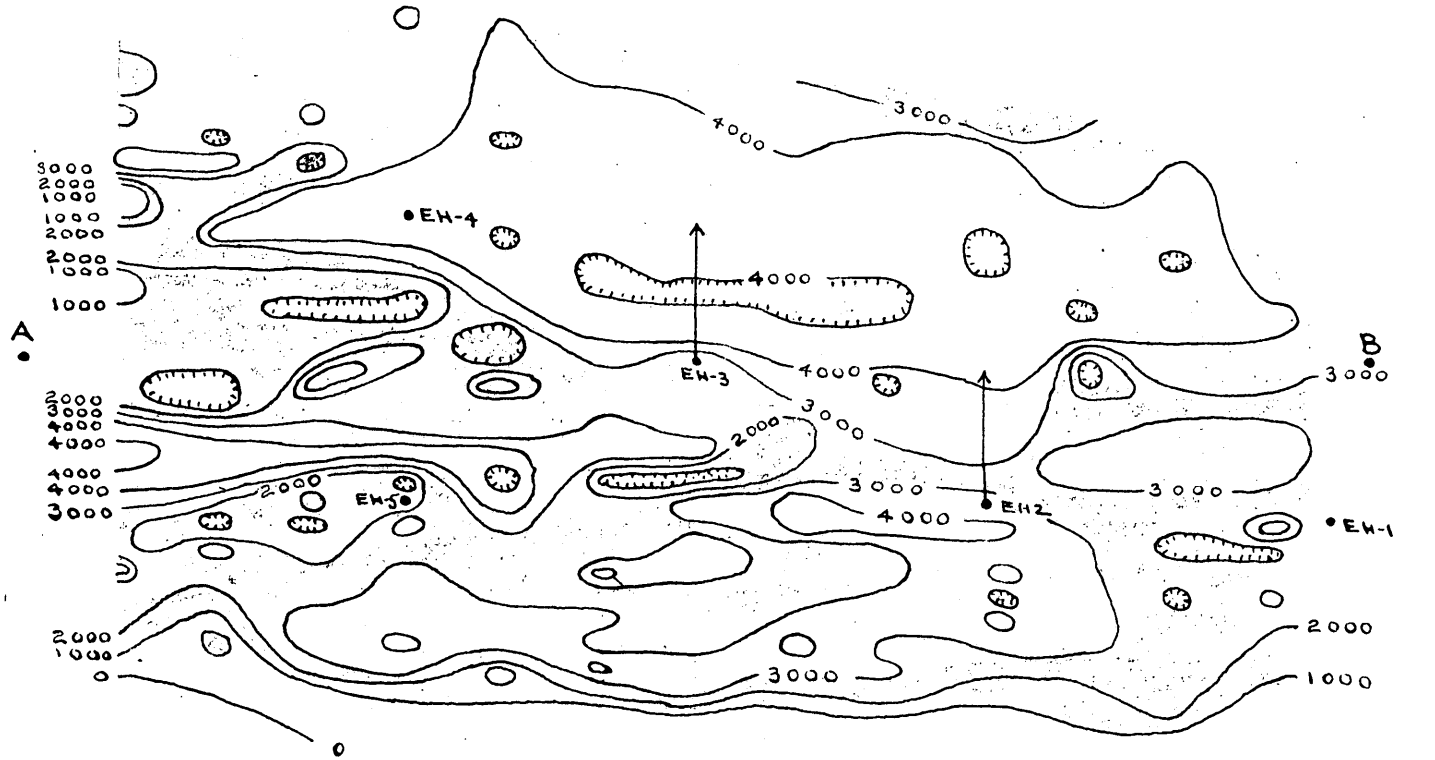




VERTICAL MAGNETIC INTENSITY
BASE INTENSITY ARBITRARY
CONTOUR INTERVAL 1000 GAMMA

BELOW 3000 GAMMA
3000 TO 4000 GAMMA
4000 TO 5000 GAMMA
5000 TO 6000 GAMMA
OVER 6000 GAMMA
DIAMOND DRILL HOLES • LH

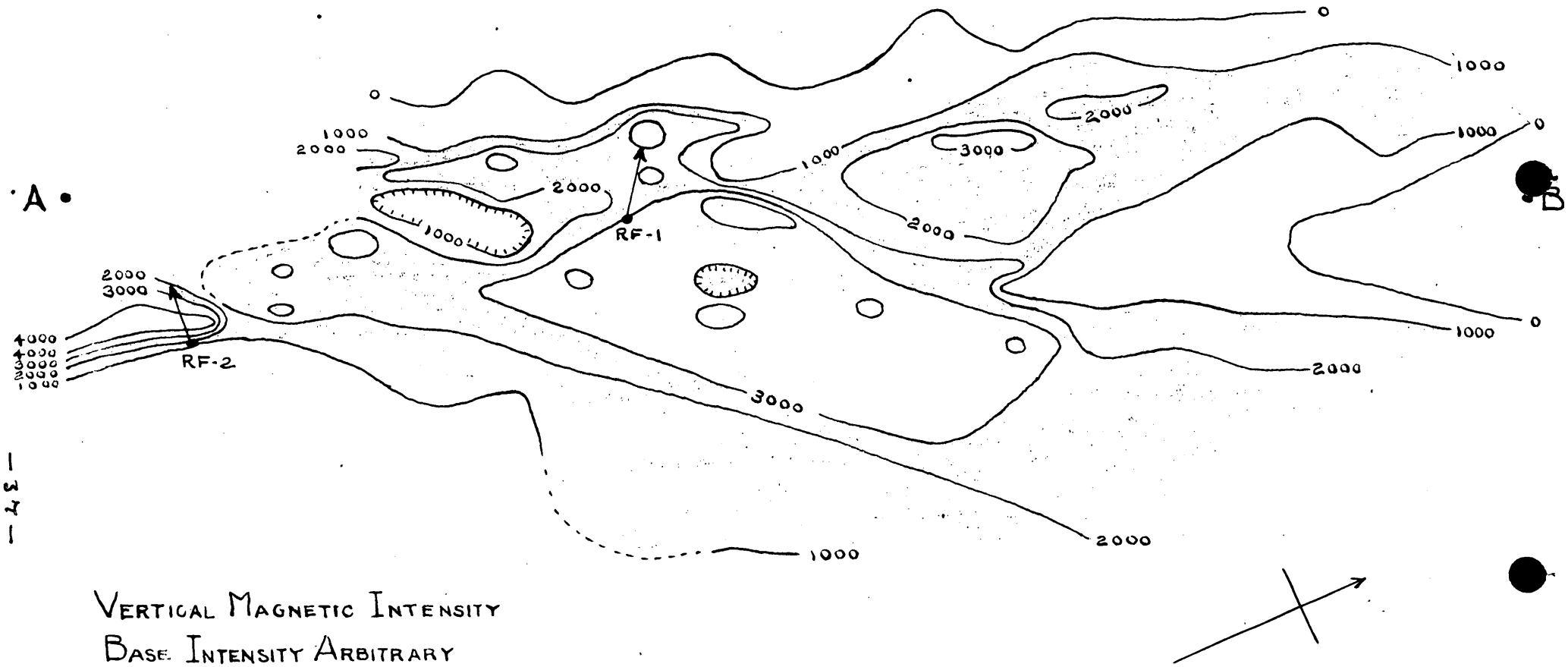
DMEA PROJECT 1210 CONTRACT E23
AREA Nº A2
SCALE 1" = 200' MAP Nº 10
DEC. 1952



VERTICAL MAGNETIC INTENSITY
BASE INTENSITY ARBITRARY
CONTOUR INTERVAL 1000 GAMMA

0 TO 1000 GAMMA
1000 TO 2000 GAMMA
2000 TO 3000 GAMMA
3000 TO 4000 GAMMA
OVER 4000 GAMMA
DIAMOND DRILL HOLES • ↔ EH

DMEA PROJECT 1210 CONTRACT E23
AREA Nº E1
SCALE 1" = 400' MAP Nº 12
DEC. 1952



VERTICAL MAGNETIC INTENSITY
BASE INTENSITY ARBITRARY
CONTOUR INTERVAL 1000 GAMMA

0 TO 1000 GAMMA
1000 TO 2000 GAMMA
2000 TO 3000 GAMMA
3000 TO 4000 GAMMA
OVER 4000 GAMMA
DIAMOND DRILL HOLES

DMEA PROJECT 1210 CONTRACT E23
AREA Nº D3
SCALE 1" = 400' MAP Nº 11
DEC. 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH1

LOCATION: AREA Nº 2 PROPERTY: GELO

ANGLE OF HOLE: 45° DEPTH: 233 SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
14	OVER-BURDEN	
	< 0.2 %	
233		

This hole was drilled at an angle of 45° for 233 feet or a vertical depth of 165 feet. Overburden was 10 feet deep.

The hole entered serpentine at 14 ft. and remained in this type of rock to the bottom at 233 feet, however some sections of the rock cannot be recognized as serpentine owing to the very high carbonate content.

No accurate estimate of the fiber content can be given, but it certainly would be below 0.2%.

Some sections might make verde antique.

This hole is definitely below ore grade.

LOGGED BY, W.M. + J.G.
SEPTEMBER 7, 1951

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH2

LOCATION: AREA Nº 2 PROPERTY: TAYLOR

ANGLE OF HOLE: 90° DEPTH: 301' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0	OVER-BURDEN	This hole was drilled to a vertical depth of 301 feet at an angle of 90°. The overburden was 76 feet thick.
76	1%	The first section down to 150 feet was well sheared serpentine with some short slip fiber and cross fiber. The slip fiber was Talcy. 1%
150	2.2%	The next section from 150 ft to 239 ft was serpentine, also well sheared. There was some fair length slip fiber. 2.2%
239	2%	The last section from 239 to the bottom at 301 ft. was well sheared serpentine showing short slip fiber. 2.0%
301		

LOGGED BY, W.M. + J.G.
SEPTEMBER 12, 1951

2.78 % FIBER RECOVERED
$1.93 VALUE PER TON ORE
} CORE MILL RESULTS

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 3

LOCATION: AREA Nº 2 PROPERTY: TAYLOR
ANGLE OF HOLE: 90° DEPTH: 205 SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		The hole was drilled to a verticle depth of 205 feet at an angle of 90°. Overburden was 68 feet Thick.
	OVER-BURDEN	
68		The hole entered serpentine at 68 ft. and remained in this type of rock to the bottom. The serpentine was very well sheared with numerous calcite veinlets.
	< ½%	The first 10 ft of core contained some short slip fiber of the very shortest grades. The rest of the hole was nearly barren.
205		This hole is definately below ore grade.

LOGGED BY, W.M. + J.G.
SEPTEMBER 18, 1951

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH4

LOCATION: AREA Nº 2 PROPERTY: ELLIOTT
ANGLE OF HOLE: 90° DEPTH: 203' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
16	OVER-BURDEN	This hole was drilled to a verticle depth of 203 ft at an angle of 90°.
	2 %	The rock shows considerable shearing making a multitude of very fine veinlets. Some of these contain short slip fiber, but the majority of fiber is short cross. The cross is generally in short sections of rock not quite so sheared. The veins are generally very short in length and very few are over 1/8" in width.
161		The following two sections from 161 to 176 ft and again (to a lesser extent) 186 to 189 ft. show some good slip fiber in veins of fair size. These zones show three seams of spinning length. There are some calcite seams. These two sections would average 5 %, but the entire hole would average 2 to 2½ %
	5 %	
176	2 %	
186	5 %	
189	2 %	
203		

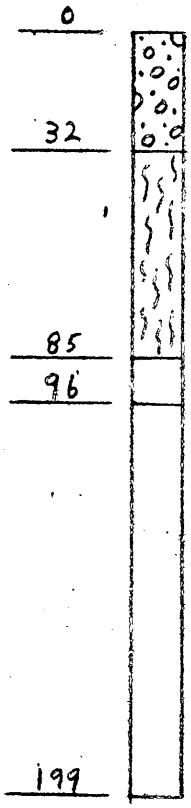
LOGGED BY W.M. + J.G.
OCTOBER 11, 1951

2.36 % FIBER RECOVERED } CORE MILL RESULTS
1.60 % VALUE PER TON ORE

DMEA 1210 CONTRACT E 23

LOG OF DRILL HOLE Nº LH 5

LOCATION: AREA Nº 2 PROPERTY: ELLIOTT
ANGLE OF HOLE 90° DEPTH: 199' SCALE: 1" = 50'



DESCRIPTION

The hole was drilled to a vertical depth of 199 feet at an angle of 90°. The overburden was 32 feet thick.

The first section from 32 ft to 85 ft. was schist.

The next section from 85 ft to 96 ft. was talc.

The hole entered serpentine at 96 feet and remained in it to the bottom at 199 feet. There was very little fracturing in the serpentine and the fiber content was as near 0% as possible. There were a few visable seams in the last 30 feet of core which were mostly calcite.

LOGGED BY, J.G.
OCTOBER 11, 1951

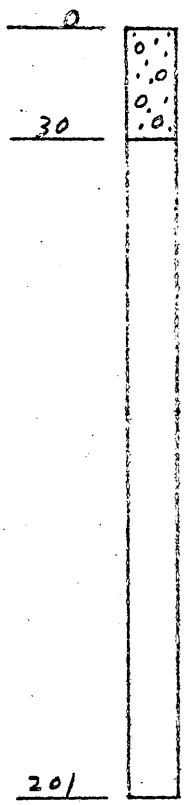
DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 6

LOCATION: AREA Nº 2 PROPERTY: BELROSE

ANGLE OF HOLE: 90° DEPTH: 201' SCALE: 1" = 50'

FEET . EST % FIBER



< ½%

DESCRIPTION

The hole was drilled to a vertical depth of 201 ft. at an angle of 90°. The hole entered serpentine at 30 feet and remained in this type of rock to the end of the hole at 201 feet. Overburden was 30 ft thick.

The rock was fairly well sheared, but still fairly sound. The serpentine was mottled, being quite dark in color with light green to white blotches.

Some cross and slip fiber was found in very fine veinlets. All the fiber was very short and would average less than 0.5% in its greatest concentration. Vein calcite was found throughout the hole.

LOGGED BY, J.G.
OCTOBER 11, 1951

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 7

LOCATION: AREA Nº 2 PROPERTY: PARKER
ANGLE OF HOLE: 90° DEPTH: 200' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		This hole was drilled at an angle of 90° to a vertical depth of 200 feet. Overburden was 2 ft. thick.
2		The hole entered serpentine at 2 ft and remained in it to the bottom of the hole. The hole was very uniform throughout. The serpentine was dark green in color with scattered light green streaks. What fiber there was in the core, was in wildly scattered fine seams. All fiber was of the short slip variety. The fiber content will average less than 0.5 %
	< ½ %	The rock is apparently weak as it is broken in many places and some difficulty was encountered in core recovery.
200		

LOGGED BY W.M. + J.G.
NOVEMBER 9, 1951

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 8

LOCATION: AREA Nº 2 PROPERTY: PARKER
ANGLE OF HOLE: 90° DEPTH: 303' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		The hole was drilled to a vertical depth of 303 feet at an angle of 90°. Overburden was 20 feet thick.
20		The hole was fairly uniform throut. The serpentine was not fractured to any great extent but does show numerous shear planes. From 20 to 93 ft. the core is badly broken, but this seems to be due to faulty drilling rather than to rock structure.
	½ %	The serpentine for the most part is practically barren of fiber. Occasional scattered zones, 6" to 24" long, show very short slip fiber. The fiber content of the hole will not average over 0.5%
303		

LOGGED BY, J.G.
NOVEMBER 7, 1951

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH9

LOCATION: AREA Nº 2 PROPERTY: BELROSE

ANGLE OF HOLE: 90° DEPTH: 30.1' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		This hole was drilled to a vertical depth of 301 feet at an angle of 90°. Overburden was 35 ft. thick.
35		The hole entered serpentine at 35 ft. and remained in it to the end. Generaly the serpentine was dark green in color with veins of light green serpentine. The rock was not highly sheared, but does show a definate shear pattern.
	0.5 %	The fiber is all very short cross and widly scattered in the rock. All fiber veins were less than ½" except for one showing of ¾" fiber at 184 ft. This vein was tough and very difficult to open. This hole will average 0.5 to 0.75 %
301		LOGGED BY, J.G. DECEMBER 1, 1951

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 10

LOCATION: AREA Nº 2 PROPERTY: BELROSE
ANGLE OF HOLE: 90° DEPTH: 299' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		The hole was drilled to a vertical depth of 299 ft. at an angle of 90°. The overburden was 25 feet Thick.
25		
	0.5 %	In the first section down to 131 ft, the serpentine is badly broken - this may be due to the type of rock and fracturing, but looks more like poor drilling. There was some very short cross fiber less than ⅛" wide. One piece of ribbon rock was noted at 60 ft.
131		
	0.2 %	The section from 131 ft to 170 ft. was solid serpentine. Practically no fiber.
170		
	0.4 %	The next section from 170 to 229 feet was serpentine, very similar to the first section. The fiber was both cross and slip with one good showing of fiber at 194 ft.
229		
	0.0 %	The last section was barren serpentine with very little fracturing.
299		

LOGGED BY, J.G.
NOVEMBER 27, 1951

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 11

LOCATION: AREA Nº 5 PROPERTY ELIOT FARM

ANGLE OF HOLE 90° LENGTH SCALE 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
	Over-burden	
33		
	Less than 0.5%	This hole was drilled vertical to a depth of 301'. Overburden was 33' deep. The core showed serpentine that was considerably sheared. The fiber content was very low. Fine fiber seams, hairline in size, were scattered throughout. These contained very short fiber of good quality. An occasional seam 1/16" wide and one or two 1/4" wide showed longer but brittle weak fiber. The hole is definitely below one grade.
301		

LOGGED BY J.G + L.J.
DATE 31 MAY 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 12

LOCATION: AREA Nº 2 PROPERTY ELLIOTT FARM
ANGLE OF HOLE 90° LENGTH 301' SCALE 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
	OVER-BURDEN	THIS VERTICAL HOLE WAS DRILLED TO A DEPTH OF 301 FT. THE DRILL PASSED THROUGH 29 FEET OF OVERBURDEN. THE CORE SHOULD SERPENTINE FROM 29 FT TO 301 FT.
29		THE SERPENTINE WAS WELL SHEARED EXCEPT FOR THE FIRST 20 FT WHICH WAS BLOCKY.
	0.5 %	THE FIBER ENCOUNTERED IN THE HOLE WAS VERY SHORT SLIP FIBER WHICH OCCURES IN NUMEROUS SHORT AND SCATTERED HAIR-LIKE VEINS. NO FIBER OF SPINNING QUALITY WAS FOUND AND THE ONLY INDICATION OF CROSS FIBER WAS NOTED AT A DEPTH OF 275 FT. HERE THERE WAS A HALF DOZEN SHORT SEAMS OF CROSS FIBER. THEY AVERAGED ABOUT 1/16" IN LENGTH.
301		THE TOTAL FIBER CONTENT OF THE HOLE WOULD BE ABOUT 0.5 %. THE HOLE IS CONSIDERED AS BELOW ORE GRADE.

RECORD BY E. J. [illegible]
[illegible] DEC 6, 1952.

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 13

LOCATION: AREA Nº 5 PROPERTY: PARKER

ANGLE OF HOLE: 90° DEPTH: 303' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
10	Over burden	This hole was drilled vertically to a depth of 303 feet. Overburden was 10 feet. The serpentine is generally normally sheared and low to medium grade. A few sections are blocky and show circulating aqueous matter occurring with fiber. The fiber is mostly short slip fiber of poor to fair quality. Numerous veinlets of short slip fiber occur at 182 to 253 feet. Recoverable fiber content runs 0.5- to 1%. Definitely below ore grade. Some cutter of spinning fiber.
	0.5-1%	
303		

Logged by L.J. & F.T.
July 8 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 14

LOCATION: AREA Nº 2 PROPERTY: PARKER

ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		The hole was drilled to a vertical depth of 300 feet. Overburden was 13 feet.
13		The section from 13 to 272 feet shows normal shearing and is slightly mineralized except for a few scattered sections which are nearly barren. The fiber in this section is short slip fiber some of which is of good quality.
	1%	From 272 to 300 feet the serpentine is mottled and nearly barren. Some very short slip fiber occurs. Definitely below ore grade.
272	0-0.5%	
300		

Logged by L. J.
August 8, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 15

LOCATION: AREA Nº 5 PROPERTY: PARKER

ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
15	Over-burden	The hole was drilled vertically to a depth of 300 feet. Overburden was 15 feet deep.
		Serpentine occurs from 15 to 300 feet. It is somewhat blocky and only poorly sheared, with the exception of a section from 167 to 267 feet, which is fairly well sheared and contains 6 or so veins ½ inch wide showing very poor quality, brittle slip fiber.
	0.5-1%	Fiber is generally slip fiber of poor quality and is often mixed with talc and carbonaceous material. Estimated fiber content is less than 1%. There is no indication of cross or spinning fiber.
300		

Logged by L. J. & F. T.
July 8, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RB 6

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM
ANGLE OF HOLE 90° LENGTH 244' SCALE 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
28		This hole was drilled to a depth of 244 feet at an angle of 90°. The hole passed through 28 feet of overburden before entering serpentine.
	½%	The serpentine is light grey in color. The core shows the rock to be well sheared, but poorly mineralized. The serpentine contains short slip fiber which is talcose. There is no indication of cross fiber. The fiber content is about ½%
123		The section from 123 ft. to 244 feet is sericite schist. The hole is definately not ore.
244		

LOGGED BY L. J.
DECEMBER 4, 1952

DMEA 1210 CONTRACT E 23

LOG OF DRILL HOLE Nº D-1

LOCATION: AREA Nº 5 PROPERTY DUGAN

ANGLE OF HOLE: 90° DEPTH: 295' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
		OVER-BURDEN
22		
	½ %	This hole was drilled to a vertical depth of 295 feet. The depth of overburden was 22 feet. Serpentine was encountered at 22 feet and the hole remained in serpentine to a depth of 283 feet where schist was encountered. The hole remained in schist to the bottom - a depth of 295 feet.
130		
	½ %	The core from 22 feet to 130 feet was dark green serpentine, poorly sheared and only slightly mineralized with a few scattered veins of short slip fiber mixed with carbonaceous material - .5 % fiber.
188		
	½ %	From 130 to 188 ft. the serpentine is well sheared showing some slip fiber which is of poor quality - .5 %
		From 188 ft. to 276 ft. the serpentine is dark green - poorly sheared and mineralized. Short slip fiber - .5 %
276		
283		A dark seam occurs between 276 ft. and 283 ft.
295	5½ %	The dark grey to black schist started at 283 feet. The hole is below ore grade.

Logged by L.J.

SEPTEMBER 4, 1952.

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº D-2

LOCATION: AREA Nº 5 PROPERTY: DUGAN
ANGLE OF HOLE: 90° DEPTH: 301' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
18	OVERBURDEN	The hole was drilled to a depth of 301 feet. The overburden was 18 feet deep. The hole entered serpentine at 18 feet and remained in the serpentine to the bottom — a depth of 301 feet.
	½ %	The section from 18 feet to 107 feet is dark green to black in color. This serpentine is poorly sheared and mineralized. The slip fiber is short and of poor quality occuring in hairline veins. There are several seams of slip fiber of good length, but these are harsh. Fiber content is less than 0.5 %
107		
	< ½ %	
139		
	< ½ %	
168		
	< ½ %	
190		
	½ %	From 107 to 139 feet the core has a grey color and is nearly barren. < 0.5 %
		From 139 to 168 ft. the serpentine is well sheared and the core is blocky. Short slip fiber of poor quality. < 0.5 % fiber content
301		From 168 to 190 ft. the serpentine is light green with a high talc concentration of carbonate.
		From 190 to 301 ft. the core shows short slip fiber 0.5 %

Logged by W. J.
September 5, 1952

DMEA 1210 CONTRACT E 23

LOG OF DRILL HOLE Nº D-3

LOCATION: AREA Nº 5 PROPERTY: DUGAN

ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
3		
21	< ½ %	This hole was drilled at an angle of 90° to a depth of 300 ft. The overburden was 3 feet thick. Serpentine was encountered at 3 feet and the hole remained in serpentine to the bottom, a depth of 300 ft.
78	0 %	From 3 ft to 21 feet the serpentine was light to dark green in color. The rock was poorly sheared and mineralized. Short sections were talcose. The short slip fiber would yield less than 0.5 % fiber.
210	½ %	The core from 21 ft. to 78 feet was nearly barren.
300	1 %	The section from 78 feet to 201 feet was a grey colored serpentine. Short sections at 100 ft., 132 ft. and 166 feet were blocky and talcose with very few indications of fiber. The rest of this section shows scattered hairline veins of short slip fiber. 0.5 %
		From 210 ft. to 300 ft. the core is fairly well sheared showing short slip fiber of good quality. 1 %

Logged by L.J.
October 8, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE NO BR-1

LOCATION: AREA NO 5 PROPERTY: RONDEAU
ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
	OVER-BURDEN	This hole was drilled at an angle of 90° to a depth of 300 feet. The overburden was 75 feet thick. The core is rather uniform from 75 feet to the bottom at 300 feet.
75		The rock is a dark grey to black colored serpentine which is not well sheared or mineralized. From 75 ft. to 115 feet there are seams of carbonaceous material, probably calcite. At 207 ft. and 221 feet several seams of cross fiber occur. These are all less than 1/16" in width. A small section of talcose material occurs at 290 feet. There are only a very few scattered hairlike veins of slip fiber in the core.
	1/4 %	
300		The core looks to be barren, but will yield about .2 or .3 % fiber

Logged by L. J.
October 8, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº BR-2

LOCATION: AREA No 5 PROPERTY: RONDEAU
ANGLE OF HOLE: 45° DEPTH 400' SCALE: 1" = 60'

FEET	EST % FIBER
0	OVER-BURDEN
13	< ½ %
45	1½ %
74	½ %
135	1½ %
182	0
214	1 %
242	< ½ %
313	1 %
360	½ %
400	

DESCRIPTION

This hole was drilled at an angle of 45° for a distance of 400 feet or to a vertical depth of 283 ft. The hole passed through 13 ft. of overburden for a depth of 9 feet.

The three sections from 13 ft to 135 ft. were dark green serpentine, well sheared, but not well mineralized. There was about 1% of short slip fiber.

From 135 to 182 ft. the core was dark serpentine with short slip fiber of good quality. Fiber content 1½ %.

The section from 182 to 214 ft was barren serpentine.

The next three sections from 214 to 360 ft. were dark colored serpentine (talcose) showing short slip fiber. The average fiber content was ¾ %

The last section from 360 ft to 400 ft. was nearly barren serpentine with several veins of carbonaceous material. Fiber content might be ½ %

Logged by L. J.
October 11, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº BR-3

LOCATION: AREA Nº 5 PROPERTY: RONDEAU
ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
12	OVER-BURDEN	This hole was drilled at an angle of 90° to a depth of 300 feet. There was twelve feet of overburden. The hole entered serpentine at 29 ft. and remained in the serpentine to the bottom.
29	1%	
	½%	
93		The section from 12 ft. to 29 ft. was a light to dark green colored serpentine. The rock was well sheared and quite talcose, showing scattered seams of short slip fiber with one large seam of slip fiber of good quality and length at 13 feet. About 1%
	1%	
176		From 29 to 93 feet the core was dark grey in color and blocky. There was about ½% of short slip fiber in this section.
	< ½%	From 93 ft to 176 ft. the rock was a dark green serpentine, poorly sheared and mineralized. About 1% of short slip fiber.
300		The section from 176 ft. to 300 ft. was dark green in color. The core was practically barren.

Logged by L.J.
October 7, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RF 1

LOCATION: AREA Nº 5 PROPERTY RAMSELL FARM
ANGLE OF HOLE 45° LENGTH 290' SCALE 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
	OVER-BURDEN	THE HOLE WAS DRILLED 290' AT 45° TO A DEPTH OF 205 FEET. 15 FEET OF OVERBURDEN WERE PASSED THROUGH OR A VERTICAL DEPTH OF 11 FEET. SERPENTINE WAS THEN ENCOUNTERED AND THE HOLE REMAINED IN SERPENTINE TO THE BOTTOM. THE SERPENTINE IS A RELATIVELY SOUND ROCK OF LIGHT GREEN MOTTLED COLOR.
	0.5 %	THE HOLE WAS DRILLED UNDER A ROAD CUT SHOWING A FAIR PERCENTAGE OF SHORT SLIP FIBER. FIBER IS FOUND IN VERY WIDELY SEPERATED FINE SEAMS THRU OUT THE HOLE. BOTH CROSS FIBER, ALL UNDER 1/16", AND SLIP FIBER ARE PRESENT. THE SLIP FIBER IS VERY SHORT, PROBABLY NOT OVER GROUP III IN LENGTH. THE TOTAL FIBER CONTENT WOULD BE LESS THAN 0.5 % AND NO SINGLE 3 FT. SECTION WOULD RUN OVER 1½ %
290'		

LOGGED BY J.G.
JUNE 6, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RF 2

LOCATION: AREA Nº 5 PROPERTY: RAMSDELL
ANGLE OF HOLE: 45° DEPTH: 300' SCALE 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
24		This hole was drilled at an angle of 45° to a distance of 300 feet. Overburden was 24 feet deep. Serpentine begins at 24 feet and continues to 300 feet. From 24 to 41 feet serpentine is talcose, and there is no fiber down to 100 feet. From 135 to 190 calcite veins appear, and there is no fiber in this section. From 190 to 300 feet scattered short slip fiber occurs, but there is no 10 foot section with over 1% fiber. At 285' one $\frac{1}{16}$ of an inch cross fiber seam occurs.
	0.5-1%	There is no indication of spinning fiber. The hole was drilled to a vertical depth of 212 feet.
300		

LOGGED BY L.J.
JULY 8, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº EH 1

LOCATION: AREA Nº 5 PROPERTY: DESCHENEAUX
ANGLE OF HOLE: 90° DEPTH: 290' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
19		Over-burden
	0.5-1%	
290		

The hole was drilled to a depth of 290 feet at an angle of 90°. Overburden was 19 feet and serpentine appeared at 19 feet.

The serpentine from 19 to 274 feet is generally gray. It contains veins of calcite $\frac{1}{16}$ to $\frac{1}{2}$ inch in width and veins of talc up to 2 inches in width. From 62 to 116 feet numerous veins of carbonaceous material occur.

The serpentine from 19 to 290 feet is generally poorly sheared and often blocky. Fiber is less than 1% throughout and is mostly very short slip fiber.

There is no indication of spinning fiber.

LOGGED BY L. J + F.T.
JULY 7, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº EH 2

LOCATION: AREA Nº 5 PROPERTY: DESCHENEAUX

ANGLE OF HOLE: 45º DEPTH: 399' SCALE: 1" = 50'

FEET	EST. % FIBER
0	
15	overburden
	0.5-1%
55	
	0-0.5%
170	
	0-0.5%
272	
	2%
340	
	1%
399	

DESCRIPTION

The hole was drilled to a depth of 399 feet. There was 15 feet of overburden.

From 15 to 40 feet the serpentine is slightly mineralized but becomes blocky from 40 to 55 feet. The section from 170 to 272 feet is also blocky. From 55 to 170 feet the serpentine is poorly fractured and poorly mineralized. From 272 to 399 feet normal shearing appears. Cross fiber veins, ranging in width from $\frac{1}{16}$ to $\frac{1}{4}$ inch appear at 286, 289, 305, 308, 309, and 339 feet.

Where fiber appears, it is short slip fiber. Veins of carbonates appear throughout the core. Fiber content less than 1%.

Logged by L. J.
August 8, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº EH 3

LOCATION: AREA Nº 5 PROPERTY: DESCHENEAUX
ANGLE OF HOLE: 45° DEPTH: 401' SCALE: 1" = 100'

FEET	EST. % FIBER	DESCRIPTION
0		
18		The hole was drilled to a depth of 401 feet. Overburden was 18 feet.
	1%	Serpentine appeared from 18 to 401 feet. It was generally poorly sheared and poorly mineralized, except for two sections from 112 to 280 and from 325 to 377 feet.
112		
	1.5%	These latter sections were well sheared and slightly mineralized. Where fiber appears, it is very short to short slip fiber. Several veins of carbonates appear throughout.
280		
	1%	
325		The section from 377 to 401 feet is generally barren, and schist appears from 386 to 395 feet.
	0.5%	
377		
	0-0.5%	Fiber content 1% or less. Below ore grade.

Logged by L.J.
August 8, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº EH 4

LOCATION: AREA Nº 5 PROPERTY: DESCHENEAUX
ANGLE OF HOLE: 90° DEPTH: 298' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
11		This hole was drilled to a vertical depth of 298 feet. Overburden was 11 feet.
	1-1.5%	The sections of serpentine from 11 to 70 feet and from 160 to 298 feet were highly sheared and slightly mineralized. Very short slip fiber appeared in these sections. From 70 to 147 feet the serpentine is poorly sheared, and numerous calcite veins occur.
70		
147		25 veins of cross fiber up to ¼ inch in width appear from 147 to 160 feet.
160	3%	Fiber content 1 to 1.5%. Below ore grade.
	1%	
298		

Logged by L. J.
August 7, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº E.H-5

LOCATION: AREA Nº 5 PROPERTY: DESCHENEAUX
ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0 / 8		This hole was drilled at an angle of 90° to a depth of 300 feet. Serpentine appeared at 8 feet and the hole remained in serpentine to the bottom — a depth of 300 feet. The overburden was 8 feet thick.
	½ %	From 8 to 58 feet the serp. is dark green and well sheared. Calcite veins are common. Very short slip fiber occurs in hair-like seams, also a few seams of longer slip fiber — these are of poor quality. 0.5 %
58		
	0 %	From 58 ft. to 97 feet the serpentine is schistose with no indication of any fiber.
97		
	½ %	From 97 to 134 ft. the core is blocky — short slip fiber 0.5 %
134 / 141	0 %	From 134 to 141 ft. the serpentine was barren.
	½ %	From 141 to 255 feet the core shows short slip fiber associated with carbonaceous material. 0.5 %
255		
300	SCHIST	From 255 ft. to 300 feet the rock is a grey colored schist.

Logged by L. J.
September 8, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº BL 1

LOCATION: AREA Nº 3 PROPERTY: BLISS
ANGLE OF HOLE: 90° DEPTH: 297' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		This hole was drilled to a vertical depth of 297 feet at an angle of 90°. Overburden was 12 feet thick.
12		The hole entered serpentine at 12 ft. and remained in this type of rock to the bottom. The serpentine was dark green with streaks of light green. There were veins of calcite thruout the core.
	< ½ %	Fiber occurs in fine seams scattered thruout the entire hole, some of the seams are slip fiber and others are cross fiber, all of which are less than 1/16" wide. The fiber content will be less than 0.5 %.
297		

LOGGED BY, J.G.
DECEMBER 19, 1951

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº BL 2

LOCATION: AREA Nº 3 PROPERTY: BLISS
ANGLE OF HOLE: 90° DEPTH: 305' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		This hole was drilled to a vertical depth of 305 ft. at an angle of 90°. The overburden was 12 ft. thick. The hole entered serpentine at 12 feet and remained in it to the bottom of the hole.
12	½%	The first section from 12 ft. to 100 ft. contains both slip and cross fiber. The ratio is about 25% slip fiber to 75% cross fiber. The seams of cross fiber are 1/16" in width and less. The slip is very short. This section will average about 0.5% fiber.
100	<½%	The next and last section from 100 ft. to 305 ft. also contains both types of fiber, but unlike the above section, it is mostly slip fiber which is very short. This section will yield about 0.1% fiber. This hole is definitely below ore grade.
305		

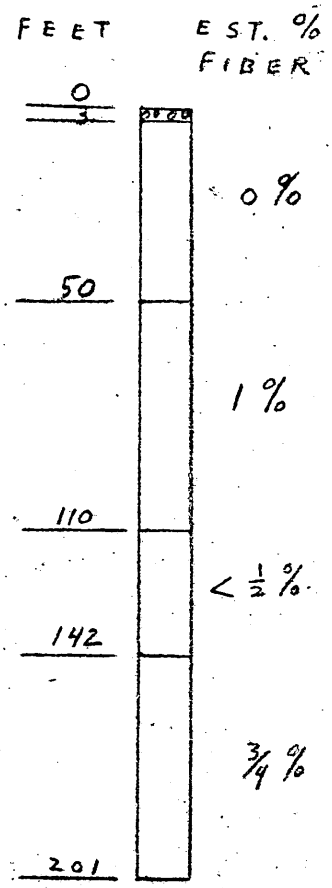
LOGGED BY J.G.
JANUARY 8, 1951

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº B1

LOCATION: AREA Nº 1 PROPERTY LA PLUME

ANGLE OF HOLE 45° LENGTH 201' SCALE 1" = 50'



DESCRIPTION

This hole was drilled at an angle of 45° for a distance of 201 ft, or a vertical depth of 142 feet. Overburden was 3 feet thick.

In general from 3 ft. to 50 ft. the rock was a poorly fractured serpentine with no fiber seams. There were a few small calcite veins in the section.

The next section down to 110 ft. was a grey colored serpentine, well sheared with some mineralization. The fiberization consists of very short slip fiber in hair-like seams.

From 110 ft. to 142 ft. the serpentine was well fractured, but poorly mineralized. The slip fiber in this section was short and talcose.

The last section from 142 ft. to 201 ft. was a dark grey colored serpentine. The rock was poorly sheared and mineralized. The slip fiber was short and of poor quality.

The final evaluation of this hole is definitely below ore grade.

LOGGED BY, E. J.
DECEMBER 29, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº B2

LOCATION: AREA Nº 1 PROPERTY LA PLUME

ANGLE OF HOLE 45° LENGTH 223' SCALE 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
	OVER-BURDEN	This hole was drilled at an angle of 45° for 223 feet or a vertical depth of 158 feet. Overburden was 16 feet thick.
23		
	2.5 %	The first section of core from 23 ft. to 136 ft was extremely well fractured serpentine showing veinlets of very short slip fiber distributed through out the rock. 2.5%
136		The next section down to 179 ft. was unfractured serpentine with very little short slip fiber. 0.5 %
	0.5 %	From 179 ft to 193 ft. the rock was light green serpentine with about 1 % slip fiber.
179		
193	1 %	From 193 to 205 feet the serpentine was nearly barren, showing a few calcite veins, 0.5%
205	0.5 %	
223'	¾ %	The last section of core was serpentine with scattered seams of slip fiber. ¾ %

The recoverable fiber content is about 1 to 1½ %. The hole is below ore grade.

LOGGED BY, J. K. G.

JUNE 14, 1951

1.66 % FIBER RECOVERED } CORE MILL RESULTS

$ 0.84 VALUE PER TON ORE

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº B3

LOCATION: AREA Nº 1 PROPERTY LA PLUME
ANGLE OF HOLE 45° LENGTH 222' SCALE 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		This hole was drilled at an angle of 45° for 222 feet or a vertical depth of 157 feet. Overburden was 3 feet thick.
3	1.8 %	The first section of core from 3 ft. down to a depth of 88 feet was well sheared serpentine showing some short slip fiber in very fine veinlets with only 2 or 3 seams of fair length fiber.
88	0.5 %	The next and last section was well sheared serpentine. The fiber in this section was also short - fairly slip fiber. This hole will average about 1%. Definitely below ore grade.
222'		

LOGGED BY, J. K. G.
JUNE 20, 1951

1.12 % FIBER RECOVERED
$ 0.74 VALUE PER TON ORE
} CORE MILL RESULTS

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº B4

LOCATION: AREA Nº 1 PROPERTY LA PLUME
ANGLE OF HOLE 90° LENGTH 192' SCALE 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		This hole was drilled at an angle of 90° to a vertical depth of 192 ft. Overburden was 34 ft. thick.
34	OVER-BURDEN	The first section down to 121 feet was serpentine with scattered seams of short slip fiber with a few seams of fiber of Gp. IV length. Some of the veins do not look fibrous, but can be opened into a very fine white colored slip fiber.
121	3/4 %	The last section of core from 121 ft. to the bottom at 192 ft., was similar to the above section, but contains less fiber.
192	1/2 %	The core mill will recover about 2% due to small traces of fiber thru out the core.

LOGGED BY, J.K.G. + W.M.
SEPTEMBER 15, 1951

1.48 % FIBER RECOVERED } CORE MILL RESULTS
$ 0.83 VALUE PER TON ORE

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE № B5

LOCATION: AREA № 1 PROPERTY LA PLUME
ANGLE OF HOLE 45° LENGTH 200' SCALE 1" = 50'

FEET	EST. % FIBER
0	
	0.2 %
200	

DESCRIPTION

This hole was drilled at an angle of 45° for 200 ft. or a vertical depth of 142 feet. No overburden.

The core from this hole was very uniform and was considered as one section. The entire hole was nearly barren serpentine with occasional carbonate veins. The serpentine was unfractured. What fiber there was in the core was very short slip fiber in very fine seams. These seams were widly scattered.

The hole will not average over 0.2 %. Not one grade.

LOGGED BY, J.K.E. + W.M.
AUGUST 13, 1951

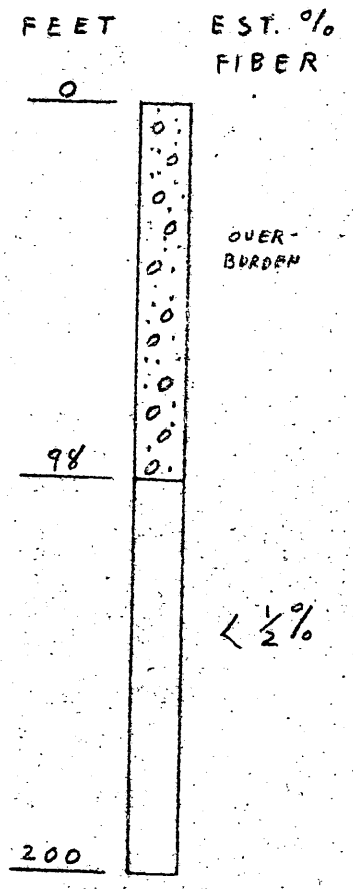
0.44 % FIBER RECOVERED
$0.24 VALUE PER TON ORE
} CORE MILL RESULTS

DMEA 1210 CONTRACT E 23

LOG OF DRILL HOLE Nº R1

LOCATION: AREA Nº 1 PROPERTY: RICHARDSON

ANGLE OF HOLE: 90° DEPTH: 200' SCALE: 1" = 50'



DESCRIPTION

The hole was drilled at a 90° angle to a vertical depth of 200 ft. Overburden was 98 feet thick.

The entire core was serpentine which was not highly sheared. There was only an occasional seam of short slip fiber, with one fair length seam at 99 feet. The fiber content will not run over 0.2 %

LOGGED BY, J.G.
AUGUST 15, 1951

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE № P1

LOCATION: AREA № 1 PROPERTY: POPE
ANGLE OF HOLE: 90° DEPTH: 207' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		The hole was drilled at an angle of 90° to a vertical depth of 207 feet. The overburden was 94 ft. thick.
	OVER-BURDEN	
94		The hole entered serpentine at 94 feet and remained in this type of rock to the bottom of the hole.
	0 %	The first section down to 132 ft was barren serpentine.
132		
146	½ %	The second section from 132 ft to 146 ft. has some very short slip fiber - perhaps 0.5 %.
	0 %	The following section from 146 ft to 171 ft. was barren.
171		
	½ %	The last section has a few scattered thin seams of short slip fiber. 0.5 %
207		A very poor hole with an estimated yield of 0.3 % fiber.

LOGGED BY W.M. & J.G.
AUGUST 15, 1951

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RB 1

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM
ANGLE OF HOLE 45° LENGTH 306' SCALE 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
18'		
	½%	This hole was in serpentine well sheared for most of its inclined length of 288'. There were 18' of over burden. This shearing was visible as paper-thin fiber seams scattered thruout the core, locally in concentrations. Calcite veinlets occur here and there in association with light green serpentine. The fiberization is very lean and consists of extremely short slip fiber in the hair-like seams. with about ½% recoverable and only one richer zone of normal slip fiber (226'–234') running perhaps 2%. No spinning fiber is present and the final evaluation of the hole is definitely below ore grade.
306		

Logged By JKE & WM.
DATE April 22, 52

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RB 2

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM
ANGLE OF HOLE 45° LENGTH 298' SCALE 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
	Over-burden	This angle hole passed thru 35' of overburden and stayed in schist to 143'. These schistose rocks vary in composition from sericitic to graphitic and contain many quartz lenses and stringers. The contact zone with the serpentine (143 - 156') is highly talcose. The serpentine, from 156' to the bottom of the hole at 298', is locally well sheared and shows paper-thin seams with short slip fiber. Else where there is blocky fracturing and widely scattered thin fiber seams. AT two points (205½ - 206 and 218 - 220') excellent spinning fiber occurs intimately mixed with calcite, but from 156' to 298' the estimated fiber content is 0.5% and definately not ore.
35'		
	Schist	
143		
156	Talcose	
	0.5%	
298		

Located By. J.G + W.M
DATE 7 MAY 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RB 3

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM
ANGLE OF HOLE 45° LENGTH 299' SCALE 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
6	OVER-BURDEN	THIS ANGLE HOLE PASSED THROUGH SIX FEET OF OVERBURDEN AND REMAINED IN SERPENTINE TO THE BOTTOM OF THE HOLE – A DISTANCE OF 299 FT. THE SERPENTINE IS WELL SHEARED AND SHOWS THIN SEAMS OF VERY SHORT SLIP FIBER. THERE WAS NO INDICATION OF CROSS OR SPINNING FIBER. THE SERPENTINE IS TALCOSE IN A FEW SCATTERED SECTIONS. THERE IS ONE SHORT SECTION AT 173 FT. WHICH SHOWS LONG SLIP FIBER, BUT THIS FIBER IS BRITTLE. THE FIBER CONTENT OF THIS HOLE IS ESTIMATED AT LESS THAN 1% AND IS NOT CONSIDERED ORE GRADE.
	1%	
299		

LOGGED BY L.J.
DATE MAY 31, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RB 4

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM
ANGLE OF HOLE 90° LENGTH 301' SCALE 1" = 50'

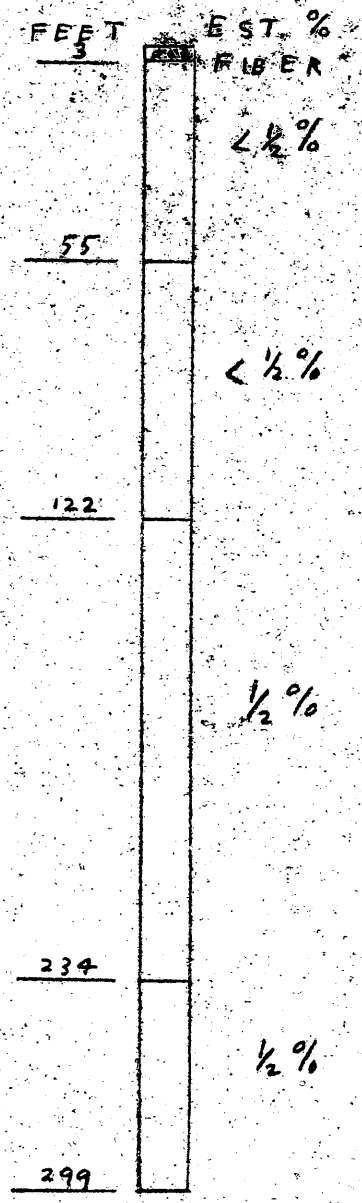
FEET	EST. % FIBER	DESCRIPTION
0		This hole was drilled at an angle of 90° for 301 feet. It passed through 12 feet of overburden. The serpentine is grey with scattered streaks of light yellow-green serpentine. The section of serpentine from 12 ft. to 301 ft. is well sheared, but poorly mineralized. The only mineralization, other than fiber, is small scattered seams of calcite. The only fiber observed in the core was short slip fiber which was very talcose. ½% fiber. The hole is evaluated as definately below ore grade.
12	½%	
301		

LOGGED BY, L. J.
DECEMBER 4, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RB5

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM
ANGLE OF HOLE 90° LENGTH 299' SCALE 1" = 50'



DESCRIPTION

This hole was drilled to a depth of 299 ft. at an angle of 90°. The hole passed thru 3 ft. of overburden where serpentine appeared. The hole remained in serpentine to the bottom at a depth of 299 feet.

The core from 3 to 55 feet was a grey colored serpentine, poorly sheared and mineralized. There was some short slip fiber of poor quality. < ½ %

The section from 55 to 122 ft. also showed poorly mineralized serpentine. The slip fiber was talcose. < ½ %

The next section from 122 to 234 feet was a light to dark green serpentine. The fiber was predominantly short slip fiber. One vein of cross fiber occured at 185 feet. ½%

The last section from 234 to 299 ft. was dark green serpentine with some short slip fiber of poor quality. ½ %

LOGGED BY L. J.
NOV. 6, 1952

The RUBEROID Co.
Vermont Asbestos Mi[illegible]s Div.,
Hyde Park, Vermont

May 21, 1951

U.S. Department of the Interior,
Defense Minerals Administration,
Washington, D.C.

Application for Aid for an Exploration Project Pursuant to Mineral Order 5, Under Defense Production Act of 1950

Gentlemen:

On May 18, 1951, we filed an application for aid for exploration as outlined above on Form MF-103. We are hereby filing an amendment to Form MF-103 as an answer to question 23, section "I" as follows:

a - attached are photostatic copies of options or deed on the property described as follows and totaling approximately 1,820 acres.

(1.) Brown Ledges Area-Town of Lowell

H. S. Richardson Farm - approx. 280 acres - Lots 18, Range 12, Lots 18-19, Range 11
F.M. Racioot Farm - approx. 180 acres - Lots 21, Range 9 & 10
H. Rabion Farm - approx. 160 acres - Lot 20, Range 9 and 10
Ira Pope Farm - approx. 50 acres - Lot 17, Range 9
Laplume Farm - 1/2 mineral interest - 200 acres - Lots 3 & 4, Town of Westfield

(2.) Leland Hill Area - Town of Lowell

H. A. Parker - 50 acres - Lot 12, Range 9
Quentin L. Elliott - 370 acres, Lots 10 & 11 Range 9; Lots 8, 9 & 10, Range 8
H. Taylor - 50 acres - Lot 10 - Range 8

(3.) Carter Farm - Bliss Farm Area - Town of Lowell
1/4 interest - Mineral Rights - Lots 18 & 19, Range 7 approx. 200 acres.
Bliss Farm - Lots 15, 16 & 17, Range 7, approx. 250 acres.

(4.) From Town of Eden to Long Pond Area general surface exploration on area of approx. 500 acres. This will be reconnaissance work and no property will be optioned unless this shows promise.

(5.) There may be other areas which will be revealed as magnetometer and survey work progresses, such as Eden Notch South School Area, however, the areas are not included in present application, and the funds are to apply only to areas now under option.

b - the major portion of the proposed exploration is planned for the area which we hold options or have actual deed.

c - the cost estimates shown in Forms 100 and 103 are based on areas to be explored on which we now hold options or deed.

d - we will not have complete information on Areas 4 and 5 as shown on the map until further geological reconnaissance is carried out. At this time these areas do not appear to be of sufficient promise.

Yours very truly,

The RUBEROID CO.

W. G. Cowan

W.G. Cowan
Vice President

NARRATIVE REPORT
DMRA 1230 CONTRACT #23
MONTH OF NOVEMBER, 1952

One drill was operated by a contractor on this project 3 shifts per day, completing the drilling program by the middle of the month. Two hole RB-4 and RB-6 were completed. Neither hole showed any appreciable amount of fibre. Hole RB-6 passed from serpentine to sericite schist at 123'. The contact had been indicated some 200' to the east by dip needle traverses, although the readings were very erratic, making a clear interpretation difficult. It seems likely that a small finger of serpentine exists east of the schist encountered in the drill hole.

No field parties were engaged on the project during the month.

Work has now been completed on this project and a final report will be submitted later this month.

Logs of the drill holes and Progress Map 8 showing their locations are attached.

DIAMOND DRILL FOOTAGE
DMRA 1230 CONTRACT #23
MONTH OF NOVEMBER, 1952

Hole No.	From Ft.	To Ft.	Feet Drilled This Month	Unit Price	Total Cost
RB4	179	301	122	$3.25	
RB6	0	244	244	$3.25	
	Total		366	$3.25	$1,189.50

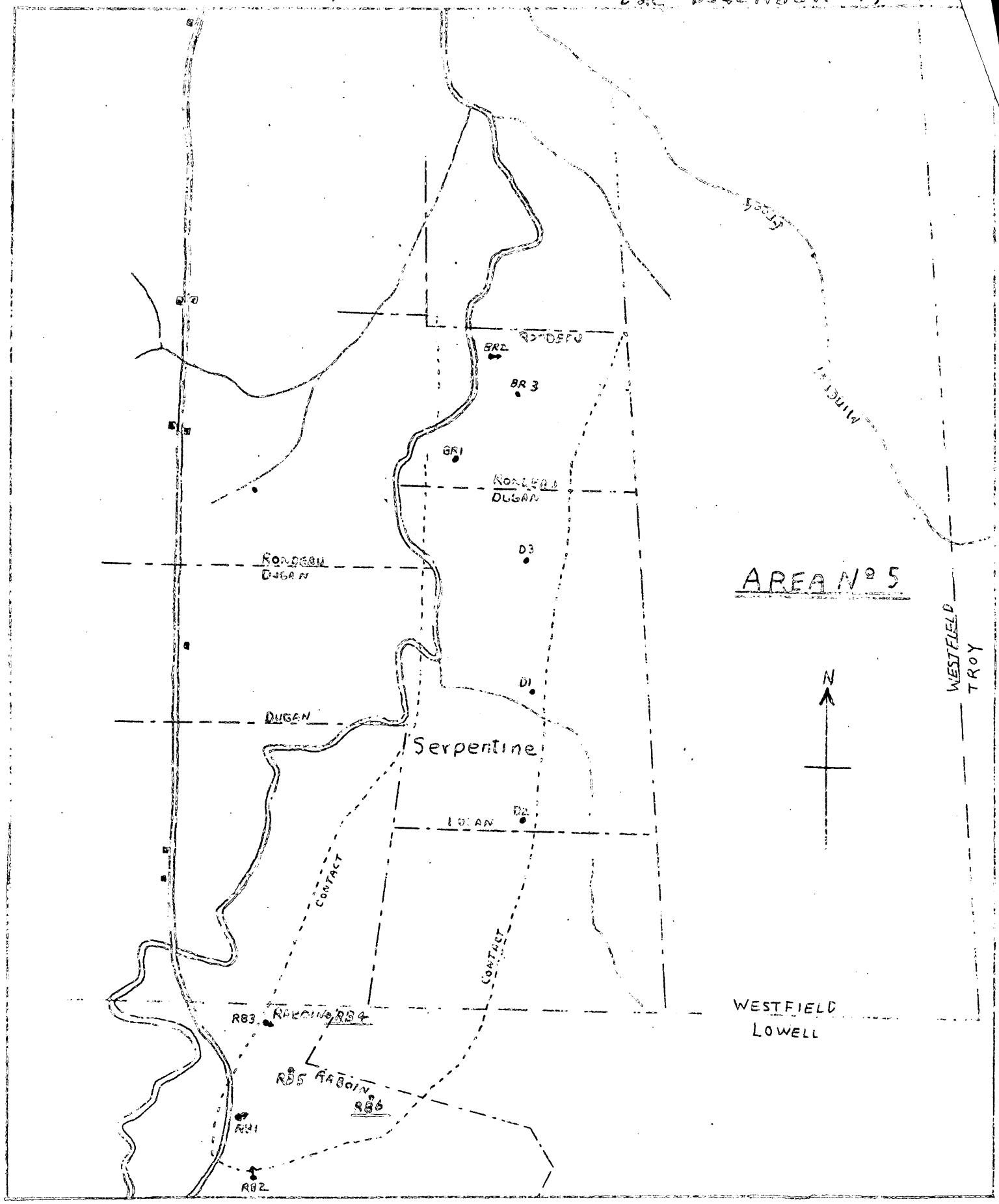
Total Feet This Month	366
Total Previously Drilled	10985
Total for Project	11371

DMEA 1210 CONTRACT F23

DIAMOND DRILLING PROGRESS MAP 3

Scale 1" - 1320'

Date DECEMBER 11, 1956



DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RB 4

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM

ANGLE OF HOLE 90° LENGTH 301' SCALE 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		This hole was drilled at an angle of 90° for 301 feet. It passed through 12 feet of over burden. The serpentine is grey with scattered streaks of light yellow-green serpentine. The section of serpentine from 12 ft. to 301 ft. is well sheared, but poorly mineralized. The only mineralization, other than fiber, is small scattered seams of calcite. The only fiber observed in the core was short slip fiber which was very talcose. ½% fiber. The hole is evaluated as definately below ore grade.
12		
	½%	
301		

LOGGED BY, L. J.

DECEMBER 4, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RB 6

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM
ANGLE OF HOLE 90° LENGTH 244' SCALE 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
28		This hole was drilled to a depth of 244 feet at an angle of 90°. The hole passed through 28 feet of overburden before entering serpentine.
	½%	The serpentine is light grey in color. The core shows the rock to be well sheared, but poorly mineralized. The serpentine contains short slip fiber which is talcose. There is no indication of cross fiber. The fiber content is about ½%
123		The section from 123 ft. to 244 feet is sericite schist. The hole is definitely not ore.
244		

LOGGED BY L. J.
DECEMBER 4, 1952

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

Budget Bureau No. 42-R1026.3
Approval expires 6-30-53

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Defense Minerals Administration
RECEIVED
DEC 31 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of [redacted], 1952 Docket No. DMEA [redacted] Contract No. [redacted]
Operator's Name [redacted] Minerals [redacted]
Address [redacted]
Contract Amount, $ [redacted] Government Participation: [redacted] % Amount, $ 64,440.00

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

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

Date [redacted] *Payee [redacted]

Per [redacted] Title [redacted]

*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:

$ 1530.31

Signature [redacted]
(Authorized Certifying Officer)

Date 12/30/52 Vou. No. DMEA-18

(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. E-23 in accordance with the terms of the contract.

Signature H. L. Summerlin Title Min. Eng. Date 12/12/52

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. O. Miller Title Adm. Exec. Officer Date 12/12/52

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

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 31 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November, 1952 Docket No. DMEA 1210 Contract No. 23
Operator's Name The Ruberoid Co., Vermont Asbestos Mines Div.
Minerals Asbestos
Address Lake Mark, Vermont

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	Ft.	1700.34	366	40,628.01	11271	3.379	17000	5.967
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1700.34		40,628.01				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1700.34		40,628.01				71,600.00

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 12-4-52 Operator The Ruberoid Co., Vermont Asbestos Mines Div.

Per [signature] Title Resid Supt

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

BUREAU OF MINES
PITTSBURGH, PA.
DEC 17 1952
RECEIVED

COPY

December 10, 1952

BUREAU OF MINES
PITTSBURGH, PA.
DEC 17 1952
RECEIVED

Mr. L. T. Millar, Acting Executive Officer,
U. S. Dept. of Interior,
Defense Minerals Exploration Administration,
Region VIII
College Park, Maryland

Contract IDM-E23 - Docket 1210 - Nov. Report

Dear Mr. Millar:

Attached please find report for the month of November, 1952, which includes a cost of $1700.34.

Work on this contract has now been suspended and the final report on the whole area is being prepared. There was nothing of any encouragement uncovered by this extensive program.

This contract was for $71,600 and a total of $60,628 has been spent to date.

Yours very truly,

The RUBEROID Co.

Michael J. Messel
General Superintendent

MJM:vv

cc: Mr. T. H. Dermody
Mr. C. T. Minerick

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Budget Bureau No. 42-R1036.3
Approval Expires 6-30-53
Defense Minerals Administration
RECEIVED
FEB 26 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of [redacted], 195[redacted] Docket No. DMEA [redacted] Contract No. [redacted]
Operator's Name [redacted] Minerals [redacted]
Address [redacted]
Contract Amount, $ [redacted] Government Participation: [redacted] % Amount, $ [redacted]

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 [redacted] Contracts:						
Drilling	[redacted]	[redacted]	[redacted]			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	[redacted]	[redacted]	[redacted]			
Supervision	[redacted]	[redacted]	[redacted]			
Technical Services	[redacted]	[redacted]	[redacted]			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
[redacted]	[redacted]	[redacted]	[redacted]			
[redacted]	[redacted]	[redacted]	[redacted]			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes	[redacted]	[redacted]	[redacted]			
Liability Insurance	[redacted]	[redacted]	[redacted]			
[redacted]	[redacted]	[redacted]	[redacted]			
(8) Contingencies (specify):						
TOTALS	[redacted]	[redacted]	[redacted]			

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

Date [redacted] *Payee [redacted]

Per [redacted] Title [redacted]

*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:

$ 1,177.52

Signature F. R. Kantner, Adm. Asst.
(Authorized Certifying Officer)

Date 2/24/53 Vou. No. DMEA-27
(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. DMA-E23 in accordance with the terms of the contract.

Signature N. A. Eilertsen Title Mining Engineer Date Jan. 29 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. G. Miller Title Acting Exec. Officer Date Jan. 29, 1953

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.

GPO 83-38476

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 23 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1952 Docket No. DMEA 2030 Contract No. 23
Operator's Name The Ruberoid Co., Vermont Asbestos Mines, Div.
Address Hyde Park, Vermont Minerals Asbestos

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								
Winzes								
Drilling: Core Contract	Ft.	1308.35	—	62,936.36	11272	5.455	12000	5.967
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		1308.35		62,936.36				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		1308.35		62,936.36				71,600.00

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 1-26-53 Operator The Ruberoid Co., Vermont Asbestos Mines, Div.

Per [signature] Title Prod Supt

Remarks: There was no property jointly owned by the Gov't. and Ruberoid for disposition at completion of contract.

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.

GPO 83-38475

C
O
P
Y

The RUBEROID Co.
Hyde Park, Vt.

November 12, 1952

Mr. McHenry Mosier, Executive Officer
U. S. Department of Interior
Defense Minerals Exploration Administration
Region VIII
College Park, Maryland

Contract IDM E23 Docket 1210 - October Report

Dear Mr. Mosier:

Attached please find report for the month of October, which includes cost of $1,850.34.

Also attached are the maps and technical report which shows nothing of interest so far. We plan to drill one more hole under this contract, and then consider closing it out as this will complete work on this project.

Very truly yours,

The RUBEROID Co.

/s/ I. M. Potter
I. M. Potter
Asst. General Superintendent

IMP:vv

cc: Mr. T. H. Dermody
Mr. W. J. Van Akin

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
NOV 12 1952

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

Month of October 1952 Docket No. DMEA 1210 Contract No. 23
Operator's Name The Eureka Co., Vermont Asbestos Mines Div. Minerals Asbestos
Address Hyde Park, Vermont
Contract Amount, $ 71,600.00 Government Participation: 90 % Amount, $ 64,440.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts:						
Drilling	2137.50	35,397.26	36,534.76			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	—	4,800.89	4,800.89			
Supervision	300.00	4,317.97	4,617.97			
Technical Services	209.32	11,261.81	11,470.13			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Core Boxes	187.50	455.75	643.25			
Other	—	82.60	82.60			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes	13.22	339.76	352.98			
Liability Insurance	3.80	93.99	97.79			
Field Supervision	—	327.30	327.30			
(8) Contingencies (specify):						
TOTALS	2850.34	57,077.33	59,927.67			

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

Date 11-12-52 *Payee The Eureka Co. Vermont Asbestos Mines, Div.

Per J. M. Cotter Title Asst Gen Supt

*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:

$ 1665.31

Signature _____
(Authorized Certifying Officer)

Date 11/26/52 Vou. No. DMEA-16

(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. DMA E-23 in accordance with the terms of the contract.

Signature [illegible] Title Mining Engr. Date Nov 18 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. F. Miller Title Acting Exec. Officer Date Nov. 19, 1952

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
Phila.
NOV 2 - 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1952 Docket No. DMEA 1210 Contract No. 23
Operator's Name The Ruberoid Co., Vermont Asbestos Mines, Div. Minerals Asbestos
Address Hyde Park, Vermont

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								
Winzes								
Drilling: Core Contract	ft.	1350.34	350'	58,927.67	10905	5.404	12000	5.967
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1350.34		58,927.67				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1350.34		58,927.67				71,600.00

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 11-1-52 Operator The Ruberoid Co. Vermont Asbestos Mines Div.

Per J. M. Cotter Title Asst Gen Supt.

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

DMRA 1210 CONTRACT KR3
NARRATIVE REPORT
MONTH OF OCT. 1952

One Diamond Drill was operated by a contractor on this project during the month. Hole RB-5 was completed and RB-4 drilled to a depth of 179', Progress Map 8.

RB-5 showed very little fibre and very little has been noted in RB-4 to date.

After completing RB-5 one more hole, RB-6, is planned. This will complete work on this project. A final report will be submitted next month.

A tabulation of the drilling completed, together with logs and progress maps follows this report.

No field parties were engaged on this project during the month.

DIAMOND DRILL FOOTAGE - DMRA 1210 CONTRACT R 83 - MONTH OF OCTOBER, 1952

HOLE NO.	FROM FT.	TO FT.	FEET DRILLED THIS MONTH	UNIT PRICE	TOTAL COST
Contract drilled holes:					
RB-5	128'	299'	171'	$3.25	
RB-4	0	179'	179'	3.25	
		Total	350'	3.25	$1,137.50

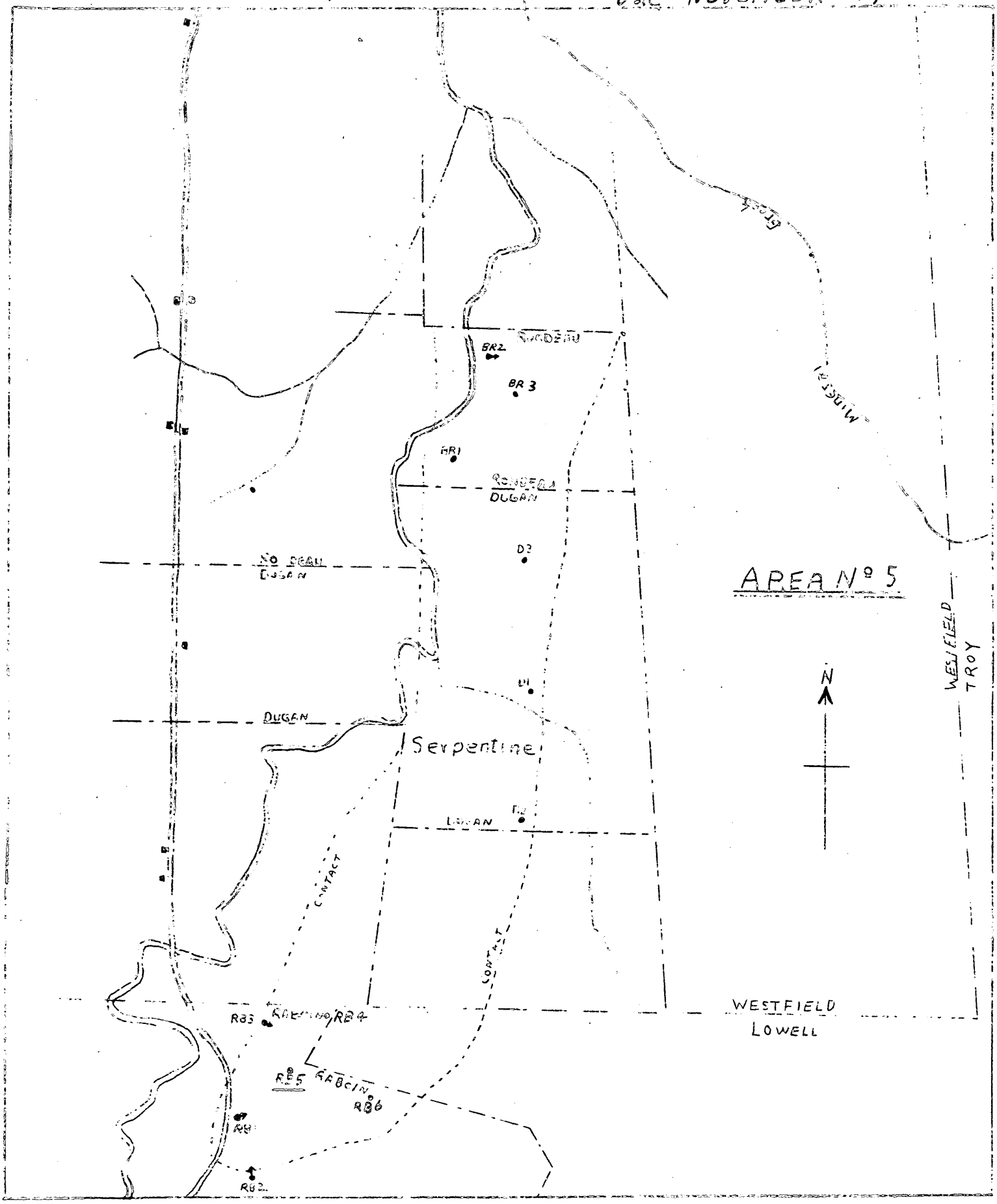
Total Feet This Month	350
Total Previously Drilled	10,555
Total To Date	10,905

DMEA 1210 CONTRACT 623

DIAMOND DRILLING PROGRESS MAP 8

Scale 1" - 1320'

Date NOVEMBER 11, 1976



DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RB 5

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM
ANGLE OF HOLE 90° LENGTH 299' SCALE 1" = 50'

FEET	EST. % FIBER
3	
	< ½ %
55	
	< ½ %
122	
	½ %
234	
	½ %
299	

DESCRIPTION

This hole was drilled to a depth of 299 ft. at an angle of 90°. The hole passed thru 3 ft. of overburden where serpentine appeared. The hole remained in serpentine to the bottom at a depth of 299 feet.

The core from 3 to 55 feet was a grey colored serpentine, poorly sheared and mineralized. There was some short slip fiber of poor quality. < ½ %

The section from 55 to 122 ft. also showed poorly mineralized serpentine. The slip fiber was talcose. < ½ %

The next section from 122 to 234 feet was a light to dark green serpentine. The fiber was predominantly short slip fiber. One vein of cross fiber occured at 166 feet. ½ %

The last section from 234 to 299 ft. was dark green serpentine with some short slip fiber of poor quality. ½ %

LOGGED BY L. J.
NOV. 6, 1952

C
O
P
Y

THE RUBEROID CO.
Hyde Park, Vermont

October 16, 1952

Mr. McHenry Mosier, Executive Officer,
U. S. Dept. of Interior,
Defense Minerals Exploration Administration,
Region VIII,
College Park, Md.

Contract IDM-E23 Docket 1210 - Sept. Report

Dear Mr. Mosier:

Attached please find, report for the month of September, which includes cost of $5,158.09.

Also attached are the maps and technical report which shows nothing of interest so far. We plan to drill about 4 more holes under this contract and then consider closing it out if nothing of interest is encountered.

Very truly yours,

The RUBEROID Co.

/s/ Michael J. Messel
Michael J. Messel
General Superintendent

MJM:vv

cc: Mr. T. H. Dermody
Mr. W. J. Van Akin

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

Budget Bureau No. 42-R1036.3.
Approval expires 12-31-53

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 23 1952

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

Month of [illegible], 1952 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]
Contract Amount, $ [illegible] Government Participation: [illegible] % Amount, $ [illegible]

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent [redacted] Contracts:						
Drilling	[illegible]	[illegible]	[illegible]			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	[illegible]	[illegible]	[illegible]			
Supervision	[illegible]	[illegible]	[illegible]			
Technical Services	[illegible]	[illegible]	[illegible]			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
[illegible]	[illegible]	[illegible]	[illegible]			
Other	[illegible]	[illegible]	[illegible]			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	[illegible]	[illegible]	[illegible]			
Payroll Taxes	[illegible]	[illegible]	[illegible]			
Liability Insurance	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]			
(8) Contingencies (specify):						
Totals	[illegible]	[illegible]	[illegible]	5,158.09	51,919.24	57,077.33

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

Date [illegible] *Payee [illegible]

Per [illegible] Title [illegible]

*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:

$ 4,642.28 [illegible]

Signature _____
~~(Authorized Certifying Officer)~~

Date 10/23/52 Vou. No. DMEA-11

(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. E-23 in accordance with the terms of the contract.

Signature [illegible] Title Mining Engineer Date 10/20/52

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Acting Executive Officer Date 10/20/52

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 28 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of [illegible] 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]

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 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		[illegible]		[illegible]				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
		[illegible]		[illegible]				[illegible]
TOTAL COSTS								

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.

[illegible]

Date [illegible] Operator [illegible]

Per [illegible] Title [illegible]

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

NARRATIVE REPORT - DMEA 1210 - CONTRACT E23
MONTH OF SEPTEMBER, 1952

During the month two Diamond Drills were operated by a Contractor. The drills operated two shifts per day. Four holes were completed and a fifth drilled to 128'. The total footage for the month was 1108'. A tabulation of the holes, with the respective footage follows this report.

At the end of the month one of the drills was taken from this project and assigned to another. It is felt that one drill can complete the work scheduled.

All of the drill holes completed, D3, BR1, BR2 and BR3, Progress Map 8, were located on the Dugan-Rondeau property. Holes D3 and BR1 were drilled in ground in which there were not many surface exposures. Both holes showed small amounts of short slip fibre and in BR1 a little short cross fibre was noted. However the quantity of fibre is so small and the length so short that the rock would not approach ore in value. Holes BR2 and BR3 were drilled below surface exposures showing small amounts of short slip fibre. No increase in quantity or length of fibre was found by the drilling. The rock in these two holes, like other holes on this property, is considerably below ore value. It is felt that the drilling completed together with the surface examination would have shown any ore if it existed in the area.

To test the center of the south end of the serpentine mass, Progress Map 8, three holes have been located, RB-4, RB-5 and RB-6. RB-5 is in progress, and at the end of the month, was drilled to 128'. The hole to date shows nothing of interest.

Core logs and progress maps are attached to this report.

No field parties were engaged on this project during the month.

DIAMOND DRILL FOOTAGE - DMEA 1210 - CONTRACT E23 - MO. OF SEPT. 1952

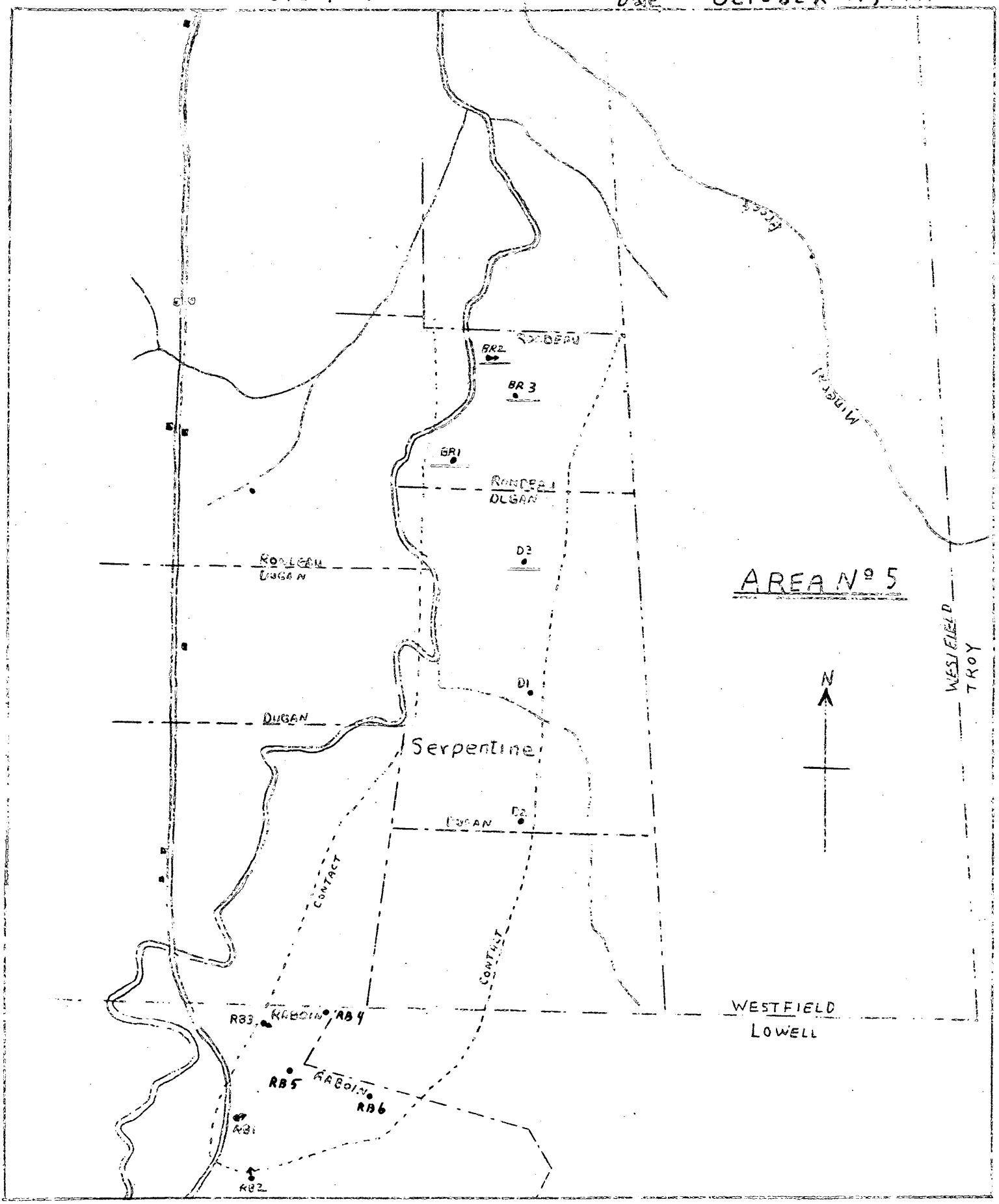
HOLE NO.	FROM FT.	TO FT.	FEET DRILLED THIS MONTH	UNIT PRICE	TOTAL COST
CONTRACT DRILLED HOLES					
D3	202	300	98		
BR-1	118	300	182		
BR-2	0	400	400		
BR-3	0	300	300		
RB-5	0	128	128		
Total Feet this Month - - - - - - - - - - - - - - - -			1108	$3.25	$3601.00
* * Previously Drilled - - - - - - - - - - - -			9447		
* * To Date - - - - - - - - - - - - - - - -			10555		

DMEA 1210 CONTRACT E23

DIAMOND DRILLING PROGRESS MAP 8

Scale 1" - 1320'

Date OCTOBER 11, 1956



DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº D-3

LOCATION: AREA Nº 5 PROPERTY: DUGAN

ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
3		
21	≤ ½ %	This hole was drilled at an angle of 90° to a depth of 300 ft. The overburden was 3 feet thick. Serpentine was encountered at 3 feet and the hole remained in serpentine to the bottom at a depth of 300 ft.
	0 %	
78		From 3 ft to 78 feet the serpentine was light to dark green in color. The rock was mostly sheared and brecciated. Short sections were fibrous. The short fibrous zones were [illegible] 0.5% fibers.
	½ %	
210		The rock from 78 feet to 210 feet was mostly fibrous. The section from 78 feet to 210 feet was a grey colored serpentine. Short sections at 100 ft., 132 ft. and 166 feet were broken and fractured with [illegible]
	1 %	
300		From 210 ft. to 300 ft. the core is fairly well [illegible] showing short sections of [illegible] fibers. 0.5 %

[illegible]

October [illegible], 1964

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº BR-3

LOCATION: AREA Nº 5 PROPERTY: RONDEAU
ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
12	OVER-BURDEN	This hole was drilled at an angle of 90° to a depth of 300 feet. There was twelve feet of overburden. The hole entered serpentine at 29 ft. and remained in the serpentine to the bottom.
29	1%	
	½%	The section from 12 ft. to 29 ft. was a light to dark green colored serpentine. The rock was well sheared and quite talcose, showing scattered seams of short slip fiber with one large seam of slip fiber of good quality and length at 13 feet. About 1%
93		
	1%	From 29 to 93 feet the core was dark grey in color and blocky. There was about ½% of short slip fiber in this section.
176		
	< ½%	From 93 ft to 176 ft. the rock was a dark green serpentine, poorly sheared and mineralized. About 1% of short slip fiber.
300		The section from 176 ft. to 300 ft. was dark green in color. The core was practically barren.

Logged by L.J.
October 7, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº BR-2

LOCATION: AREA Nº 5 PROPERTY: RONDEAU
ANGLE OF HOLE: 45° DEPTH 400' SCALE: 1" = 60'

FEET	EST % FIBER
0	OVER-BURDEN
13	< ½ %
45	1½ %
74	½ %
135	1½ %
182	0
214	1 %
242	< ½ %
313	1 %
360	½ %
400	

DESCRIPTION

This hole was drilled at an angle of 45° for a distance of 400 feet or to a vertical depth of 283 ft. The hole passed through 13 ft. of overburden for a depth of 9 feet.

The three sections from 13 ft to 135 ft. were dark green serpentine, well sheared, but not well mineralized. There was about 1% of short slip fiber.

From 135 to 182 ft. the core was dark serpentine with short slip fiber of good quality. Fiber content 1½%.

The section from 182 to 214 ft was barren serpentine.

The next three sections from 214 to 360 ft. were dark colored serpentine (talcose) showing short slip fiber. The average fiber content was ¾%

The last section from 360 ft to 400 ft. was nearly barren serpentine with several veins of carbonaceous material. Fiber content might be ½%

Logged by, L. J.
October 11, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE No 2 BR-1

LOCATION: PRIANG 5 PROPERTY: RONDEAU

ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
	OVER-BURDEN	This hole was drilled at an angle of 90° to a depth of 300 feet. The overburden was 75 feet thick. The core is rather broken from 75 feet to the bottom of the hole. [illegible] to brown colored serpentine which is [illegible] to [illegible] [illegible] of serpentine [illegible], probably [illegible]. At [illegible] [illegible] mineral seams of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. A small section of [illegible] occurs at the foot. There [illegible] [illegible] [illegible] [illegible] of slip fibers [illegible] [illegible] [illegible] looks to be barren, but will [illegible] .2 or .3 % fiber
75		
	¼ %	
300		

Logged by [illegible]

October [illegible]

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Defense [redacted] 6-30-53

RECEIVED
OCT 9 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1952 Docket No. DMEA 1210 Contract No. 23

Operator's Name The Ruberoid Co., Vermont Asbestos Mines Div. Minerals Asbestos

Address Hyde Park, Vermont

Contract Amount, $ 71,600.00 Government Participation: 90 % Amount, $ 64,440.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent [redacted] Contracts:						
Drilling	4460.50	27335.76	31796.26			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	374.74	4426.15	4800.89			
Supervision	300.00	3717.97	4017.97			
Technical Services	391.11	9673.73	10064.84			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Core Boxes	145.25	282.00	427.25			
Other	—	82.60	82.60			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes	22.07	304.77	326.84			
Liability Insurance	6.06	84.23	90.29			
Transportation	19.08	293.22	312.30			
(8) Contingencies (specify):						
TOTALS	5718.81	46200.43	51919.24			

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

Date 9-16-52 *Payee The Ruberoid Co., Vermont Asbestos Mines Div.

Per [signature] Title [signature]

*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:

$ 5,146.93

Signature
(Authorized Certifying Officer)

Date 10/6/52 Vou. No. DMA-9
(See other side)

Per Mr. Mosier 10/15/52

(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 23 in accordance with the terms of the contract.

Signature K. L. Burmeister Title Mining Eng. Date 9/25/52

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature McHenry Wooster Title Exec. Officer Date 9-25-52

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 1210 Contract No. 23
Operator's Name The Ruberoid Co., Vermont Asbestos Mines Div. Minerals Asbestos
Address Hyde Park, Vt.

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	Ft.	5718.81	1214'	51,919.24	9447'	$5.496	12,000	5.967
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		5718.81		51,919.24				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		5718.81		51,919.24				71,600.00

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 9-16-52 Operator The Ruberoid Co., Vermont Asbestos Mines, Div.

Per [signature] Title Geol. Eng.

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

September 15, 1952

Mr. McHenry Mosier, Executive Officer,
U. S. Dept. of Interior,
Defense Minerals Exploration Administration,
Region VIII,
College Park, Maryland

Contract IDM E-23 Docket 1210 - Aug. Report

Dear Mr. Mosier:

Attached please find report for the month of August which includes cost of $5718.81.

This report was prepared with the assistance of Mr. E. D. Talbert, a D.M.E.A. Auditor, during his visit here to audit the books thru July 31, 1952. It is believed that this report is in order and is suggested that if there are any questions as to the manner in which this report has been computed that Mr. Talbert be contacted in Washington.

Very truly yours,

The RUBEROID Co.

Michael J. Mesmel

Michael J. Mesmel
General Superintendent

MJM:vs

cc: Mr. T. M. Dermody
Mr. W. G. Cowan

NARRATIVE REPORT
DMEA 1210 CONTRACT E83
MONTH OF AUGUST, 1952

Two diamond drills operated by a contractor two shifts per day during the month. Three drill holes were completed, a fourth drilled to 118' and a fifth to 202'. The total footage drilled for the month was 1214'. A tabulation of the holes with the respective footage follows this report.

One of these holes, EH5, Progress Map 5, completes the drilling in this area. EH5 showed very little fibre as did the four previous holes. This area does not contain sufficient fibre to warrant any further work.

Two holes, B1 and B2, Progress Map 8 were completed on The Dagan-Rondeau property and two more, BR1 and B3, drilled to 202 and 118' respectively. These holes have been rather widely spaced and a fair sized body could exist between them. However, the drill core and outcrops to the west of B1, B2 and B3 show so little fibre it is felt the chances of any ore body being missed are extremely remote. Two more holes wi ll be drilled to the north and northeast of BR1. These two holes are located in an area where some slip fibre shows in occasional outcrops.

Logs of the drill cores and Progress Maps are attached to this report.

A field party of 2 to 4 men was engaged part time during the month on this project. Control for drilling on the Rondeau property was established and the contact was mapped. A system of rough traverses were run across the strike of the mass and outcrops systematically studied for fibre content. Dip needle readings were also taken at equal intervals on these traverses.

DIAMOND DRILL FOOTAGE
MONTH OF AUGUST, 1952
CONTRACT E23, DOCKET 1210

Contract Drilled Holes

Hole No.	From Ft.	To Ft.	Feet Drilled This Month	Unit Price	Total Cost
EH-5	0	300	300	$3.25	
D1	0	293	293	3.25	
D2	0	301	301	3.25	
D3	0	202	202	3.25	
BH-1	0	118	118	3.25	
			1214		$4460.50

Note: 1. A charge of $515.00 for hauling water to Holes EH1-EH5 was made this month. Cost per foot drilled equals 30½ cents.

2. Total footage to date on this project:

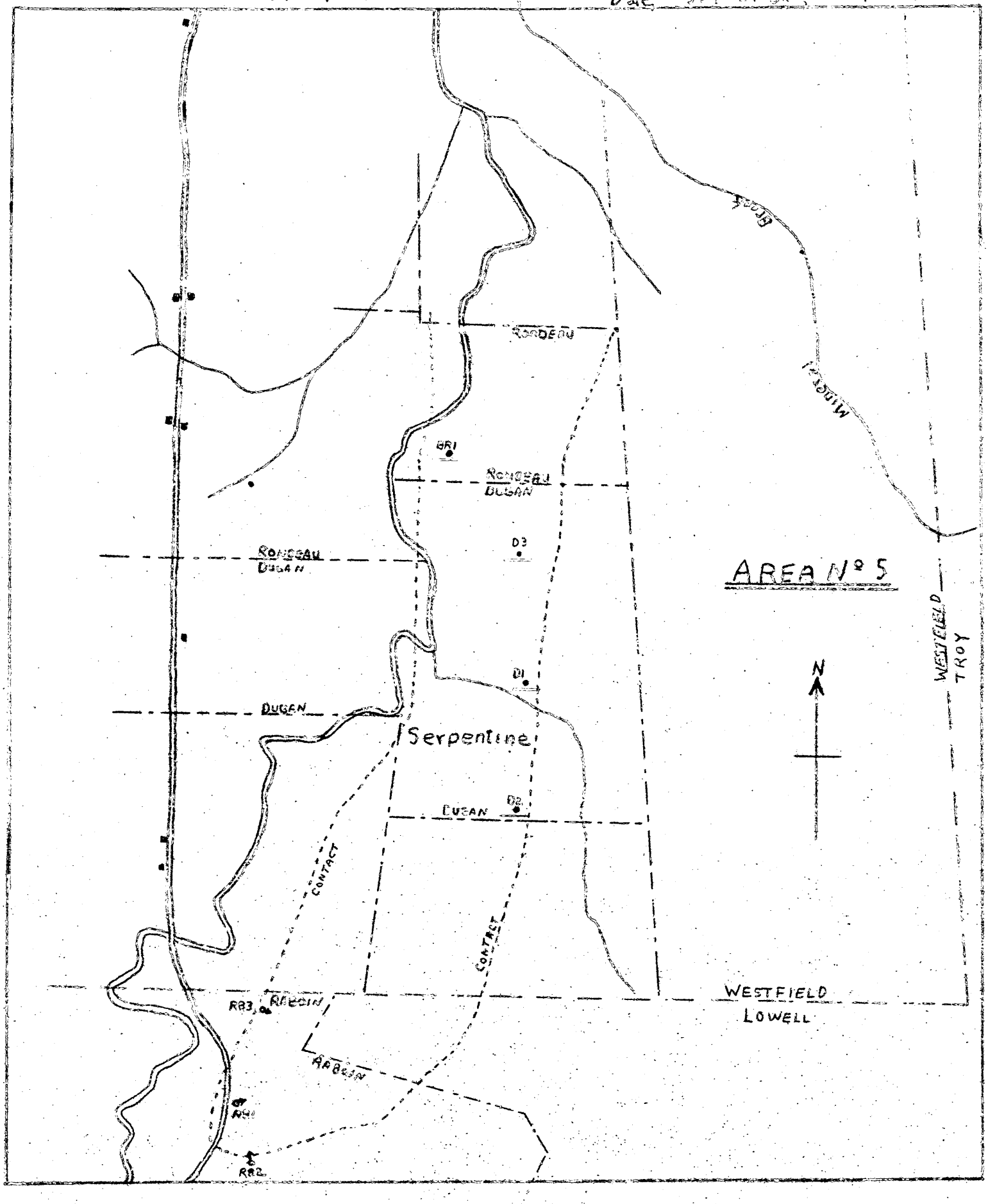
Footage		Unit Price	Cost
1354'	@	3.50	4739.00
8093'	@	3.25	26302.25
9447'			31041.25

DMEA 1210 CONTRACT 623

DIAMOND DRILLING PROGRESS MAP 8

Scale 1" - 1320'

Date SEPTEMBER 12, 1956

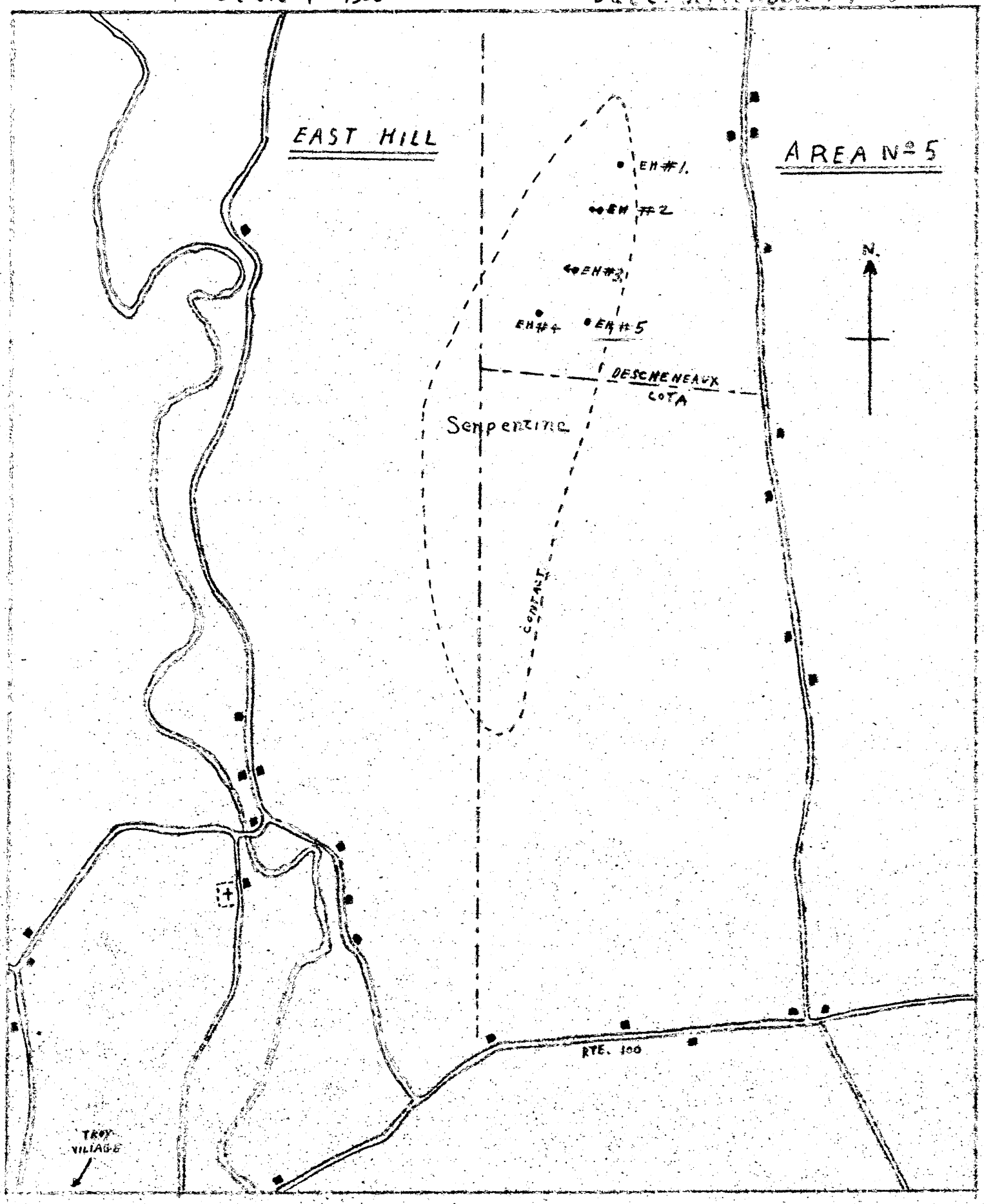


DMEA 1210 CONTRACT E23

DIAMOND DRILLING PROGRESS MAP 5

Scale 1" = 1300'

Date: SEPTEMBER 10, 1952



DMEA 1210 CONTRACT 823

LOG OF DRILL HOLE Nº EH-5

LOCATION: AREA NO. 5 PROPERTY: DESCHENEAUX
ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		This hole was drilled at an angle of 90° to a depth of 300 feet. Serpentine appeared at surface and the hole continued in serpentine to the bottom of a depth of 300 feet. The overburden was about [illegible] feet.
	½ %	From 0 to 58 feet the serp. is dark green and well sheared. Carbonate veins are common. Very short slip fiber occurs in hard fine scales, also a few seams of larger slip fiber in broken and of poor quality. 0.5 %
58		
	0 %	
97		
	½ %	From 58 ft. to about 134 ft. the serpentine is sheared, due to localization of slip fiber.
134		
141	0 %	
	½ %	From 97 to 134 ft. the rock is blocky — short slip fiber 0.3 %.
		From 134 to 141 ft. the serpentine was broken.
		From 141 to 255 feet the core shows short slip fiber [illegible] 0.5 % [illegible] the rock is a green [illegible]
255		
300	Sample	

Logged by L. D.
September 6, 1956

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº D-1

LOCATION: AREA Nº 5 PROPERTY DUGAN

ANGLE OF HOLE: 90° DEPTH: 295' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
		OVER-BURDEN
22		
	½ %	This hole was drilled to a vertical depth of 295 feet. The depth of overburden was 22 feet. Serpentine was encountered at 22 feet and the hole remained in serpentine to a depth of 283 feet where Sp 139 was encountered. The hole remained in Sp 139 to the bottom - a depth of 295 feet.
130		
	½ %	The core from 22 feet to 130 feet was dark green serpentine, poorly sheared and only slightly broken with a few scattered veins of chert. Slip fibers mixed with [illegible] averaged ½ % fiber.
188		
	½ %	From 130 to 188 ft. the serpentine is well sheared, showing some slip fiber which [illegible] averaged ½ %
		From 188 to 278 ft. the serpentine is dark green - poorly sheared and mineralized. Short slip fiber - ½ %
278		
283		A hard section occurs between 278 ft. and 283 ft.
295	Sp 139	The dark greyish-green serpentine starts at 283 feet. The hole is holed and stopped.

Logged by L.G.

September 4, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº D-2

LOCATION: AREA Nº 5 PROPERTY: DUGAN

ANGLE OF HOLE: 90° DEPTH: 301' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
	OVERBURDEN	The hole was drilled to a depth of 301 feet. The overburden was 18 feet deep. The hole entered serpentine at 18 feet and remained in the serpentine to the bottom - a depth of 301 feet.
18		
	½ %	
		The section from 18 feet to 107 feet is dark green to black in color. This serpentine is poorly sheared and mineralized. The slip fiber is short and of poor quality occurring in hairline veins. There are several [illegible] of cross-fiber of good length, but these are [illegible]. Fiber content is less than 0.5 %.
107		
	< ½ %	
139		
	< ½ %	
168		
	< ½ %	
190		
		From 107 to 139 feet the serpentine has a [illegible] and is heavily sheared. < 0.5 %
	½ %	
		From 139 to 168 ft. The serpentine is well sheared and the color is black, [illegible]
		From 168 to 190 ft. The serpentine is [illegible]
		From 190 to 301 ft. The fiber content [illegible] 0.5 % [illegible]
301		

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

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

Month of July, 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name The Emerald Company - Vermont Asbestos Mines Minerals Asbestos
Address Hyde Park, Vermont
Contract Amount, $[illegible] Government Participation: [illegible] % Amount, $[illegible]

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent [redacted] Contracts:						
Drilling	[illegible]	[illegible]	[illegible]			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	[illegible]	[illegible]	[illegible]			
Supervision [redacted]	[illegible]	[illegible]	[illegible]			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
[redacted]	[illegible]	[illegible]	[illegible]			
(4) Operating Equipment:						
Rental	[illegible]	[illegible]	[illegible]			
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes	[illegible]	[illegible]	[illegible]			
Liability Insurance						
[redacted]	[illegible]	[illegible]	[illegible]			
[redacted]	[illegible]	[illegible]	[illegible]			
(8) Contingencies (specify):						
TOTALS	[illegible]	[illegible]	[illegible]	5708.37	40,492.06	46,200.43

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

Date [illegible] *Payee

Per J. M. Potter Title Asst Gen Supt

*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:

$ 5,137.53

Signature _____
(Authorized Certifying Officer)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 18 1952

(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 23 in accordance with the terms of the contract.

Signature [illegible] Title Min. Eng. Date 8/27/52

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer Date 8-27-52

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-101A
(April 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

Month of [illegible] 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]

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
[illegible]								
Drifting		[illegible]		[illegible]				
Crosscutting		[illegible]		[illegible]				
Raising		[illegible]		[illegible]				
Shafts		[illegible]		[illegible]				
Winzes		[illegible]		[illegible]				
Drilling: Core	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		[illegible]	[illegible]	[illegible]				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		[illegible]	[illegible]	[illegible]				

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 [illegible] Operator [illegible]

Per J. M. Cotter Title Asst Gen Supt

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.

Remarks:

(Instructions on reverse)

(For Government use only)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 18 1952

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

August 15, 1952

Mr. McHenry Mosier, Executive Officer
U. S. Dept. of the Interior
Bureau Survey Field Team
Defense Minerals Administration
College Park, Maryland

Contract I, DMA-E23 - Docket 1210 - July Report

Dear Mr. Mosier:

Please find attached, progress report for the month of July which includes cost of $5,708.37.

Mr. Messel is away on his vacation and in his absence he asked me to forward this report to you.

I trust it will be found in order.

Very truly, yours,

The RUBEROID Co.

I. M. Potter

I. Morgan Potter
Asst. Genl. Supt.

IMP/scm

cc: Mr. W. G. Cowan
Mr. T. H. Dermody
Mr. M. J. Messel

B. M. A. 1210 JULY - 1952

	Rate	Straight Time Hours	Straight Time Pay	Prorated share of Overtime	Total	Social Security	Company Paid Unemployment Insurance
A. Blanchard 003	$1.19	16	$ 19.04	-	$ 19.04	$ .29	$ .30
A Potter 003	1.12	8	8.96	-	8.96	.13	.30
A Soule 004	1.12	24	26.88	.74	27.62	.42	.30
A. Potter 004	1.12	16	17.92	.75	18.67	.26	.21
W. Smith 004	1.12	16	17.92	-	17.92	.27	.30
A. Ives 005	1.19	48	57.12	2.38	59.50	.89	.65
R. Matthews 005	1.12 *			3.38	3.38	.05	.03
D. Montgomery 005	1.12	16	17.92	1.55	19.47	.29	.21
L. Lundgren 005	1.19	32	38.08	3.30	41.38	.62	.46
F. Tabas 005	1.19	64	76.16	7.26	83.42	1.25	.92
R. Moran 007	1.12	8	8.96	-	8.96	.13	.10
A. Potter 007	1.12	32	35.84	.75	36.59	.55	.40
J.K. Gilmore, Sup't.		102.0	300.00	-	300.00	4.50	3.30
L.Jordan, Geologist,salary		95.3	196.97	-	196.97	2.95	2.17
J.R. Wheeler **	15.00 day	25 days	375.00		375.00		
			$1196.77	$19.81	$1216.58	$18.02	$9.25

* Mr. R. Matthews - 24 hours of straight time pay @ $1.12 in the amount of $26.88 was not charged this month due to an error by the Pay roll Department. However his overtime was charged and the 24 hours @ 26.88 will be charged in the month of August, 1952.

** Mr. J. R. Wheeler - Surveyor. Fee is $15.00 a day and is paid by The Ruberoid Co. Accounts Payable Dept.

003 - Surveyor

004 - Rodman

005 - Student Helpers

007 - Laborer

The RUBEROID Company

J. K. Gilmore
Agent

D.M.A. 1210
JULY, 1952

Item (3) Other shown as $54.12

Vendor

Hanffel & Esser Co.	Tally Register	$ 3.69
Company Store	1 roll Friction Tape	.43
Merrill Jewett	6 are Bums	50.00
		$54.12

Item (4) Rental shown as $22.14

369 miles @ .06 per mile	$22.14

DIAMOND DRILL FOOTAGE
MONTH OF JULY, 1952
CONTRACT E[redacted]-3 DOCKET 1210

Contract Drilled Holes:

Hole No.	From Ft.	To Ft.	Feet Drilled This Period
LM-14	48	300	252
EM2	0	399	399
EM3	0	401	401
EM4	0	298	298
Total			1350

1350 ft. @ $3.25 per ft.
$4.13

NARRATIVE REPORT

DMA [illegible] CONTRACT [illegible]

MONTH OF JULY 1952

Two diamond drills were operated two shifts by a contractor on the project during the month of July.

In the Leland Hill Area, Progress Map 2, Hole L4Hk was completed. Serpentine rock was encountered at 13 feet and the hole remained in serpentine to bottom at 300'. A very small amount of short slip fiber was scattered throughout the hole.

On the Deschamaux property three holes were completed (HH2, HH3 and HH4, Progress Map 5). Hole HH2 was drilled at 45° for an inclined length of 399'. Ledge was encountered at 15'. Both cross and slip fiber were present in small amounts. Hole HH3 was drilled at an angle of 45° for a length of 401'. Ledge was encountered at 18'. Schist and serpentine are interminled in narrow bands from 386' to 395'. The only fiber present was a small amount of short slip. Hole HH4 was drilled vertical to a depth of 298'. Overburden was 11' deep. A band showing some short cross fiber was encountered from 147 to 160 feet. The remainder of the hole showed only a little short fiber.

One of the two drills operating on this project has moved to HH5 on the Deschamaux property and the other has moved to the Dagon property six miles to the south.

One field party was employed part of the month establishing control for drilling and determining the western schist serpentine contact on the Dagon property.

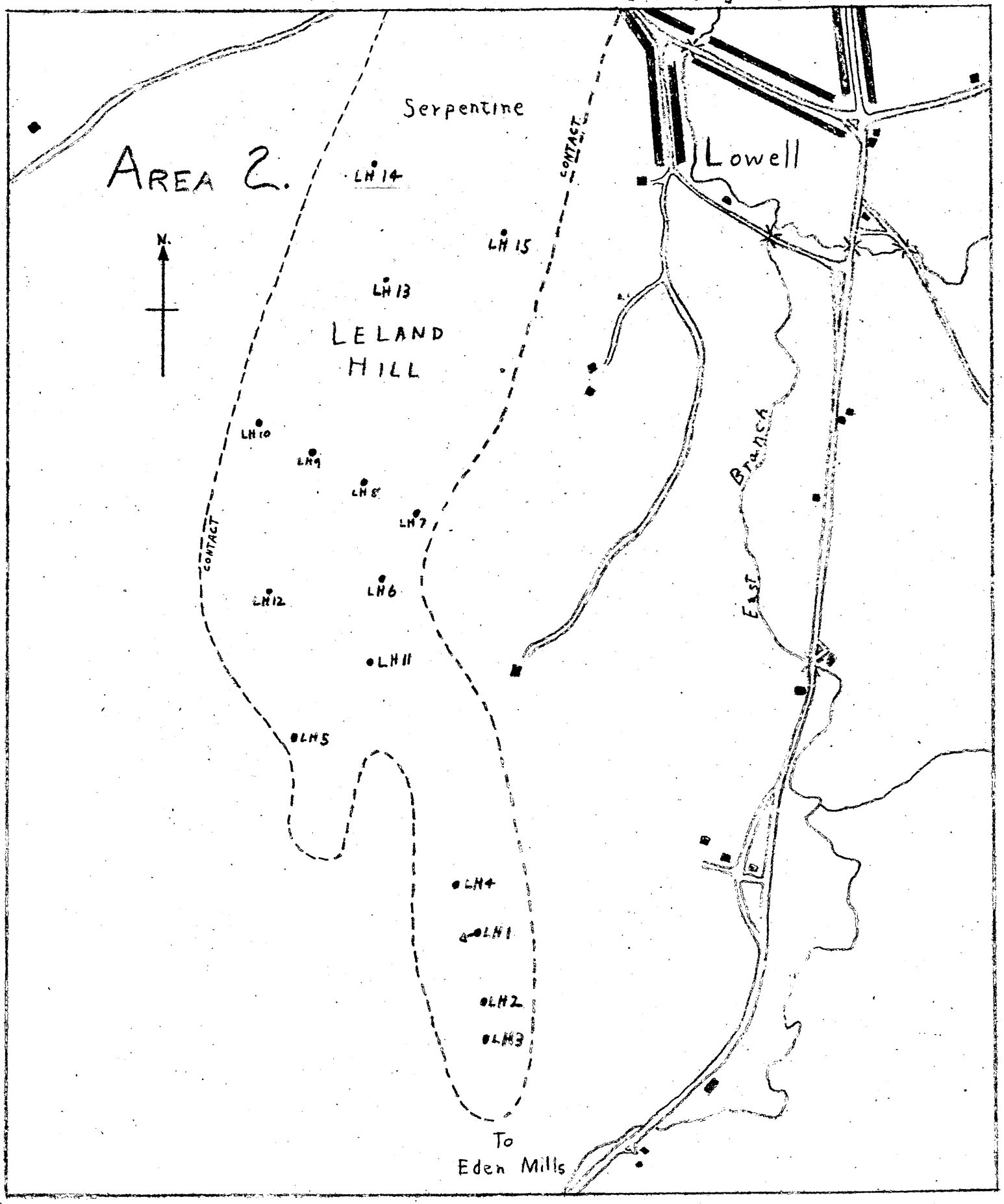
Drill logs and progress maps are attached to this report.

DME 1210 CONTRACT E23

DIAMOND DRILLING PROGRESS MAP 2

Scale 1" – 973'

Date: August 12, 1952

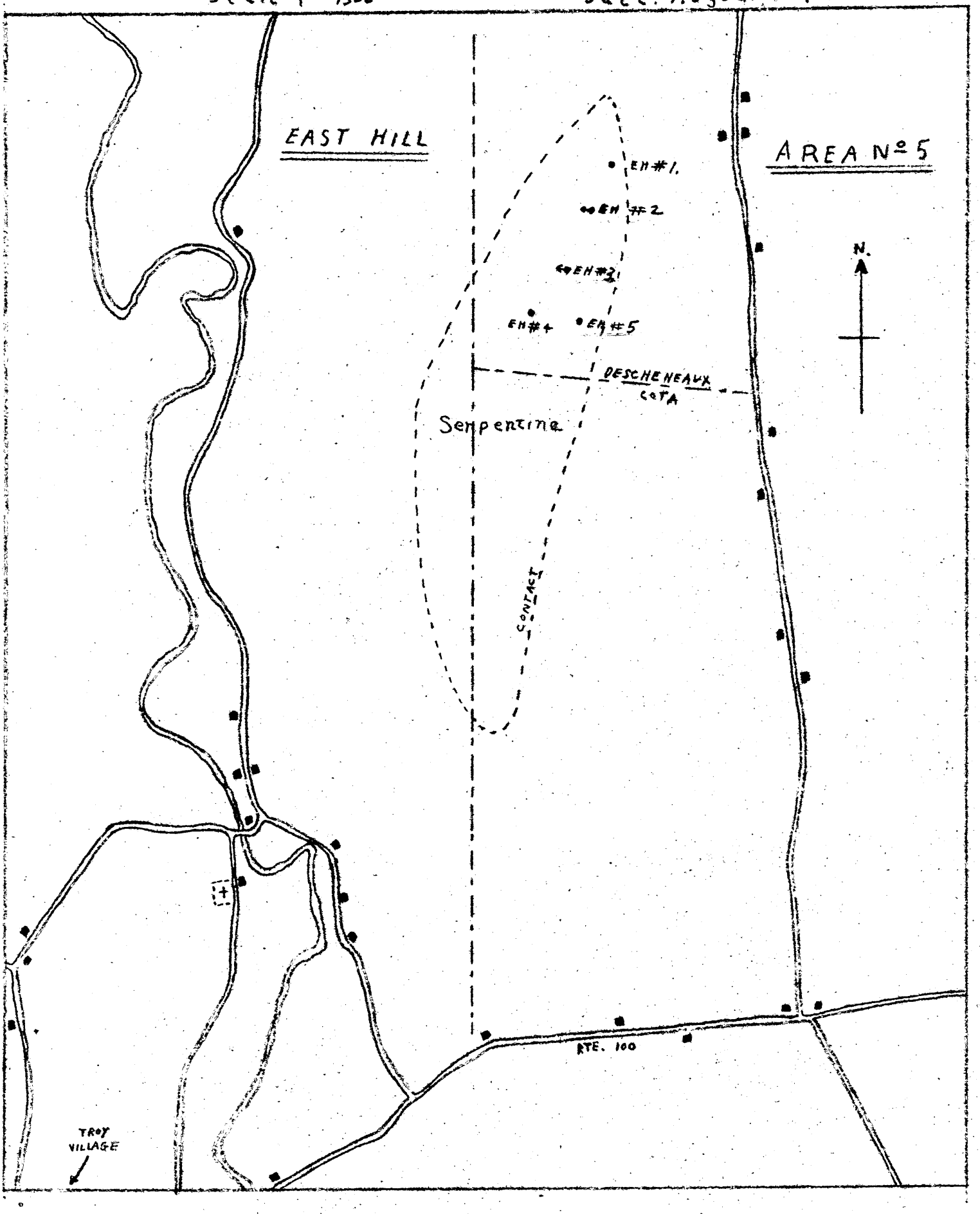


DME 1210 CONTRACT E23

DIAMOND DRILLING PROGRESS MAP 5

Scale 1" - 1300'

Date: August 12, 1952



DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº EH 4

LOCATION: AREA Nº 5 PROPERTY: DESCHENEAUX
ANGLE OF HOLE: 90° DEPTH: 298' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		This hole was drilled to a vertical depth of 298 feet. Overburden was 11 feet.
11	1-1.5%	The sections of serpentine from 11 to 70 feet and from 160 to 298 feet were highly sheared and slightly mineralized. Very short slip fiber appeared in these sections. From 70 to 147 feet the serpentine is poorly sheared, and numerous calcite veins occur.
70		25 veins of cross fiber up to ¼ inch in width appear from 147 to 160 feet.
147	3%	Fiber content 1 to 1.5%. Below ore grade.
160	1%	
298		

Logged by L. J.
August 7, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº EH 3

LOCATION: AREA Nº 5 PROPERTY: DESCHENEAUX
ANGLE OF HOLE: 45° DEPTH: 401' SCALE: 1" = 100'

FEET	EST. % FIBER	DESCRIPTION
0		
18		The hole was drilled to a depth of 401 feet. Overburden was 18 feet.
	1%	Serpentine appeared from 18 to 401 feet. It was generally poorly sheared and poorly mineralized, except for two sections from 112 to 280 and from 325 to 377 feet.
112		
	1.5%	These latter sections were well sheared and slightly mineralized. Where fiber appears, it is very short to short slip fiber. Several veins of carbonates appear throughout.
280		
	1%	
325		The section from 377 to 401 feet is generally barren, and schist appears from 386 to 395 feet.
	0.5%	
377		
	0-0.5%	Fiber content 1% or less. Below ore grade.

Logged by L.S.
August 8, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº EH 2

LOCATION: AREA Nº 5 PROPERTY: DESCHENEAUX

ANGLE OF HOLE: 45° DEPTH: 399' SCALE: 1" = 50'

FEET	EST. % FIBER
0	
15	overburden
	0.5-1%
55	
	0-0.5%
170	
	0-0.5%
272	
	2%
340	
	1%
399	

DESCRIPTION

The hole was drilled to a depth of 399 feet. There was 15 feet of overburden.

From 15 to 40 feet the serpentine is slightly mineralized but becomes blocky from 40 to 55 feet. The section from 170 to 272 feet is also blocky. From 55 to 170 feet the serpentine is poorly fractured and poorly mineralized. From 272 to 399 feet normal shearing appears. Cross fiber veins, ranging in width from $\frac{1}{16}$ to $\frac{1}{4}$ inch appear at 286, 289, 305, 308, 309, and 339 feet.

Where fiber appears, it is short slip fiber. Veins of carbonates appear throughout the core. Fiber content less than 1%.

Logged by L. J.
August 8, 1952

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 14

LOCATION: AREA Nº 2 PROPERTY: PARKER

ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
13		The hole was drilled to a vertical depth of 300 feet. Overburden was 13 feet.
		The section from 13 to 272 feet shows normal shearing and is slightly mineralized except for a few scattered sections which are nearly barren. The fiber in this section is short slip fiber some of which is of good quality.
	1%	From 272 to 300 feet the serpentine is mottled and nearly barren. Some very short slip fiber occurs.
		Definitely below ore grade.
272		
	0-0.5%	
300		

Logged by L. J.
August 8, 1952

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

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

Month of June, 195 52 Docket No. DMEA 1210 Contract No. 23
Operator's Name The Ruberoid Co., Vermont Asbestos Mines Minerals Asbestos
Address Hyde Park, Vermont
Contract Amount, $ 71,600.00 Government Participation: 90 % Amount, $ 64,440.00

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 Contracts: [redacted]						
Drilling	4797.00	18151.26	22948.26			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	829.74	3369.44	4199.18			
Supervision Geologists	1846.22	10555.85	12402.07			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Other	50.71	259.77	310.48			
(4) Operating Equipment:						
Rental	34.14	236.94	271.08			
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance	8.86	64.05	72.91			
Workmen Compensation	.65	4.53	5.18			
Other Insurance	34.60	248.30	282.90			
(8) Contingencies (specify):						
TOTALS	7601.98	32890.14	40492.06			

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

Date 7-14-52 *Payee

Per Michael Jovesed Title Gen'l Supt

*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. E-23 in accordance with the terms of the contract.

Signature H. L. Barnesta Title Mining Engineer Date July 23, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature ..... Title ..... Date .....

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 195[illegible] Docket No. DMEA 1210 Contract No. 23
Operator's Name The Ruberoid Co., Vermont Asbestos Mines Minerals Asbestos
Address Hyde Park, Vermont

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract	
							Units	Unit Costs
Supervisor Salaries		1846.22		12402.07				
Hourly Labor		889.74		4199.18				
Supplies		50.71		310.48				
Rental		34.14		271.06				
Insurance-Taxes		44.11		360.99				
Drilling: Core	Ft.	4797.00	1476'	22968.26	6883'	3.33	12000	3.37
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		7601.92	1476'	40492.06				Total Costs Authorized by Contract
Operating Equipment Purchased								71,600
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		7601.92	1476'	40492.06				

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 7-11-52 Operator The Ruberoid Co., Vermont Asbestos Mines

Per Michael Jonson Title Gen'l Supt

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

JUL 24 1952

JUNE 1952
[illegible] 1952

	Rate	Straight Time Hrs.	Straight Time Pay	Prorated Share of Overtime	Total	Social Security	Co. Paid Unemployment Insurance
A. Shanahan	$1.19	128	$142.80	$11.91	$154.71	$ 2.32	$ 1.70
L. Lundgren	1.19	80	95.20	7.93	103.13	1.55	1.13
F. Tahse	1.19	184	218.96	18.25	237.21	3.56	2.61
A. Ives	1.19	32	38.08	3.17	41.25	.62	.45
R. Matthews	1.12	16	17.92	.75	18.67	.28	.22
B. Montgomery	1.12	24	26.88		26.88	.40	.30
A. Seule	1.12	72	80.64	5.97	86.61	1.30	.95
D. Mason	1.12	24	26.88	2.24	29.12	.44	.32
W. Smith	1.12	32	35.84		35.84	.54	.39
A. Potter	1.12	80	89.60	6.72	96.32	1.44	1.06
J. K. Gilmore	Salary	135.7	300.00		300.00	4.50	3.30
Louis Jordan	Salary	100	201.22		201.22	3.01	2.21
W. B. Miller *	Invoice		1000.00		1000.00		
J. B. Wheeler **	$15.00 day	23 days	345.00		345.00		
			$2619.02	$56.94	$2675.96	$39.96	$14.64

* Mr. William B. Miller - Consulting Geologist - paid by The Ruberoid Co., Accounts Payable Dept.

** Mr. J. B. Wheeler - Surveyor - Fee is $15.00 a day and is paid by The Ruberoid Co., Accounts Payable Dept.

The Ruberoid Co.

J. K. Gilmore
Agent

NARRATIVE REPORT
[illegible] CONTRACT [illegible]
MONTH OF JUNE, [illegible]

Two diamond drills were operated two shifts per day on this project during the month of June.

In the Leland Hill area, Progress Map 2, Holes LH13 and LH15 were completed and Hole LH14 was started. The drill core showed very little fibre.

On the Ramsdell property, Progress Map 4, Hole RF2 was completed. This hole showed practically no fibre.

On the Deschenaux property, Progress Map 5, Hole DH1 was completed and the equipment moved to DH2. An ample supply of water for drilling has not been available on this pro perty and it has been necessary to haul water for drilling.

A field party has completed field work on the Fournier-Ramsdell property. Grid work for further magnetic study on Leland Hill is also completed. Grid control and magnetic field work on the Deschenaux property is completed, except for details which may require checking after compilation of the data and completion of the drilling program.

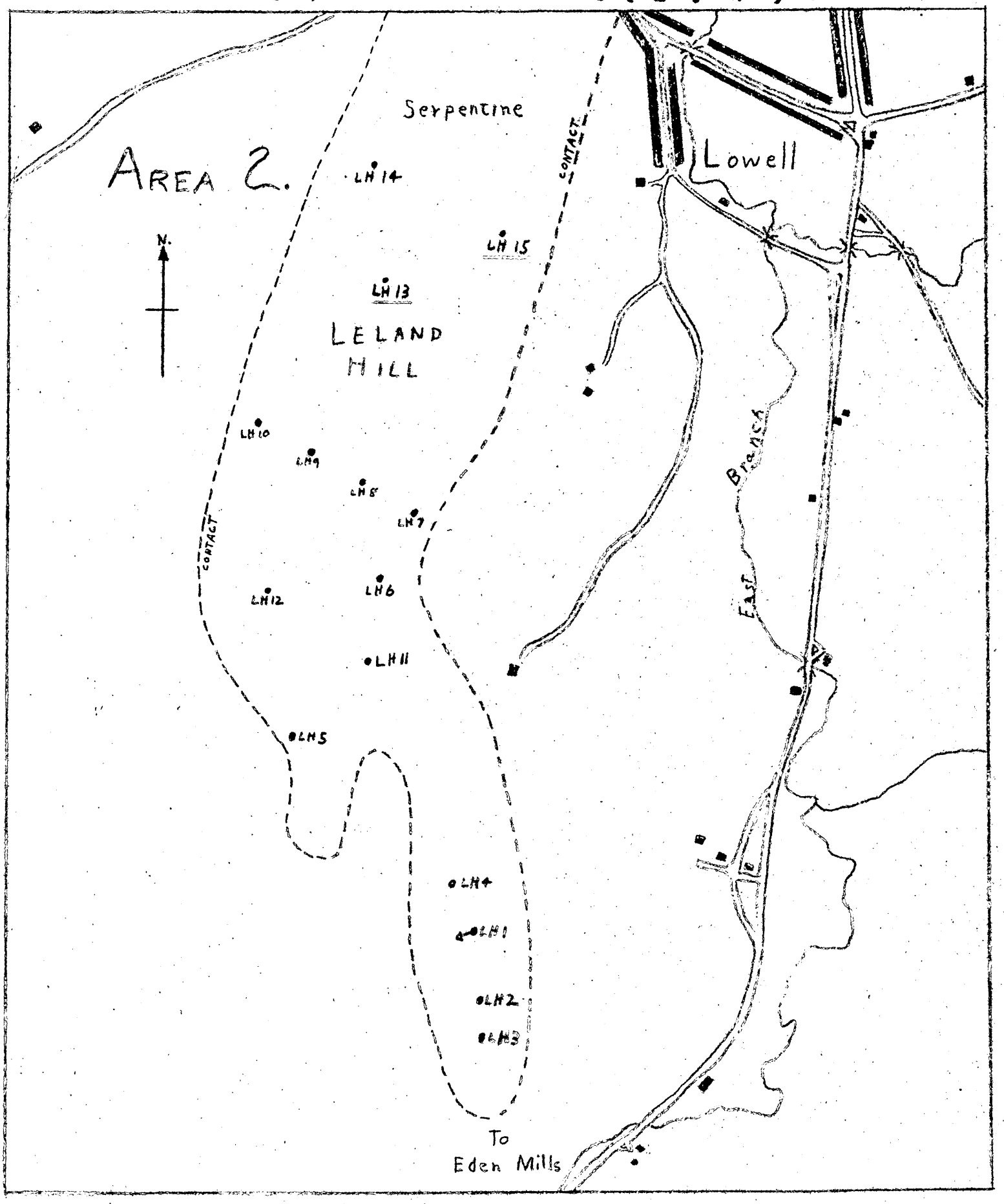
Logs of drill holes and progress maps are attached to this report.

DME 1210 CONTRACT E23

DIAMOND DRILLING PROGRESS MAP 2

Scale 1" – 973'

Date JULY 10, 1952



DME 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 13

LOCATION: AREA Nº 5 PROPERTY: PARKER

ANGLE OF HOLE: 90° DEPTH: 303' SCALE: 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
10	Over-burden	This hole was drilled vertically to a depth of 303 feet. Overburden was 10 feet. The serpentine is generally normally sheared and poor to well mineralized. A few sections are blocky and show carbonaceous matter covering with fiber. The fiber is mostly short slip fiber of poor to fair quality. Numerous hair-like veinlets of short slip fiber occur at 182 to 253 feet. Recoverable fiber content from 0.5 -
	0.5-1%	To 1%. Definitely below ore grade. No indication of spinning fiber.
303		

Logged by L.J. & F.T.
July 8, 1952

DME 1210 CONTRACT E23

LOG OF DRILL HOLE Nº LH 15

LOCATION: AREA Nº 5 PROPERTY: PARKER

ANGLE OF HOLE: 90° DEPTH: 300' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
15	Over-burden.	The hole was drilled vertically to a depth of 300 feet. Overburden was 15 feet deep.
		Serpentine occurs from 15 to 300 feet. It is somewhat blocky and only poorly sheared, with the exception of a section from 167 to 267 feet, which is fairly well sheared and contains 6 or so veins ½ inch wide showing very poor quality, brittle slip fiber.
	0.5-1%	Fiber is generally slip fiber of poor quality and is often mixed with talc and carbonaceous material. Estimated fiber content is less than 1%. There is no indication of cross or spinning fiber.
300		

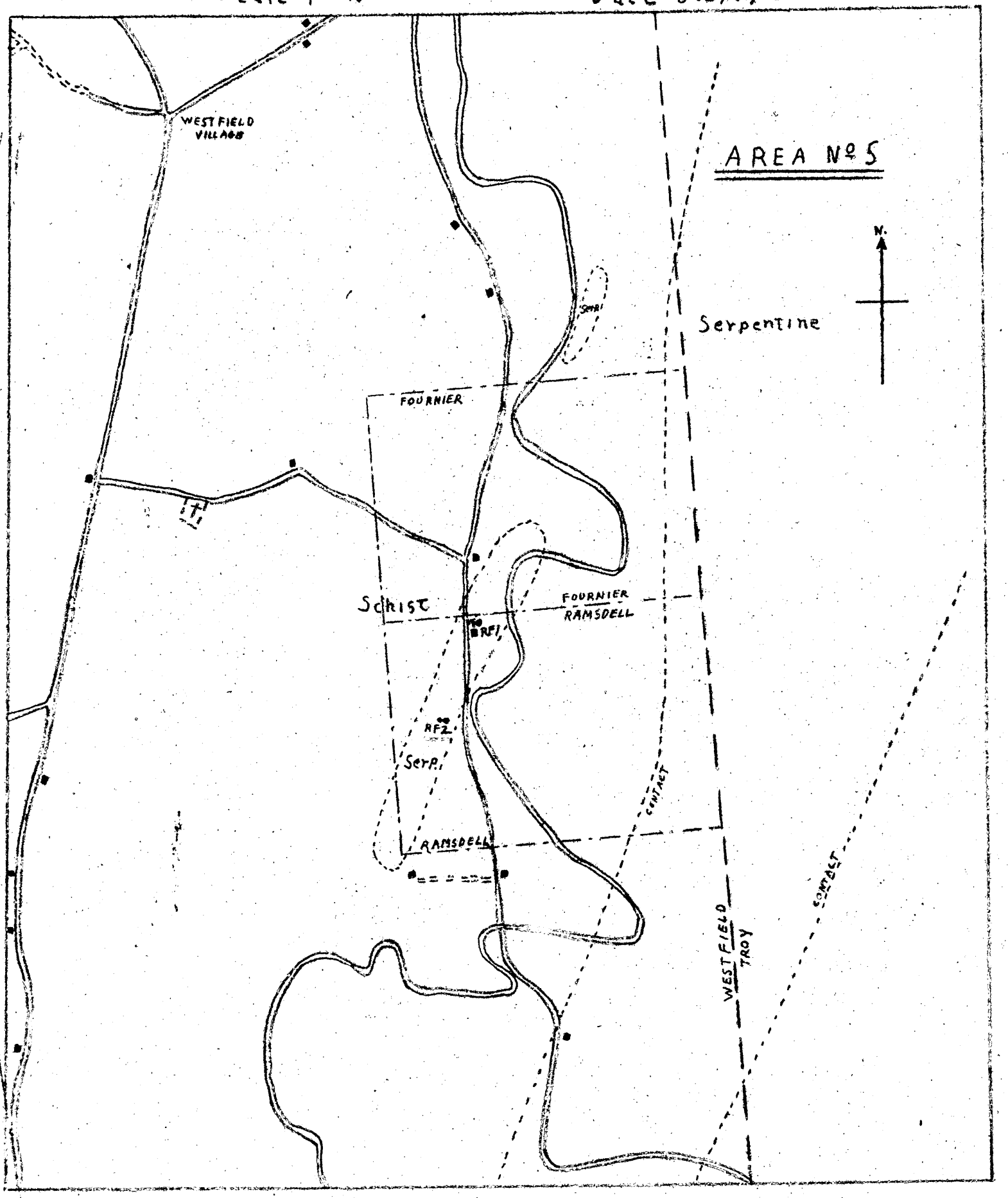
Logged by L.J. & F.T.
July 8, 1952

DME 1210 CONTRACT E23

DIAMOND DRILLING PROGRESS MAP 4

Scale 1" - 1320'

Date JULY 10, 1952



DME 1210 CONTRACT E33

LOG OF DRILL HOLE Nº RF 2

LOCATION: AREA Nº 5 PROPERTY: RAMSDELL

ANGLE OF HOLE: 45° DEPTH: 300' SCALE 1" = 50'

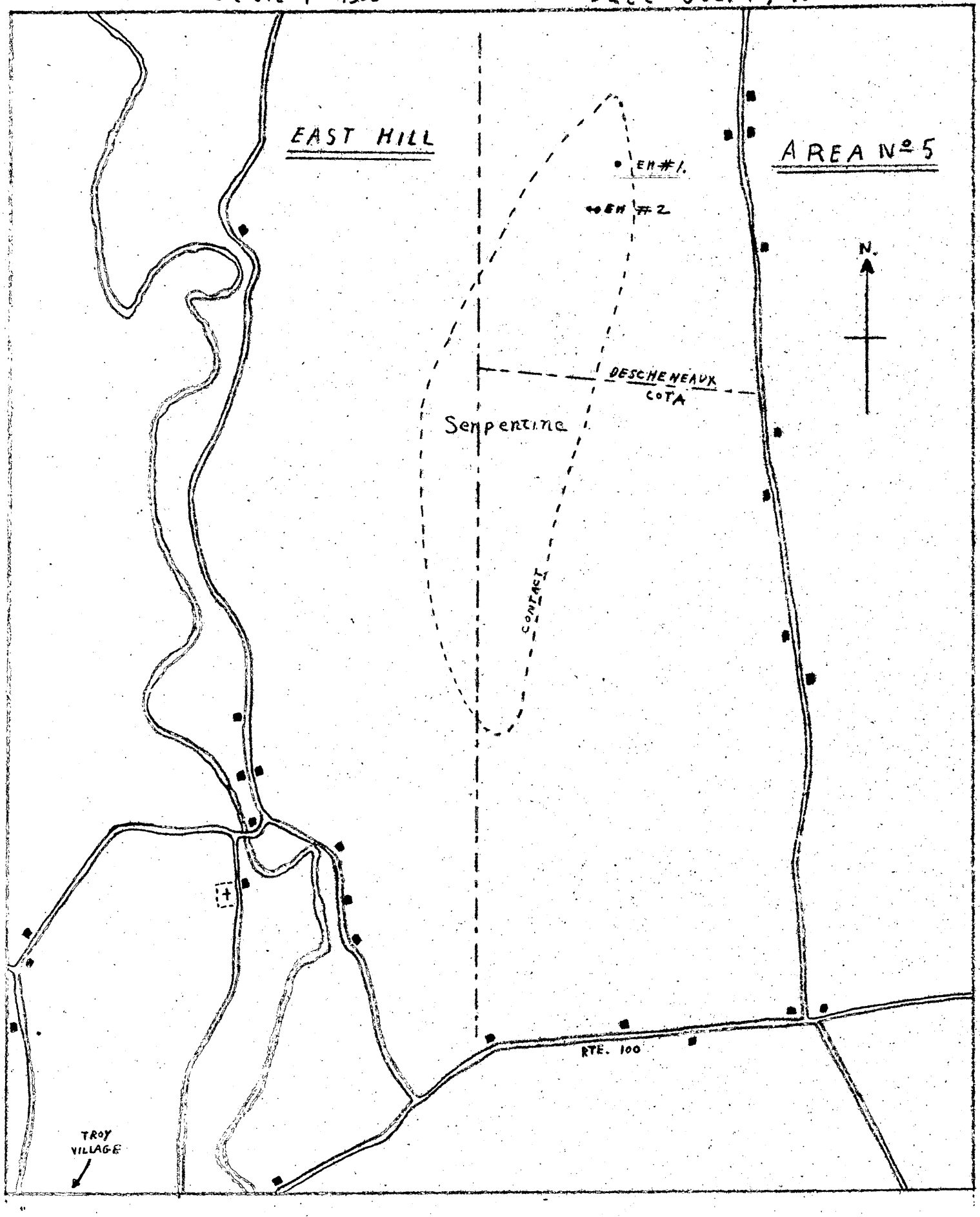
FEET	EST % FIBER	DESCRIPTION
0		This hole was drilled at an angle of 45° to a distance of 300 feet. Overburden was 24 feet deep. Serpentine begins at 24 feet and continues to 300 feet.
24		From 24 to 41 feet serpentine is talcose, and there is no fiber down to 100 feet. From 135 to 190 calcite veins appear, and there is no fiber in this section. From 190 to 300 feet scattered short slip fiber occurs, but there is no 10 foot section with over 1% fiber. At 285' one $\frac{1}{16}$ of an inch cross fiber seam occurs.
	0.5-1%	There is no indication of spinning fiber.
		The hole was drilled to a vertical depth of 212 feet.
300		

Logged by L. J. + F. T.
July 8, 1952

DME 1210 CONTRACT E23

DIAMOND DRILLING PROGRESS MAP 5

Scale 1" - 1300' Date JULY 10, 1952



DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº EH 1

LOCATION: AREA Nº 5 PROPERTY: DESCHENEAUX

ANGLE OF HOLE: 90° DEPTH: 290' SCALE: 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
19	Over-burden	The hole was drilled to a depth of 290 feet at an angle of 90°. Overburden was 19 feet and serpentine appeared at 19 feet.
		The serpentine from 19 to 274 feet is generally gray. It contains veins of calcite $\frac{1}{16}$ to $\frac{1}{2}$ inch in width and veins of talc up to 2 inches in width. From 62 to 116 feet numerous veins of carbonaceous material occur.
	0.5-1%	The serpentine from 19 to 290 feet is generally partly sheared and often blocky. Fiber is less than 1% throughout and is mostly very short slip fiber.
		There is no indication of spinning fiber.
290		

Logged by L.J. & F.T
July 7, 1952

MF-104
(August 1951)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 23

Name of Operator The Ruberoid Co., Vermont Asbestos Mines
Docket No. DMA 1210 - Asbestos
Total Contract Amount $ 71,600.00
Government Participation: 90 % Amount, $ 64,440.00
Distribution of Expenditures for Month of May, 1952

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

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

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

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

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

DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
RECEIVED
JUN 26 1952

CERTIFICATION

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

The Ruberoid Co., Vermont Asbestos Mines, (Name of Company)

By Marshall J. McCaul (Signature of Authorized Official)

June 10, 1952 (Date)

Gen'l Supt (Title)

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

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(*a*) Facilities						
(*b*) Buildings						
(*c*) Fixtures						
2. Operating Equipment:						
(*a*) Purchased[1]						
(*b*) Rented[2]	55.02	181.92	236.94			
(*c*) Furnished by operator						
3. Rehabilitation and Repairs:						
(*a*) Facilities						
(*b*) Buildings						
(*c*) Installations						

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	492.82	2876.62	3369.44			
5. Supervision Geologists	851.54	9704.31	10555.85			
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other	17.57	242.20	259.77			
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability	6.59	57.46	64.05			
(c) Workmen's Compensation	.49	4.04	4.53			
Other Insurance	25.59	222.71	248.30			
10. Contract Work	4078.75	14072.51	18151.26			
11. Other (specify)						
Total	5528.37	27361.77	32890.14			
Deletions						
Adjusted totals						
Totals previously reported	27361.77					
Totals to date	32890.14		32890.14			

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

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

FOR GOVERNMENT USE ONLY

Checked by W. Burmeister

Entered by

Approved by W. T. Miller for McHenry-Moser

Amount approved for payment $ 4975.53

Remarks

16—64068-3

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

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes Contract				4078.75	4078.75	Ft.	1255'	4152'	5407'	
Overburden										
Rehabilitation and preparation										
Geology ~~and geophysics~~ Surveyor	851.54				851.54					
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Mapping	492.82	55.02	17.57	32.67	598.08					
Totals	1344.36	55.02	17.57	4111.42	5528.37	Ft.	1255'	4152'	5407'	

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

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

MAY - 1952

DMEA DOCKET 1210 - ASBESTOS

	Rate	Straight Time Hrs.	Straight Time Pay	Prorated share of Overtime	Total	Social Security	Company paid Unemployment Insurance
J. K. Gilmore	Salary	145.6	$300.00		$300.00	$4.50	$ 3.30
Louis Jordan	Salary	108	191.54		191.54	2.87	2.10
A. Blanchard **	$1.14 1.19	24 184	27.36 218.96	4.56 14.28	265.16	3.98	2.92
A. Soule **	1.07 1.12	20 48	21.40 53.76	3.92 4.48	83.56	1.26	.92
G. Hall	1.12	88	98.56	8.21	106.77	1.60	1.17
B. Mason	1.12	32	35.84	1.49	37.33	.56	.41
		649.6	$947.42	$36.94	$984.36	$14.77	$10.82
J.B. Wheeler *	$15.00 a day	----	-----	-----	360.00	-----	-----
		649.6	$947.42	$36.94	$1344.36	$14.77	$10.82

* Mr. J. B. Wheeler - Surveyor - Fee is $15.00 day and is paid by The Ruberoid Co., Accounts Payable Department.

* Mr. Blanchard and Mr. Soule worked May 1st to 3rd inclusive under our old pay rate. Effective the 4th day of May under our new pay rate, which amounted to a $.05 an hour increase. Mr. Hall and Mr. Mason did not work on this project under the old pay rate.

The Ruberoid Co.

J. K. Gilmore

Agent

DMA 1210 CONTRACT E23

NARRATIVE REPORT - MAY, 1952

Two Diamond Drills operated two shifts per day during the month of May.

In the Leland Hill area, Progress Map 2, Holes LH11 and LH12 were completed and Hole LH13 started. The drilling showed only a few scattered seams of short fibre.

On the Raboin property, Progress Map 3, Hole RB3 was completed. The core showed only an occasional seam of short fibre. This hole was drilled at 45° into the foot of a steep ledge rising 300' in elevation to the east. Further drilling is planned, at a later date, 800' to 1000' east or southeast from this hole to test the center of the south end of this mass.

The Ramsdell property, Progress Map 4, lies near the northern end of the same mass that was drilled on the Raboin property. On this property Hole RF1 was completed and the equipment moved to Hole RF2. Hole RF1 was drilled at 45° under a road cut showing some slip fibre. The mineralization proved quite local as it did not show up in the drill core. Hole RF2 will be drilled at 45° across the strike approximately 1000' southwest of RF1. If any major zone of fibre exists it should be intercepted by this hole.

A Field Party has been working on the Fournier-Ramsdell property mapping, establishing control and running a magnetic survey. They have also been establishing control for drilling on the Descheneaux property approximately 4 miles to the north.

Logs of drill holes and progress maps are attached to this report.

DMEA
Field Inspection Report
June 10, 1952
G. L. Neumann, Engineer

Operator:	Ruberoid Company
Address:	Hyde Park, Vermont
Location of Project:	Eden Mills, Vermont
Docket No.:	DMA-1210
Contract No.:	Idm-E23
Commodity:	Asbestos (spinning grade)
Total Cost:	$71,600.00
Government Participation:	90% - $64,440.00
Duration of Contract:	18 months from June 26, 1951

This deposit was visited June 10, 1952. On Contract No. Idm-E23 for May, drill holes LH-11 and LH-12 were both put down to 301 feet. They contained less than 0.5 percent fiber. The geological crew made some progress on gridding the south section of the Leland Hill area and the anomaly to the west. The plan is now to move to the north of the May drilling to drill LH-13, LH-14 and LH-15.

In the Raboin area for May, drill hole RB-3 was drilled to 300 feet. The core averaged less than one percent fiber. Some slip fiber was cut at 173 foot depth; it was very brittle.

Work started on the Ramsell-Fournier area in May. Drill hole RF-1 was drilled to 290 feet. Many widely separated seams of fiber were cut. The average fiber was less than 0.5 percent. RF-2 is now being drilled.

Many heavy rains hampered the work considerably during May.

G. L. Neumann

DME 1210 CONTRACT E2

LOG OF DRILL HOLE Nº RF 1

LOCATION: AREA Nº 5 PROPERTY RAMSELL FARM
ANGLE OF HOLE 45° LENGTH 290' SCALE 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0	OVER-BURDEN	THE HOLE WAS DRILLED 290' AT 45° TO A DEPTH OF 205 FEET. 15 FEET OF OVERBURDEN WERE PASSED THROUGH OR A VERTICAL DEPTH OF 11 FEET. SERPENTINE WAS THEN ENCOUNTERED AND THE HOLE REMAINED IN SERPENTINE TO THE BOTTOM. THE SERPENTINE IS A RELATIVELY SOUND ROCK OF LIGHT GREEN MOTTLED COLOR. THE HOLE WAS DRILLED UNDER A ROAD CUT SHOWING A FAIR PERCENTAGE OF SHORT SLIP FIBER. FIBER IS FOUND IN VERY WIDELY SEPERATED FINE SEAMS THRU OUT THE HOLE. BOTH CROSS FIBER, ALL UNDER 1/16", AND SLIP FIBER ARE PRESENT. THE SLIP FIBER IS VERY SHORT, PROBABLY NOT OVER GROUP III IN LENGTH. THE TOTAL FIBER CONTENT WOULD BE LESS THAN 0.5 % AND NO SINGLE 3 FT. SECTION WOULD RUN OVER 1½ %
	0.5 %	
290'		

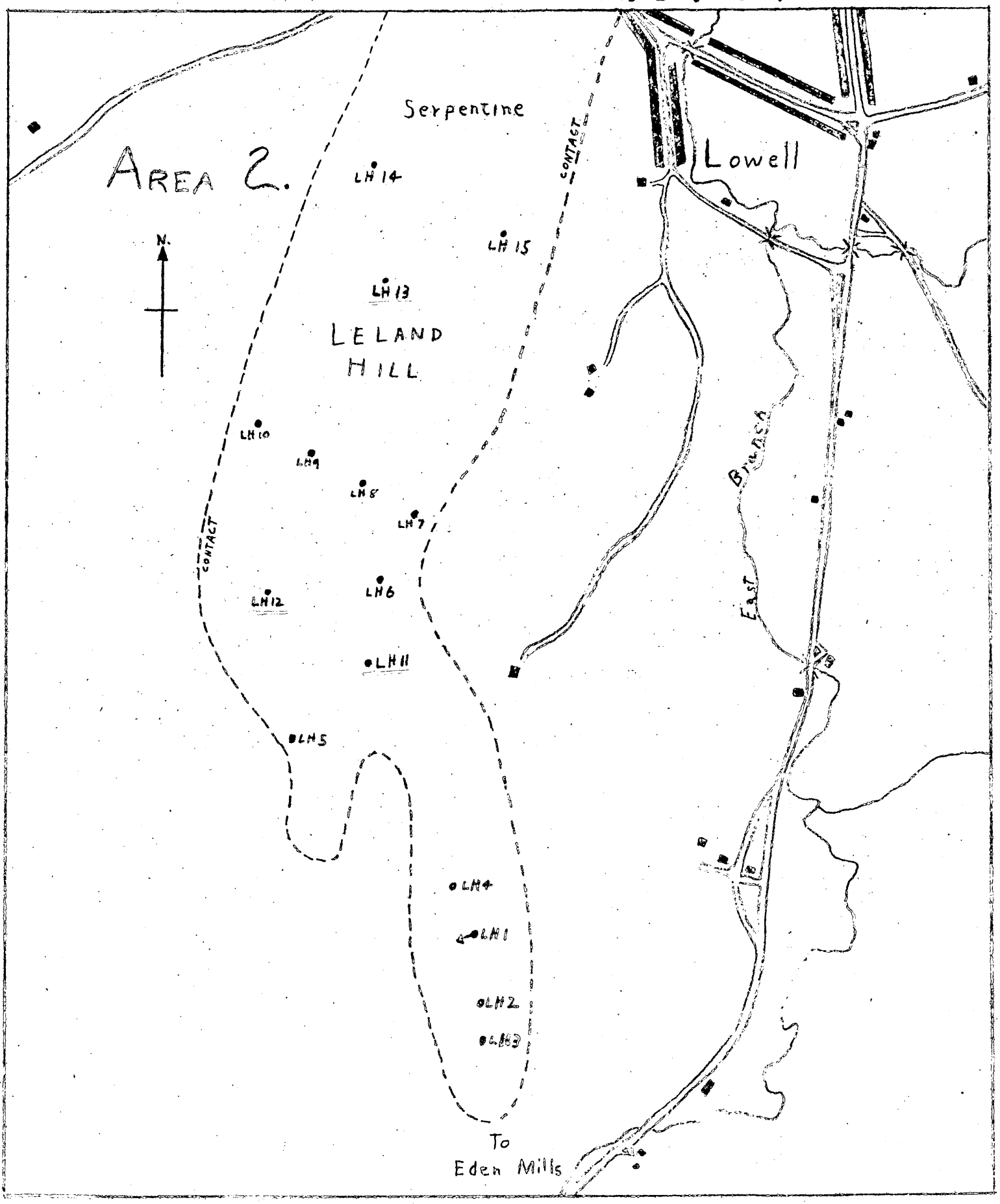
LOGGED BY J. G.
DATE JUNE 6, 1952

DME[illegible] 1210 CONTRACT E2[illegible]

DIAMOND DRILLING PROGRESS MAP 2

Scale 1" – 973'

Date JUNE 4, 1952

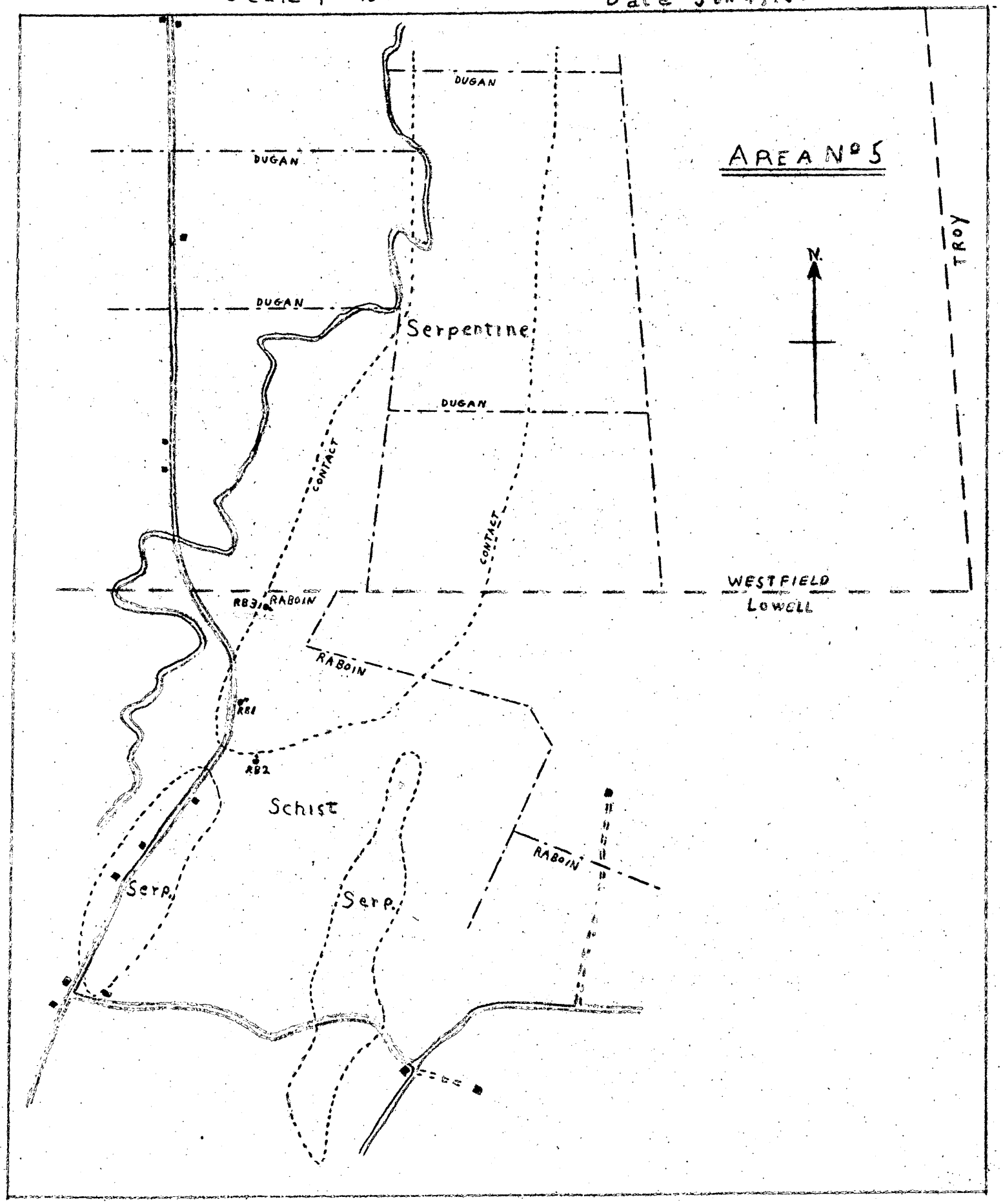


DMEA 1210 CONTRACT E 2

DIAMOND DRILLING PROGRESS MAP 3

Scale 1" – 1320'

Date JUN 4, 1952

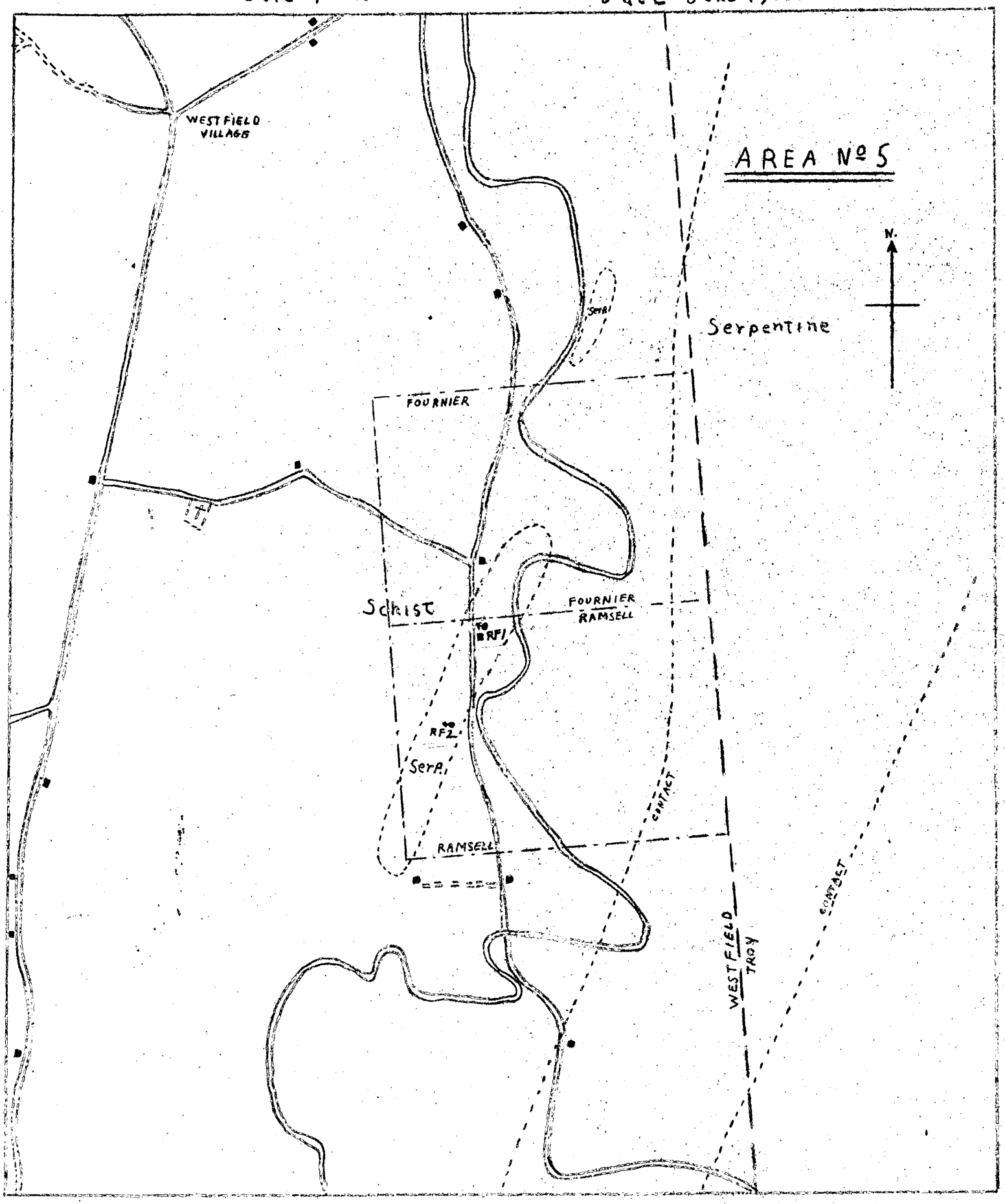


DME A 1210 CONTRACT E 2 3

DIAMOND DRILLING PROGRESS MAP 4

Scale 1" - 1320'

Date JUNE 4, 1952



DMA 1210 CONTRACT 3

LOG OF DRILL HOLE Nº RB 3

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM
ANGLE OF HOLE 45° LENGTH 299' SCALE 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
6		OVER-BURDEN
	1%	THIS ANGLE HOLE PASSED THROUGH SIX FEET OF OVERBURDEN AND REMAINED IN SERPENTINE TO THE BOTTOM OF THE HOLE – A DISTANCE OF 299 FT. THE SERPENTINE IS WELL SHEARED AND SHOWS THIN SEAMS OF VERY SHORT SLIP FIBER. THERE WAS NO INDICATION OF CROSS OR SPINNING FIBER. THE SERPENTINE IS TALCOSE IN A FEW SCATTERED SECTIONS. THERE IS ONE SHORT SECTION AT 173 FT. WHICH SHOWS GOOD SLIP FIBER, BUT THIS FIBER IS BRITTLE. THE FIBER CONTENT OF THIS HOLE IS ESTIMATED AT LESS THAN 1% AND IS NOT CONSIDERED ORE GRADE.
299		

LOGGED BY L.J.
DATE MAY 31, 1952

DM[illegible] 1210 CONTRACT E[illegible]

LOG OF DRILL HOLE Nº LH 11

LOCATION: AREA Nº 5 PROPERTY ELIOT FARM

ANGLE OF HOLE 90° LENGTH SCALE 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
	Over-burden	
33		
	Less than 0.5%	This hole was drilled vertical to a depth of 301'. Overburden was 33' deep. The core showed serpentine that was considerably sheared. The fiber content was very low. Fine fiber seams, hairline in size, were scattered throughout. These contained very short fiber of good quality. An occasional seam 1/16" wide and one or two 1/8" wide showed longer but brittle weak fiber. The hole is definitely below ore grade.
301		

Logged by J.G + L.J.

Date 31 May 1952

DME[illegible] 1210 CONTRACT E2[illegible]

LOG OF DRILL HOLE Nº LH 12

LOCATION: AREA Nº 2 PROPERTY ELLIOTT FARM
ANGLE OF HOLE 90° LENGTH 301' SCALE 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
	OVER-BURDEN	THIS VERTICAL HOLE WAS DRILLED TO A DEPTH OF 301 FT. THE DRILL PASSED THROUGH 29 FEET OF OVERBURDEN. THE CORE SHOWED SERPENTINE FROM 29 FT TO 301 FT.
29		THE SERPENTINE WAS WELL SHEARED EXCEPT FOR THE FIRST 20 FT WHICH WAS BLOCKY.
	0.5 %	THE FIBER ENCOUNTERED IN THE HOLE WAS VERY SHORT SLIP FIBER WHICH OCCURED IN NUMEROUS SHORT AND SCATTERED HAIR-LIKE VEINS. NO FIBER OF SPINNING QUALITY WAS FOUND AND THE ONLY INDICATION OF CROSS FIBER WAS NOTED AT A DEPTH OF 295 FT. HERE THERE WAS A HALF DOZEN SHORT SEAMS OF CROSS FIBER. THEY AVERAGED ABOUT 1/16" IN LENGTH.
301		THE TOTAL FIBER CONTENT OF THE HOLE WOULD BE ABOUT 0.5 %. THE HOLE IS CONSIDERED AS BELOW ORE GRADE.

LOGGED BY L. J.
DATE. JUNE 6, 1952

MF-104
(August 1951)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 23

Name of Operator [illegible]
Docket No. DMA [illegible]
Total Contract Amount $ [illegible]
Government Participation: [illegible] % Amount, $ [illegible]
Distribution of Expenditures for Month of [illegible]

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

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

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

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 18 1952

CERTIFICATION

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

[illegible] (Name of Company) By [signature] (Signature of Authorized Official)

[illegible] (Date) Gen. Sup't (Title)

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

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(*a*) Facilities						
(*b*) Buildings						
(*c*) Fixtures						
2. Operating Equipment:						
(*a*) Purchased[1]						
(*b*) Rented[2]	[illegible]	[illegible].76	1[illegible]1.12			
(*c*) Furnished by operator						
3. Rehabilitation and Repairs:						
(*a*) Facilities						
(*b*) Buildings						
(*c*) Installations						

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor [3]	92.18	2284.24	2376.62			
5. Supervision	472.14	3331.47	3803.31			
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other	204.50	37.70	242.20			
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability	6.50	50.30	56.16			
(c) Workmen's Compensation	.19	3.55	4.04			
Other Insurance	26.10	197.01	223.71			
10. Contract Work	976.50	2073.02	3049.52			
11. Other (specify)						
Total	2222.61	3139.30	5361.91			
Deletions						
Adjusted totals						
Totals previously reported	3139.30					
Totals to date	5361.91		5361.91			

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

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

FOR GOVERNMENT USE ONLY

Checked by W. T. Millar
Entered by
Approved by McHenry Mosier 6-17-52
Amount approved for payment $2,001.40
Remarks

16—64068-3

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

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes				994.50*	994.50	Ft.	306'	3846.0'	4152.0'	
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Mapping	965.32	26.16	204.50	32.19	1228.17					
Totals	965.32	26.16	204.50	1026.69	2222.67	Ft.	306'	3846.0'	4152.0'	

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

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

* Amount paid Joy Mfg. Co. (Contractor)
for Core Drilling 306' @ $3.25

D. M. E. A.

Field Inspection Report
May 10, 1952
W. T. Pillar, Examiner

Operator:	The Ruberoid Company Vermont Asbestos Mines Division
Address:	Hyde Park, Vermont
Docket No.	DMA 1210
Contract No.	I-DMA-[illegible]23
Commodity:	Asbestos
Total Cost:	171,600.00
Govt. Participation:	90% or 154,440.60
Duration of Contract:	18 months, beginning June 20, 1951

Field exploratory work under this contract was resumed in [illegible] 2 on April 11 after recessing during the severe winter season.

The exploration is well supervised by a full time company geologist and a consulting geologist. The company maintains a core ~~[illegible]~~ laboratory for testing asbestos bearing materials, facilities of which are available for the core obtained from this project.

As the exploratory work progresses, it is possible that the tentative locations for some of the drill sites may be changed in order that the geology indicated by previous drilling may be used to the best advantage.

Detail of progress [illegible] in the previous report.

APRIL — — — 1952

	Rate	Straight Time Hours	Straight Time Pay	Prorated Share of Overtime	Total	Social Security	Company paid Unemployment Insurance
J. K. Gilmore	Salary	135.8	$300.00	———	$300.00	$4.50	$3.30
Louis Jordan	Salary	208	406.44	———	406.44	6.10	4.47
N. Duba	$1.31	40	52.40	$4.41	56.81	.85	.62
A. Blanchard	$1.14	100	114.00	6.60	120.60	1.81	1.33
B. Mason	$1.07	24	25.68	2.18	27.86	.42	.30
A. Soule	$1.07	48	51.36	2.25	53.61	.80	.60
		555.8	$949.88	$15.44	$965.32	$14.48	$10.62

D. M. E. A. DOCKET 1210 - ASBESTOS

Mr. J. K. Gilmore listed above on the D.M.E.A. Project is employed part time on this project and part time on Company work and the time is necessarily prorated.

The BIRMEROID Co.

J. K. Gilmore

AGENT

DMA 1210 CONTRACT E23 NARRATIVE REPORT

MONTH OF APRIL, 1952

Drilling on this project was resumed in April. One drill was operated two shifts on the Raboin Property or the South end of the long serpentine mass in Area 5. Two holes, RB1 and RB2 were completed and a third RB3 has been started. The logs of RB1 and RB2 accompany this report together with a map showing their locations.

Drilling has also been resumed on Leland Hill in Area 2 with another machine. Drilling was started late in the month on Hole LH11 and is still in progress.

A field party of 3 to 4 men have been establishing control and mapping on the Fournier and Ramsdell Property, Lot 32, Westfield township. This property is on the northern end of the long serpentine mass in Area 5. Work is still in progress and it is planned to start drilling on this property next month.

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RB 1

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM
ANGLE OF HOLE 45° LENGTH 306' SCALE 1" = 50'

FEET	EST. % FIBER	DESCRIPTION
0		
18'		
	½%	This hole was in serpentine well sheared for most of its inclined length of 288'. There were 18' of over burden. This shearing was visible as paper-thin fiber seams scattered thruout the core, locally in concentrations. Calcite veinlets occur here and there in association with light green serpentine. The fiberization is very lean and consists of extremely short slip fiber in the hair-like seams. with about ½ % recoverable and only one richer zone of normal slip fiber (226'–234') running perhaps 2 %. No spinning fiber is present and the final evaluation of the hole is definitely below one grade.
306		

DMEA 1210 CONTRACT E23

LOG OF DRILL HOLE Nº RB 2

LOCATION: AREA Nº 5 PROPERTY RABOIN FARM
ANGLE OF HOLE 45° LENGTH 298' SCALE. 1" = 50'

FEET	EST % FIBER	DESCRIPTION
0		
	Over-burden	This angle hole passed thru 35' of overburden and stayed in schist to 143'. These schistose rocks vary in composition from sericitic to graphitic and contain many quartz lenses and stringers. The contact zone with the serpentine (143 - 156') is highly talcose. The serpentine, from 156' to the bottom of the hole at 298', is locally well sheared and shows paper-thin seams with short slip fiber. Else where there is blocky fracturing and widely scattered thin fiber seams. AT two points (205½ - 206 and 218 - 220') excellent spinning fiber occurs intimately mixed with calcite, but from 156' to 298' the estimated fiber content is 0.5 % and definitely not ore.
35'		
	schist	
143		
156	talcose	
	0.5 %	
298		

LOGGED BY J.G & W.M.
DATE 7 MAY 1952

MF-104
(August 1951)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 23

Name of Operator The Ruberoid Co., Vermont Asbestos Mines
Docket No. DMA 1210 - Asbestos
Total Contract Amount $ 71,600.00
Government Participation: 90 % Amount, $ 64,440.00
Distribution of Expenditures for Month of March, 1952

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

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

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

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

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

RECEIVED
APR 1 0 1952

CERTIFICATION

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

The Ruberoid Co., Vermont Asbestos Mines
(Name of Company)

By [signature]
(Signature of Authorized Official)

April 10, 1952
(Date)

Gen'l. Supt
(Title)

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

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]						
(b) Rented[2]	----	155.76	155.76			
(c) Furnished by operator						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

Chambers

College Park, Maryland

May 21, 1952

Mr. Michael J. Massel, Gen. Supt.
The Ruberoid Company
Hyde Park, Vermont

Dear Mr. Massel:

Referring to the April 1952 Progress Report on Contract Idm-E23, Docket No. DMA-1210:

The wages paid to N. Dube, A. Blanchard, B. Mason and A. Soule are not correct if the number of hours and rate of pay are properly listed. If the wages paid are incorrect, the Social Security, Insurance and the totals are also affected. Will you please have the necessary corrections made and send us four copies of that sheet.

In the October 1951 Progress Report there was an item of $240.00 for core boxes and for delivering water to the contractor. This you correctly entered on the back page under "Supplies" but on the center page it was carried under "Contract Work." In your May report will you please show Item 6(d) as $482.20 and Item 10 as $13,832.51 in the column "Previously Reported." The total money expended will of course remain the same.

This letter will justify to an auditor the change in the item cost.

Yours very truly,

McHenry Mosier

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

McHM:HLBurmeister:rwa

copy for COMittendorf
DNAnderson
DMEA Files 2

NARRATIVE REPORT FOR MONTH OF MARCH, 1952

CONTRACT E23 DMA 1210 ASBESTOS

Very little field work was accomplished in March due to the poor weather. Some rough traverses were made with the dip needle, largely to determine approximate locations of contacts. This work should limit the areas where more detailed work will be required during the summer season.

It is planned to start drilling in April with a hole located in the southern end of the main mass in Area 5 (Hole RB1 on attached map). Five more holes (LH11 thru LH15) are planned in Area 2. Drilling will be started in this area as soon as access roads are passable. As drilling progresses it may be desirable to change the locations somewhat or to drill additional holes.

We also plan to start a field party on mapping and magnetometer work in a portion of area 5 where the snow is now practically gone.

MARCH

D.M.A.

	Hrs. Worked	Wages Paid	Social Security	Company Paid Unemployment Insurance
J. K. Gilmore - Salary	139.5	$300.00	$4.50	$3.30
Louis Jordan - Salary	205.0	$372.69	$5.59	$4.10

D. M. A. Docket 1210

Mr. J. K. Gilmore listed above on the D.M.A. Project is employed part time on this project and part time on Company work and the time is necessarily prorated. Not included above, but shown on Form MF-104 under supervision, is Mr. W. B. Millar, Consulting Geologist.

The RUBEROID Co.

J. K. Gilmore
Agent

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	—	2784.14	2784.14			
5. Supervision	1672.69	7158.78	8831.47			
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other	—	37.70	37.70			
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability	4.68	46.18	50.86			
(c) Workmen's Compensation	.35	3.20	3.55			
Other Insurance	17.49	180.12	197.61			
10. Contract Work	—	13078.01	13078.01			
11. Other (specify)						
Total	1695.21	23443.89	25139.10			
Deletions						
Adjusted totals						
Totals previously reported	23443.89					
Totals to date	25139.10		25139.10			

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

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

FOR GOVERNMENT USE ONLY

Checked by R. W. Arthur

Entered by

Approved by McHenry Ulosier 4-16-52

Amount approved for payment $1,525.69

Remarks

16—64068-3

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF March, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes						Ft.	---	3846.0'	3846.0'	
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Mapping	1672.69			22.52	1695.21					
Totals	1672.69			22.52	1695.21	Ft.	---	3846.0'	3846.0'	

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

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

MF-104
(August 1951)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 23

Name of Operator Ruberoid Co., Vermont Asbestos Mines
Docket No. DMA 1210 - Asbestos
Total Contract Amount $ 71,600.00
Government Participation: 90 % Amount, $ 64,440.00
Distribution of Expenditures for Month of February - 1952

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

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

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

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 1 8 1952

CERTIFICATION

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

Ruberoid Co., Vermont Asbestos Mines
(Name of Company)

By [signature]
(Signature of Authorized Official)

March 11, 1952
(Date)

[signature]
(Title)

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

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]						
(b) Rented[2]	----	155.76	155.76			
(c) Furnished by operator						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

NARRATIVE REPORT FOR MONTH OF FEB. 1952

CONTRACT E23 DMA 1210 (ASBESTOS)

During the month of February work was largely confined to plotting and interpreting data obtained during the last season. Some planning was done for work for the coming season. A few field trips were made, taking dip needle readings to determine contacts of the serpentine masses, but weather was generally poor for this type of work.

We have shown on the accompanying map the southern end of a large serpentine mass to the north of Area 3 and northeast of Area 1. Between this large mass and the main masses of Area 1 and Area 3 are some small disconnected serpentine masses. The one to the northeast of Area 1 outcrops over most of its area. It is considerably sheared. It has some fibre on the north end but generally is not well mineralized and contains considerable carbonate. Also, it is too small to be of interest as an orebody.

More study is required of the other two to determine their exact size and fibre possibilities. The easternmost one outcrops in a few places but shows little encouragement. They both seem too small to be of economic interest. However, masses of this type are generally well sheared throughout, a factor which is considered good for fairly complete mineralization of the mass.

A magnetic anomaly to the south of Area 2 indicates the possible existance of another of these disconnected masses. Further magnetic work in this area will be required to determine if it is actually a small serpentine mass or if it is a local concentration in the shhists.

Some study of these small masses is planned for the future, together with a search for the existance of others.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 18 1952

D. M. A.

	Hours Worked	Wages Paid	Social Security	Company Paid Unemployment Insurance
J. K. Gilmore - Salary	128.9	$300.00	$4.50	$3.90
Louis Jordan - Salary	200.0	$383.08	$5.75	$4.98

D. M. A. Docket 1210

Mr. J. K. Gilmore, listed above on the D. M. A. Project, is employed part time on this project and part time on company work and the time is necessarily prorated.

The Ruberoid Co.

J. K. Gilmore
Agent

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 18 1952

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	----	2784.14	2784.14			
5. Supervision	683.08	6475.70	7158.78			
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other		37.70	37.70			
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability	4.76	41.42	46.18			
(c) Workmen's Compensation	.35	2.85	3.20			
Other Insurance	19.13	160.99	180.12			
10. Contract Work		13078.01	13078.01			
11. Other (specify)						
Total	707.32	22736.57	23443.89			
Deletions						
Adjusted totals						
Totals previously reported	22736.57					
Totals to date	23443.89		23443.89			

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

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

FOR GOVERNMENT USE ONLY

Checked by [illegible]
Entered by
Approved by McHenry Ulosier
Amount approved for payment $636.59
Remarks

16—64068-3

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF February, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes						Ft.	----	3846.0'	3846.0'	
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Mapping	683.08			24.24	707.32					
Totals	683.08			24.24	707.32	Ft.	----	3846.0'	3846.0'	

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

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

MF-104
(August 1951)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No. Idm-E 23

Name of Operator Ruberoid Co., Vermont Asbestos Mines
Docket No. DMA 1210 - Asbestos
Total Contract Amount $ 71,600
Government Participation: 90 % Amount, $ 64,440
Distribution of Expenditures for Month of January, 1952

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

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

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

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

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

CERTIFICATION

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

Ruberoid Co., Vermont Asbestos Mines
(Name of Company)

By [signature]
(Signature of Authorized Official)

February 11, 1952
(Date)

Gen'l Supt.
(Title)

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

16--64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(*a*) Facilities						
(*b*) Buildings						
(*c*) Fixtures						
2. Operating Equipment:						
(*a*) Purchased[1]						
(*b*) Rented[2]	---	155.76	155.76			
(*c*) Furnished by operator						
3. Rehabilitation and Repairs:						
(*a*) Facilities						
(*b*) Buildings						
(*c*) Installations						

D M A

JANUARY 1952

	Hours Worked	Wages Paid	Social Security
J. K. Gilmore	---	$300.00	$ 4.50
Louis Jordan	---	383.08	5.75
		$683.08	$10.25

D.M.A. Docket 1210

The men listed above on the D.M.A. Project are employed part time on this project and part time on company work and the time is necessarily prorated.

The Ruberoid Co.

D. E. Matthews
Agent

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	-----	2784.14	2784.14	✓		
5. Supervision	683.08	5792.62	6475.70	✓		
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other		37.70	37.70	✓		
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability	4.76	36.66	41.42	✓		
(c) Workmen's Compensation	.35	2.50	2.85	✓		
Other Insurance	19.13	141.86	160.99	✓		
10. Contract Work	497.25	12580.76	13078.01	✓		
11. Other (specify)						
Total	1204.57	21532.00	22736.57	✓		
Deletions						
Adjusted totals						
Totals previously reported	21532.00	✓				
Totals to date	22736.57	✓	22736.57	✓		

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

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

FOR GOVERNMENT USE ONLY

Checked by W. H. Barrington
Entered by
Approved by McKenny Ulmer
Amount approved for payment 1084.11
Remarks

16—64063-3

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF January, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes				497.25*	497.25	Ft.	153'	3693.0'	3846.0'	
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Mapping	683.08			24.24	707.32					
Totals	683.08			521.49	1204.57	Ft.	153'	3693.0'	3846.0'	

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

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

* Amount paid Joy Mfg. Co. (Contractor)
for Core Drilling 153' @ $3.25

MF-104
(August 1951)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.
JAN 14 10 32 AM '52

Contract No. Idm-E

Name of Operator Ruberoid Co., Vermont Asbestos Mines
Docket No. DMA 1210-Asbestos
Total Contract Amount $ 71,600
Government Participation: 90 % Amount, $ 3,825.27
Distribution of Expenditures for Month of November, 1951

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

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

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

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

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

CERTIFICATION

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

Ruberoid Co., Vermont Asbestos Mines
(Name of Company)

By [signature]
(Signature of Authorized Official)

December 12, 1951
(Date)

Gen'l. Supt
(Title)

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

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(*a*) Facilities						
(*b*) Buildings						
(*c*) Fixtures						
2. Operating Equipment:						
(*a*) Purchased[1]						
(*b*) Rented[2]	45.60	102.96	148.56			
(*c*) Furnished by operator						
3. Rehabilitation and Repairs:						
(*a*) Facilities						
(*b*) Buildings						
(*c*) Installations						

NARRATIVE REPORT FOR MONTH OF NOVEMBER CONTRACT E23 DMA-1210 (ASBESTOS)

During November two diamond drill holes, LH-9 and LH-10, were completed and a third, BL-1, is nearly completed. Winter weather conditions slowed progress to some extent but no serious trouble has been encountered. It is hoped to complete another hole, BL-2, approximately 400 feet from BL-1 in a northerly direction before shutting down drilling operations for the winter months. A Map showing the locations accompanies this report.

Results of the diamond drilling were as follows:

Hole LH-9

This hole is located 500' in a westerly direction from LH-8. The hole was drilled vertical to a depth of 301'. The overburden was 35 feet deep. The core showed a generally dark serpentine with veins and blotches of light green serpentine. The fibre is all very short and nearly all cross fibre. The veins are not over 1/8 inch in width. At 184 feet there is one showing of 3/4" fibre that is tough and tends to lie in sheets. It is very difficult to open. The fibre content of the hole will average 0.5 and 0.75%.

Hole LH-10

This hole is located 500' westerly from LH-9. It was drilled vertical to a depth of 299'. Overburden was 25' deep. The core showed a hard and rather dark serpentine that was somewhat broken. Most fractures were irregular and did not follow a pattern. Some may have been due to the drilling. Very little fibre was noted. The fibre is mostly cross, some 1/8 inch thick but most less than 1/16" inch. One showing of long fibre, over 1", at 194' had been jammed into a wad in drilling. The total fibre content of the hole will average less than 0.5%.

Hole BL-1

This hole is still in progress and to date shows no encouragement. A complete report will be given next month.

Geological Work

Due to snow and winter weather conditions field work has been somewhat limited. However some work has been done in attempting to work out a system of taking magnetic readings that can be carried on in the winter for reconnaisance. At present it appears that favorable work can be done in contact areas. Small serpentine bodies have been found close to the contacts of larger ones but apparently totally disconnected. By this magnetic reconnaisance work it is hoped to map these small bodies and their relation to contacts of the larger ones or to limit the areas where detailed mapping in the summer season will be required. A study of all the known serpentine bodies, both large and small, in this general locality will aid in determining the structure of any one. A knowledge of the structure will aid in the more favorable location of drill holes in the search for ore bodies.

Core Testing

Hole LH-4 (see report for month of Sept.) was milled in the core testing laboratory and showed a fiber content of 2.41%. The fibre recovered will be processed and tested at a later date to determine value.

D. M. A.

NOVEMBER 1951

	Hours Worked	Wages Paid	Social Security
A. Blanchard	16	$ 19.76	$ .30
R. Pion	64	74.19	1.11
B. Mason	72	83.46	1.25
A. Soule	176	206.16	3.09
G. Gosselin	7.6	11.54	.17
C. C. King	24	45.00	.68
J. K. Gilmore		300.00	4.50
Louis Jordan		473.11	7.10
		$1213.22	$18.20

J. B. Wheeler Professional services
Surveyor - Nov. invoice 360.00

D.M.A. Docket 1210

The men listed above on the DMA project are employed part time on this project and part time on company work and the time is necessarily prorated.

The Ruberoid Co.

J. K. Gilmore
Agent

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	440.11	2259.36	2699.47			
5. Supervision	1133.11	4017.97	5151.08			
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other		37.70	37.70			
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability	9.00	22.85	31.85			
(c) Workmen's Compensation	.60	1.53	2.13			
Other Insurance	33.97	87.56	121.53			
10. Contract Work	2162.88	9332.38	11495.26			
11. Other (specify)						
Total	3825.27	15862.31	19687.58			
Deletions						
Adjusted totals						
Totals previously reported	15862.31					
Totals to date	19687.58		19687.58			

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

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

FOR GOVERNMENT USE ONLY

Checked by H. L. Burmeister
Entered by
Approved by W. T. Miller for McHenry Moore
Amount approved for payment $3,442.74
Remarks No Social Security forms sent in for laborers requested last month.
On reverse the total under "Other" should be 2206.45

16—64068-3

Hold for payroll documents

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF November, 1951

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes				2162.88*	2162.88	Ft.	665.5'	2693.5	3359.0	
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify): Mapping	1573.22	45.60		43.57	1662.39					
Totals	1573.22	45.60		2194.73	3825.27	Ft.	665.5	2693.5	3359.0	

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

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

* Amount paid Joy Mfg. Co. (Contractor)
for Core Drilling 665.5' @ $3.25

NARRATIVE REPORT FOR MONTH OF JANUARY, 1952

CONTRACT E23 DMA 1210 (ASBESTOS)

During the month of January no field work was done except for the completion of drill hole BL-2 in the first of the month. Work was largely confined to preparation of a regional map covering Areas 1, 2, 3 and 5. This map will be used this coming summer for plotting and studying the regional geology. Rock specimen collected last season were marked and cataloged for further study and reference.

Diamond Drilling:

A map showing the location of drill holes accompanies this report.

Hole BL-2:

The hole was located approximately 400' from BL-1 in a northerly direction. It was drilled vertical to a depth of 305'. Overburden was 12' deep. The serpentine was the usual dark color with occasional mottled light green blotches. Carbonate veins were scattered throughout. Both slip and cross fibre were present in about equal amounts. The fibre was all short to extremely short except for one small seam of long and another small seam of fair length slip. The cross fibre was 1/16" and less. The core shows no possibility of ore. The fibre content will average less than 1/2 of 1%.

Core Testing:

The fibre recovered from Hole LH-4 (See reports of Sept. and Nov.) was processed and tested. The results show a yield of 2.36% and an ore value of $1.60 at today's prices. These figures check closely with the original estimate.

J. K. Gilmore

MF-104
(August 1951)

Vermont Asb

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E

Name of Operator Ruberoid Co., Vermont Asbestos Mines
Docket No. DMA 1210 - Asbestos
Total Contract Amount $ 71,600
Government Participation: 90 % Amount, $ 3939.98
Distribution of Expenditures for Month of October, 1951

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

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

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

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

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

CERTIFICATION

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

Ruberoid Co., Vermont Asbestos Mines,
(Name of Company)

By [signature]
(Signature of Authorized Official)

November 12, 1951
(Date)

Genl Supt.
(Title)

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

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]						
(b) Rented[2]	55.76	67.20	122.96			
(c) Furnished by operator						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

16—64068-3

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	336.74	1922.62	2259.36			
5. Supervision	300.00	3717.97	4017.97			
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other	—	37.70	37.70			
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability	5.02	17.83	33.85			
(c) Workmen's Compensation	.32	1.21	1.53			
Other Insurance	17.83	69.73	87.56			
10. Contract Work	3244.63	6087.75	9332.38			
11. Other (specify)						
Total	3939.98	11922.33	15862.31			
Deletions						
Adjusted totals	XXXXXXX		15873.31			
Totals previously reported	11922.33					
Totals to date	15862.31		15862.31			

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

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

FOR GOVERNMENT USE ONLY

Checked by [illegible]
Entered by
Approved by M Henry Mosier
Amount approved for payment $3545.98
Remarks

16—64068-3

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF October, 1951

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes			240.00	3004.63*	3244.63	Ft.	924.5	1769	2693.5	
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Mapping	636.74	35.76		22.85	695.35					
Totals	636.74	35.76	240.00	3027.48	3939.98	Ft.	924.5	1769	2693.5	

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

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

* Amount paid Joy Mfg. Co. (Contractor)
for Core Drilling 924.5' @ 3.25

MF-104
(April 1951)

Budget Bureau No. 42-R1036.
Approval expires 6-30-51.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

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

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

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

CERTIFICATION

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

Ruberoid Co., Vermont Asbestos Mines,
(Name of Company)

By [signature]
(Signature of Authorized Official)

October 9, 1951
(Date)

Genl Supt
(Title)

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

16—64068-1

MONTHLY SUMMARY COST STATEMENT

Name of operator Ruberoid Co., Vermont Asbestos Mines
Project No. DMA 1210 - Asbestos
Total contract amount $71,600
Government participation percent 90

Distribution of Expenditures for Month of September, 1951

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals to Date
Wages and salaries	2369.24	3,271.35	5640.59			
Equipment purchase [1]						
Equipment rental [2]	29.40	37.80	67.20			
Buildings						
Explosives						
Repair parts						
Other supplies		37.70	37.70			
Power						
Transportation						
Withholding taxes						
Compensation insurance	10.52	8.84	19.36			
Other insurance	38.34	31.39	69.73			
Contract work	2475.75	3612.00	6087.75			
Other (specify)						
Total	4923.25	6999.08	11922.33			
Totals previously reported	6999.08					
Totals to date	11922.33		11922.33			

FOR GOVERNMENT USE ONLY

Checked by Stanley A. Fritler
Entered by
Approved by McKenzie Glover
Amount approved for payment $4430.93
Remarks

[1] Enter total purchase price in month purchase is made.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.

16—64068-1

NARRATIVE REPORT - DMA-1210 (ASBESTOS) PERIOD: SEPT. 1951

During September four diamond drill holes were completed in Area 2; LH2, LH3, LH4 and LH5. Geological and survey work was continued in Area 2. The results obtained are as follows, and a map showing the drill hole locations accompanies this report.

Diamond Drilling:

Hole LH2 - Vertical hole, 301' deep. Located approximately 600' south of hole LH1. Overburden was 75' deep. The core showed a small amount of short slip fiber and a small amount of short cross fiber. None of the cross fiber veins were over 3/16" wide and only a few were over 1/8" wide. The rock showed considerable shearing similar to hole LH1.

The core was milled in the laboratory to determine the fiber content. Results showed about 2½% of short fiber. The value per ton was not sufficient to class the rock as ore.

Hole LH3 - Vertical hole, 205' deep. Located approximately 300' south of hole LH2. Overburden was 69' deep. The core showed a few fine seams of short fiber in the first 10'. The remainder of the core was nearly barren. The rock was sheared similar to holes LH1 and LH2 and many fine veins of calcite were distributed throughout the core. The fiber content of the hole was estimated at less than 1/2 of one percent.

Holes LH1, LH2 and LH3 were drilled in a pinched out end of the serpentine mass. They were so located that the possibilities of an ore body in this southern tip were eliminated. Due to the possibilities of mineralization in the vicinity indicated by hole LH2, it was decided to drill another hole to the north of hole LH1.

Hole LH4 - Vertical hole, 203' deep. Located approximately 500' north of hole LH1. Overburden 6' deep. The core was very similar to hole LH2, containing a small amount of short cross and slip fiber. Practically all of the cross fiber veins were less than 1/8" in width. The slip likewise was nearly all short except for one section from 161½' to 176' which showed some fair seams of 5 group and 4 group fibers and one seam of 3 group fiber. The fiber content was estimated at 2½%. The core will be milled in the laboratory at a later date to confirm the estimate and evaluate the core.

Hole LH5 - This hole was located about 1800' to the northwest of LH4 and on the southwest contact of the serpentine mass. The area between LH4 and LH5 is nearly all covered with overburden but magnetic readings indicated a schist peninsular which might indicate desired shearing in the serpentine at LH5.

The hole was drilled vertical to a depth of 199'. Ledge was encountered at 30'. From 30' to 85½' the core showed schist except for a small stringer of talcose serpentine at 60'. From 85½ to 96½' Talc was encountered and from 96½ to 199 barren serpentine.

Magnetic readings indicated the schist-serpentine contact about 200' southwest of the hole. As the hole showed the actual contact it seems probable to assume that the serpentine is dipping to the southwest at this point.

The next hole is located 1500' northly from LH5 and another 600' northly from this. These two will be on the eastern side of the mass where there are some outcrops showing a little fiber. It is planned to then proceed west across the mass with drill holes spaced at about 500' intervals. There are few outcrops on the western side of the mass but a detailed magnetic study of this area being made indicates favorable ground for drilling.

It may be found desirable to come back and drill a hole north of LH4 and east of LH5 after the drilling outlined above has been completed and analysed.

Geological and Survey Work:

Geological and survey work duri ng the period has been confined almost entirely to Area 2. During the first half of the period approximately six men were cutting lines and mapping outcrops. Druing the second half two to 4 men have been working to complete the lines. Magnetometer readings have been taken on a third of the stations established and are expected to be completed the next period.

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF September 1951

Name of operator Ruberoid Co., Vermont Asbestos Mines
Project No. DMA 1210 - Asbestos
Total contract amount $71,600
Government participation percent 90

Type	Number	Man-Shifts	Rate	Total
Miners			$	$
Muckers				
Trammers				
Timbermen				
Pumpmen				
Hoistmen				
Surface				
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters				
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent	1		Salary	300.00
Engineers				
Geologists	1		Contract	1000.00
Bookkeeper				
Foreman				
Clerks				
Stenographers				
Other	11	112	Various *	1069.24
Total	13	112		$2369.24

Note.—Show only that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by Stanley A. Fritler
Entered by
Approved by McKenzie Closser
Remarks

* Rates Per Hour

Student Helpers	$1.14
Laborers	1.07
Core Tester	250.00 Mo.

16—64068-1

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF September, 1951

Name of operator Ruberoid Co., Vermont Asbestos Mines
Project No. DMA 1210 - Asbestos
Total contract amount $71,600
Government participation, percent 90

Item	Costs					Progress				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes				2475.75*	2475.75	Ft.	737	1032	1769	
Overburden										
Rehabilitation and preparation										
Geology and geophysics	1000.00				1000.00					
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Mapping	1369.24	29.40		48.86	1447.50					
Totals	2369.24	29.40		2524.61	4923.25	Ft.	737	1032	1769	

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

16—64068-1 U. S. GOVERNMENT PRINTING OFFICE

* Amount paid Joy Mfg. Co. (Contractor)
for Core Drilling 322' @ 3.50
415' @ 3.25

FOR GOVERNMENT USE ONLY

Checked by Stanley A. Fritler
Entered by
Approved by McHenry Ulosier
Remarks

MF-104
(April 1951)

Budget Bureau No. 42-R1036.
Approval expires 6-30-51.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

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

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

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

CERTIFICATION

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

Ruberoid Co., Vermont Asbestos Mines
(Name of Company)

By [signature]
(Signature of Authorized Official)

Sept. 13, 1951
(Date)

Gen. Supt.
(Title)

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

16—64068-1

MONTHLY SUMMARY COST STATEMENT

Name of operator Ruberoid Co., Vermont Asbestos Mines
Project No. DMA 1210 - Asbestos
Total contract amount $71,600
Government participation percent 90

Distribution of Expenditures for Month of August, 1951

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals to Date
Wages and salaries	2266.30	1005.05	3271.35			
Equipment purchase [1]						
Equipment rental [2]	10.80	27.00	37.80			
Buildings						
Explosives						
Repair parts						
Other supplies	-----	37.70	37.70			
Power						
Transportation						
Withholding taxes						
Compensation insurance	4.82	4.02	8.84			
Other insurance	17.47	13.92	31.39			
Contract work	1939.00	1673.00	3612.00			
Other (specify)						
Total	4238.39	2760.69	6999.08			
Totals previously reported	2760.69					
Totals to date	6999.08		6999.08			

FOR GOVERNMENT USE ONLY

Checked by Wilton T. Millar
Entered by
Approved by McHenry Wilson 9-17-51
Amount approved for payment $3814.55
Remarks

[1] Enter total purchase price in month purchase is made.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.

16—64068-1

NARRATIVE REPORT - DMA-1210 (ASBESTOS) PERIOD: AUGUST, 1951

During August two diamond drill holes were completed in Area 1 (Holes R1 & P1), and one in Area 2 (Hole LH1). Geological and survey work was carried on in Area 2. The results obtained are as follows, and a map showing the drillhole locations accompanies this report.

1. Diamond Drilling:

Hole R1 - Area 1 - Vertical hole, 200' deep. Serpentine was encountered at 98', the overburden being the heaviest so far found in the area. The contractor doing the drilling (Joy Mfg. Co.) has developed a good procedure for drilling overburden based on oilfield practice. A "tri-cone" bit is used with Aquagel as the circulating fluid, and the drill is kept running until ledge is reached. The rate of progress varies between 5' and 10' an hour unless an unusual number of boulders must be drilled.

Very little asbestos was seen in the serpentine (98' to 200'), the fiber being short slip in very thin, scattered seams. The serpentine itself was blocky and gave little evidence of the type of shearing seen where fiber is found in abundance.

Hole P1 - Area 1 - Vertical hole, 207' deep. This hole was located 600' southwest of R1 to test the tip end of Area 1. The narrowing of the serpentine in this direction might have resulted in increased shearing and a better chance of finding fiber, but the drillhole showed conditions to be much the same as in R1. The overburden was 94' deep, and thereafter the serpentine carried thin, scattered seams of short slip fiber. As with Hole R1, the total estimated yield of fiber in P1 would be less than 1/2%.

The results of all the drilling in Area 1 (7 holes) have not been encouraging. The holes drilled prior to the start of this DMA contract were somewhat more interesting than R1 & P1 but still did not give any hope for a new orebody. Hence it was decided to discontinue drilling in Area 1 and move the equipment to Area 2.

Hole LH1 - Area 2 - Inclined at 45°, 233' long. This hole passed under some serpentine outcrops showing a small amount of slip fiber. There was still less fiber showing in the core, but one factor, highly sheared serpentine, was intrepreted as favorable. The shear planes were filled with calcite giving the rock the mottled appearance of verde antique. It seems likely that if the section of Area 2 being drilled (about 3 miles southwest of Hole F1) continues to be as well sheared as seen in the core of LH1, fiber will be found at some point in the vicinity. Thus at least two more holes will be located between LH1 and the south tip of the Leland Hill serpentine body.

2. Geological & Surveying Work

Six men were working in Area 2 during the period being reviewed. As the contact between serpentine and country rock is everywhere covered by overburden, it was necessary to use the magnetometer to work out the size of the serpentine mass. Furthermore, there will be several more drillholes located on Leland Hill and it was decided that a regular pattern of survey lines should be cut at 100' intervals and thus make possible an accurate magnetic map and also aid in the search for outcrops. The field party thus consisted of a geologist, a surveyor, a rodman and line cutters. Area 2 is quite large and a good deal of work will be needed to assess its fiber bearing possibilities.

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF August, 1951

Name of operator Ruberoid Co., Vermont Asbestos Mines
Project No. DMA 1210 - Asbestos
Total contract amount $71,600
Government participation percent 90

Type	Number	Man-Shifts	Rate	Total
Miners			$	$
Muckers				
Trammers				
Timbermen				
Pumpmen				
Hoistmen				
Surface				
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters				
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent	1		Salary	117.97
Engineers				
Geologists	1		Contractor	1642.31
Bookkeeper				
Foreman				
Clerks				
Stenographers				
Other	7	51	Various *	506.02
Total	9	51		2266.30

Note.—Show only that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by Wilton T. Miller
Entered by
Approved by McKenny Ulosier 9-17-51
Remarks

* Rates per Hour

Student Helpers	$1.14
Laborers	1.07
Core Tester	250.00 Mo.

16—64068-1

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF August, 1951

Name of operator: Ruberoid Co., Vermont Asbestos Mines
Project No. DMA: 1210 - Asbestos
Total contract amount: $71,600
Government participation, percent: 90

Item	Costs					Progress				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes				1939.00*	1939.00	Ft.	554	478	1032	
Overburden										
Rehabilitation and preparation										
Geology and geophysics	1642.31				1642.31					
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Mapping	623.99	10.80		22.29	657.08					
Totals	2266.30	10.80		1961.29	4238.39	Ft.	554	478	1032	

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

16—64068-1 U. S. GOVERNMENT PRINTING OFFICE

* Amount paid Joy Mfg. Co. (Contractor) for Core Drilling 554 ft.

FOR GOVERNMENT USE ONLY

Checked by: Wilton T. Millar
Entered by:
Approved by: McHenry Ulrich 9-17-51
Remarks:

COPY

CORE DRILLING AGREEMENT

1. THIS AGREEMENT, made and entered into this fifteenth day of May, 1951 by and between The Ruberoid Company of Hyde Park, Vermont the party of the first part and the JOY MANUFACTURING COMPANY, of Pittsburgh, Pennsylvania, party of the second part,

Witnesseth:

2. In consideration of certain payments hereby agreed to be made by the said first party to the said second party, the said second party hereby agrees to drill, sink or prospect with a diamond core drill from surface in or near Lowell, Vermont at sites to be selected by the said first party, subject to the conditions hereinafter mentioned. It is further agreed by the said first party that the depth of none of the herein specified drill holes shall exceed a depth of 300 feet, and the total amount as guaranteed must be drilled in not more than fifteen holes.

3. The said second party agrees to use for the above described work one Diamond Core drill, and men skilled in operating same; to operate the drill, both day and night whenever practicable, and to furnish only such persons as the said first party may designate by written order, all core taken out of said prospect holes. Size of core to be approximately 1 1/8" (AX) inches in diameter. The said first party shall provide suitable boxes if it desires to save the core, and if it also desires may have a man at the drill at all times to remove and take charge of said core. No information whatever regarding the records and results of this drilling is to be given any other party, without the written consent of the said first party.

4. The said first party hereby agrees to pay to said second party the following prices for the herein described drilling.

For a minimum of 2,000 feet of drilling	@ $3.50 per ft.
For all drilling in excess 2,000 feet	@ $3.25 per ft.

5. In accordance with this agreement, the said first party hereby guarantees the said second party a minimum total of 2,000 feet of drilling at the prices as herein provided in Clause Four.

The said second party shall have the option of withdrawing from this contract after a total of 2,500 feet have been drilled under the terms of this agreement.

In the event the said first party should stop the drilling before the guaranteed footage has been drilled, it agrees to pay the said second party half the price per foot for the undrilled balance, in addition to payment at full price for the footage actually drilled.

6. The party of the first part hereby guarantees to spot the drill holes not more than 1,500 feet from an ample source of water for drilling purposes.

7. The second party agrees to move the drilling equipment between holes free of any cost to the first party.

8. Should the party of the first part fail to perform its part of the contract to locate sites, as herein agreed, regardless of cause, or should the party of the first part issue instructions that delay operations for any reason or in any other way interrupt the continuous operation of the said diamond drill, it shall pay the second party the labor expense of drilling crew while idle through such delay at the rate of $30.00 per shift, consisting of 8 hours, for each shift or part thereof that the operations of the said drill is delayed.

9. The party of the second part agrees to cover its employees with Workmen's Compensation Insurance under the State Laws of Vermont and agrees to furnish the first party with insurance certificate as evidence of such coverage.

10. The payments for the herein described work are to be made on the fifteenth day of each month for all invoices rendered for work done up to the 25th day of the previous month.

11. The party of the second part hereby agrees to ship the outfit for the herein described work within five days from the date of notification of acceptance of this agreement, but the said second party shall not be responsible for delays caused by strikes, railroad accidents or blockades. This proposition is for immediate acceptance, but although accepted does not constitute a contract until approved by an officer of the Joy Manufacturing Company, at its office in Pittsburgh,

Pennsylvania, U.S.A., and is subject to change or withdrawal until so approved.

It is expressly agreed that there are no promises, agreements or understandings outside of this contract, and that no agent or salesman has any authority to obligate the Joy Manufacturing Company, by any terms, stipulations or conditions not herein expressed. This contract may be altered only by written consent of both parties hereto.

JOY MANUFACTURING COMPANY

By W. J. Pilarski

IN WITNESS WHEREOF, the parties hereto have set their hands and seals.

Accepted by

W. G. Cowan

The Ruberoid Co.

Title Vice-President

Approved By JOY MANUFACTURING COMPANY

By D. J. Burke

Date May 31, 1951

Title Treasurer

MF-104
(April 1951)

Budget Bureau No. 42-R1036.
Approval expires 6-30-51.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

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

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

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

CERTIFICATION

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

Ruberoid Co., Vermont Asbestos Mines
(Name of Company)

By Michael Jonesau
(Signature of Authorized Official)

August 15, 1951
(Date)

General Supt.
(Title)

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

16—64068-1

MONTHLY SUMMARY COST STATEMENT

Name of operator Ruberoid Co., Vermont Asbestos Mines
Project No. DMA 1210 - Asbestos
Total contract amount $71,600
Government participation percent 90%

Distribution of Expenditures for Month of July, 1951

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals to Date
Wages and salaries	1005.05		1005.05			
Equipment purchase [1]						
Equipment rental [2]	27.00		27.00			
Buildings						
Explosives						
Repair parts						
Other supplies	37.70		37.70			
Power						
Transportation						
Withholding taxes						
Compensation insurance	4.02		4.02			
Other insurance	13.92		13.92			
Contract work	1673.00		1673.00			
Other (specify)						
Total	2760.69		2760.69			
Totals previously reported						
Totals to date	2760.69		2760.69			

FOR GOVERNMENT USE ONLY

Checked by Wilton T. Miller
Entered by
Approved by McKenny Morrison 8/21/51
Amount approved for payment $2484.62
Remarks

[1] Enter total purchase price in month purchase is made.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.

16—64068-1

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

August 21, 1951

Mr. Michael J. Messel, General Supt.
The Ruberoid Company
Hyde Park, Vermont

Subject: Contract I-DMA-E23, DMA Docket 1210
Progress Report - July 1951

Dear Mr. Messel:

The Progress Report pertaining to the above contract for July 1951, which was transmitted through Mr. Cady, U.S.G.S., has been approved for payment in the amount of $2,484.62, which is 90 percent of the total expense listed (3,760.69). In due course you will receive a check from the Finance Officer, Bureau of Mines, Region VIII.
3760.69

As the amount claimed for drilling is less than that specified in the exploration project contract it would help in the audit of the next Progress Report if you could supply me with a copy of the drilling contract. I would also suggest that hereafter you forward monthly progress reports directly to me at College Park.

Yours very truly,

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

copy for COMittendorf

Narrative Report - DMA-1210 (Asbestos)

Period June 26 - July 31, 1951

The work done during the period consisted of diamond drilling in Area 1 and geological and surface magnetometer work in Areas 2 and 3. Ground surveying to establish controls was done in Areas 1 and 2. The following are the results of the above work, and a map accompanies this report showing the Areas and drillhole locations.

1. Diamond Drilling

Hole B-4 - Area 1 - Vertical hole, 192' deep. Overburden 22'. The core (AX size) showed a very lean asbestos mineralization, all short slip fiber. The core was ground and the fiber recovered in the Core Testing Laboratory, the result showing 1.6% fiber content in the serpentine, too low to be of economic interest.

Hole B-5 - Area 1 - Inclined hole at 45°, 200' in length. Overburden: None. The core showed the serpentine area penetrated to be nearly barren. The core testing is not yet completed but will show less than 0.5% fiber content.

Hole R-1 - Area 1 - Vertical hole, drilling. At 86' this hole was still in overburden.

2. Geological - Surface Magnetometer Work

The field work consisted of studying the outcrops within and around the serpentine areas with particular attention paid to any indications of asbestos fiber, or serpentine sufficiently well sheared to be potentially fiber bearing. Where overburden blankets the outcrops the magnetometer was used to follow the serpentine and also locate contacts between serpentine and country rock (various schists). The chief purpose of this work was to guide the diamond drilling and also to enlarge the known serpentine areas by extending their boundaries under overburden.

The personnel involved in this work included the Mine Geologist (who likewise supervises the entire project); student helpers (geological students); and "laborers" (local men who are expert line cutters). The Consulting Geologist worked with any of the parties as occasion required and planned the work with the Mine Geologist.

In the period under review the parties were working in Areas 2 and 3 and there is nothing of special note to report. Progress was made in establishing the boundaries of the serpentine masses and a location for a drillhole in Area 2 was established based on fiber-bearing serpentine outcrops and proximity to a buried serpentine-schist contact. It will be understood that a good deal of detailed work will be required in several of the Areas where ground has been optioned and therefore for several months to come the same type of work will be underway in any Area without reaching a final conclusion regarding the existence of an asbestos orebody.

3. Ground Surveying

In Areas 1 and 2 control lines were run in order to define the limits of the properties under option and also to give points of reference to which the geological and magnetometer work could be tied. The surveyor-engineer is capable of making geological observations as his work progresses and thereby aids the field parties which work behind him. Working with the surveyor were student helpers plus 2 or more line-cutters. This surveying work, like the geologic-magnetometer work, will continue throughout the life of this project.

General Summary

No discoveries were made of special interest although useful information was obtained on the location of hidden serpentine-schist contacts. The drilling at the north end of Area 1 was not encouraging and the drill was moved to the south end where Hole R-1 is in progress.

It should perhaps be noted here that in the interest of flexibility and getting the most out of the money to be spent in this DMA project, some suggested

changes in the DMA contract may be offered in a separate letter.

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF July, 1951

Name of operator Ruberoid Co., Vermont Asbestos Mines
Project No. DMA 1210 - Asbestos
Total contract amount $71,600
Government participation percent 90%

TYPE	NUMBER	MAN-SHIFTS	RATE	TOTAL
Miners			$	$
Muckers				
Trammers				
Timbermen				
Pumpmen				
Hoistmen				
Surface				
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters				
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent	1		Salary	300.00
Engineers - Surveyor	1		Contract	150.00
Geologists	1		Contract	357.69
Bookkeeper				
Foreman				
Clerks				
Stenographers				
Other	7	23	1.07 & 1.14	197.36
TOTAL	10	23	See Below *	1005.05

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

FOR GOVERNMENT USE ONLY

Checked by Walton D. Miller
Entered by
Approved by McHenry Moore 8/21/51
Remarks

* Student Helpers Rate is $1.14 Per Hr. instead of $1.17 As Shown in Exhibit "D"

16—64068-1

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF July, 1951

Name of operator Ruberoid Co., Vermont Asbestos Mines
Project No. DMA 1210 - Asbestos
Total contract amount $71,600
Government participation, percent 90%

Item	Costs					Progress				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes			32.00	1673.00*	1705.00	Ft.	478		478	6,500
Overburden										
Rehabilitation and preparation										
Geology and geophysics	357.69		5.70		363.39					
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Mapping	647.36	27.00		17.94	692.30					
Totals	1005.05	27.00	37.70	1690.94	2760.69	Ft.	478		478	6,500

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

16—64068-1 U. S. GOVERNMENT PRINTING OFFICE

FOR GOVERNMENT USE ONLY

Checked by William P. Millar
Entered by
Approved by McKenny Mosier 8/21/51
Remarks

* Amount Paid Joy Mfg. Co. (Contractor)
For Drilling 478'

MF-104
(August 1951)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E _____

Name of Operator Ruberoid Co., Vermont Asbestos Mines
Docket No. DMA 1210-Asbestos
Total Contract Amount $ 71,600
Government Participation: 90 % Amount, $ 1844.42
Distribution of Expenditures for Month of December, 1951

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

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

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

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

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

CERTIFICATION

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

Ruberoid Co., Vermont Asbestos Mines
(Name of Company)

By [signature]
(Signature of Authorized Official)

January 15, 1952
(Date)

Gen'l. Supt
(Title)

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

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]						
(b) Rented[2]	7.20	148.56	155.76			
(c) Furnished by operator						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

D. M. A.

DECEMBER, 1951

	Hours Worked	Wages Paid	Social Security
A. Blanchard	16	$19.76	$ .30
B. Mason	24	27.82	.42
A. Soule	32	37.09	.55
J. K. Gilmore		300.00	4.50
Louis Jordan		341.54	5.12
		$726.21	$10.89

D.M.A. Docket 1210

The men listed above on the D. M. A. project are employed part time on this project and part time on Company work, and the time is necessarily prorated.

THE RUBEROID CO.

J. K. Gilmore

AGENT

NARRATIVE REPORT FOR MONTH OF DECEMBER

CONTRACT E23 DMA-1210 (ASBESTOS)

During December one drill hole, BL-1 was completed and another, BL-2 was nearly completed. Severe winter weather caused freezing water lines which shut down operations two and three days at a time. However, drilling was resumed and the hole completed the first part of January.

Upon completion of Hole BL-2, drilling operations were stopped for the winter and will not be resumed until weather conditions permit, probably in April or May.

A map showing the locations of the drill holes accompanies this report.

Results of the diamond drilling were as follows:

Hole BL-1

This drill hole was located near the center of the southern half of a serpentine mass in Area 3. The northern half of this mass, called the "Carter Farm", had several outcrops showing a fair amount of cross fibre. Drilling there showed the mineralized areas to be spotty. Holes BL-1 and BL-2 were drilled to see if mineralization in the southern half might exist.

BL-1 was drilled vertical to a depth of 297'. Overburden was 12' deep. The core showed a generally dark colored serpentine with light green blotches. Slip and cross fibre were scattered throughout the hole. The slip fibre was short and in fine seams. The cross fibre was all less than 1/16" wide. The fibre content of the hole would average less than 0.5%.

Hole BL-2

This hole was located approximately 400' from BL-1 in a northerly direction. The hole was not completed until January and a full report on the core will be made in January's report. The hole shows no encouragement.

Geological & Survey Work

Very little field work was accomplished due to weather conditions. Geological work has therefore been confined to compiling data and working on maps.

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	84.67	2699.47	2784.14			
5. Supervision	641.54	5151.08	5792.62			
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other		37.70	37.70			
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability	4.81	31.85	36.66			
(c) Workmen's Compensation	.37	2.13	2.50			
Other Insurance	20.33	121.53	141.86			
10. Contract Work	1085.50	11495.26	12580.76			
11. Other (specify)						
Total	1844.42	19687.58	21532.00			
Deletions						
Adjusted totals						
Totals previously reported	19687.58					
Totals to date	21532.00		21532.00			

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

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

FOR GOVERNMENT USE ONLY

Checked by T. O. Burmeister
Entered by
Approved by McHenry Mosier
Amount approved for payment $1659.98
Remarks

16—64068-3

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF December, 1951

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes				1085.50*	1085.50	Ft.	334'	3359.0'	3693.0'	
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Mapping	726.21	7.20		25.51	758.92					
Totals	726.21	7.20		1111.01	1844.42	Ft.	334'	3359.0'	3693.0'	

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

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

* Amount paid Joy Mfg. Co. (Contractor)
for Core Drilling 334' @ $3.25

FAIRVIEW SHOPPING CENTRE
POINTE CLAIRE, QUE.
Telephone: 695-3386

Dr. Duncan J. Kennedy

Orthodontist

25th August, 1969

OFFICIAL
COPY
O. M. E.
RECEIVED
SEP 2 1969
INITIALS | CODE
~~130~~
~~HK 120~~
~~EP~~ V20 P
V20

Mr. Harold Kirkemo,
Chief of the Office of Mineral Exploration,
United States Dept. of National Geological Survey,
Washington, D.C.,
U.S.A.

Dear Mr. Kirkemo,

Re: DMA-1210 (Asbestos).
Rubberoid Co.
Vermont Asbestos Mines.
Orleans & Lamoille Counties, Vermont.
Contract IDM-E.23

Thank you kindly for your letter and enclosures received on 21st August, 1969. I have already been in contact with Cooper Trent Inc. as regards this matter.

Thank you for your prompt attention.

Yours very truly,

Duncan J. Kennedy

Duncan J. Kennedy

DJK/jp

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
8/19/69	Pstein	120
		120
		220

AIRMAIL

AUG 19 1969

Dr. Duncan J. Kennedy
Fairview Shopping Centre
Pointe Claire, Quebec,
Canada

Re: DMA-1210 (Asbestos)
Rubberoid Company
Vermont Asbestos Mines
Orleans and Lamoille
Counties, Vermont
Contract Idm-E23

Dear Dr. Kennedy:

In reference to your request of August 11 the following material is available:

1. Six maps numbered 4 thru 9 showing drill hole locations in areas A, B, C, D1, D2, D3, and E, Scale 1" = 1320', size 8-1/2" x 11".

2. Three maps numbered 10 thru 12 showing results of magnetometer survey of project area, scale 1" = 200' and 1" = 400', size 8-1/2 x 11".

3. Logs of all holes drilled under the subject contract, 43 pages, size 8-1/2 x 11".

Copies of this material may be obtained by contacting:

Cooper-Trent, Inc.
1521 North Danville Street
Arlington, Virginia 22201
Attention: Mr. Marvin Mundy

Please send the enclosed copy of this letter to Cooper-Trent with your letter of instructions when ordering copies of the above material. Cooper-Trent will contact you regarding cost of reproductions. All further correspondence relating to procurement of copies of the material should be with the above company and not with this office.

Sincerely yours,

Harold Kirkemo (gfa)

Harold Kirkemo, Chief
Office of Minerals Exploration

Enclosure

For the attention of Mr. Mundy:

Please return the enclosed material to:

Mr. Harold Kirkemo
Office of Minerals Exploration
U. S. Geological Survey
Room 4460, Interior Department
Washington, D. C. 20242

cc: Director's Reading File
Economic Geology File
OME File
OME Reading File
OME Region IV Knoxville, Tennessee
Mr. Peterson
130

ECPeterson/bsl 8/19/69

FA[illegible]W SHOPPING CENTRE
POINTE CLAIRE, QUE.
Telephone: 695-3386

Dr. Duncan J. Kennedy

Orthodontist

11th August, 1969

Mr. Edward Peterson,
Office of Mining Exploration,
United States Geological Surveys,
Washington, D.C.,
U.S.A. (20242)

Dear Mr. Peterson,

Thank you for your letter of June 4th, and sorry for the delay in not answering your prompt response, but I have been on vacation.

Would you kindly forward this data to Mr. Gordon Gibbs, Mining Engineer, 100 Adelaide St. West, Toronto, Ont., Canada, and send me a statement of expenses to my address.

Yours very truly,

Duncan J. Kennedy
JJP

Duncan J. Kennedy

DJK/jp

Copy to:-

Mr. G. Gibbs

30th March, 1969

Edward Peterson, Esq.
Office of Mining Exploration
United States Geological Surveys
Washington, D. C. 20242

Dear Mr. Peterson:

We are the present owners of the following lands:

675 acres in the Town of Lowell as recorded in Book 24 at Page 307 of the Land Records of said Town of Lowell.

We have granted an option to purchase the said lands to Doctor Duncan J. Kennedy of Pointe Claire, Quebec and hereby request that you make available to him any and all information which may be on file with your department pursuant to the work performed under ~~ODM~~ DMA Contract No. 1210 .

Yours very truly,

Hector & Vinalda Raboin

Hector Raboin
Vinalda Raboin

Re: DMA Contract No. 1210 (3) Bliss Farm, Town of Lowell

Lots 18 and 19 Range 7, approx. 200 acres

Lowell
Vermont

Re DMA Contract No. 1210 (1) Brown's Ledge Area, Town of Lowell.

This property includes the F.M. Racicot farm - approx. 180 acres, Lot 21, Range 9 and 10, and the H. Raboin farm approx. 160 acres - Lot 20, Range 9 and 10.

Duncan J. Kennedy (Dr.)
Fairview Centre,
Pointe Claire, Que., Canada.

30th March, 1969

Edward Peterson, Esq.
Office of Mining Exploration
United States Geological Surveys
Washington, D. C. 20242

Dear Mr. Peterson:

We are the present owners of the following lands:

430 acres in the Town of Westfield
as recorded in Book 15 at Page 419 of
the said Westfield Town Land Records

We have granted an option to purchase the said lands to Doctor Duncan J. Kennedy of Pointe Claire, Quebec and hereby request that you make available to him any and all information which may be on file with your department pursuant to the work performed under ~~ODM~~ D.M.A. Contract No. 1210 .

Yours very truly,

Rosaire & Lorette Laplume

Rosaire & Lorette Laplume

Westfield
Vermont

Re: DMA Contract Area No. 1210 (1) Brown's Ledge area, Town of Lowell

This property includes the 200 acres lots 3 and 4, Town of Westfield as discussed in your letter of June 4, 1969

Duncan J. Kennedy (Dr.)
Fairview Centre,
Pointe Claire, Que., Canada.

30th March, 1969

Edward Peterson, Esq.
Office of Mining Exploration
United States Geological Surveys
Washington, D. C. 20242

Dear Mr. Peterson:

We are the present owners of the following lands:

> 450 acres in the Town of Lowell as recorded in Book 22 at Page 163 of said Land Records of Lowell; also recorded in Book 15 at Page 488 of the Town of Westfield Land Records and by deed from Horace S. Richardson and Olive Richardson recorded in Book 23 at Page 427 of the Land Records of said Town of Lowell and in Book 17 at Pages 139-140 of the said Westfield Town Land Records.

We have granted an option to purchase the said lands to Doctor Duncan J. Kennedy of Pointe Claire, Quebec and hereby request that you make available to him any and all informatinn which may be on file with your department pursuant to the work performed under ODM DMA Contract No. 1210 .

Yours very truly,

Anselme R. & Hilda B. Pion

Anselme Pion
Hilda B. Pion

Westfield
Vermont

Re: DMA Contract Area No. 1210 (1) Brown's Ledge area, Town of Lowell

This property includes the H.S. Richardson farm approx. 280 acres in Lot 18 Range 12, Lots 18 and 19 Range 11. Discussed in your June 4, 1969 letter.

Duncan J. Kennedy

Duncan J. Kennedy (Dr.)
Fairview Centre, Pointe Claire, Que., Canada.

7th April, 1969

Edward Peterson, Esq.
Office of Mining Exploration
United States Geological Surveys
Washington, D. C. 20242

Dear Mr. Peterson:

I am the present owner of the following lands:

> 117 acres in the Town of Lowell as recorded in Book 18 at Page 368 of the Land Records of said Town of Lowell

I have granted an option to purchase the said lands to Doctor Duncan J. Kennedy of Pointe Claire, Quebec and hereby request that you make available to him any and all information which may be on file with your department pursuant to the work performed under ~~ODM~~ DMA Contract No. 1210 Contract No. .

Yours very truly,

Ara J. Pope

Ara J. Pope

Lowell
Vermont

Re: Contract DMA No. 1210 (1) Brown's Ledge area, Town of Lowell

This property is on Lot 17, Range 9, and includes 50 acres discussed in your June 4th letter, 1969.

Duncan J. Kennedy (Dr.)
Fairview Centre, Pointe Claire, Que., Canada.

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 12110X

Date received 5-21-51

Participation

The Ruberoid Co.,
Vermont Asbestos Mines Div.,
Hyde Park, Vt.

Name and address of applicant

Date May 18, 1951

FILL IN THIS BLOCK

Date of application May 18th, 1951

Estimated cost $85,100

Mineral or metal Chrysotile Asbestos Fibre

Percentage of Government participation 90%

Location of mine Lowell, Vermont, U. S. A.

Date of filing MF-100

DMA Docket Number, if available dma 12110X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

The RUBEROID Co.
500 FIFTH AVENUE
New York, N. Y.

THE PROPERTY

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

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

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

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

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

THE EXPLORATION

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

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

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

The RUBEROID Co. (Name of company)

By W F Curran (Signature of authorized official)

May 18, 1951 (Date)

Vice-President (Title)

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

*Same as footnote on page 1.

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

REPLIES TO QUESTIONS - FORM MF-1

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER NO. 5 UNDER DEFENSE PRODUCTION ACT - 1950

Note: This includes application for funds on property outside the 2500 acres on which our present operation is located, namely the Lowell property which we have or may have under option.

(1) The Ruberoid Co., a Corporation.

(2) Not applicable.

(3) See MF-100

(4) See MF-100

(5) Owner of approximately 2500 acres, but application for funds to cover only property under option for exploration purposes.

(6) None

(7) Not applicable.

(8) See Annual Report attached.

(9) Yes, sufficient to cover our 10% of the cost which amounts to $8,510.

(10)

(a) See attached U.S.E.S. map showing areas to be explored or drilled which we have under option or will acquire, but does not include present operating property.

The areas are in the serpentine belt between our present mine and the Canadian border in the Townships of Lowell, Westfield, Troy and Eden, Vt.

(b) (1.) Brown Ledges Area - Town of Lowell

H. S. Richardson Farm - approx. 280 acres - Lots 18, Range 12
Lots 18-19, Range 11
F. M. Racicot Farm - approx. 180 acres - Lots 21, Range 9 & 10
H. Rabion Farm - approx. 160 acres - Lot 20, Range 9 & 10
Ira Pope Farm - approx. 50 acres - Lot 17, Range 9
Laplume Farm - 1/2 mineral interest - 200 acres - Lots 3 & 4, Town of Westfield

(2.) Leland Hill Area - Town of Lowell

H. A. Parker - 50 acres - Lot 12, Range 9
Quentin L. Elliott - 370 acres, Lots 10 & 11, Range 9; Lots 8, 9 & 10, Range 8
Belrose Farm - 30 acres (not yet optioned)
J. S. Brahana - 45 acres - Lot 12, Range 10 (not as yet optioned)

(3.) Carter Farm - Bliss Farm Area - Town of Lowell

1/4 interest - Mineral Rights - Lots 18 & 19, Range 7, approx. 200 acres.
Bliss Farm - Lots 15, 16 & 17, Range 7 - approx. 250 acres.
Morse Farm - Lot 14, Range 7 - 100 acres (not as yet optioned)

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New York, N. Y.

(4.) From Town of Eden to Long Pond Area general surface exploration on area of approx. 500 acres.

(5.) There maybe other areas which will be revealed as magnetometer and survey work progresses, such as Eden Notch South School Area.

(11) The Ruberoid Co., Vermont Asbestos Mines Division.

(12) See MF-100

(13) See MF-100

(14) Core testing and Fibre Research Laboratory for evaluating the cores and testing length and quality of fibre.

(15) This will depend on ore value, however, if with 5 to 6 miles of present operation, ore could be conveyed by belt or tramway to present mill.

(16) See MF-100

(17) New exploration areas not yet in production.

(18) Not applicable until after exploration program is completed.

(19) Asbestos surface showings in parts of these areas have been known for some time, but much of the area is covered by overburden which makes exploration difficult and expensive. However, there still remains good possibilities of discovery of new workable deposits on this serpentine belt which should have further exploration work done on them.

(20) Chrysotile asbestos deposits which will yield as good percentage of Group 3 and 4 fibres, however there is no such thing as a purely economical long fibre deposit, some short fibre has to be produced in order to recover the longer fibres which vary from 5 to 15% of the total production.

(21) The area in question will cover approx. 2500 acres along the serpentine belt between our mine and Canada, much, of which, is covered by overburden.

The first step in the program is to have an aerial magnetometer survey made to more accurately define the serpentine areas. This is followed by ground magnetometer work and geological mapping and prospecting by field parties. The more favorable areas are defined and then surveyed, optioned from the Owners and the ground laid out for diamond drilling. After the property is drilled, the cores are logged and then milled in a Core Testing Laboratory to get percent of fibre content, fibre length and quality. From this data economical limits of the deposit are defined.

The present program as laid out is to be started in June, 1951 (though some preliminary work is already under way) and is to be completed in the autumn of 1952 or in about 18 months.

The program for 1951 consists of aerial magnetometer survey, geological mapping by a field party and drilling of the Carter Farm area, Brown Ledges and Leland Hill area with 12 to 15 holes.

The program for 1952 consists of more intensified ground geological mapping by two field parties and about 20 to 25 diamond drill holes with core laboratory work.

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(21) (continued)

The project will be managed by Michael J. Messel, General Superintendent of the Vermont Mine, together with Mr. W. B. Millar who is the Consulting Geologist. Mr. Gilmore is the supervisor of exploration and Mr. John K. Stewart will be in charge of surveying and mapping. This is part of our present staff who, with the exception of Mr. Messel, will devote at least half of their time to work on this project.

(22) See attached report by Mr. W. B. Millar, Consulting Geologist.

(23) (See attached budget - Years 1951 & 1952)

(a) 6 Laborers @ $1.07 hr. 3 Students @ $1.17 hr. 1 Rod Man @ $1.17 hr.		$13,000
2 men - Core Testing Laboratory - 3 months		1,500
(b) Supervisors		
W. B. Millar - Consulting Geologist	$8,000	
J. K. Gilmore - Supervisor of Exploration	5,400	
J. K. Stewart - Surveyor & Mapping	5,400	18,800
(c) None		
(d) None		
(e) None		
(f) Diamond Drilling by Contract - approx. 6500 ft.		27,500
(g) Jeep Wagon & 3/4 ton Pick-up Truck for transporting field parties, field work, etc. (all instruments will be supplied by Company free of rental)		1,800
(h) Cost of materials and supplies such as core boxes, material for repairing fences, paying damages on right of way, axes, hammers		1,500
(i) (1) Aerial Magnetometer survey of area by Aero Service Corp., Philadelphia		11,000
(2) As Mineral and Surface Rights are held by the Farm Owners, options have to be obtained before any prospecting can be done. Cost of options on approx. 2500 acres for one year, renewable for one year, which gives Company right to purchase property outright at end of 2 years, and gives permission to do present exploration work		10,000
Total Budget - 1951 & 1952		$85,100

(24) Due to weather conditions, the major part of the exploration work is confined to the period from May to October of each year, or a period of about six months.

The attached budget shows the work to be accomplished during the season of 1951 and 1952. Briefly, starting May or June, 1951, we will start field mapping and prospecting based on results of the Aerial Magnetometer map in the areas No. 1, 2, 3 and 4, followed by diamond drill program starting about June 15th. This work will continue through until October 1951, after which time the cores will be carefully logged and tested in the Laboratory.

The program for 1952 will consist of more intensified field work on Areas 4 & 5 with two field parties, and more drilling in the more favorable areas and testing & logging of the cores.

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New York, N. Y.

A report will be furnished at the end of each season to show progress made, results obtained and exact expenditures incurred, but budget will be followed very closely.

The RUBEROID Co.
500 FIFTH AVENUE
New York, N. Y.

WILLIAM B. MILLAR
CONSULTING MINING GEOLOGIST

GEOLOGIC BASIS FOR ASBESTOS EXPLORATION IN NORTHERN VERMONT

To date the only commercial asbestos deposits found in Northern Vermont occur on the easterly slopes of Belvidere Mt., Lowell and Eden Townships, on the property of the Vermont Asbestos Mines, Division of The Ruberoid Co. An extensive program of exploration will be necessary to show whether other deposits exist either to the north or south, and the purpose of this report is to present briefly the geologic evidence which forms a background to and encourages the considerable expenditures needed to complete such exploration.

GEOLOGY AT VERMONT ASBESTOS MINES

More than 50,000 feet of diamond drilling and two large open pit mines, plus widespread geologic study over the area have combined to give a fairly complete understanding of the geology of the asbestos deposits on Belvidere Mt. Further information will be had at a later date when deep drilling is undertaken. It is evident that certain factors are important to the localization of asbestos ore, and some of these are listed as follows:

1. The peridotite intrusives which were subsequently metamorphosed to serpentine and fiberized have a definite spatial relation to the enclosing country rocks, schists of varying character. Rock structures are involved, frequently complex, but basically of a nature which allowed enormous shearing stresses to be relieved within the serpentines. The end result as now seen is the infinite number of shear planes along which

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the asbestos fiber was formed. A serpentine mass without a well developed shearing will not be well fiberized, and as a corollary to this, where the sought for shearing is seen on adjacent outcrops, exploration under overburden is often warranted even though the fiber content of the outcrops is low or negligible.

2. Contact zones between serpentine and certain of the schists are likely areas for finding fiber. Magnetometer surveys can locate such contacts under overburden and give a basis for diamond drilling.

3. It seems probable that the basic rocks intruded in the long serpentine belt which extends from Newfoundland to Alabama, a belt containing all the Quebec asbestos deposits as well as those in Vermont, were of varying composition- peridotite, pyroxenite, dunite, etc. In the Belvidere Mt. area peridotite is the most favorable original rock, and hence serpentines derived from any other rock type are considered to have less chance of producing ore deposits in the general area to be explored.

4. Finally, the combination of geologic structure, contacts, and rock types result in a magnetic pattern indicating a favorable setting for the occurrence of fiber. Under deep overburden only drilling can give conclusive results, but at least one can avoid drilling in relatively unfavorable or hopeless areas.

EXPLORATION IN NORTHERN VERMONT

The data gained from detailed studies at Vermont Asbestos Mines are used as a guide in exploration work off the property. The

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New York, N. Y.

fact that only some 2% of the serpentine masses known both north and south of Belvidere Mt. outcrop is, of course, a great hindrance to easy prospecting. Furthermore, the less fiberized parts of any serpentine mass are more likely to be outcropping since highly sheared serpentine is readily eroded. Nevertheless, our studies have shown a number of areas not on Belvidere Mt. (see accompanying map) where one or more of the favorable conditions for fiber formation are present, and we thus propose to center our exploration work in such areas. The search may be somewhat difficult and take more time than would be desired, but utilizing the knowledge already gained, plus adequate financing, the chances of finding further asbestos deposits in Northern Vermont seem reasonably good.

W. Smilly

Consulting Geologist,
The Ruberoid Co.

Hyde Park, Vermont.
May 14, 1951.

The RUBEROID Co.
500 FIFTH AVENUE
New York, N. Y.

The RUBEROID Co.
500 FIFTH AVENUE
New York, N. Y.

1950

ANNUAL REPORT

The RUBEROID Co.

64th year

The data herein are published solely for the information of the company's stockholders. No statement in this booklet is made for the purpose of inducing the purchase of any security issued by the company.

TO OUR STOCKHOLDERS

Your company's financial statements for 1950—its 64th fiscal year—are submitted herewith. In this annual report I shall endeavor to provide you with pertinent facts about the company's current operations and future outlook.

Earnings

Net earnings in 1950 amounted to $5,105,312, equivalent to $9.64 per share, on the 529,478 shares outstanding at the close of the year, compared with net earnings in 1949 of $4,198,300, equivalent to $7.93 per share, adjusted to the same number of shares.

Earnings before taxes in 1950 reached an all-time high of $9,450,695. Due, however, to the Government's greater requirements for revenue, the company's net earnings after taxes were substantially reduced by the increase in the Federal income tax during the year and also by the recent enactment of the excess profits tax retroactive to July 1, 1950. As a result, it was necessary to provide for estimated Federal taxes amounting to $4,345,383, compared with $2,897,959 in the previous year.

A comparison of the net earnings during the past ten years is shown in *Figure 1.*

Dividends

Cash dividends in 1950 amounted to $1,684,697, or $3.50 per share, compared with $1,422,145, or $3.25 per share in 1949.

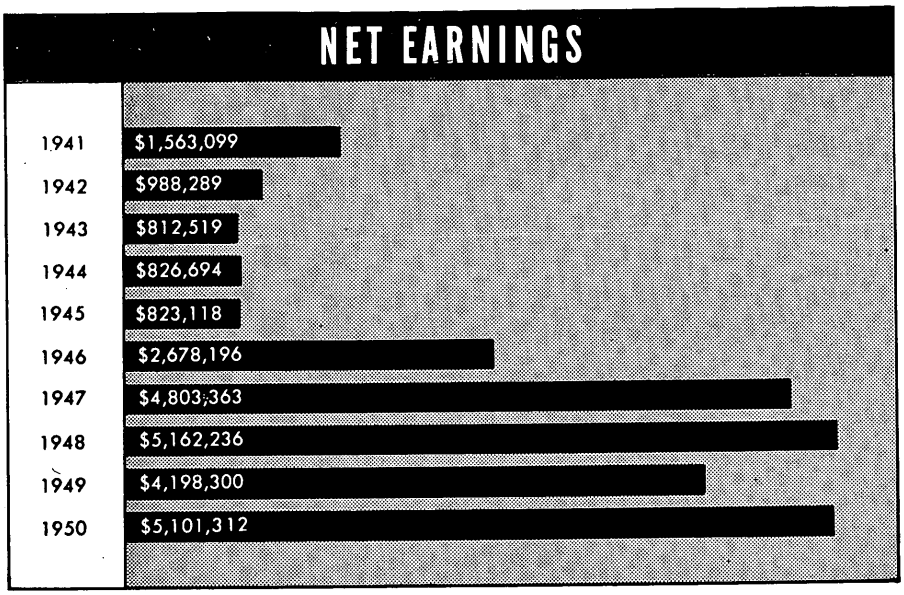


FIGURE 1

In addition, as in 1948 and 1949, a stock dividend of 10 per cent was distributed in December 1950. Although during the past three years stock dividends have been distributed, capitalizing a portion of the company's earnings reinvested in the business, it does not follow that this policy will be continued should earnings be depleted by higher taxation, or in the event of changed conditions.

At the close of the year 61.9 per cent of our stockholders held less than 100 shares each, and no one stockholder held as much as 5 per cent of the total shares outstanding.

Sales

Net dollar sales in 1950 broke all prior records, amounting to $61,925,242, compared with $50,267,987 in 1949. The company's net sales during the past ten years are shown in *Figure 2*.

Our sales in 1950 followed very closely the normal seasonal

pattern, except in the last three months of the year when they exceeded those in any previous fourth quarter.

The price index of Ruberoid products included in the table on page 11 will show that our increases since 1941 have been most conservative, amounting to less than one-fourth of the average increase in all types of construction materials.

Figure 3 shows how each dollar received from our customers was utilized in 1950.

Capital Improvements

Appropriations for plant additions and improvements in 1950 amounted to $3,634,813, compared with a depreciation charge of $1,261,148. During the past ten years, as indicated in *Figure 4*, $21,140,747 have been appropriated for such purposes, of which approximately $3,453,546 remained unexpended at the close of 1950.

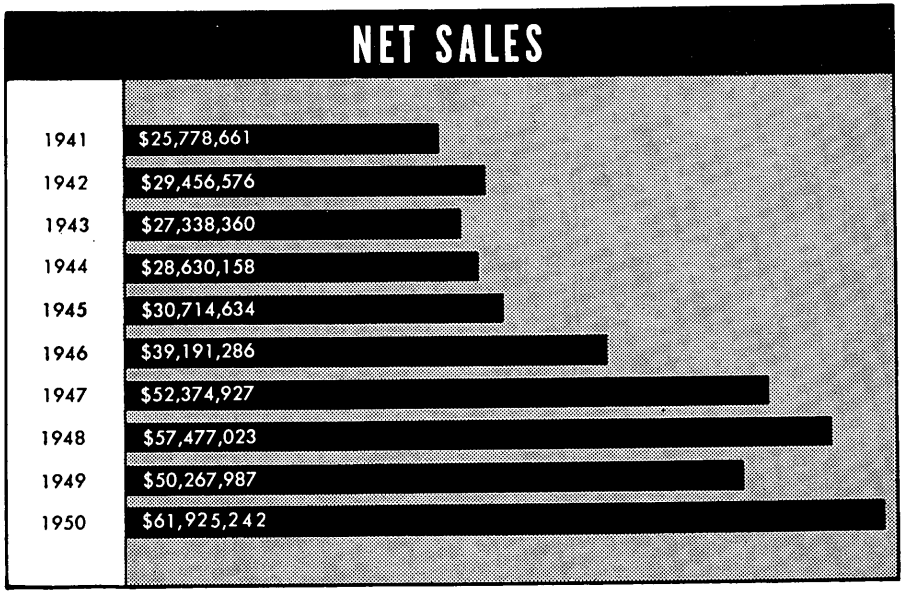


FIGURE 2

COMPARISON OF THE COMPANY'S BUSINESS

	1950	1949
Net Sales:		
Dollars (net)	$61,925,242	$50,267,987
Tonnage	1,083,039 tons	882,919 tons
Price realized per ton	$57.18	$56.93
Per share of stock	$116.96	$94.94*
Net Earnings:		
Total	$5,105,312	$4,198,300
Percentage of sales	8.2%	8.4%
Per share of stock	$9.64	$7.93*
Cash Dividends:		
Total	$1,684,697	$1,422,145
Percentage of net earnings	33.0%	33.9%
Per share of stock	$3.50	$3.25
Shares of capital stock outstanding at year end	529,478	481,344
Number of stockholders	2,526	2,427
Wages and Salaries:		
Total	$15,965,729	$13,338,719
Percentage of sales	25.8%	26.5%
Average number of employees	4,358	4,037
Direct Taxes:		
Total	$5,086,710	$3,447,859
Per share of stock	$9.61	$6.51*
Percentage of cash dividends	302%	242%
Percentage of net earnings	99.6%	82.1%
Current Position:		
Current assets	$16,793,699	$18,657,618
Current liabilities	$2,337,140	$1,642,255
Ratio current assets to current liabilities	7.2 to 1	11.4 to 1
Book Value of Capital Stock Per Share:		
Working capital	$27.30	$32.14*
Properties and investments (net)	$38.89	$28.43*
Other liabilities and reserves	*$ 2.68*	*$ 3.52**
Stockholders' equity	$63.51	$57.05*

*Adjusted to 529,478 shares outstanding at the close of 1950.

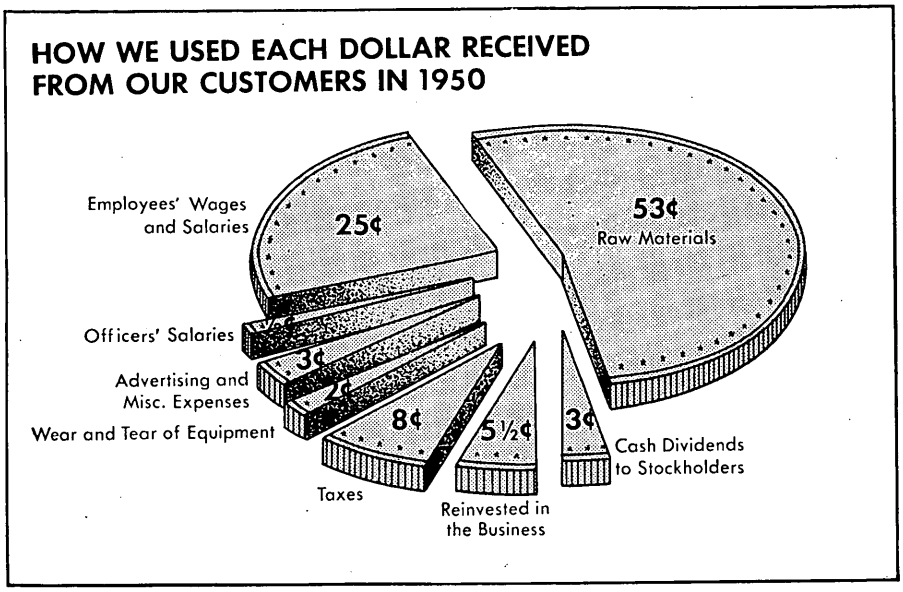


FIGURE 3

The established policy of reinvesting a portion of our earnings in capital improvements has resulted in greater efficiency and economy in our manufacturing operations, the development of new and improved products, increased production, and better service to our customers.

Operations

The average number of employees in 1950 was 4,358, compared with 4,037 in 1949. Wages and salaries paid during 1950 amounted to $15,965,729, an increase of $2,627,010 over the previous year. Our stockholders' investment in the company at the close of 1950 amounted to $7,716 per employee, compared with $4,668 ten years ago.

The trend in selling, advertising and administrative expenses during the past ten years, is shown in *Figure 5*. Our research organization has concentrated its activities in improving the effi-

ciency of our manufacturing operations and in enhancing the appearance and quality of our line of products.

The labor relations of the company were highly satisfactory throughout the year, with no work stoppages at any of our plants, partly as a result of our policy of taking into account the cost-of-living index and comparable area labor rates in arriving at wage adjustments. How the average hourly earnings index of Ruberoid employees compared with the rise in the cost-of-living index of the entire nation, is shown in the table on page 11.

Our organization has also made progress in performing its work with fewer accidents, due largely to the fact that our safety program is truly a cooperative effort, with all employees taking an active interest. As a result, during the past five years the number of lost-time accidents has been reduced by more than one-half.

As authorized at the last stockholders' meeting, the company's group insurance was liberalized to include greater coverage and

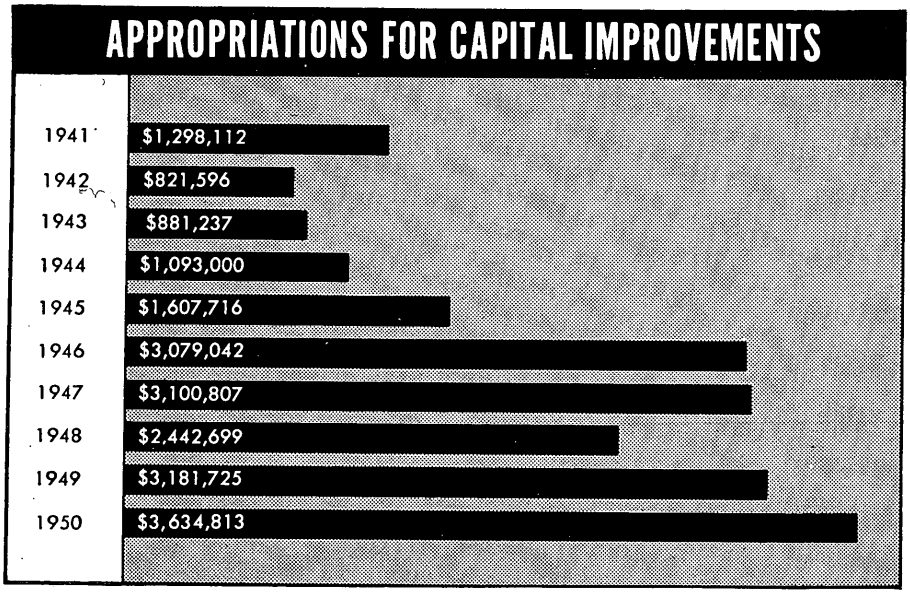


FIGURE 4

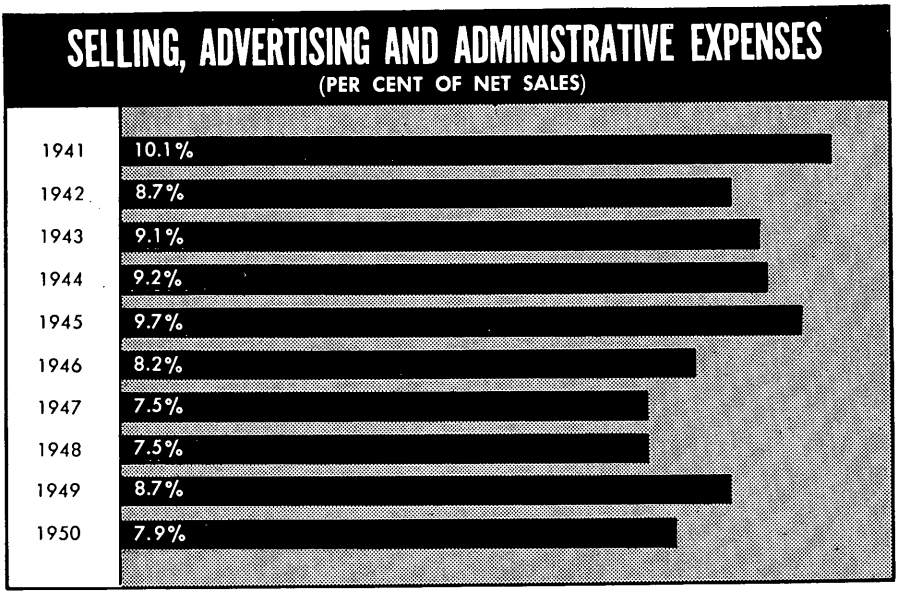


FIGURE 5

additional benefits for employees and their dependents. At the close of 1950, 81.9 per cent of the eligible employees were enrolled in our voluntary contributory retirement plan.

The company's total expenditures for various forms of employee benefits, including group insurance, retirement plan, vacations, compensation insurance, etc., amounted to $1,862,751 in 1950.

Executive Personnel

With deep regret we record the death on March 14, 1950, of Samuel P. Moffit, Executive Vice President of the company. A man who combined administrative ability and rare personal qualities in marked degree, his passing was mourned throughout the organization.

In May 1950, Stanley Woodward, formerly Vice President in charge of the company's Southern Division, was elected Execu-

AWARDS

AMERICAN INSTITUTE OF MANAGEMENT

HEREBY CONFERS UPON

The Ruberoid Co.

THIS CERTIFICATE OF MANAGEMENT EXCELLENCE

FOR THE YEAR 1950

Witness our Hand and Seal

PRESIDENT

SECRETARY

←

Certificate of management excellence in field of asbestos, asphalt and related building materials by the American Institute of Management. Award based on analysis of corporate policies and procedures.

THE 1950 PRODUCT LITERATURE COMPETITION

Sponsored by

THE AMERICAN INSTITUTE OF ARCHITECTS

and

THE PRODUCERS' COUNCIL, INC.

To raise the standards of advertising and the dissemination of useful data and information on materials and methods of use to the architectural profession

PRODUCT LITERATURE ENTITLED:

GENUINE RUBEROID BONDED BUILT-UP ROOFS AND FLASHINGS

ISSUED BY

THE RUBEROID COMPANY

having been nominated in Class II for the consideration of

THE JURY OF AWARD

has been deemed to be of a character which best serves the architect in the selection and specifying of building products and, as such, deserves the commendation of The Jury of Award and the awarding of this

CERTIFICATE OF MERIT

Representing The American Institute of Architects

JULIAN E. BERLA, A. I. A.
GEORGE B. CUMMINGS, F. A. I. A.
OSMAN P. WARD, A. I. A.

THE JURY OF AWARD

LESSING W. WILLIAMS, A. I. A., Chairman

Representing The Producers' Council

W. H. EASTON
CHARLES H. MORTENSEN
HOWARD L. SPINDLER

→

For manual on built-up roofing "deemed to be of a character which best serves the architect in the selection and specifying of building products," Ruberoid was awarded certificate by American Institute of Architects and Producers' Council.

State of New Jersey

19 49

Statewide Interplant Safety Contest

Conducted by

The Department of Labor and Industry

Certificate of Merit

Awarded to the Management and Employees of

The Ruberoid Co.

Bound Brook

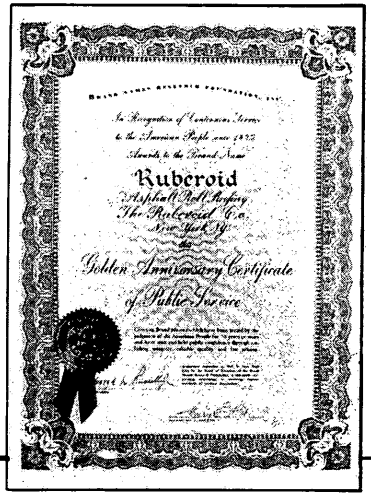
for their services to humanity in achieving an outstanding Safety Record

COMMISSIONER OF LABOR AND INDUSTRY

DIRECTOR OF THE DEPARTMENT

←

In recognition of low accident experience records at a number of our plants, the company received safety achievement awards from departments of labor of several states and the National Safety Council.



→

Award by Brand Names Research Foundation, Inc., for the brand name "Ruberoid" which for 50 years or more "has won and held public confidence through unfailing integrity, reliable quality and fair pricing."

tive Vice President. Mr. Woodward has been associated with our company for the past 22 years. Previously he had been Vice President of Continental Roofing & Manufacturing Co., which he had helped to organize and which was acquired by Ruberoid in 1928.

Current Outlook

Prevailing world conditions have created problems of great concern to our country. Past experience has shown, however, that the American people can be counted on to act with united strength to preserve our cherished way of life. In that spirit, it will be the constant aim of the Ruberoid organization to exert every effort to help meet the nation's needs.

What those needs may be in the field of building cannot be estimated until the Government's requirements have been more fully developed. The generally confused economic conditions and consequent uncertainties which followed the outbreak of the Korean war may have a retarding effect on the building industry as a whole. It seems likely that, as in the period of World War II, our manufactured products will be used extensively in connection with the defense mobilization program. For example, asbestos-cement sheets are used in the construction of hangars and other airport facilities; built-up roofings for shipyards, cantonments, warehouses for stock-piling critical materials, and factories engaged in defense work; asphalt shingles and sidings for defense housing projects; high-temperature insulation for ship construction and waterproof papers for packaging overseas shipments. These products can be manufactured with our existing equipment without requiring plant conversion.

The company is also fortunate, in these days of increasing shortages, that a number of its principal raw materials are by-products of other essential industries. For example, asphalt is a residual obtained after gasoline, fuel and other oils have been distilled from petroleum; wood from our timber holdings, as well

as waste paper and rags, are used in making dry felt which is the base of all asphalt roofing materials; asbestos, another of our principal raw materials, is obtained from the company's mineral deposits in Vermont.

The management wishes to express to our stockholders and employees sincere thanks for their continued cooperation and support.

Respectfully submitted,

President

February 26, 1951

February 26, 1951

To the Stockholders of The Ruberoid Co.

In connection with our examination of the financial statements of The Ruberoid Co. as at December 31, 1950, as reported upon in our certificate appearing on page 19, we have also reviewed the statistical data set forth in the President's letter and on pages 11 and 21 of this annual report. In our opinion, such information has been compiled properly.

PRICE WATERHOUSE & CO.

How Stockholders, Employees, Customers and Government Shared During 1950 (Index 1941 = 100)

STOCKHOLDERS

Year	Cash Dividends Per Share	Index
1941	$1.75	100
1942	1.15	66
1943	1.15	66
1944	1.25	71.5
1945	1.25	71.5
1946	2.00	114
1947	2.75	157
1948	3.25*	186*
1949	3.25*	186*
1950	3.50*	200*

*Plus 10% Stock Dividend.

EMPLOYEES

Cost-of-Living Index of the Entire Nation*	Average Hourly Earnings Index of Ruberoid Employees
100	100
110.7	115.1
117.5	123.4
119.3	128.5
122.1	133.8
132.4	153.2
151.3	175.3
162.8	193.2
160.8	199.1
162.8	208.7

*Based on data from Bureau of Labor Statistics.

CUSTOMERS

Year	Price Index All Construction Materials*	Price Index Ruberoid Products (Per Ton)
1941	100	100
1942	106.8	97.3
1943	107.9	100
1944	111.9	101.6
1945	114.1	98.5
1946	128.5	100.7
1947	174.0	112.8
1948	192.3	125.6
1949	187.4	123.1
1950	199.6	123.7

*Based on data from Bureau of Labor Statistics.

GOVERNMENT

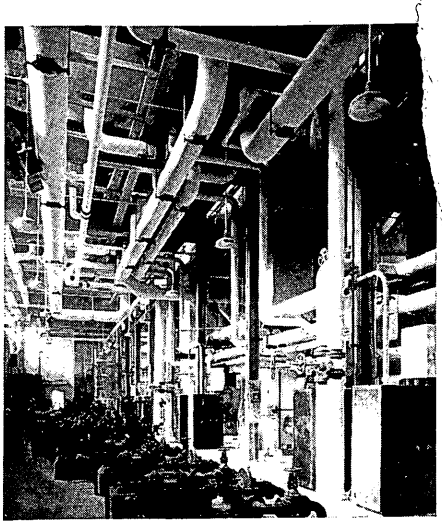
(Federal, State and Local)

Taxes	Index
$1,817,453	100
2,890,041	159.3
1,734,092	95.4
1,593,685	87.7
1,799,098	99
2,501,006	137.6
3,883,049	213.6
4,189,238	230.5
3,447,858	189.7
5,086,710	279.9

Typical uses of

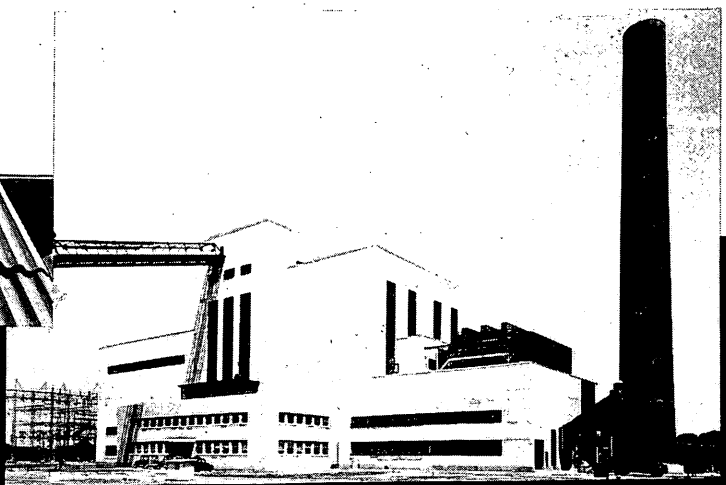
Ruberoid high temperature insulation is used for locomotives; Ruberoid roofings and sidings for many kinds of railroad buildings.

←Ruberoid built-up roofs protect thousands of public, business and industrial buildings, large and small.

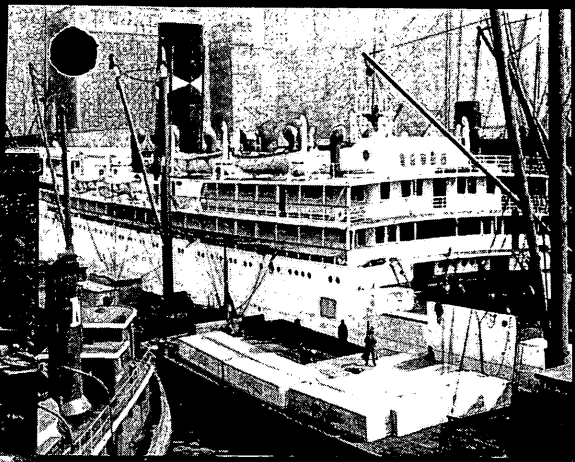


Ruberoid pipe coverings and other thermal insulation products are widely used in industry.

←Ruberoid asbestos roof shingles provide beauty and protection for many of America's finest homes.

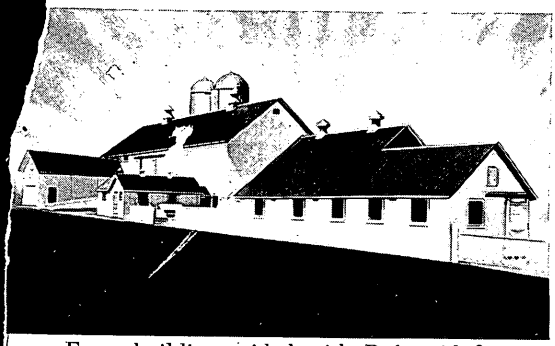


Ruberoid Products



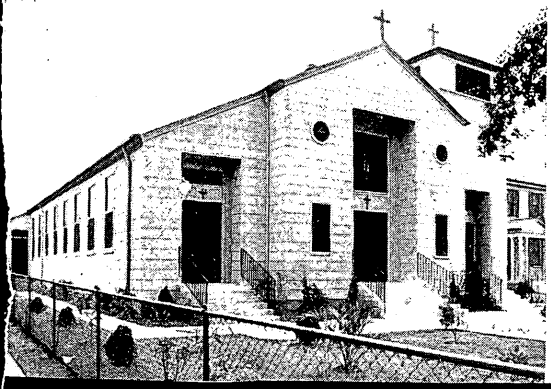
For protection of oil and gas pipe lines Ruberoid supplies large quantities of asbestos pipe-line felt.

Automobile industry uses Ruberoid panel board, sound deadening felts and asbestos millboard for engine gaskets.



Farm buildings sided with Ruberoid fireproof asbestos-cement board and roofed with Ruberoid windproof shingles.

Attractive basket-weave effect of Ruberoid windproof shingles adds charm to this modified ranch-type house.



Financial Position

INVESTED IN THE BUSINESS:	Dec. 31 1950	Dec. 31 1949
Working capital, per statement on page 15	$14,456,559	$17,015,363
Investments:		
Investment in partly owned subsidiary company not consolidated, at nominal value (NOTE 1)	1	1
Miscellaneous investments, at cost (less reserves of $2,968 in 1950; $2,969 in 1949)	15,627	13,548
Funds for improvement of plant facilities (NOTE 2)	3,450,000	—
Properties, plants and equipment, less reserves (NOTE 3)	17,122,086	15,038,760
	$35,044,273	$32,067,672
Other Liabilities and Reserves:		
Notes payable due after one year	$ —	$ 510,000
Reserves for guaranteed roofs, compensation insurance and other contingencies	1,417,545	1,351,559
	$ 1,417,545	$ 1,861,559
	$33,626,728	$30,206,113

STOCKHOLDERS' EQUITY REPRESENTED BY:		
Capital stock (NOTE 4)	$19,628,476	$17,302,160
Accumulated earnings reinvested in the business, per statement on page 16	13,998,252	12,903,953
	$33,626,728	$30,206,113

Working Capital

	Dec. 31 1950	Dec. 31 1949
CURRENT ASSETS:		
Cash	$ 5,343,703	$ 6,520,403
United States Government obligations, at cost	—	3,225,000
Accounts receivable, less reserves (NOTE 5)	5,569,453	3,550,630
Inventories, at the lower of cost or market (NOTE 6)	5,452,040	4,916,736
Prepaid expenses	428,503	444,849
Total Current Assets	$16,793,699	$18,657,618
CURRENT LIABILITIES:		
Notes payable	$ —	$ 130,000
Trade accounts payable	1,463,447	803,159
Accrued wages and commissions	337,560	253,596
Sundry liabilities (principally property, franchise, social security and withheld taxes)	536,133	455,500
Estimated Federal income and excess profits taxes (after deducting U. S. Treasury notes, tax series: $4,914,000 in 1950; $3,340,000 in 1949)	—	—
Total Current Liabilities	$ 2,337,140	$ 1,642,255
WORKING CAPITAL, per statement on page 14	$14,456,559	$17,015,363

Earnings

	Year Ended Dec. 31 1950	1949
Sales, less returns, discounts and allowances	$61,925,242	$50,267,987
Cost of goods sold	47,690,736	38,863,752
Gross profit on sales	$14,234,506	$11,404,235
Selling, advertising and administrative expenses	4,919,065	4,393,213
	$ 9,315,441	$ 7,011,022
Other income, net (Note 7)	135,254	85,237
	$ 9,450,695	$ 7,096,259
Provision for Federal taxes on income (Note 8)	4,345,383	2,897,959
Net earnings for the year (Note 9)	$ 5,105,312	$ 4,198,300
Deduct:		
Cash dividends of $3.50, 1950; $3.25, 1949	$ 1,684,697	$ 1,422,145
Stock dividend of 10% (Note 10)	2,326,316	1,964,735
	$ 4,011,013	$ 3,386,880
Earnings for the year reinvested in the business	$ 1,094,299	$ 811,420
Earnings of prior years reinvested in the business	12,903,953	11,340,533
Reversal of reserve provided in prior years for possible future extraordinary losses on accounts receivable and inventories	—	752,000
Accumulated earnings reinvested in the business, per statement on page 14	$13,998,252	$12,903,953

Notes to Financial Statements

NOTE 1: As shown by the unaudited accounts at December 31, 1950 of The Ruberoid Company, Limited, a partly owned English subsidiary company not consolidated, the equity of The Ruberoid Co. in the net tangible assets of this company amounts to approximately $1,075,000 (converted at $2.80 to the £). The increase of approximately $175,000 in such equity since December 31, 1949 represents unremitted profits.

NOTE 2: Pursuant to a resolution of the Board of Directors, cash in the amount of $1,799,000 and U. S. Government securities aggregating $1,651,000 in par value have been segregated as of December 31, 1950 for payment of improvements to plant facilities authorized by the Board but not completed as of that date.

NOTE 3: PROPERTIES, PLANTS AND EQUIPMENT:

	Dec. 31 1950	Dec. 31 1949
At reproductive values as appraised by The American Appraisal Company in 1927, 1932 and 1936; subsequent additions at cost	$28,101,885	$25,674,388
Other assets at sale or useful values as determined by The American Appraisal Company, December 31, 1938	703,867	706,750
	$28,805,752	$26,381,138
Less: Reserves to reduce reproductive values to sound values as appraised, together with subsequent depreciation and depletion	11,683,666	11,342,378
	$17,122,086	$15,038,760

NOTE 4: CAPITAL STOCK:

	Dec. 31 1950	Dec. 31 1949
Shares authorized, of no par value—958,864		
Shares issued and outstanding	529,478	481,344

NOTE 5: ACCOUNTS RECEIVABLE:

	Dec. 31 1950	Dec. 31 1949
Customers	$5,668,237	$ 3,727,302
Sundry	217,271	100,727
Employees, principally advance payments under retirement plan	140,924	125,792
	$ 6,026,432	$ 3,953,821
Less—Reserves for cash discounts and bad debts	456,979	403,191
	$ 5,569,453	$ 3,550,630

Notes to Financial Statements
(CONTINUED)

NOTE 6: INVENTORIES:

	Dec. 31 1950	Dec. 31 1949
Raw materials and factory supplies	$ 3,218,651	$ 3,017,573
Products in process of manufacture	457,944	436,332
Finished products	1,775,445	1,462,831
	$ 5,452,040	$ 4,916,736

Inventories are valued at the lower of cost or market. Cost or market, as it applies to individual products of (a) finished products and products in process of manufacture, represents approximate cost based on standard costs or net selling prices, and (b) raw materials and factory supplies, represents average cost or quoted prices.

NOTE 7: OTHER INCOME, NET:

	1950	1949
Cash dividends received from The Ruberoid Company Limited (England) (NOTE 1)	$ 26,752	$ 34,976
Interest received	96,223	76,939
Reversal of reserve for contingencies provided in prior years	84,057	—
Net refunds of Federal income and excess profits taxes for the years 1941-1944	—	40,047
Miscellaneous other income	14,112	5,098
	$ 221,144	$ 157,060
LESS:		
Past service cost under employees' retirement plan	$ 65,000	$ 65,000
Interest paid	20,890	6,823
	$ 85,890	$ 71,823
	$ 135,254	$ 85,237

NOTE 8: Provision for Federal taxes on income for 1950 includes $350,000 for excess profits tax.

NOTE 9: Earnings for the year are shown after deducting depreciation and depletion in the amounts of $1,261,148 for 1950 and $1,144,377 for 1949.

NOTE 10: Stock dividends of 10% were declared in 1950 and 1949. Such dividends involved transfer of accumulated earnings to capital stock in the amounts of $48.33 and $44.90 per share in the respective years.

PRICE WATERHOUSE & CO.

56 PINE STREET
NEW YORK

February 26, 1951

To the Board of Directors of
The RUBEROID Co.

In our opinion, the attached statements present fairly the financial position of The Ruberoid Co. at December 31, 1950 and December 31, 1949, and the results of its operations for the years then ended, in conformity with generally accepted accounting principles applied on a basis consistent with those of the respective preceding years. Our examination of such statements was made in accordance with generally accepted auditing standards and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

PRICE WATERHOUSE & CO.

PRODUCTS The RUBEROID Co.

Asphalt and Tar Products

Asphalt Shingles and Sidings
Genuine RUBEROID Roll Roofings
Insulating Siding
Built-Up Roofing Felts and Adhesives
Roof Coatings and Plastic Cements
Preservative Coatings and Paints
Waterproofing Felts and Membrane
Pipe Line Protective Felts
Automotive Felts and Boards
Electrical Insulating Tape

Asbestos-Cement Products

Asbestos-Cement Shingles and Sidings
Building Board
Corrugated Sheets

Insulation and Fireproofing Products

Asbestos Pipe Coverings and Blocks
Molded High Pressure Insulations
Asbestos Papers
Rollboards and Millboards
Range-Boiler Jackets
Asbestos Gasket Board
Asbestos Fiber and Insulating Cements

Papers and Felts

Kraft Building Papers
Reinforced Kraft Packaging Papers
Waterproofed Sheathing Papers and Felts
Dry Felts for Roofings
Floor Coverings
Deadening Felts

Summary of Capital Structure and Dividend Record of The RUBEROID Co. and Predecessor Companies*

Year	Shares Outstanding During Year	Dividends Per Share	Total Dividends
1889	10,000†	$3.00	$30,000
1890	10,000†	3.00	30,000
1891	10,000†	3.00	30,000
1892	10,000†	3.00	30,000
1893	10,000†	1.50	15,000
1894	10,000†	1.50	15,000
1895	10,000†	2.00	20,000
1896	10,000†	2.00	20,000
1897	10,638†	2.00	21,276
1898	11,817†	2.50	29,542
1899	11,821†	3.75	44,328
1900	11,826† 11,826§	10.00	118,260
1901	11,826§	12.00	141,912
1902	11,828§	15.00	177,420
1903	11,833§	20.00	236,660
1904	11,980§	18.00	215,640
1905	23,995§	10.00	239,950
1906	44,397§	9.00	399,573
1907	44,397§	9.00	399,573
1908	44,397§	7.00	310,779
1909	44,397§	9.00	399,573
1910	44,397§	9.00	399,573
1911	44,360§	9.00	399,240
1912	44,450§	8.00	355,600
1913	46,810§	7.00	327,670
1914	47,758§	3.00	143,274
1915	47,758§	4.25	202,971
1916	47,758§	5.25	250,729
1917	49,411§	6.00	296,466
1918	49,962§	5.00	249,810
1919	49,962§	2.00	99,924
1920	49,962§	4.00	199,848
1921	49,962§	4.00	199,848
1922	35,142§	4.00	140,568
1923	35,142§	$4.00	$140,568
1924	35,142§	4.00	140,568
1925	35,142§	4.00	140,568
1926	35,142§	4.00	140,568
1927	35,142§ 55,576#	2.00 2.00	70,284 111,152
1928	118,732#	4.00	474,928
1929	141,541#	4.00	566,164
1930	143,251#	4.00	573,004
1931	139,847#	4.00	559,388
1932	133,577#	2.00	267,155
1933	132,602#	1.00	132,602
1934	132,602#	1.25	165,752
1935	132,602#	2.50	331,505
1936	132,602#	4.00	530,408
1937	132,602# 397,806#	.45*a* 1.85*a*	59,670 735,941
1938	397,806#	.60	238,683
1939	397,806#	1.10	437,586
1940	397,806#	1.30	517,148
1941	397,806#	1.75	696,161
1942	397,806#	1.15	457,476
1943	397,806#	1.15	457,476
1944	397,806#	1.25	497,257
1945	397,806#	1.25	497,257
1946	397,806#	2.00	795,612
1947	397,806#	2.75	1,093,966
1948	397,803# 437,586#	3.25*b*	1,292,860
1949	437,586# 481,344#	3.25*b*	1,422,145
1950	481,344# 529,478#	3.50*b*	1,684,697
			$21,418,556

*Assets of "The Standard Paint Company" of West Virginia were acquired in 1905 by "The Standard Paint Company" of New Jersey and in 1921 the name of the latter was changed to "The RUBEROID Co." of New Jersey.

†Par Value, $25.00.
§Par Value, $100.00.
#No Par Value.

a. Total dividends paid in 1937, on the basis of the 397,806 shares outstanding at the end of the year, were equivalent to $2.00 per share, which included $1.40 in 4% Series A Dividend Notes.
b. Plus 10% stock dividend.

Board of Directors

HERBERT ABRAHAM
C. F. BATCHELDER
F. E. BYRNES
W. G. COWAN
ANDRÉ EMSENS
C. F. EVANS
LOUIS HERSCOVITZ
G. F. KERR
E. M. RAILTON
M. C. WHITAKER
STANLEY WOODWARD

★ ★ ★

Officers

HERBERT ABRAHAM
President and Chairman of Executive Committee

STANLEY WOODWARD
Executive Vice President

E. M. RAILTON
Vice President

W. G. COWAN
Vice President

F. E. BYRNES
Vice President

G. F. BAHRS
Treasurer

T. H. DERMODY
Comptroller

K. H. BEHRE
Secretary

IDA L. GEIS
Assistant Secretary

★ ★ ★

Executive Committee

HERBERT ABRAHAM
C. F. BATCHELDER
E. M. RAILTON
M. C. WHITAKER
STANLEY WOODWARD

★ ★ ★

Stock Transfer Agent
BANK OF NEW YORK AND FIFTH AVENUE BANK
New York

Stock Registrar
THE CHASE NATIONAL BANK
New York

The **RUBEROID** Co.

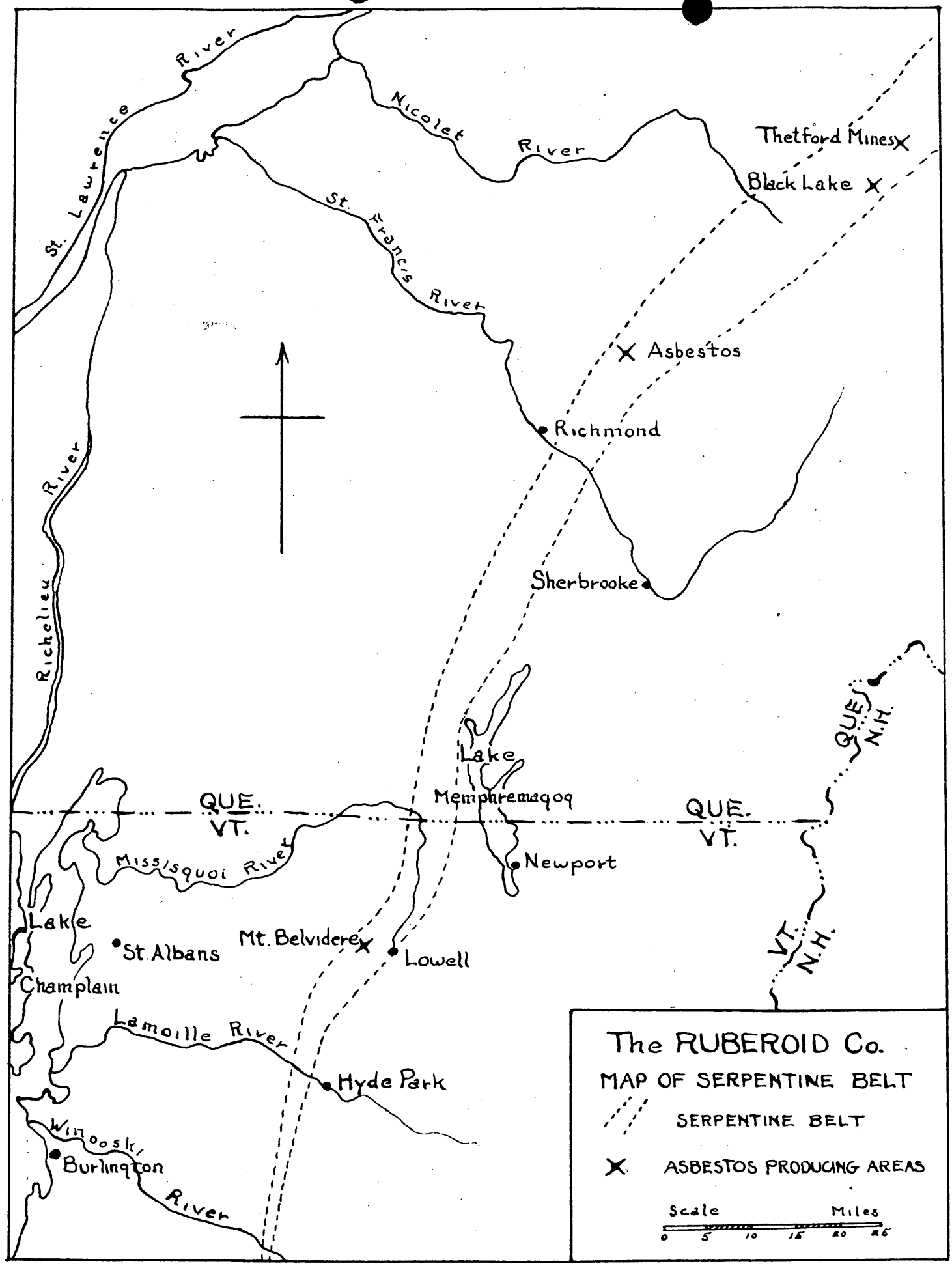
EXECUTIVE OFFICES

500 Fifth Avenue, New York 18, N. Y.

Sales Offices—Baltimore, Md.; Chicago, Ill.; Dallas, Texas; Erie, Pa.; Millis, Mass.; Minneapolis, Minn.; Mobile, Ala.; South Bound Brook, N. J.

Factories—Baltimore, Md.; Dallas, Texas; Erie, Pa. (Lake and 16th Street plants); Gloucester City, N. J.; Joliet, Ill.; Lowell, Vt.; Millis, Mass.; Minneapolis, Minn.; Mobile, Ala.; Port Neches*, Texas; St. Louis, Mo.; South Bound Brook, N. J.

*Arrangement with The Texas Company


St. Lawrence River
Nicolet River
St. Francis River
Thetford Mines
Black Lake
Asbestos
Richmond
Sherbrooke
Richelieu River
Lake Memphremagog
QUE.
VT.
QUE.
VT.
QUE.
N.H.
VT.
N.H.
Missisquoi River
Newport
Lake Champlain
St. Albans
Mt. Belvidere
Lowell
Lamoille River
Hyde Park
Winooski River
Burlington
The RUBEROID Co.
MAP OF SERPENTINE BELT
SERPENTINE BELT
ASBESTOS PRODUCING AREAS
Scale
Miles
0
5
10
15
20
25

The RUBER
500 FIFTH AVENUE
New York, N. Y.

The RUBEROID Co.
500 FIFTH AVENUE
New York, N. Y.

BUDGET
EXPLORATION COST OUTSIDE PROPERTIES
1951 & 1952

Budget 1951

(1)	Cost of Options on various property farms	$ 5,000
(2)	Aerial Magnetometer Survey	11,000
(3)	Diamond Drilling - 2500 ft. - core boxes	10,000
(4)	Field Party expenses (4 men - 5 months)	4,000
(5)	Rental of Jeep (5,000 miles @ 6¢)	300
(6)	Rental of 3/4 ton Pick-up Truck (5,000 miles @ 6¢)	300
(7)	Core Testing Laboratory labor expense - 1 month	500
(8)	Consulting Geologist's 1/2 salary retainer basis	3,500
(9)	Supervisor of exploration - 1/2 salary	2,700
(10)	Survey & Mapping Engineer - 1/2 salary	2,700
(11)	Miscellaneous field expenses, right of way, repairing fences, etc.	500
	Total	$40,500

Budget 1952

(1)	Diamond Drilling - 25 holes - (4,000 feet)	$17,500
(2)	Field Prospecting work - 2 parties, 10 men each	9,000
(3)	Renewal of options for 1952 @ $3 per acre	5,000
(4)	Rental of Jeep (10,000 miles @ 6¢)	600
(5)	Rental of 3/4 ton Pick-up Truck (10,000 miles @ 6¢)	600
(6)	W. B. Millar, Consulting Geologist	4,500
(7)	Supervisor of exploration - J. K. Gilmore - 1/2 salary	2,700
(8)	Survey & Mapping Engineer - J. K. Stewart - 1/2 salary	2,700
(9)	Core Testing Laboratory - labor - 2 months	1,000
(10)	Miscellaneous field expenses, right of way, repairing fences, etc.	1,000
	Total	$44,600

Total - Years 1951 & 1952 $85,100

The RUBEROID Co.
500 FIFTH AVENUE
New York, N. Y.

[illegible]

[illegible]

[illegible]

MEMORANDUM

Asbestos-bearing rock is recovered from open pits like stone quarries, and from underground mines. When asbestos-bearing rock is removed from the quarry or mine, it is carried to a mill where a separation of rock and fibre is accomplished by special types of equipment. The mixture of rock fragments and asbestos fibre is then passed over shaking screens. The shaking action brings the fibre to the surface of the bedded particles. A suction hood extending across the screen at its lower end is placed a few inches above the screen surface, and the air suction lifts the surface layer of fluffy asbestos fibre and carries it away to a collecting chamber. The separated fibres are classified by length into standard commercial grades named according to the uses for which they are best adapted. The finished asbestos is packed in bags ready for delivery.

The production of fibre at our Vermont mine amounted to 41,652 tons in 1949, or approximately 97% of all asbestos fibre produced in United States during that year. Of this amount approximately 22% was long asbestos fibre ranging from grade 5Z up to grade 3T. The shorter fibres must, by necessity, be produced simultaneously with the longer fibres. From the long asbestos fibre production, we supply manufacturers who, in turn, use such fibre for the operation of electrochemical cells which produce vital items needed for the war effort, such as chlorine, caustic soda, and hydrogen. In addition, we also supply fibre to numerous manufacturers who use the fibres to make such building and industrial materials as siding shingles and clapboard; roofing shingles; flat sheets and wallboard; corrugated sheets; pipe; conduits, and ducts; brake linings; clutch facings; 85% magnesia; pipe insulation; block insulation, including sheet and lagging; carded fibre; roving and lap; wick and rope; yarn, cord, and thread; cloth, and tape; asbestos gaskets; compressed sheets; millboard; paper; and floor tile. From this it can be seen that asbestos fibre is one of our critical raw materials, entering into many products that bear a direct relationship to any war effort.

There has been an acute general shortage of asbestos fibres throughout the world for several years. Shown in the tabulation below are the imports of asbestos fibre into the United States, in the past ten years, compared with domestic production.

Year	Domestic Production	Imports
1940	19,174 Tons	246,613 Tons
1941	22,396 "	419,196 "
1942	15,317 "	419,242 "
1943	3,945 "	440,255 "
1944	7,558 "	383,049 "
1945	13,590 "	374,199 "
1946	14,426 "	456,688 "
1947	25,139 "	594,839 "
1948	37,237 "	647,881 "
1949	42,918 "	515,303 "

These figures emphasize the need for increased domestic production of asbestos fibre. In our opinion, there still exists in the United States, and especially in Vermont, large probable asbestos-bearing serpentine areas that warrant further exploration work if this could be encouraged. Since mining operations require large capital outlays, encouragement towards investment can come through the inclusion in our Federal Income Tax laws of

an allowance of percentage depletion for this mining operation similar to the allowance granted to other domestic mining industries, and the extension of the exemption under our present Excess Profits Tax law of income from the production of only long asbestos fibres to include all grades of asbestos fibre.

The Ruberoid Co.'s new asbestos fibre recovery and processing mill at Lowell, Vermont began operating in October 1949, and replaced its old mill at Eden, Vermont. It effected substantial economies, since it eliminated the necessity of transporting the ore by tramway to the old mill which had been located approximately one mile from the quarry, and facilitated year-round operations. The most modern and efficient equipment was installed for the recovery and processing of asbestos fibre, which constitutes one of our country's most important raw materials. At December 31, 1950 our investment in the mine and mill amounted to $2,280,142.

During the past ten years a total of $3,046,000 has been paid by The Ruberoid Co. to its Vermont mine employees in salaries and wages. During this period the average number of employees was 127. There are now presently employed over 200 people at the Lowell, Vermont mine and mill. This number will undoubtedly increase as the scope of operations is increased.

Our neighbors in Vermont, the talc mines, are allowed a 15% rate of percentage depletion under our present Federal Income Tax law. Canadian asbestos producers are allowed percentage depletion for Canadian income tax purposes on the basis of 33-1/3% of their gross income - a tremendous financial advantage. Considering that (a) no new commercial deposits of asbestos of any size have been found in the United States in the last fifteen years, and (b) that an acute shortage of all asbestos fibres still prevails, it would seem that the asbestos mining industry in the United States should be accorded tax treatment by its government comparable to that accorded similar domestic mining industries, and comparable to that afforded by the Canadian government to industries which export their goods to the United States.

The excess profits tax bill of 1950 provides that any domestic corporation engaged in the mining of a strategic mineral, is exempt from the excess profits tax on that portion of excess profits net income attributable to such mining. The term "strategic mineral" includes, among others, long-fibre asbestos in the form of amosite, chrysolite or crocidolite. It is our contention that all grades of asbestos fibre should be included under the term "strategic mineral". Nearly all phases of the defense effort employs asbestos fibre in one form or another either directly or indirectly. Since 1946 the Government has been endeavoring to stock pile this material but due to world wide shortages and the enormously increased demand it has made little headway in its efforts.

Early in 1950, The Ruberoid Co. embarked upon an exploration program on properties adjacent to its mine at Lowell. At the same time a development program consisting of stripping, core drilling, and removal of barren intrusion was begun. The approximate cost of these operations for the year 1950 amounted to $203,000 and we would like to continue this development work. This sort of exploration and development should be encouraged in every way by the government in an effort to find and develop ore bodies of this critically short raw material. Such encouragement can be given by

granting asbestos fibre producers the privilege of percentage depletion under our Federal Income Tax laws, and by exempting income of such production from the Excess Profits tax. These changes would go a long way toward expanding development programs throughout the country.

In view of: (1) the critical shortage of this vital raw material in the United States, (2) the small amount of it produced in the United States, (3) the unfavorable situation of the asbestos mining industry compared with other like industries which are allowed to use percentage depletion, and (4) to encourage more intensive exploration programs, we earnestly request your support of our endeavor to obtain the percentage depletion allowance for Federal Income Tax purposes, and the extension of the exemption under our present Excess Profits Tax law of income from the production of only long asbestos fibres to include all grades of asbestos fibre, for the asbestos mining industry in the United States.

3/30/51

and I
hereby engage to **WARRANT AND DEFEND** *the same against all lawful claims whatever,* except this warranty shall not apply to the land and premises, minerals and mineral rights above described in paragraph (2) of said description.

IN WITNESS WHEREOF, I *hereunto set* my *hand and seal this* 22nd *day of* October *A. D. 19*48.

In Presence of

Bertha Wright

L.S.
L.S.
L.S.
L.S.

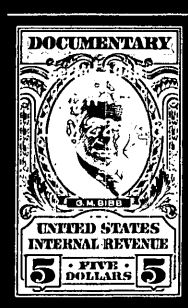
STATE OF VERMONT, Lamoille **County** } **ss.** *At* Johnson *this* 22nd *day of* October *A. D. 19*48

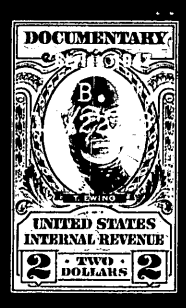
Bertha Wright

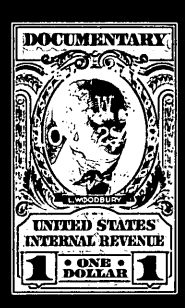
personally appeared, and her *sealed and subscribed, to be* her *acknowledged this instrument, by free act and deed.*

Before me

Notary Public







WARRANTY

BERTHA WRIGHT

TO

THE RUBEROID CO.

Filed, October 22, 1948

Lowell CLERK'S OFFICE

RECEIVED FOR RECORD

October 30th A. D., 1948

AT 9 O'CLOCK 30 MINUTES A. M.

AND RECORDED IN

BOOK 21 PAGE 296 OF LAND RECORDS

ATTEST CLERK

RECORDERS FEE $

FORM 11 VERMONT WARRANTY DEED

TUTBLANX REGISTERED U.S.PAT.OFFICE
Tuttle Law Print, Publishers, Rutland, Vt.

Know all Men by these Presents

That I, Bertha Wright, widow,

of Johnson in the County of Lamoille and State of Vermont Grantor, in the consideration of One Dollar and other good and valuable consideration ~~Dollars~~ paid to my full satisfaction by The Ruberoid Co., a corporation organized and existing under and by virtue of the laws of the State of New Jersey, having its principal business office in City, County and State of New York, admitted to the State of Vermont and having its business office therein at Hyde Park of in the County of Lamoille and State of Vermont Grantee, by these presents, do freely **GIVE, GRANT, SELL, CONVEY AND CONFIRM** unto the said Grantee The Ruberoid Co. its successors ~~heirs~~ and assigns forever, a certain piece of land in Lowell in the County of Orleans and State of Vermont, described as follows, viz:

(1) Being one undivided 1/4 interest in Lot No. 19 in the 7th Range of Lots in said Town of Lowell, including all minerals and mineral rights therein, and being all and the same land and premises decreed to me, the said Bertha Wright, by decree of the Probate Court for the District of Lamoille in the estate of my late husband, William A. Wright, of Morristown, in said County of Lamoille, said decree bearing date of August 3, 1948 and recorded in Book 20, Page 402 of the Land Records of the Town of Lowell, to which said decree and the record thereof and to all deeds and records therein mentioned or referred to, reference is hereby made in aid of the description of the land and premises hereby conveyed.

(2) This conveyance shall also include a release and quit-claim from me to said The Ruberoid Co. of all my right, title and interest in and to any other land and premises, including the minerals and mineral rights therein, in said Town of Lowell.

TO HAVE AND TO HOLD said granted premises, with all the privileges and appurtenances thereof, to the said Grantee, The Ruberoid Co. its successors ~~heirs~~ and assigns, to their own use and behoof forever; And I the said Grantor, as respects the land and premises, minerals and mineral rights, in the above paragraph (1) of said description, for myself and my heirs, executors and administrators, do covenant with the said Grantee, The Ruberoid Co. its successors ~~heirs~~ and assigns, that until the ensealing of these presents I am the sole owner of the premises, and have good right and title to convey the same in manner aforesaid, that they are **FREE FROM EVERY ENCUMBRANCE;**

AGREEMENT

Fernand E. Fournier and Pauline C. Fournier

and

The Ruberoid Co.

Troy, Vt.

Rec'd For Record Dec. 17, 1951

at 4:30 o'clock P.M.

in Book 32 Pg 633 & 634 by LR

Attest: G. M. Clogoton /s/
Assistant Town Clerk

Westfield, Vt. Town Clerk's Office.
Rec'd for Record Dec. 18th, 1951 at
11:35 A.M. and Recorded in Book 15
Page 442-443 of Westfield Land Records.

Attest: Mary Lou Pulvas /s/
Assistant Town Clerk

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 18 1952

1a Lot 5

AGREEMENT

This indenture made and executed by and between Fernand E. Fournier and Pauline C. Fournier of Westfield in the County of Orleans and State of Vermont, hereinafter described as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and The Ruberoid Co., a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the County of Lamoille, of the other part, hereinafter described as the company, which expression shall include its successors and assigns, where the context so requires or admits,

W I T N E S S E T H :

Whereas, the owners have certain real estate situated in Westfield and Troy in the County of Orleans, containing two hundred ninety (290) acres, more or less, and further described as follows:

Being the North Half of Lot No. thirty-two (32) in the First Division of Lots in the Town of Westfield containing ninety (90) acres, more or less; also the whole of Lot No. sixteen (16) in the south part of the Town of Troy containing one hundred (100) acres, more or less; also the whole of Lot No. thirty-three (33) in the south part of the Town of Troy containing one hundred (100) acres, more or less. Meaning all and the same land and premises described in a mortgage deed from the owners herein to the Valley Savings Bank and Trust Co. dated October 27, 1949 and recorded in Book 15, Page 345 of Westfield Land Records and Book 29, Page 456, of Troy Land Records.

Reference is hereby made and had to said deed and the record thereof and to all former deeds and their records for a further and more particular description of the above-described premises.

And, Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of a payment of two hundred dollars ($200), and other good and valuable consideration, the receipt of which is hereby acknowledged, the said owners hereby grant to the company, the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives, and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damge to said land and premises and from interfering with the personal privacy of said owners and in connection therewith hereby undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise of its right as herein set forth.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of two hundred dollars ($200) that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such right as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or difference shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen, and their award in writing signed by any two of such arbitrators shall be final: Provided, that such award shall be made within thirty days after the reference to said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed by and between the parties hereto that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase,

on the payment of twenty-two thousand dollars ($22,000), the land and premises hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same over the above-described lands and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Upon notice to the owners within two years from the date hereof by the company of its election to exercise its option, the said owners covenant and agree to forthwith, execute and deliver to the company their good and sufficient warranty deed of the lands and rights so required of it.

IN WITNESS WHEREOF, the said owners have hereunto subscribed their hands and affixed their seals, and said corporation has hereunto set its corporate name and affixed its corporate seal by Michael J. Messel, its authorized agent, this 17th day of December, A. D. 1951.

In Presence of:

Louis Jordan, Jr. /s/
Robert A. Magoon /s/

Fernand E. Fournier /s/
Pauline C. Fournier /s/ SEAL
Owners

Louis Jordan, Jr. /s/
Robert A. Magoon /s/

The Ruberoid Co., Vermont Asbestos Mines

By: Michael J. Messel /s/ SEAL
Its authorized agent

STATE OF VERMONT)
)
Orleans County, ss.)

At Westfield in said county this 17th day of December, A. D. 1951, before me personally appeared Fernand E. Fournier and Pauline C. Fournier and they acknowledged this instrument, by them sealed and subscribed to be their free act and deed.

/s/ Robert A. Magoon
Notary Public

STATE OF VERMONT)
)
Orleans County, ss.)

At Westfield in said county this 17th day of December, A. D. 1951 before me personally appeared Michael J. Messel as duly authorized agent for The Ruberoid Co., Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed to be the free act and deed of himself and of said corporation.

/s/ Robert A. Magoon
Notary Public

AGREEMENT

Carlton Ramsdell and Angeline Ramsdell

AND

The Ruberoid Co.

Westfield, Vt. Town Clerk's Office.
December 17th, 1951. 4:35 P.M.
Recorded in Book 15 Page 440 of
Land Records.

Attest: Mary Lou Pulvas /s/
Assistant Town Clerk

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 1 1 1952

IN LOT 5

AGREEMENT

This indenture made and executed by and between Carlton Ramsdell and Angeline Ramsdell of Westfield in the County of Orleans and State of Vermont, hereinafter described as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and The Ruberoid Co., a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the County of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors and assigns, where the context so requires or admits,

W I T N E S S E T H :

Whereas, the owners have certain real estate situated in Westfield in the County of Orleans, containing ninety (90) acres, more or less, and further described as follows:

Being the South Half of Lot No. thirty-two (32) in the First Division of Lots in the Town of Westfield, meaning all and the same land and premises conveyed to the owners herein by the Warranty Deed of Omer Brouillard dated August 28, 1945 and recorded in Book 15, Page 131 of Westfield Land Records except that right deeded by the owners herein to the Town of Westfield on August 15,

1947 and recorded in Book 15, Page 230 of Westfield Land Records.

Reference is hereby made and had to said deed and the record thereof and to all former deeds and their records for a further and more particular description of the above-described premises.

And, Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of a payment of two hundred dollars ($200), and other good and valuable consideration, the receipt of which is hereby acknowledged, the said owners hereby grant to the company, the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owners and in connection therewith hereby undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise of its right as herein set forth.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of two hundred dollars ($200) that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or difference shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen and their award in writing signed by any two of such arbitrators shall be final: Provided, that such award shall be made within thirty days after the reference to said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on the payment of ten thousand dollars ($10,000), the land and

premises hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same over the above-described lands and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Upon notice to the owners within two years from the date hereof by the company of its election to exercise its option, the said owners covenant and agree to forthwith, execute and deliver to the company their good and sufficient warranty deed of the lands and rights so required by it.

IN WITNESS WHEREOF, the said owners have hereunto subscribed their hands and affixed their seals, and said corporation has hereunto set its corporate name and affixed its corporate seal by Michael J. Messel, its authorized agent, this 17th day of December, A. D. 1951.

In presence of:

Louis Jordan, Jr./s/

Robert A. Magoon /s/

Louis Jordan, Jr. /s/

Robert A. Magoon /s/

Carlton Ramsdell /s/ SEAL

Angeline Ramsdell /s/ SEAL

Owners

The Ruberoid Co., Vermont Asbestos Mines

By: Michael J. Messel /s/ SEAL

Its authorized agent

STATE OF VERMONT)
)
Orleans County, ss.)

At Westfield in said county this 17th day of December, A. D. 1951, before me personally appeared Carlton Ramsdell and Angeline Ramsdell and they acknowledged this instrument, by them sealed and subscribed to be their free act and deed.

Robert A. Magoon /s/
Notary Public

STATE OF VERMONT)
)
Orleans County, ss.)

At Westfield in said county this 17th day of December, A. D. 1951 before me personally appeared Michael J. Messel as duly authorized agent for The Ruberoid Co., Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed to be the free act and deed of himself and of said corporation.

Robert A. Magoon /s/
Notary Public

AGREEMENT

Kermit S. Dugan, Elizabeth A. Dugan

and Terry Dugan

AND

The Ruberoid Co.

Westfield, Vt.
Town Clerk's Office.
January 17th, 1952.
1:15 P.M. Recorded in
Book 15 Page 445-46 of
Land Records.

Attest: Mary Lou Pulvas /s/
Assistant Town Clerk

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 15 1952

IN LOT. 5

AGREEMENT

This indenture made and executed by and between Kermit S. Dugan and Elizabeth A. Dugan individually and as Guardians of Terry Dugan, a minor, all of the Town of Newport in the County of Orleans, hereinafter described as the owners, which expression shall include their heirs, executors, administrators, successors and assigns, where the context requires or admits, of the first part, and The Ruberoid Co., a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the County of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors and assigns, where the context so requires or admits,

W I T N E S S E T H :

Whereas, the owners have certain real estate situated in Westfield in the County of Orleans, containing one hundred eighty (180) acores, more or less, and further described as follows:

Being one hundred thirty (130) acres in the northwest corner of Lot No. two (2) in the First Division, and fifty (50) acres along the south side of Lot No. fifteen (15) in the First Division of Lots of Land in said Westfield and being a part of the same land and premises which were deeded to the said Kermit S. Dugan, Elizabeth A. Dugan and Terry Dugan by the Warranty Deed of Urbain

Laramee and Jeanette Laramee dated May 20, 1950 and of record in Book 15, Page 368 of Westfield Land Records. The said two parcels of land located east of the Missisquoi River in said Town of Westfield.

Reference is hereby made and had to said deed and the record thereof and to all former deeds and their records for a further and more particular description of the above-described premises.

And, Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of a payment of two dollars per acre, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said owners hereby grant to the company, the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owners and in connection

therewith hereby undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise of its right as herein set forth.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of two dollars per acre that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or difference shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen and their award in writing signed by any two of such arbitrators shall be final: Provided, that such award shall be made within thirty days after the reference to said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on payment of thirty dollars for each acre of land so purchased to the owners, all or any portion of the land and premises hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same over the above-described lands and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Upon notice to the owners within two years from the date hereof by the company of its election to exercize its option and the extent thereof, said owners covenant and agree to forthwith, execute and deliver to the company, their good and sufficient warranty deed of the lands and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyances made as therein provided shall be subject to the right of the owners to enter upon said lands for a period of two years from and after the date of deed to the company and, in husbandlike manner, cut, skid, yard and remove all trees thereon then suitable for merchantable timber or pulpwood, and to the extent reasonably practicable, without interference with operations on said premises by the company.

IN WITNESS WHEREOF, said owners have hereunto subscribed their hands and affixed their seals, and said corporation has hereunto set its corporate name and affixed its corporate seal by

Michael J. Messel, its authorized agent, this 17th day of January A. D. 1952.

In presence of:

R. W. Adams /s/

Mrs. Maude Miller /s/

Robert A. Magoon /s/

C. V. Rice /s/

Kermit S. Dugan, M. D. /s/ SEAL

Elizabeth A. Dugan /s/ SEAL
Owners

The Ruberoid Co., Vermont Asbestos Mines

By: Michael J. Messel /s/ SEAL
Its authorized agent

STATE OF VERMONT : At the Town of Newport in
: said County this 17th day
Orleans County, ss. :

of January, A. D. 1952, before me personally appeared Kermit S. Dugan and Elizabeth A. Dugan, individually and as Guardians of Terry Dugan and they acknowledged this instrument, by them sealed and subscribed to be their free act and deed.

Robert A. Magoon /s/
Notary Public

STATE OF VERMONT : At Lowell in said County
: this 17th day of January,
Orleans County, ss. :

A. D. 1952 before me personally appeared Michael J. Messel as duly authorized agent for The Ruberoid Co., Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed to be the free act and deed of himself and of said corporation.

Robert A. Magoon /s/
Notary Public

EXTENSION OF OPTION AGREEMENT

H. A. & Bertha E. Parker

to

The Ruberoid Co.

Lowell Town Clerk's Office
Received for Record
January 26th A. D. 1952 at
10 o'clock 50 minutes A.M.
and recorded in Book 22,
Page 122 of Land Records.

Attest,

D. P. Naramn /s/
Town Clerk

IN LOT 5

EXTENSION OF OPTION AGREEMENT

This indenture made and executed by and between H. A. Parker and Bertha E. Parker of Lowell in the County of Orleans and State of Vermont, hereinafter described as the owners, which expression shall include their heirs, executors, administrators and assigns where the context requires or admits, of the first part, and The Ruberoid Co., a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont Office at Hyde Park in the County of Lamoille, of the other part, hereinafter described as the company, which expression shall include its successors and assigns, where the context so requires or admits.

W I T N E S S E T H :

Whereas the owners and the company entered into an agreement on the 29th day of January A. D., 1951, which agreement is recorded in Book 22, Pages 18-19 of the Lowell Land Records, whereby the owners granted to the company, for a specified consideration, the right to prospect certain real estate as described therein for a period of one year, with the option to extend and renew said right for an additional period of one year on payment of the same amount of consideration.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 15 1952

Now, therefore, in consideration of the payment of one hundred fifty dollars and other good and valuable consideration, the receipt of which is hereby acknowledged, the parties hereby renew and extend all rights and interests as granted in the above-mentioned agreement for a period of one year from the 29th day of January A. D., 1952, the expiration date of said agreement.

IN WITNESS WHEREOF, said owners have hereunto subscribed their hands and affixed their seals, and said corporation has hereunto set its corporate name and affixed its corporate seal by Michael J. Messel, the authorized agent, this 26th day of January A. D., 1952.

In presence of:

Louis Jordan, Jr. /s/

Robert A. Magoon /s/

Louis Jordan, Jr. /s/

Robert A. Magoon /s/

H. A. Parker /s/ SEAL

Bertha E. Parker /s/ SEAL
Owners

The Ruberoid Co., Vermont Asbestos Mines

By: Michael J. Messel /s/ SEAL
Its authorized agent

STATE OF VERMONT)
)
Orleans County, ss.)

At Lowell in said County this 26th day of January A. D., 1952, before me personally appeared H. A. Parker and Bertha E. Parker and they acknowledged this instrument, by them sealed and subscribed to be their free act and deed.

Robert A. Magoon /s/
Notary Public

STATE OF VERMONT)
)
Orleans County, ss.)

At Lowell in said County this 26th day of January A. D., 1952, before me personally appeared Michael J. Messel as duly authorized agent for The Ruberoid Co., Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

Robert A. Magoon /s/
Notary Public

AGREEMENT

This indenture made and executed by and between Harley Taylor and Pearl Taylor of Lowell in the county of Orleans and State of Vermont, hereinafter designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and the Ruberoid Company, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont, by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the county of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors and assigns, where the context so requires or admits,

W I T N E S S E T H:

Whereas, said owners have certain real estate situated in Lowell in the county of Orleans, containing fifty acres, more or less, and further described as follows:

Being the east half of Lot No. Nine (9) in the eighth (8) Range of Lots of Land in said Lowell and being a part of the same land and premises described in a warranty deed of D. P. Naramore to Harley and Pearl Taylor recorded in Book 18, Page 479 of Lowell Land Records; also being a part of the same land and premises described in a warranty deed of L. Pudvah to Harley and Pearl Taylor recorded in Book 18, Page 520 of Lowell Land Records.

Reference is hereby made and had to said deed and record and to all former deeds and records for a further and more particular description of the above-described premises.

And, Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of a payment of three dollars per acre, and other good and valuable considerations, the receipt of which is hereby acknowledged, the said owners hereby grant to the company, the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owners and in connection therewith hereby undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise of its right as herein set forth.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of three dollars per acre that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or

difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or differences shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen and the award in writing signed by any two of such arbitrators shall be final: Provided, that such award shall be made within thirty days after the reference to the said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed, by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on payment of thirty dollars for each acre of land so purchased to the owners, all or any portion of the land and premises hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same, over the above-described lands and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Upon notice to the owners within two years from the date hereof by the company of its election to exercise its option and the extent thereof, said owners covenant and agree to forthwith make, execute and deliver to the company, their good and sufficient warranty deed of the lands and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyances made as therein provided shall be subject to the right of the owners

to enter upon said lands for a period of two years from and after the date of deed to the company and, in husbandlike manner, cut, skid, yard and remove all trees thereon then suitable for merchantable timber or pulpwood, and to the extent reasonably practicable, without interference with operations on said premises by the company.

IN WITNESS WHEREOF, said owners have hereunto subscribed their hands and affixed their seals, and said corporation has hereunto set its corporate name and affixed its corporate seal by Michael J. Messel, its authorized agent, this ..18... day of ....May....., A. D. 1951.

In presence of:

..Lloyd. Taylor.. Harley E. Taylor.....LS

.....Lloyd..... .Pearl M. Taylor.....LS
(Owners)

..Lloyd. Taylor.. THE RUBEROID COMPANY, Vermont Asbestos Mines

..... By.....LS
Its authorized agent.

STATE OF VERMONT)
)
Orleans County, ss.)

At Lowell in said county this ..... day of ....., A. D. 1951, before me personally appeared Harley Taylor and Pearl Taylor and they acknowledged this instrument, by them sealed and subscribed, to be their free act and deed.

.....
Notary Public

STATE OF VERMONT)
)
Orleans County, ss.)

At Lowell in said county this ..1.... day of . . . . . ., A. D. 1951, before me personally appeared Michael J. Messel as duly authorized agent for The Ruberoid Company, Vermont Asbestos Mines, and he acknowledged this instrument by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

. . . . . .
Notary Public

AGREEMENT

Between

Harley Taylor and Pearl Taylor

and

The Ruberoid Company

Lowell

11 May 18 55 5/A.

22 47-48

AGREEMENT

This indenture made and executed by and between Ruth Gilbert and Anna Gilbert Sullivan of Manchester in the County of Hillsborough and State of New Hampshire, hereinafter designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and the Ruberoid Company, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the county of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors or assigns, where the context so requires or admits, W I T N E S S E T H:

Whereas, said owners have a certain interest in real estate described as follows:

Being an interest in that part of the mineral and asbestos right reserved by Thomas Gilbert and Margaret Gilbert in their Warranty Deed to Dennis Dyer dated October 28, 1918 and recorded in Book 12, page 22 of the Land Records of the Town of Westfield, Vermont. Being all the interest that said owners have in Lots Nos. 3 and 4 in the first and second division of lots in said Westfield.

Reference is hereby made and had to said deed and record and to all former deeds and records for a further and more particular description of the above described premises.

And, Whereas, the said company is desirous of prospecting said interest for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of One Hundred Fifty Dollars, the receipt of which is hereby acknowledged, which sum is payment for the interests to be granted herein and also for such similar interests as Anna Gilbert Sullivan will subsequently convey as Trustee of the Estate of Ruth Gilbert under the will of Margaret Gilbert when license to sell such interest shall be granted by the Probate Court for the District of Orleans, State of Vermont, the said owners hereby grant to the company the right to explore said mineral rights for the receiving and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said minerals and do any other act or thing appropriate to the accomplishment of the purposes stated herein.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of One Hundred Fifty Dollars that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is further agreed, by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on payment of Fourteen Hundred Dollars for the interest so purchased to the owners, all or any portion of the interest hereinbefore described. Upon notice to the owners within two years from the date hereof by the company of its election to exercise its option,

said owners covenant and agree to forthwith make, execute and deliver to the Company, their good and sufficient quitclaim deed of the rights so required by it.

IN WITNESS WHEREOF, said owners have hereunto subscribed their hands and affixed their seals, and said corporation has hereunto set its corporate name and affixed its corporate seal by Michael J. Messel, its authorized agent, this 13th. day of February, C.D. 1951

In presence of:

(Owners)

RUBEROID COMPANY, Vermont Asbestos Mines

By: Its authorized agent

STATE OF NEW HAMPSHIRE)
)
Hillsborough County, ss)

At Manchester in said county this 13th. day of February, 1951, before me personally appeared Ruth Gilbert and Anna Gilbert Sullivan and they acknowledged this instrument, by them seald and subscribed, to be their free act and deed.

Notary Public

My commission expires
1/18/52

STATE OF NEW HAMPSHIRE)
)
Hillsborough County, ss)

At Manchester in said county this 13th. day of February, 1951, before me personally appeared Michael J. Messel as duly authorized agent for the Ruberoid Company, Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

Notary Public

My commission expires
1/15/56

AGREEMENT

This indenture made and executed by and between Anna Gilbert Sullivan, Trustee of the Estate of Margaret Gilbert, late of Westfield, Vermont, hereinafter designated as the Trustee, which expression shall include her successors or assigns, where the context so requires or admits, of the first part, and the Ruberoid Company, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the county of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors or assigns, where the context so requires or admits,

W I T N E S S E T H :

Whereas, said Trustee holds a certain interest in real estate, in trust, under the Will of Margaret Gilbert described as follows:

Being an interest in that part of the mineral and asbestos rights reserved by Thomas Gilbert and Margaret Gilbert in their Warranty Deed to Dennis Dyer dated October 28, 1918 and recorded in Book 12, page 22 of the Land Records of the Town of Westfield. Being all the interest that passed in trust under the Will of Margaret Gilbert in Lots Nos. 3 and 4 in the first and second division of lots of land in said Westfield.

Reference is hereby made and had to said deed and record and to all former deeds and their records for a further and more particular description of the above described premises.

And, Whereas, the said company is desirous of prospecting said

interest for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of seventy-five dollars, the receipt of which is hereby acknowledged, and under authority granted by the Probate Court for the District of Orleans on February 28, 1951, the said Trustee hereby grants to the company the right to explore said mineral rights for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said minerals and do any other act or thing appropriate to the accomplishment of the purposes stated herein.

2. The Trustee further covenants and agrees that at the election of the company and upon payment by it to her of the further sum of seventy-five dollars that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is further agreed, by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on payment of seven hundred dollars for the interest so purchased to the Trustee, all or any portion of the interest hereinbefore described. Upon notice to the Trustee within two years from the date hereof by the company of its election to exercise its option, said Trustee covenants and agrees to forthwith make, execute and deliver to the company, pursuant to the License to Sell granted by the Probate Court for the District of Orleans on February 28, 1951, her

good and sufficient quitclaim deed of the rights so required by it.

IN WITNESS WHEREOF, said Trustee has hereunto subscribed her hand and affixed her seal, and said corporation has hereunto set its corporate name and affixed its corporate seal by Michael J. Messel, its authorized agent, this 13. day of March, A. D. 1951.

In presence of:

Anna Gilbert Sullivan
Trustee

Ruberoid Company, Vermont Asbestos Mines

By: Michael J. Messel
Its authorized agent

STATE OF NEW HAMPSHIRE)
)
Hillsborough County, ss.)

At Manchester in said county this 13. day of March, 1951, before me personally appeared Anna Gilbert Sullivan, Trustee of the Estate of Margaret Gilbert, and she acknowledged this intrument, by her sealed and subscribed, to be her free act and deed.

My commission expires
1/16/56

STATE OF VERMONT)
)
Orleans County, ss.)

At Lowell in said county this 8th day of March, 1951, before me personally appeared Michael J. Messel as duly authorized agent for the Ruberoid Company, Vermont Asbestos Mines, and he achnowledged this intrument, by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

Gilbert A. Magoon
Notary Public

AGREEMENT

Between

Anna Gilbert Sullivan, Trustee

of the Estate of Margaret Gilbert

and

Ruberoid Company

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]: Mary Lou Ludwig
Asst. [illegible] Clerk

AGREEMENT

This Indenture made and executed by and between Quentin L. Elliot and Ruth Elliot of ~~Lowell~~ Newport in the county of Orleans and State of Vermont, hereinafter designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and The Ruberoid Company, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the county of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors or assigns, where the context so requires or admits,

W I T N E S S E T H:

Whereas, said owners have certain real estate situated in Lowell in the county of Orleans, containing three hundred seventy (370) acres, more or less, and further described as follows:

Being all of Lot No. ten (10), Range nine (9) and being parts of Lot. No. eleven (11) in the ninth (9) Range, Lot No. ten (10) in the eighth (8) Range, Lot No. nine (9) in the (8) Range and Lot No. eight (8) in the ninth (9) range. Meaning to hereby include all the property of the said owners in the town of Lowell and being all and the same land and premises described in warranty deed of Merton H. Thayer and Verna L. Thayer to owners herein dated September 12, 1950, and of record in Book 22, page 3 of Lowell Land Records.

Reference is hereby made and had to said deed and record and to

all former deeds and records for a further and more particular description of the lands and premises herein conveyed.

And, whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of a payment of one dollars and fifty cents ($1.50) per acre, and other good and valuable considerations, the receipt of which is hereby acknowledged, the said owners hereby grant to the company the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owners and in connection therewith hereby undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise of its right as herein set forth.

2. The owners further covenant and agree at the election of the company and upon payment by it to them of the further sum of one dollar and fifty cents ($1.50) per acre, that the rights and interests granted to the company in paragraph one above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or differences shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen and the award in writing signed by any two of such arbitrators shall be final: Provided, that such award shall be made within thirty days after the reference to the said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed by and between the parties hereto that for and during a period of two years from the date of these payments, the company shall have the right and option to purchase, on payment of fifteen dollars ($15.) for each acre of land so purchased to the owners, all or any portion of the land and premises hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same, over the above-described lands and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Upon notice to the owners within two years from the date hereof by the company of its election to exercise its option and the extent thereof, said owners covenant and agree to forthwith make, execute and deliver to the company, their good and sufficient warranty

deed of the lands and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyances made as therein provided shall be subject to the right of the owners to enter upon said lands for a period of two years from and after the date of deed to the company and, in husbandlike manner, cut, skid, yard and remove all trees thereon then suitable for merchantable timber or pulpwood and to the extent reasonably practicable, without interference with operations on said premises by the company.

IN WITNESS WHEREOF, said owners have hereunto subscribed their hands and affixed their seals and said corporation has hereunto set its corporate name and affixed its corporate seal by Michael J. Tessel, its authorized agent, this ..4... day of ..May..., A. D. 1951.

In presence of:

..J. H. Cotter.....)
.....)
.....)

..... (Seal)
..... (Seal)

..J. H. Cotter.....)
.....)
.....)

THE SUPEROLD COMPANY, Vermont Asbestos Mines
By ..... (Seal)
Its authorized agent.

STATE OF VERMONT)
)
. . . . . County, ss.)

At . . . . . in said county this ..4.. day of . . . . . ., A. D. 1951, before me personally appeared Quentin L. Elliot and Ruth Elliot and they acknowledged this instrument, by them sealed and subscribed, to be their free act and deed.

. . . . . .
Notary Public

STATE OF VERMONT)
)
. . . . . County, ss.)

At . . . . . in said county this . 4 . day of . . . . . ., A. D. 1951, before me personally appeared Michael J. Meswell as duly authorized agent for The Ruberoid Company, Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

. . . . . .
Notary Public

AGREEMENT

between

Quentin L. Elliott and Ruth

Elliott

and

The Ruberoid Company

Lowell

May 4 20

22 35-31

Clerk

Rec. Orders Fee $

AGREEMENT

This indenture made and executed by and between Russell F. Bliss and Elizabeth W. Bliss of Lowell in the county of Orleans and State of Vermont, hereinafter designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and The Ruberoid Company, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the county of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors or assigns, where the context requires or admits,

W I T N E S S E T H:

Whereas, said owners have certain real estate situated in Lowell in the county of Orleans, described as follows:

Being 45 acres, more or less, in the south half of Lot fifteen (15) in the seventh (7) Range of Lots of Land in said Lowell, and being a part of the same land and premises described in a quit-claim deed of D. F. Naramore to owners herein dated October 25, 1944, and of record in Book 20, page 76 of the Lowell Land Records. Meaning to hereby include all land held by the said owners in Lot fifteen (15) Range Seven not heretofore optioned to the said company. It is the intention of the parties to hereby include all the mineral and asbestos rights that they may now hold or hereafter acquire in the above described property by virtue of any right now possessed.

Reference is hereby made and had to said deed and record and to all former deeds and records for a further and more particular description of the above described premises.

And, whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of the payment of one hundred twelve dollars and fifty cents ($112.50) and other good and valuable considerations, the receipt of which is hereby acknowledged, the said owners hereby grant to the company the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts ascertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owners and in connection therewith hereby undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise of its right as herein set forth.

2. The owners further covenant and agree that the election of the company and upon payment by it to them of the further sum of one hundred twelve dollars and fifty cents ($112.50), that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or difference shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two

parties so chosen and the award in writing signed by any two of such arbitrators shall be final: Provided, however, that such award shall be made within thirty days after the reference to the said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed by and between the parties hereto that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on payment of one thousand five hundred seventy-five dollars ($1575.), the land hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same, over the above-described lands and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Upon notice to the owners within two years from the date hereof by the company of its election to exercise its option and the extent thereof, said owners covenant and agree to forthwith make, execute and deliver to the company, their good and sufficient warranty deed of the lands and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyances made as therein provided shall be subject to the right of the owners to enter upon said lands for a period of three years from and after the date of deed to the company and, in husbandlike manner, cut, skid, yard and remove all

trees thereon then suitable for merchantable timber or pulpwood and to the extent reasonably practicable, without interference with operations on said premises by the company.

IN WITNESS WHEREOF, said owners have hereunto subscribed this hands and affixed their seals and said corporation has hereto set its corporate name and affixed its corporate seal by Michael J. Lessel, its authorized agent, this ...2... day of .....May....., A. D. 1951.

In presence of:

.....) .....
.....) .....
.....) .....
.....) .....

.....) THE RUBEROID COMPANY, Vermont Asbestos Mines
.....) By: .....
.....) Its authorized agent

STATE OF VERMONT)
.Orleans... County, ss.)

At ..Newport..... in said county this ...2... day of .May..... , A. D. 1951, before me personally appeared Russell F. Bliss and Elizabeth R. Bliss and they acknowledged this instrument, by them sealed and subscribed, to be their free act and deed.

.....
Notary Public

STATE OF VERMONT)
[illegible] County ss.)

At [illegible] in said county this [illegible] day of [illegible], A. D. 1951, before me personally appeared Michael J. Lessel as duly authorized agent for The Ruberoid Company, Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

[illegible]
Notary Public

AGREEMENT

between

RUSSELL F. BLISS AND ELIZABETH B. BLISS

and

THE RUBEROID COMPANY

Lowell

RECEIVED FOR RECORD

May 3 ... 51

At 2 O'Clock 30 ... P.

and Recorded i ...

Book 22 Pages 33-34 of Land Records

Attest S. P. Tuttle

Clerk

Rec. Orders Fee $...

AGREEMENT

This indenture made and executed by and between Russell F. Bliss and Elizabeth B. Bliss of Lowell in the county of Orleans and State of Vermont, hereinafter designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and the Ruberoid Company, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the county of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors or assigns, where the context so requires or admits,

W I T N E S S E T H :

Whereas, the said owners have certain real estate situated in Lowell in the county of Orleans, containing two hundred acres, more or less, and further described as follows:

Being the north half of Lot fifteen (15) in the seventh (7) Range, also all of Lot sixteen (16) in the seventh (7) Range, also the east half of Lot seventeen (17) in the seventh (7) Range of lots in Lowell aforesaid, and being a part of the land and premises described in a quitclaim deed of D. P. Naramore to owners herein dated October 25, 1944, and of record in Book 20, page 76 of the Lowell Land Records. Meaning to hereby include all the mineral and asbestos rights that they may now hold or hereafter acquire in the above described property by virtue of any right now possessed.

Reference is hereby made and had to said deed and its record and to all former deeds and their records for a further and more particular description of the above described premises.

And, Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of a payment of five hundred dollars, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said owners hereby grant to the company, the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purpose stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owners, and in connection therewith undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise or its right as herein set forth.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of five hundred dollars that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof. such disagreement or difference shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen and the award in writing signed by any two of such arbetrators shall be final: Provided, that such award shall be made within thirty days after the reference to the said arbitrators. If either party shall neglect of refuse to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed, by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on payment of seven thousand dollars to the owners, the land and premises hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same, over the above-described lands and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Upon notice to the owners within two years from the date hereof by the company of its election to exercise its option and the extent thereof, said owners covenant and agree to forthwith make, execute and deliver to the company, their good and

sufficient warranty deed of the lands and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyances made as therein provided shall be subject to the right of the owners to enter upon said land for a period of three years from and after the date of deed to the company and, in husbandlike manner, cut, skid, yard and remove all trees thereon then suitable for merchantable timber or pulpwood, and to the extent reasonably practicable, without interference with operations on said premises by the company.

IN WITNESS WHEREOF, said owners have hereunto subscribed their hands and afixed their seal, and said corporation has hereunto set its corporate name and affixed its corporate seal by Michael J. Messel its authorized agent, this 9th day of March, A. D. 1951.

In presence of:

Russell F. Bliss

Elizabeth B. Bliss

Owners

RUBEROID COMPANY, Vermont Asbestos Mines

By: Michael J. Messel

Its authorized agent

STATE OF VERMONT)
)
Orleans County, ss.)

At Lowell in said county this 9th day of March, A. D. 1951, before me personally appeared Russell F. Bliss and Elizabeth B. Bliss and they acknowledged this instrument, by them sealed and subscribed, to be their free act and deed.

Notary Public

STATE OF VERMONT)
)
Orleans County, ss.)

At Lowell in said county this 9th day of March, A. D. 1951, before me personally appeared Michael J. Messel as duly authorized agent for the Ruberoid Company, Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

Notary Public

AGREEMENT

between

Russell F. & Elizabeth B. Bliss

And

Ruberoid Company

Lowell

RECEIVED FOR RECORD

April 18th

At 11 O'Clock 15 Minutes A.M.

and Recorded in

Book 22 Pages 30-31 Land Records

Attest D. P. Manner

Clerk

Rec. Clerk's Fee $

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AGREEMENT

This indenture made and executed by and between Hector Descheneaux and Theresa Descheneaux of Troy in the County of Orleans and State of Vermont, hereinafter designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and The Ruberoid Co., a corporation organized and existing under and by virtue of the laws of the State ofNew Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the County of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors and assigns, where the context so requires or admits.

W I T N E S S E T H :

Whereas, said owners have certain real estate situated in Troy in the County of Orleans containing ..400.. acres, more or less, and further described as follows:

Being all and the same land and premises as was conveyed to the owners herein by the Warranty Deed of Henry Roberts and Roseamande Roberts dated July 28,1949 and recorded in Book 32 , page 363 of Troy Land Records, and all and the same land and premises as was conveyed to the owners herein by the Warranty Deed of Valley Savings Bank & Trust Company dated May 12,1947 and recorded in Book 31, page 286 of Troy Land Records.

Reference is hereby made and had to said deed and its record and to all former deeds and their records for a further and more particular description of the above-described premises.

And, Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof:

1. Now therefore , in consideration of a payment of 50/100 dollars per acre, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said owners hereby grant to the company, the right to go upon said land and premises at any and all times for and during the period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey date, information and facts appertaining thereto, and may in connection therewith, drill ,blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owners and in connection therewith hereby undertakes and agrees to indemnify and make good any damage to trees, fences or buildings in the exercise of its rights as herein set forth.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of 50/100 dollars per acre that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or difference shall be referred to three arbitrators, one to be chosen by each party hereto and the other to be appointed by the two parties so chosen and the award in writing signed by any two of such arbitrators shall be final; provided, that such award shall be made within thirty days after the reference to said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed by and between the parties hereto that for and during a period of two years from the date of these presents, the company shall have the right and option to the purchase,

on payment of Ten Thousand Dollars ($10,000.00) all of the land and premises herein described, including surface rights and all mineral rights that the owners may now hold or hereafter acquire through rights that they now possess, together with suitable rights of way to and from the same. Upon notice to the owners within two years from date hereof by the company of its election to exercise its option, said owners convenant and agree to forthwith make, execute and deliver to the company, their good and sufficient warranty deed of the lands and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyance made as therein provided shall be subject to the right of the owners to enter upon said lands for a period of two years from and after the date of deed to the company, and in husbandlike manner, cut, skid, yard and remove all trees thereon then suitable for merchantable timber or pulpwood, and the extent reasonably practicable, without interference with operations on said premises by the company.

IN WITNESS WHEREOF, SAID OWNERS HAVE HERETO SUBSCRIBED their hands and affixed their seals, and said corporation has hereunto set it corporate name and affixed its corporate seal by Michael J.Messel, its authorized agent, this 23rd day of April A.D., 1952.

In the presence of:

James R. Grant

Robert A. Magoon

Hector Descheneaux

Theresa Descheneaux
Owners

James R. Grant

Robert Magoon

The Ruberoid Co., Vermont
Asbestos Mines
by Michael J. Messel
Its authorized agent

STATE OF VERMONT)
)
Orleans County, ss)

At Troy in said county this 23rd day of April A.D. 1952 before me personally appeared Hector Descheneaux and Theresa Descheneaux and they acknowledged this instrument, by them sealed and subscribed to be their free act and deed.

signed- Robert A. Magoon
Notary Public

STATE OF VERMONT)
)
Orleans County, ss)

At Troy in said county this 23rd day of April A.D. 1952 before me personally appeared Michael J. Messel as duly authorized agent for The Ruberoid Co., Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed to be the free act and deed of himself and of said corporation.

signed - Robert A. Magoon
Notary Public

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AGREEMENT

This indenture made and executed by and between Vermont Marble Company, a corporation organized and existing under and by virtue of the laws of the State of Vermont, having its offices at Proctor in the County of Rutland and State of Vermont, hereinafter designated as the owner, which expression shall include its successors and assigns, where the context so requires or admits, of the first part, and The Ruberoid Co., a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the County of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors and assigns, where the context so requires or admits.

W I T N E S S E T H :

Whereas, said owner has a certain interest in real estate situated in Troy in the County of Orleans containing one hundred eighteen acres, more or less, and further described as follows:

Being the south half of Lot No. ninety-two (92) and the north half of Lot No. ninety-one (91), also all that part of the north half of lot No. one hundred (100) as lies between the East Hill Road, so-called, and the north half of Lot No. ninety-one, and all that part of the south half of Lot No. ninety-

nine (99) as lies between the East Hill Road, so-called, and the south half of Lot No. ninety-two of Lots of Land in the Town of Troy. Meaning all rights and interest that the owner now possesses or may hereafter acquire through rights that it now holds in the above described premises, including, but without limiting the generality of this conveyance, all rights reserved by the owner in its Quit-Claim Deed of the above described premises to Helen Holden dated September 27, 1940 and recorded in Book 30, Page 238 of Troy Land Records.

Reference is hereby made and had to said deed and its record and to all former deeds and their records for a further and more particular description of the premises herein conveyed.

And, Whereas, the said company is desirous of prospecting said interest for the purpose of preparing a geological map thereof:

1. Now, therefore, in consideration of a payment of two hundred thirty-six dollars ($236.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the said owner hereby grants to the company the right to explore said interest for the securing of geological data, information and facts appertaining thereto, and may in connection therewith drill, blast and take samples of said interest and do any other act or thing appropriate to the accomplishment of the purposes stated herein, for the period of one (1) year from the date hereof.

VMCO _____

TRCO _____

2. The owner further covenants and agrees that at the election of the company and upon payment by the said company to

the owner of the further sum of two hundred thirty-six dollars ($236.00) the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is further agreed by and between the parties hereto that for and during a period of two years from the date of these presents the company shall have the right and option to purchase, on payment of five thousand four hundred seventy dollars ($5,470.00) for the interest so purchased to the owner, all of the interest hereinbefore described. Upon notice to the owner within two years from the date hereof by the company of its election to exercise its option, said owner covenants and agrees to forthwith make, execute and deliver to the company its good and sufficient Quit-Claim Deed of the rights so required by it herein optioned.

VMCO BR

TRCO

IN WITNESS WHEREOF, said owner has hereunto set its corporate name and affixed its corporate seal by B. N. Reissig, its authorized agent, and said company has hereunto set its corporate name and affixed its corporate seal by Michael J. Messel, its authorized agent, this 9th day of April, A. D. 1952.

In presence of:

Stanley L. Burns
Vaughan F. Beyre
I. E. Matthews
Robert A. Magoon

Vermont Marble Company SEAL

By: Barton N. Reissig
Its authorized agent

The Ruberoid Co., Vermont Asbestos Mines SEAL

By: Michael J. Messel
Its authorized agent

STATE OF VERMONT)
)
RUTLAND COUNTY, ss.)

At Proctor in said County this 9th day of April A. D. 1952 before me personally appeared B. N. Reissig as duly authorized agent for Vermont Marble Company, and he acknowledged this instrument, by him sealed and subscribed to be the free act and deed of himself and of said corporation.

/s/ STANLEY L. BURNS
Notary Public

STATE OF VERMONT)
)
ORLEANS COUNTY, ss.)

At Lowell in said County this 18th day of April A. D. 1952 before me personally appeared Michael J. Mossel as duly authorized agent for The Ruberoid Co., Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed to be the free act and deed of himself and of said corporation.

/s/ ROBERT A. MAGOON
Notary Public

C
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The RUBEROID Co.
500 Fifth Ave.
New York 36, N.Y.

Executive Offices

May 16, 1952

Mr. McHenry Mosier
College Park
Maryland

Dear Mr. Mosier:

We are enclosing herewith copies of two registered options on the East Hill Area in Troy as follows:

1. Vermont Marble Co.
2. Hector Descheneaux and
   Thersa Descheneaux

These are in connection with 1-DMA-E23, Docket 1210 Exploration Project Contract (Asbestos).

Yours very truly,

The RUBEROID Co.

/s/G. F. Bahrs
G. F. BAHRS
Secretary

:hvm

Enc.

AGREEMENT

Joseph Rondeau and Evelina
Rondeau

&

The Ruberoid Co.

Westfield, Vt. Town Clerk's Office.
August 1st, 1952. 4:35 P.M. Recorded
in Book 15 Page 461-62 of Westfield
Land Records.

Attest: Mary Lou Rudd
Asst. Town Clerk

AGREEMENT

This indenture, made and executed by and between Joseph Rondeau and Evelina Rondeau of the Town of Newport in the County of Orleans and State of Vermont, hereinafter designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and The Ruberoid Co., a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the County of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors and assigns, where the context so requires or admits,

W I T N E S S E T H:

Whereas, said owners have certain real estate situated in Westfield in the County of Orleans, containing one hundred four acres, more or less, and further described as follows:

> Being one hundred four acres, more or less, in Lot Number 15 in the First Division of Lots in the Town of Westfield and being a part of the same land and premises deeded to the said Joseph and Evelina Rondeau by the warranty deed of Romeo and Cecile Martin dated October 23, 1950, and recorded in Book 15, page 396 of Westfield Land Records. Reference is hereby made and had to said deed and record and to all former deeds and records for a further and more particular description of the lands and premises above described.

And, Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of a payment of $ 208.00

and other good and valuable consideration, the receipt of which is hereby acknowledged, the said owners hereby grant to the company, the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated therein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owners and in connection therewith hereby undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise of its right as herein set forth.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of $208.00 that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement of difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or differences shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen and the award in writing signed by any tow of such arbitrators shall be final: Provided, that such award shall be

made within thirty days after the reference to the said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed, by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on payment of Five Thousand Dollars ($5,000.00) to the owners, the land and premises hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same, over the above-described lands and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Upon notice to the owners within two years from the date hereof by the company of its election to exercise its option and the extent thereof, said owners covenant and agree to forthwith make, execute and deliver to the company, their good and sufficient warranty deed of the lands and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyances made as therein provided shall be subject to the right of the owners to enter upon said lands for a period of two years from and after the date of deed to the company and, in husbandlike manner, cut, skid, yard and remove all trees thereon then suitable for merchantable timber or pulpwood, and to the extent reasonably practicable, without interference with operations on said premises by the company.

IN WITNESS WHEREOF, said owners have hereunto subscribed their hands and affixed their seals, and said corporation has hereunto set its corporate name and affixed its corporate seal by Michael J. Messel, its authorized agent, this 1st day of August, A. D. 1952.

In presence of:

Leopold Archambault)
Robert A. Magoon)

Joseph Rondeau
Evelina Rondeau
(Owners)

Leopold Archambault)
Robert A. Magoon)

THE RUBEROID CO., Vermont Asbestos Mines
By: Michael J. Messel
Its authorized agent.

STATE OF VERMONT)
Orleans County, ss.)

At Town of Newport in said county this 1st day of August, A. D. 1952, before me personally appeared Joseph Rondeau and Evelina Rondeau, and they acknowledged this instrument, by them sealed and subscribed, to be their free act and deed.

Robert A. Magoon
Notary Public

STATE OF VERMONT)
)
Orleans County, ss.)

At Town of Newport . . . . . in said county this 1st day of August, A. D. 1952, before me personally appeared Michael J. Messel as duly authorized agent for The Ruberoid Co., Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

Robert A. D. Magnon
Notary Public

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 23 1952

AGREEMENT

This indenture made and executed by and between H. S. Richardson and Olive Richardson of Lowell in the county of Orleans and State of Vermont, hereinafter designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and the Ruberoid Company, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the county of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors or assigns, where the context so requires or admits,

W I T N E S S E T H:

Whereas, said owners have certain real estate situated in Lowell in the county of Orleans, containing two hundred acres, more or less, and further described as follows:

Being approximately eighty acres in Lot 19, Range 11, one hundred acres in Lot 18, Range 11, and all that part of Lot 18, Range 12, situate easterly of the highway leading from Lowell to Westfield, EXCEPTING AND RESERVING therefrom all farm and residence buildings situate on Lot 18, Range 12, and five acres of land therewith. It is understood and agreed by the parties that shall the company exercise the option to purchase hereinafter written, that said owners at the time of execution and delivery of the deed shall reserve said buildings and at their election determine and define in said deed the survey and bounds of the parcel of land reserved

for the site and use with said buildings aggregating five acres, surface measure. The land and premises herein mentioned, are further described in warranty deed of Andrew Richardson to Horace Richardson dated May 26, 1906 and recorded in Book 14, page 331, Lowell Land Records.

Reference is hereby made and had to said deed and record and to all former deeds and records for a further and more particular description of the above described premises.

And, Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, Therefore, in consideration of a payment of three dollars per acre, and other good and valuable considerations, the receipt of which is hereby acknowledged, the said owners grant to the company the right to go upon said land and premises at any and all times for and during a period of one year from the date of these present, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owners and in connection therewith hereby undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise of its rights as herein set forth.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of three dollars per acre that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period

of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or difference shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen, and the award in writing signed by any two of such arbitrators shall be final: Provided, that such award shall be made within thirty days after the reference to the said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose and his award in writing signed by him shall be final.

4. It is further agreed by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on payment of thirty dollars for each acre of land so purchased to the owners, all or any portion of the land and premises hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same, over the above described lands and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Under notice to the owners within two years from the date hereof by the company of its election to exercise its option and the extent thereof, said owners covenant and agree to forthwith make, execute and deliver to the company, their good and sufficient warranty deed of the lands

and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyances made as therein provided shall be subject to the right of the owners to enter upon said lands for a period of two years from and after the date of deed to the company and, in husbandlike manner, cut, skid, yard and remove all trees thereon then suitable for merchantable timber or pulpwood and, to the extent reasonably practicable, without interference with operations on said premises by the company.

IN WITNESS WHEREOF, said owners have hereunto subscribed their hands and affixed their seals, and said corporation has hereunto set its corporate name and affixed its corporate seal by [illegible] its authorized agent, this [illegible] day of January, A. D. 1951.

In presence of:

Merrill E. Edson — Horace S. Richardson

[illegible] — Olive Richardson

(Owners)

Merrill E. Edson

[illegible]

RUBEROID COMPANY, Vermont Asbestos Mines

By: [illegible] LS

Its authorized agent

STATE OF VERMONT)
)
. . . . . County, ss.)

At . . . . . in said county this . . . . . day of January, A. D. 1951, before me personally appeared H. S. Richardson and Olive Richardson and they acknowledged this instrument, by them sealed and subscribed, to be their free act and deed.

. . . . . .
Notary Public

STATE OF VERMONT)
)
. . . . . County, ss.)

At . . . . . in said county this . . . . . day of January, A. D. 1951, before me personally appeared
as duly authorized agent for the Ruberoid Company, Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

. . . . . .
Notary Public

AGREEMENT

N. S. Richardson and Clive Richardson

Lowell

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J. P. Torrance

AGREEMENT

This indenture made and executed by and between H. A. Parker and Bertha E. Parker of Lowell in the county of Orleans and State of Vermont, hereinafter designated as the owner, which expression shall include ~~his~~ Their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and the Ruberoid Company, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the county of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors or assigns, where the context so requires or admits,

W I T N E S S E T H:

Whereas, said owner has certain real estate situated in Lowell in the county of Orleans, containing fifty acres, more or less, and further described as follows:

Being all of the land which said owner now holds in Lot 12, Range 9 of Lots in said Lowell, and being more particularly described in deed from W. M. Carter to said owner of record in Book 16, page 525, Lowell Land Records.

Reference is hereby made and had to said deed and record and to all former deeds and records for a further and more particular description of the above described premises.

And Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of a payment of three dollars

per acre, and other good and valuable considerations, the receipt of which is hereby acknowledged, the said owner hereby grant$ to the company, the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owner and in connection therewith hereby undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise of its rights as herein set forth.

2. The owner further covenant$ and agrees that at the election of the company and upon payment by it to him of the further sum of three dollars per acre that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or differences shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen, and the award in writing signed by any two of such arbitrators shall be final: Provided, that such award shall be made within thirty days from the reference to the said arbitrators. If

either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on payment of thirty dollars for each acre of land so purchased to the owner, all or any portion of the land and premises hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same, over the above described lands and other lands of the owner to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Under notice to the owner within two years from the date hereof by the company of its election to exercise its option and the extent thereof, said owner covenants and agrees to forthwith make, execute and deliver to the company, his good and sufficient warranty deed of the lands and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyances made as therein provided shall be subject to the right of the owners to enter upon said lands for a period of two years from and after the date of deed to the company and, in husbandlike manner, cut, skid, yard and remove all trees thereon then suitable for merchantable timber or pulpwood and, to the extent reasonably practicable, without interference with operations on said premises by the company.

IN WITNESS WHEREOF, said owner has hereunto subscribed ~~his~~ their hand and affixed ~~his~~ their seal, and said corporation has hereunto set its corporate name and affixed its corporate seal by [illegible] its authorized agent, this 27 day of January, A. D. 1951.

In presence of:

Merrill E. Edson ..... H. A. Parker
[illegible] ..... (Owner)
Bertha E. Parker ..... L.S.

Merrill E. Edson ..... RUBEROID COMPANY, Vermont Asbestos Lines
[illegible] ..... By: [illegible] .LS
Its authorized agent

STATE OF VERMONT)
[illegible] County, ss.)

At [illegible] in said county this 27 day of January, A. D. 1951, before me personally appeared H. A. Parker and ~~he~~ Bertha E. Parker and they acknowledged this instrument, by ~~him~~ them sealed and subscribed, to be ~~his~~ their free act and deed.

[illegible]
Notary Public

STATE OF VERMONT)
. . . . . County, ss.)

At . . . . . in said county this . . . . . day of January, A. D. 1951, before me personally appeared as duly authorized agent for the Ruberoid Company, Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

. . . . . .
Notary Public

ACHILLEIT

H. A. Parker

Lowell

Powell

9 January 30 30 51

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D 1 January

AGREEMENT

This indenture made and executed by and between Ara J. Pope and Mae Pope of Lowell in the county of Orleans and State of Vermont, hereinafter designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and the Ruberiod Company, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the county of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors or assigns, where the context so requires or admits,

W I T N E S S E T H :

Whereas, said owners have certain real estate situated in Lowell in the county of Orleans described as follows:

Being that portion of Lot No. seventeen (17) in the tenth (10) Range of lots of land in said Lowell lying and being on the west side of the East Branch of the Missisquoi River and containing approximately 50 acres, and being a part of the land and premises described in warranty deed of C. F. Kelley to owners herein dated October 2, 1919, and of record in Book 16, page 366 of the Land Records of the town of Lowell.

Reference is hereby made and had to said deed and record and to all former deeds and records for a further and more particular description of the above described premises.

And, Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of a payment of three dollars per acre, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said owners hereby grant to the company the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owners and in connection therewith hereby undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise of its right as herein set forth.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of three dollars per acre that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or difference shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen and the award in writing signed by any two of such arbitrators

shall be final: Provided, that such award shall be made within thirty days after the reference to the said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitratorand served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed, by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on payment of thirty dollars for each acre of land so purchased to the owners, all or any portion of the land and premises hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same, over the above-described land and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent lands acquired under this option. Upon notice to the owners within two years from the date hereof by the company of its election to exercise its option and the extent thereof, said owners covenant and agree to forthwith make, exesute and deliver to the company, their good and sufficient warranty deed of the lands and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyance made as therein provided shall be subject to the right of the owners to enter upon said lands for a period of two years from and after the date of deed to the company and, in husbandlike manner, cut, skid, yard and remove all trees thereon then suitable for merchantable timber or pulpwood, and to the extent reasonably practicable, without interference with operations on said premises by the company.

IN WITNESS WHEREOF, said owners have hereunto subscribed their hands and affixed their seals, and said corporation has hereunto set its corporate name and affixed its corporate seal by Michael J. Messel, its authorized agent, this 26 day of February, A. D. 1951.

In presence of:

Merrill E. Edson

Ara J. Pope

Mae H. Pope

Owners

RUBEROID COMPANY Vermont Asbestos Mines

By Michael J. Messel

Its authorized agent

STATE OF VERMONT)
)
Orleans County, ss.)

At Lowell in said county this 26 day of February, A. D. 1951, before me personally appeared Ara J. Pope and Mae Pope and they acknowledged this instrument, by them sealed and subscribed, to be their free act and deed.

Notary Public

STATE OF VERMONT)
)
Orleans County, ss.)

At Lowell in said county this 26. day of February, A. D. 1951, before me personally appeared Michael J. Messel as duly authorized agent for the Ruberoid Company, Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

Robert L. Magoon
Notary Public

AGREEMENT

[illegible] Lowell

February 22 51
11 15 4

22 26-27
[illegible]

AGREEMENT

This indenture made and executed by and between Fernand D. Racicot and Armande M. Racicot of Lowell in the county of Orleans and State of Vermont, hereinafter designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and the Ruberoid Company, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Slate, having its principal office at Hyde Park in the county of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors or assigns, where the context so requires or admits,

[illegible]:

Whereas, said owners have certain real estate located in Lowell in the county of Orleans, containing [illegible] acres, more or less, and further described as follows:

[illegible] acres, [illegible] of lot 21, [illegible] 9, and fifty acres, [illegible] Lot [illegible] in said Lowell, [illegible] described in warranty deed of [illegible] dated July 1, [illegible], [illegible].

[illegible] all [illegible] of the above described [illegible].

Now, [illegible] real estate [illegible];

1. Now, therefore, in consideration of a payment of three dollars per acre, and other good and valuable considerations, the receipt of which is hereby acknowledged, the said owners hereby grant to the company, the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and to any other act or thing appropriate to the accomplishment of the purposes stated herein. The said grantors and agree to refrain from erecting any unnecessary damage to said land and premises and from interfering with the personal privacy of said company and its employees, provided, however, nevertheless and agreed to indemnify and save harmless said grantors from and against any and all claims and demands for damages in the exercise of the rights herein granted.

2. [illegible] the election of [illegible] of the [illegible] of the company to drill [illegible] period [illegible] months [illegible] the [illegible] and [illegible] up- [illegible] by any

Merrill E. Edson

Fernand Racicot
Fernande Racicot

Merrill E. Edson

Richard Jarussel

Lowell

STATE OF [illegible])
)
Orleans . . . . County, ss.)

At . . Lowell . . . . in said county this . . 6. day of January, A. D. 19[illegible], before me personally appeared [illegible] . . . . . [illegible] agent for [illegible], [illegible], and he acknowledged this instrument, [illegible], [illegible] [illegible] of said corporation.

. . . . [illegible] . . . .
[illegible]

AGREEMENT

Forend D. & Fernande M. Racicot

Lowell

Tibbetts

22 24-25

AGREEMENT

This indenture made and executed by and between Hector Raboin and Jenalda Raboin of Lowell in the county of Orleans and State of Vermont, hereinafter designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and the Ruberoid Company, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the county of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors or assigns, where the context so requires or admits,

W I T N E S S E T H:

Whereas, said owners have certain real estate situated in Lowell in the county of Orleans, containing one hundred sixty acres, more or less, and further described as follows:

Being one hundred acres, more or less, being all of Lot 20 in Range 10, and sixty acres of the most westerly portion of Lot 20 in Range 9, (starting approximately at the foot of the mountain on said lot) and being a part of the land and premises described in deed of [illegible] to the owners as appears of record in Book [illegible], page [illegible], Lowell Land Records.

Reference is hereby made and had to said deed and record and to all former deeds and records for a further and more particular description of the above described premises.

And, Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of a payment of three dollars per acre, and other good and valuable considerations, the receipt of which is hereby acknowledged, the said owners hereby grant to the company, the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and premises and from interfering with the personal privacy of said owners and in connection therewith hereby undertakes and agrees to indemnify and make good any damage to trees or fences in the exercise of its rights as herein set forth.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of three dollars per acre that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or differences shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen and the award in writing signed by any two of such arbitrators shall be final: Provided, that such award shall be

made within thirty days after the reference to the said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed, by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option to purchase, on payment of thirty dollars for each acre of land so purchased to the owners, all or any portion of the land and premises hereinbefore described, including surface and mineral rights, together with suitable rights of way to and from the same, over the above-described lands and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Upon notice to the owners within two years from the date hereof by the company of its election to exercise its option and the extent thereof, said owners covenant and agree to forthwith make, execute and deliver to the company, their good and sufficient warranty deed of the lands and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyances made as therein provided shall be subject to the right of the owners to enter upon said lands for a period of two years from and after the date of deed to the company and, in husbandlike manner, cut, skid, yard and remove all trees thereon then suitable for merchantable timber or pulpwood and, to the extent reasonably practicable, without interference with operations on said premises by the company.

The undersigned L. A. Ste. Marie and Lucienne Ste. Marie as mortgagees of the premises herein described, join in the execution and delivery of this instrument, consent to the license and rights herein granted, and to the option to purchase, provided, however, that said company and owners agree from any purchase price paid by the company to said owners in accordance with the terms of this agreement, that the amount thereof, not exceeding the sum due on the mortgage and indebtedness of said owners to said mortgagees at the time of such payment, shall be applied in reduction or satisfaction of said mortgage debt, as the case may be.

IN WITNESS WHEREOF, said owners have hereunto subscribed their hands and affixed their seals, and said corporation has hereunto set its corporate name and affixed its corporate seal by its authorized agent, and said mortgagees have affixed their hands and seals, this 29.. day of January, A. D. 1951.

In presence of:

(Owners)

RUBEROID COMPANY, Vermont Asbestos Mines

By: Its authorized agent

L. A. Ste. Marie

Lucienne Ste. Marie

(Mortgagees)

STATE OF VERMONT)
. . . . . County, ss.)

At . . . . . in said county this . . . . day of January, A. D. 1951, before me personally appeared . . . . . as duly authorized agent for the Ruberoid Company, Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed, to be the free act and deed of himself and of said corporation.

. . . . . .
Notary Public

STATE OF VERMONT)
)
. . . . . County, ss.)

At . . . . . in said county this . . . . day of January, A. D. 1951, before me personally appeared Hector Raboin and Venalda Raboin and they acknowledged this instrument, by them sealed and subscribed, to be their free act and deed.

. . . . . .
Notary Public

STATE OF VERMONT)
)
. . . . . County, ss.)

At . . . . . in said county this . . . . day of January, A. D. 1951, before me personally appeared L. A. Ste. Marie and Lucienne Ste. Marie and they acknowledged this instrument, by them sealed and subscribed, to be their free act and deed.

. . . . . .
Notary Public

AGREEMENT

Hector & Vanalda Raboin

Lowell

Lowell

9 - January 30 30 51 a.

22 22-23

D. P. Fournier

COPY

CORE DRILLING AGREEMENT

1. THIS AGREEMENT, made and entered into this fifteenth day of May, 1951 by and between The Ruberoid Company of Hyde Park, Vermont the party of the first part and the DY MANUFACTURING COMPANY, of Pittsburgh, Pennsylvania, party of the second part,

Witnesseth:

2. In consideration of certain payments hereby agreed to be made by the said first party to the said second party, the said second party hereby agrees to drill, bore or prospect with a diamond core drill from surface in or near Hyde Park, Vermont at sites to be selected by the said first party, subject to the conditions hereinafter mentioned. It is further agreed by the said first party that the depth of none of the herein specified drill holes shall exceed a depth of 300 feet, and the total amount as guaranteed must be drilled in not more than fifty days.

3. The said second party agrees to use for the above described work one diamond core drill, and men skilled in operating same; to operate the drill, both day and night whenever practicable, and to furnish only such person as the said first party may designate by written order, all core taken out of said prospect holes. Size of core to be approximately 1 1/8" (AX) inches in diameter. The said first party shall provide suitable boxes if it desires to save the core, and if it also desires may have a man at the drill at all times to remove and take charge of said core. No information whatever regarding the records and results of this drilling is to be given any other party, without the written consent of the said first party.

4. The said first party hereby agrees to pay to said second party the following prices for the herein described drilling.

For a minimum of 2,000 feet of drilling	@ $3.50 per ft.
For all drilling in excess 2,000 feet	@ $3.25 per ft.

5. In accordance with this agreement, the said first party hereby guarantees the said second party a minimum total of 2,000 feet of drilling at the prices as herein provided in Clause Four.

10-13-52

Mr. Houk:

Attached is copy of core drilling agreement between Ruberoid Co. and Joy Mfg. Co. of May 15, 1951 - per your request.

McHenry Mosier
McHenry Mosier rwa.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 13 1952

The said second party shall have the option of withdrawing from this contract after a total of 2,500 feet have been drilled under the terms of this agreement.

In the event the said first party should stop the drilling before the guaranteed footage has been drilled, it agrees to pay the said second party half the price per foot for the undrilled balance, in addition to payment at full price for the footage actually drilled.

6. The party of the first part hereby guarantees to spot the drill holes not more than 1,500 feet from an ample source of water for drilling purposes.

7. The second party agrees to move the drilling equipment between holes free of any cost to the first party.

8. Should the party of the first part fail to perform its part of the contract to locate sites, as herein agreed, regardless of cause, or should the party of the first part issue instructions that delay operations for any reason or in any other way interrupt the continuous operation of the said diamond drill, it shall pay the second party the labor expense of drilling crew while idle through such delay at the rate of $30.00 per shift, consisting of 8 hours, for each shift or part thereof that the operations of the said drill is delayed.

9. The party of the second part agrees to cover its employees with Workmen's Compensation Insurance under the State Laws of Vermont and agrees to furnish the first party with insurance certificate as evidence of such coverage.

10. The payments for the herein described work are to be made on the fifteenth day of each month for all invoices rendered for work done up to the 25th day of the previous month.

11. The party of the second part hereby agrees to ship the outfit for the herein described work within five days from the date of notification of acceptance of this agreement, but the said second party shall not be responsible for delays caused by strikes, railroad accidents or blockades. This proposition is for immediate acceptance, but although accepted does not constitute a contract until approved by an officer of the Joy Manufacturing Company, at its office in Pittsburgh,

Pennsylvania, U.S.A., and is subject to change or withdrawal until so approved.

It is expressly agreed that there are no promises, agreements or understandings outside of this contract, and that no agent or salesman has any authority to obligate the Joy Manufacturing Company, by any terms, stipulations or conditions not herein expressed. This contract may be altered only by written consent of both parties hereto.

JOY MANUFACTURING COMPANY

By W. J. Pilarski

IN WITNESS WHEREOF, the parties hereto have set their hands and seals.

Accepted by	Approved By JOY MANUFACTURING COMPANY
W. G. Cowan	By D. J. Burke
The Ruberoid Co.	Date May 31, 1951
Title Vice-President	Title Treasurer

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

NOV 6 1953

Mr. K. A. Foster
Office Manager
The Ruberoid Company
Hyde Park, Vermont

Dear Mr. Foster:

Receipt is acknowledged of your letter of October 30, 1953, suggesting that we postpone the audit of your records pertaining to Exploration Project Contract Idm-E23, DMEA-1210, and Exploration Project Contract Idm-E286, DMEA-2080.

We have accordingly changed our audit schedule so that Mr. B. J. Brekhus, our auditor representative, is scheduled to visit your office on or about December 2, 1953.

Sincerely yours,

(Signed) E. D. Talbert

E. D. Talbert, Acting Chief
Contract Administration
and Audit Division

EDTalbert/wb
November 6, 1953

Copy to: Docket
Admr. Reading File
Mr. Millar, Region VIII
Mr. Houk
Mr. Chambers

The RUBEROID CO.

HYDE PARK, VERMONT

October 30, 1953

Defense Minerals
RECEIVED
NOV 2 1953

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

Atten: Mr. E. D. Talbert

Dear Mr. Talbert:

Mr. Messel asked me to acknowledge your letter of October 27th with reference to inspection and audit of Exploration Project Contracts Idm-E23 and Idm-E286.

Dockets Idm 897 210 + 2080

Due to the fact that our Cost Analyst, who has handled these reports, will be on vacation from November 14th to 30th, we suggest that an auditor representative plan to be here on December 1st if possible, as our Cost Analyst could then devote as much time as necessary to facilitate the audit.

Yours very truly,

The RUBEROID Co.

K. A. Foster
Office Manager

KAF:cl

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

OCT 27 1953

Mr. Michael J. Messel
General Superintendent
The Ruberoid Company
Hyde Park, Vermont

Dear Mr. Messel:

Under the terms of Exploration Project Contracts Idm-E23 and Idm-E286, Docket Nos. 1210 and 2080, respectively, it is provided that you "keep suitable records and accounts of operations, which the Government may inspect and audit at any time."

It is anticipated that Mr. B. J. Brekhus, an auditor representative of this Division, will visit your office on or about November 18, 1953, for the purpose of certifying the validity and propriety of the Government's payments under these two contracts.

If for any reason the timing of this visit is inappropriate, please advise and suggest a convenient date.

Sincerely yours,

(Signed) E. D. Talbert

E. D. Talbert, Acting Chief
Contract Administration
and Audit Division

EDTalbert/wb
October 27, 1953

Copy to: Docket
Mr. Millar, Region VIII
Mr. Houk
Mr. Chambers
Admr. Reading File

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
JUL 7 1953

July 6, 1953

Memorandum

To: George C. Selfridge, Chairman, DMEA Operating Committee

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Docket No. DMEA-1210 - (Asbestos)
The Ruberoid Company, Vermont Asbestos
Mines Division, Hyde Park, Vermont
Mine near Eden, Vermont - Orleans and Lamoille
Counties, Vermont - Contract Idm-E23

Transmitted herewith in quadruplicate is the final report by the Field Team of Region VIII on contract Idm-E23, the Ruberoid Company's first application.

W. T. Millar

W. T. Millar

Enclosures - 4

Reviewed by
DMEA OPERATING COMMITTEE
7-13-53
(date)

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JUL 1953

FINAL REPORT ON COMPLETED CONTRACT

DMEA Docket No. 1210 - (Asbestos)

Contract No. Idm-E23

Final F.T. Rpt

The Ruberoid Company, Vermont Asbestos Mines Division
Mine near Eden, Vermont - Orleans and Lamoille Counties, Vermont

by

Defense Minerals Exploration Administration
Field Team, Region VIII

June 30, 1953

Reviewed by
DMEA OPERATING COMMITTEE
7-13-53
(date)

FINAL REPORT ON COMPLETED CONTRACT

DMEA Docket No. 1210 - (Asbestos)
Contract No. Idm-E23

The Ruberoid Company, 500 Fifth Ave., New York 18, N. Y.
Vermont Asbestos Mines Division, Hyde Park, Vermont
Mine near Eden, Vermont - Orleans and Lamoille Counties, Vermont

The final Field Team examination was made by H. L. Burmeister, representing the Bureau of Mines, and Wallace M. Cady, representing the Geological Survey.

Summary:

The purpose of this contract was to explore areas favorable to the deposition of strategic asbestos. Prior geological and aerial magnetometer surveys of a large area in northern Vermont revealed 30 serpentine masses. Five of the most promising of these serpentine masses were selected for more extensive exploration by mapping, detailed geological and ground magnetometer surveying, diamond core drilling, core logging, and test milling of sections of core.

Forty AX size diamond drill holes, aggregating 11,271 feet and averaging 282 feet deep, were completed. Drill cores were logged visually and the richest portions of the core were test milled. No ore was found.

Conclusions:

The five serpentine masses were explored to the satisfaction of both the Government and the Ruberoid Company. None of the holes cored serpentine containing 3 percent or more asbestos fiber or valued at over $3.00 per ton, which is the economic limit for surface mining. It is concluded that economic production from the areas explored is not feasible under present conditions.

Recommendations:

Based on the above conclusions, it is believed that additional exploration, financed either privately or with the assistance of the Government, is not warranted in the areas that were explored.

It is recommended that the Government withdraw from any further participation in this exploration.

It is further recommended that a Certificate of Discovery should not be issued by the Government, and that claims to royalty payments be waived.

Description of the Work Completed:

Work started under this contract in July 1951 and was completed in December 1952. Prior geological and aerial magnetometer surveys of an area approximately 25 miles long and 8 to 10 miles wide in northern Vermont revealed 30 serpentine masses from which five of the areas that appeared most promising for deposition of asbestos, were selected for additional exploration by detailed magnetic surveys followed by diamond core drilling.

The contract originally included funds for an aerial magnetometer survey but the company completed this survey at their own expense prior to the effective date of the contract. For this reason, the contract was amended February 20, 1952 and the funds for the aerial magnetometer survey, as well as a portion of the funds allocated to labor, were transferred to the amount originally specified for diamond drilling. The contract labor rates were also amended June 26, 1951 to conform with the current wage rate.

The company held options on six plots of land covering the five serpentine masses. These plots were mapped and geologically surveyed, and, where necessary, ground magnetometer and dip needle surveys were made. The nine most favorable areas in the six plots were further explored by 40 diamond drill holes that were 200 to 300 feet deep, aggregating 11,271 feet. All holes were drilled from the surface through overburden which varies from a few feet to a maximum of 98 feet, into the underlying serpentine. The diamond drilling was sub-contracted to the Joy Manufacturing Company.

All diamond drill cores were visually logged by standard company methods. Accurate visual logging was possible because of the excellent core

recovery and experience of the Operator's engineers. Core from six holes, which appeared to approach minable grade were test milled after being logged. The richest of these contained 2.8 percent asbestos fiber for 225 feet. Under present economic conditions 3 percent asbestos content is considered by the company as the cut-off for commercial production by surface mining. The value of $3.00 per ton is also used as a cut-off and seems to be more realistic as grade of fiber is thereby considered. All drill cores were check logged by a Government geologist, representing the Field Team. No mineralization of either 3 percent or $3.00 value was found.

The amended contract authorized 12,000 feet of AX size diamond drill hole at an overall unit cost of $5.97 per foot. Actual cost of diamond drilling under the sub-contract was $3.35 per foot, and actual overall cost including diamond drilling, core logging, geological and geophysical surveying, mapping, test milling, and supervision was $5.50 per foot. The drilling operation is tabulated as follows:

Summary of Drilling Data based on Company Assays

Area No. 1 - Brown's Ledge

Sub-Area C-1

	Hole No.	Overburden Feet	Length Feet	Detail Visual Assay - %	Average Visual Assay - %	Test Mill Results - %
Pre-Contract	(B1	3	201	3'-201'(0.5)	0.5	
	(B2	23	223	23-136(2.5),		1.66
	(			136-179(0.5)		
	(			179-223(0.75)		
	(B3	3	222	3-88(1.8),88-222(0.5)		1.12
	B4	34	192	34-121(0.75)		1.48
				121-192(0.5)		
	B5	0	200	0-200(0.2)		0.44
	Totals					
	On E-23, 2	34	392			
	In Area, 5	63	1038			0.87

The best hole in this area is B2, which indicated 113 feet averaging 2.5 percent asbestos content below 23 feet of overburden.

Sub-Area C-2

Hole No.	Overburden Feet	Length Feet	Detail Visual Assay - %	Average Visual Assay - %	Test Mill Results - %
R1	98	200	98-200(-0.3)	0.2	
P1	94	207	132-207(0.25)	0.25	
Total, 2	192	407			
Average	96	203.5		0.22	

Indications in this area are unfavorable. 102 feet of 0.2 percent below 98 feet of overburden.

Area No. 2 - Leland Hill

Sub-Area A-1

Hole No.	Overburden Feet	Length Feet	Detail Visual Assay - %	Average Visual Assay - %	Test Mill Results - %
LH1	14	233	14-233(-0.2)	(-0.2)	
LH2	76	301	76-150(1.0) 150-301(2.0)		2.8
LH3	68	205	68-205(-0.5)	(-0.5)	
LH4	16	203	16-161(2) 161-203(4)		2.3
Total, 4		942			
Average	44	236			1.75

Sub-Area A-2

Hole No.	Overburden Feet	Length Feet	Detail Visual Assay - %	Average Visual Assay - %	Test Mill Results - %
LH5	85	199	0-199(0)	(0)	
LH6	30	201	30-201(-0.5)	-0.5	
LH7	2	200	2-200(-0.5)	-0.5	
LH8	20	303	20-303(0.5)	0.5	
LH9	35	301	35-301(0.5)	0.5	
LH10	25	299	25-229(0.3) 229-299(0)	25 to 229 0.3	
LH11	33	301	33-301(-0.5)	-0.5	
LH12	29	301	29-301(0.5)	0.5	
LH13	10	303	10-303(0.75)	0.75	
LH14	13	300	13-300(0.75)	0.75	
LH15	15	300	15-300(0.75)	0.75	
Total, 11	297	3008			
Average	27	273		0.40	

Best hole LH2 averages 2.8 percent for 225 feet below 76 feet of over-

burden. Visual assays of the core from holes LH13, LH14 and LH15 averaged 0.75 percent asbestos for 287 feet below 13 feet of overburden. These 3 holes are located about 700 feet apart forming a triangle.

Area No. 3 - Carter Farm

Sub-Area B-1

Hole No.	Overburden Feet	Length Feet	Detail Visual Assay - %	Average Visual Assay - %	Test Mill Results - %
BL1	12	297	12-297(-0.5)	-0.5	
BL2	12	305	12-305(-0.5)	-0.5	
Total, 2	24	602			
Average	12	301		0.3	

Area No. 4 -

Area 4 was not included in this exploration.

Area No. 5 -

Sub-Area E-1

Hole No.	Overburden Feet	Length Feet	Detail Visual Assay - %	Average Visual Assay - %	Test Mill Results - %
EH1	19	290	19-290(0.75)	0.75	
EH2	15	399	15-399(0.75)	0.75	
EH3	18	401	18-401(1.0)	1.0	
EH4	11	298	11-298(1.5)	1.5	
EH5	8	300	8-255(-0.5)	-0.5	
Total, 5	71	1688			
Average	14	338		0.8	

Sub-Areas D-1 and D-2

Hole No.	Overburden Feet	Length Feet	Detail Visual Assay - %	Average Visual Assay - %	Test Mill Results - %
D1	22	295	22-276(0.5)	0.5	
D2	18	301	18-301(-0.5)	-0.5	
D3	3	300	3-78(0),78-210(0.5) 210-300(1.0)	0.5	
BR1	75	300	75-300(0.25)	0.25	
BR2	13	400	13-400(0.75)	0.75	
BR3	12	300	12-300(0.75)	0.75	
RB1	18	306	18-306(0.5)	0.5	
RB2	35	298	156-298(0.5)	0.5	
RB3	6	299	6-299(1.0)	1.0	
RB4	12	301	12-301(0.5)	0.5	
RB5	3	299	3-299(0.5)	0.5	
RB6	28	244	28-123(0.5)	0.5	
Total, 12	245	3643			
Average	20	303.6		0.5	

Sub-Area D-3

Hole No.	Overburden Feet	Length Feet	Detail Visual Assay - %	Average Visual Assay - %	Test Mill Results - %
RF1	12	290	12-290(0.5)	0.5	
RF2	24	300	24-300(0.5)	0.5	
Total, 2	36	590			
Average	18	295		0.5	

Total drilling under contract, 11,271 feet.

Total number of holes, 40.

3 pre-contract, Company drilled holes, B1, B2, B3, taken into account to obtain the average asbestos content in Sub-Area C-1.

Geology:

The asbestos-bearing rock recovered from all the holes drilled is below ore grade, that is less than about 3 percent. The core from holes LH#2, LH#4, B#2, B#3, B#4, and B#5 appeared to the operator on inspection to be the best of all the cores recovered from the various holes. Mill tests run by the operator on these cores show grades that range from 0.49 percent to 2.78 percent fiber. Most of the core covered by these logs contains less than 1/2 percent fiber, referred to as a "trace."

Logs of diamond drill cores recovered during this exploration are as follows:

FILE COPY
SURNAME:

Anderson
Hewitt

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

Project Summary Report

By: Walter C. Anderson January 20, 1954

1. Docket No. DMEA-1210 - Asbestos
Contract No. Idm-E23
Mine near Eden, Vermont
Orleans and Lamoille Counties, Vermont

Operator: The Ruberoid Company, Vermont Asbestos Mines Division
Hyde Park, Vermont

Operator's Property Rights:
16 option agreements involving approximately 3,000 acres.
Executed during 1951 and first 4 months of 1952.

2. Contract - dated June 26, 1951

Work authorized:

Aerial Magnetometer Survey by contract	$7,500.00
Surface Magnetometer Survey and Diamond Drilling	
Labor	13,000.00
Core testing	1,500.00
Supervision (salary)	5,400.00
Consulting Geologist (salary and fees)	8,000.00
Surveying and mapping (salary)	5,400.00
Diamond Drilling Contract, 6,500 ft. @ $4.23/ft.	27,500.00
Rental of jeep and truck	1,800.00
Materials and supplies	1,500.00
Total cost of project	$71,600.00
Government participation @ 90%	$64,440.00

Amendments:
Contract revised by approval letter (in effect an amendment) - 2/20/52.
Revises costs under contract as follows:

Labor	$8,465.00
Core testing	500.00
Supervision	5,400.00
Consulting Geologist	8,000.00
Surveying and mapping	5,400.00
Diamond Drilling	40,535.00
Rentals	1,800.00
Materials and Supplies	1,500.00
Total	$71,600.00

(Original contract stands in effect in all other provisions.)

R.S. 1-22-54

No. 1 - 9/29/52 - Exhibit "D" changed to read:

"Labor, as classified by Operator, may be paid at wage rates which prevail for those classifications in the labor area where the work is being performed."

No increase in total cost of contract.

Work completed:

Diamond Drilling - 11,271 ft.@ $3.347/ft.	$37,724.26
Labor	4,854.26
Supervision	4,917.97
Consulting Geologist	7,000.00
Surveying and Mapping	5,909.46
Materials and Supplies	725.85
Miscellaneous	804.56
Total accepted cost	$61,936.36
Government participation @ 90%	$55,742.72

Work completed December 31, 1952. Cost per foot drilled amounted to $5.50 including all supervision, mapping, geophysical work, etc.

3. Audit - Certificate issued 12/8/53 (No exceptions).

4. Certification of Discovery - None issued.

5. Comments:

The project was conducted in an efficient and economical manner. Operator furnished good engineering and geological reports. A belt of serpentine rock extends from near Quebec City south through the State of Vermont. Chrysotile asbestos is found at various places throughout this belt but is known to exist in commercial quantities only in the vicinity of Thetford Mines and asbestos in the Province of Quebec and at Belvidere Mountain in the State of Vermont. The project was established to find chrysotile asbestos in nine completely serpentinized areas in the vicinity of the Ruberoid asbestos operations at Belvidere Mountain. A drilling program was planned after a study of surface indications, the shape and size of the area, and magnetometer results. Forty diamond-drill holes were completed on this project with a total footage of 11,271 feet. Average depth of the holes was 282 feet. Holes were generally spaced 400 to 800 feet depending largely on how favorable indications had been interpreted. Spacing was increased to 1,000 to 1,200 feet in some instances. Drill cores were logged by methods adopted as most practicable. Some cores were milled in a core testing laboratory to confirm visual estimates. Except in one instance, no results were of sufficient interest to justify follow-up holes. No asbestos ore reserves were indicated by this operation.

WCAnderson:gad 1/20/54

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

☑ Audited

☐ Certified

WO[illegible] ANALYSIS SHEET - DMEA PROJECT [illegible]

Analysis as of 11/30/54
Incl. Voucher for Jan 1953

☑ Actual Cost

☐ Agreed Unit Costs

Name The Ethereal Co

Docket No. 1210 X

State Vermont

Commodity Asbestos

Idm-E No. 23

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting					
Raising					
Shafts					
Winzes					
Drilling (Specify) (Hx) (Cmd)	12,000 ~~6500~~	71,600 ~~64,100.~~	11.271	61.936.36	* 61.936
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify) Magnetometer Core Testing		~~[illegible]~~ ~~1500~~		0	0
Totals		71.600		61.936.36	61.936.36

* Including ± $500 core testing

Prepared by L. & H.

The RUBEROID Co.
500 Fifth Avenue
NEW YORK 36, N.Y.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 27 1954

EXECUTIVE OFFICES

January 26, 1954

Mr. C. O. Mittendorf, Administrator,
U.S. Dept. of the Interior
Defense Minerals Exploration Administration
Washington 25, D.C.

Re: Docket No. DMEA-1210-Asbestos
The Ruberoid Company
Hyde Park, Vermont
Contract No. IDm-E23

Dear Mr. Mittendorf:

This will acknowledge receipt of your letter of recent date and carrying the above reference.

Particular note has been made of Article 12 of the contract which requires that we "keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract". You can be assured that this requirement will be complied with.

We are most appreciative of the fine cooperation given us by your department in the exploration program and we regret that our efforts were not more productive.

Sincerely yours,

Stanley Woodward

Stanley Woodward
President

SW:CTL:mr

DMEA
Summary Report
June 30, 1953

Operator:	The Ruberoid Company, Vermont Asbestos Mines Division, Hyde Park, Vermont
Location:	Eden & Lowell Townships, Lamoille and Orleans Counties, Vermont
Docket No.:	DMEA-1210
Contract No.:	Idm-E23
Commodity:	Asbestos
Total Cost:	$71,600.00
Government Participation:	90% - $64,440.00
Duration of Contract:	June 26, 1951 to December 26, 1952

The purpose of this contract is to explore an area in northern Vermont for strategic asbestos. Available geological data from development of the present operations in northern Vermont and magnetic surveys of the new areas indicate the areas covered under this contract to be the most promising in New England for a potential source of asbestos.

This contract authorized 12,000 feet of diamond core drilling at an overall cost of $71,600.00. The project was finished in December 1952, completing 40 drill holes which used 11,271 feet of the allowable footage at a total cost of $61,936.36. The Government's participation in this exploration is 90 percent or a total of $55,742.72.

Although asbestos was encountered during the exploration, it is not of strategic quality and too low grade to be developed for a commercial operation.

The operator's final report has been submitted and the Field Team's final report has been completed.

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

800

To: Mr. Frank E. Johnson
Deputy Administrator

From: E. D. Talbert, Assistant Chief
Contract Administration and Audit Division

Subject: Suggested Amendments to Contracts E-22 and E-286, Dockets 1210 and 2080, Ruberoid Company -- Asbestos

Reference is made to Mr. Mosier's memorandum of September 9, 1952, recommending an amendment to Contract E-23 to permit the payment of prevailing wage rates, including time and one-half for overtime.

During the period of September 9 to 12, 1952, I performed an on-site audit of the records pertaining to Contracts E-23 and E-286 with The Ruberoid Company. This audit disclosed that the following wage classifications and rates were in effect in the Company's Exploration Department, which is concurrently performing work on the DMEA projects and company projects:

Classification	Hourly Rates Effective 11/12/50	Hourly Rates Effective 5/4/52
Drill Operator	$1.31	$1.36
Spareman	1.14	1.19
General Laborer	1.07	1.12

Shift differentials of $.05 and $.10 and overtime rates of time and one-half are paid in addition to the above rates.

Under Contract E-23, which is on the old form of contract (April 1951), the Exhibit "D" specifically limits the rates to "Maximum wages per hour" of $1.07 for laborers and $1.17 for student helpers and rodmen. (The drill operator is not applicable to this contract.) Taken literally this statement would prevent payment not only for the increased rates effective May 4, but also the customary overtime and shift differentials.

Under Contract E-286, which is on the new form (Rev. Feb. 1952), there is no limitation to the rates. Therefore, the prevailing rates including customary overtime and shift differentials are allowable.

Since all Exploration Department employees are used interchangeably on the two DMEA projects, as well as on Company exploratory work, it is definitely incompatible and inequitable not to allow the increased rates, and the overtime and shift differentials, under Contract E-23. Therefore, I concur with Mr. Mosier's recommendation.

It is recommended, however, that the amendment to Contract E-23 include a restatement of the classifications as "Spareman" and "General Laborer" in lieu of the fictitious classifications of "Laborer", "Rodman" and "Student Helper". This would eliminate the unnecessary maintenance by the Company of time sheets, distribution sheets and cost accounts under the several fictitious classifications and also will facilitate future audits.

It is recommended also, for the same reasons, that Contract E-286 be amended to show the estimates for labor in the classifications of "Drill Operator", "Spareman" and "General Laborer" in lieu of the classifications of "Instrument Man", "Survey Helpers", "Drill Runners", "Drill Helpers", and "Tractor-truck Driver".

It is suggested that the amendment to Contract E-23 be expedited since the Audit Report and Certificate are being prepared on the basis that the payment of the increased rates and the customary overtime has the Administration's approval. In this connection it was found that the Company's supervisor of Exploration had notified the DMEA Executive Officer by letter dated May 20, 1952, that new rates were in effect and stated "I understand approval for the wage increase would be granted by approval of the monthly cost statement." The DMEA Executive Officer's letter of reply dated May 23, 1952, did not mention the change in rates nor did he withhold approval of subsequent MF-104's, to which were attached payroll transcripts clearly indicating the increased rates. It should be noted that the Company's wage rates are extremely low in comparison with those in effect under other contracts.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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FEB 26 1953

February 25, 1953

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA

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

Subject: Final Operator's Monthly Progress Report - December 1952
The Ruberoid Company, Vermont Asbestos Mines Division
Orleans and Lamoille Counties, Vermont
Contract Idm-E23, Docket DMEA-1210 - (Asbestos)

Transmitted herewith are two copies of the final progress report on forms MF-104 and MF-104A for December 1952 from the Ruberoid Company, Contract Idm-E23, which has been certified for payment.

W. T. Millar

W. T. Millar

Enclosures - 2

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Defense Minerals Administration
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FEB 20 1953

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

February 20, 1953

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA

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

Subject: Report of Operations under DMEA Contracts during January, 1953

Transmitted herewith in quadruplicate are reports by H. L. Burmeister, on the following contracts:

Dmea 1210	Idm-E23	The Ruberoid Co. (1st application)
	Idm-E94	Vermont Copper Co., Inc.
	Idm-E256	Richard N. Berry (Atwood Mine)
	Idm-E286	The Ruberoid Co. (2nd application)
	Idm-E441	Alstead Mica Miners, Inc.

W. T. Millar

W. T. Millar

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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FEB 20 1953

DMEA
Report of Operations during January, 1953
by
H. L. Burmeister
February 19, 1953

Operator:	The Ruberoid Company, Vermont Asbestos Mines, Hyde Park, Vermont
Location:	Orleans and Lamoille Counties, Vermont
Docket No.:	DMEA-1210
Contract No.:	Idm-E23
Commodity:	Asbestos
Total Cost:	$71,600.00
Government Participation:	90% or $64,440.00
Duration of Contract:	From June 26, 1951 to December 26, 1952

The company has submitted its final report which was transmitted to the Operating Committee on February 10.

The Field Team's final report is being prepared.

H. L. Burmeister
Mining Engineer

Good or Bad?
No B [illegible]

College Park, Md.
February 19, 1953

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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FEB 10 1953

February 10, 1953

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA

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

Subject: Contract Idm-E23, Docket DMEA-1210 - (Asbestos)

Work specified under the subject contract has been completed and the final report has been prepared and submitted by the operator.

In accordance with our telephone conversation of February 9, two copies of this final report are transmitted herewith. Please note that the Monthly Progress Reports on Forms MF-104 and MF-104A, which show the cost distribution, have been detached for certification by the Finance Officer. These forms will be forwarded to you after they have been certified for payment.

The Field Team is preparing its final report which will be submitted after a study of the geology indicated by drilling has been completed and compared with the operator's report.

Any comments on the operator's report you care to make, will be appreciated and if additional information from the field is necessary, it will be supplied.

W. T. Millar

W. T. Millar

Enclosures - 2

2/10

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JAN 30 1953

DMEA
Summary Report
January 28, 1953

Operator:	The Ruberoid Company, Vermont Asbestos Mines, Hyde Park, Vermont
Location:	Orleans & Lamoille Cos., Vermont
Docket No.:	DMEA-1210
Contract No.:	Idm-E23
Commodity:	Asbestos
Total Cost:	$71,600.
Government Participation:	90% - $64,440.
Duration of Contract:	From June 26, 1951 to December 26, 1952

The purpose of this contract is to explore an area in northern Vermont for strategic asbestos. Available geological data from development of the present operations in northern Vermont and magnetic surveys of the new areas indicate the areas covered under this contract to be the most promising in New England for a potential source of asbestos.

This contract authorized 12,000 feet of diamond core drilling at an overall cost of $71,600.00. The project was finished in December 1952, completing 40 drill holes which used 11,271 feet of the allowable footage at a total cost of $61,936.36. The Government's participation in this exploration is 90 percent or a total of $55,742.72.

Although asbestos was encountered during the exploration, it is not of strategic quality and too low grade to be developed for a commercial operation.

Further study by the Field Team will be given to this project.

C
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The RUBEROID Co.
Hyde Park, Vermont

January 17, 1953

Mr. McHenry Mosier, Executive Officer,
U. S. Dept. of Interior,
Defense Minerals Administration,
Region VIII,
College Park, Maryland

Contract DIA-E23 - Docket 1210 - Final Report

Dear Mr. Mosier:

Attached herewith, please find December, 1952 report on the above project which is also a final report and gives all the detailed data in connection with geology, mapping, magnetometer work and diamond drilling. There were 40 holes totalling 11,271 feet drilled, none of which indicated any fibre bearing serpentine of commercial value.

The total amount approved on this contract was $71,600, of which, $61,936.36 was expended. Of this, $55,742.72 was the D.M.E.A.'s share and $6,193.64 was the Ruberoid Company's. There was no joint property to dispose of. The Ruberoid Co. who held the property options and paid for them have dropped them.

The attached report gives in considerable detail the various phases of the whole project which I believe was efficiently executed.

At this time I also wish to thank you and the men of your Department for their good suggestions and splendid co-operation in carrying this project out.

Very truly yours,

The RUBEROID Co.

/s/ Michael J. Messel
Michael J. Messel
General Superintendent

MJM:vv

cc: Mr. C. T. Limerick
Mr. T. H. Dermody
Mr. J. K. Gilmore

Copy for Mr. Johnson
DOCKET COPY

Butin
1-21-53
Hoffland

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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JAN 13 1953

RECEIVED
JAN 15 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

xxxxxxxxxxxxxxxxxx
College Park, Maryland

January 12, 1953

Mr. Michael J. Messel
General Superintendent
The Ruberoid Company
Hyde Park, Vermont

Subject: Docket DMEA-1210
(Asbestos)
Contract Idm-E23

Dear Mr. Messel:

As the subject contract is approaching completion, the disposition of property in which the Government has an interest according to the contract, must be considered. The following is sent you for guidance at this date so you may have time for preparation of data:

DISPOSITION OF PROPERTY IN WHICH THE GOVERNMENT HAS AN INTEREST

By the terms of the exploration project contract under which you are operating, the Government acquires an interest in property purchased for use on the project which is ". . . paid for or purchased with funds contributed jointly by the Operator and the Government . . ." Such property includes any individual items of equipment and facilities, buildings, or other fixtures costing more than $50.00 each. It also includes materials and supplies considered in groups or categories (such as pipe, explosives, rails, drill steel), if the original cost of the remaining unexpended portion of any such category of materials or supplies exceeded $50.00. As to any facility, building, fixture, or piece of equipment, and as to any such group or category of materials or supplies the original cost of which or the unexpended portion of which did not exceed $50.00, the Government does not assert any claim or interest under the terms of the contract.

The effect of the contract provisions is to make you the agent of the Government for the disposition of its interest in such property. Therefore, it is your responsibility to make the best possible disposition of the property for the benefit of the Government. Every reasonable effort must be made to realize its full value. Such reasonable efforts might include: (1) Advertising in newspapers, periodicals, and posting notices in public places; (2) canvassing users of and dealers in such property; and (3) negotiating with the original vendor for the repurchase of the property.

Should you wish to retain the property or, in effect sell it to yourself you may do this only after first having made every reasonable effort to procure a price higher than you yourself are willing to pay; or you may buy the Government's equity by paying for it either on the basis of the original cost or the ceiling price fixed by the Office of Price Stabilization, whichever is lower.

The undersigned is authorized to approve of and to join in the sale of such property for the joint account of the Operator and the Government. You are requested to advise this office in advance of the proposed disposition of any such property so that we may advise you if the Government will approve thereof and join in the transaction.

Upon completion of the exploration project or termination of the exploration project contract, your final report should include a detailed statement of the disposition you have made of such property. Proceeds from sales of property, or credit for its value in the event you retain it for your own account, should be indicated in your final monthly report, on form MF-104, by the insertion of suitable credits in the "Monthly Total" column.

The Government will withhold from your final voucher or vouchers such sums as it deems necessary to cover its equity in property, until you have rendered your final report and final account, and the final auditing and settlement of the contract has been made.

Very truly yours,

W. T. M.

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

WTM:rwa

copy for FEJohnson
JBHanley, USGS
DMEA Files 2

December 12, 1952

Report of Operation during November 1952
By H. L. Burmeister, Engineer

Operator:	The Ruberoid Company, Vermont Asbestos Mines, Hyde Park, Vermont
Docket No.:	DMEA-1210
Contract No.:	Idm-E23
Commodity:	Asbestos
Total Cost:	$71,600.
Government Participation:	90% or $64,440.
Duration of Contract:	18 months - from June 26, 1951 to December 26, 1952

One sub-contract drill was operated on a three shift basis during one half of November. This completes the drilling under Contract Idm-E23.

Hole RB-4 was drilled from 179 to completion at 301 feet. The entire core is estimated to contain approximately one percent asbestos.

Hole RB-6 was started November 3, and completed at 244 feet. Below 28 feet of overburden lies an 85 foot section that is estimated to contain $\frac{1}{2}$ percent asbestos. The balance of the core is schist.

On November 30 there were completed 11,271 feet of drilling of a contract allowance of 12,000 feet. Of a total allowable cost of $71,600. there has been expended $60,628. on November 30, 1952. The expiration date of the contract is December 26, 1952.

H. L. Burmeister
Mining Engineer

College Park, Md.
December 15, 1952

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SUMMARY OF RESULTS

GENERAL:

Preliminary reconnaissance and investigation by the Ruberoid Co. covered an area approximately 25 miles long and 8 to 10 miles wide. In this area about 30 serpentine masses of various sizes were studied. Of these thirty, five which seemed the most favorable were picked for further investigation. Under the RMEA program, more detailed mapping, geophysical studies and diamond drilling was done in nine areas in these 5 masses.

GEOPHYSICAL:

The magnetometer was used in an attempt to locate more favorable areas for the occurrence of asbestos with very little success. It is felt this was largely due to the rough terrain and the varying depths of overburden encountered. Magnetic patterns were all extremely irregular. However, it should be remembered that no ore bodies were encountered and this may be the reason no consistently high areas with uniform patterns were found.

The magnetometer was found to be an extremely useful tool in locating and mapping buried contacts.

DIAMOND DRILLING:

Forty diamond drill holes were completed on this project with a total footage of 11,271 feet. Average depth of the holes was 282 feet.

Also included in this report are 3 holes with total footage of 646 feet drilled by the Ruberoid Co. in Area C1, Map 6, making a total of 11,917 feet.

No core of ore grade was recovered.

ORE RESERVES:

No ore was indicated.

COSTS:

The project was completed December 31, 1952. Total costs were $61,936.36 which amounts to $5.50 per foot drilled including all supervision, mapping, geophysical work, etc.

There is no property jointly owned by the Government and the Ruberoid Co. for disposition.

INTRODUCTION

A belt of serpentine rock extends from near Quebec City south through the State of Vermont. Chrysotile asbestos is found at various places throughout this belt but is known to exist in commercial quantities only in the vicinity of Thetford Mines and Asbestos in the Provinces of Quebec and at Belvidere Mountain in the State of Vermont.

The Ruberoid Company, during the winter of 1951 decided on an exploration program to investigate the serpentine masses in the vicinity of their operations at Belvidere Mountain, Vermont. The work was to be roughly divided into three categories:

1. Search for new serpentine masses.
2. Surface study and examination of the masses to determine more favorable areas for asbestos.
3. Diamond drilling in the more favorable areas.

Considerable area was involved and the program would ordinarily have been spread over a period of several years. However, before field work was started it was decided a speed up of the program was in line with DMEA policy and an application for DMEA funds was made for this purpose. As a limited program had been planned by The Ruberoid Co., work was started as soon as weather permitted in April, 1951, and was well under way by the time the DMEA project was approved at the end of June, 1951.

Work completed in this period and wording of the final DMEA contract changed the DMEA program somewhat from that planned when application was made. When the application was made search for new serpentine masses and preliminary investigation had been included in the DMEA Project. As the contract was approved only properties under option were included in the DMEA contract. This, and the fact that an airborne magnetometer survey which had been planned in the application had been completed before the contract was approved, placed search for new masses and investigation of

the masses prior to taking options outside the scope of the DMEA project. Work, after options had been taken on a piece of property, for more detailed examination and for diamond drilling were to come under the DMEA project.

This was the basic reason for an application, after the end of the first field season, for a re-allocation of funds to permit more diamond drilling. As work progressed during the first season it became evident that if an investigation of a property showed it to be of sufficient interest to take up options, further more detailed examination would not produce sufficient evidence to reject the property without diamond drilling.

GENERAL PROCEDURE

Preliminary investigations of various serpentine masses varied considerably in the amount and detail of examination. Surface examinations of outcrops was sufficient to reject several areas. Fairly detailed magnetometer surveys were required in others. Generally, reconnaissance parties with the help of the airborne magnetometer survey and old reports located serpentine masses or extensions of masses with which we were not familiar. These, together with the ones with which we were more familiar, were then examined. Contacts were determined by outcrops or the dip needle and the outline of the body mapped. Aerial photographs were generally used for control but when not available topographic sheets were used. Mapping was generally by pace and compass or tape and compass. Dip needle readings were taken and outcrops studied for fibre content and general appearance of the serpentine.

From the above investigations, favorable areas for possible ore bodies were located. These areas had to be large enough to be of economic interest. If outcrops were numerous, surface indications were used to a large extent to classify the area as favorable or to eliminate it.

Even if surface fibre indications were not too prevalent, areas more or less completely serpentinized might be considered favorable. Areas more or less completely serpentinized frequently show more fracture and shear planes, an association which has been noted with fibre occurrences in some known deposits. Rock showing only partial alteration was not considered favorable unless the rock was well fractured and the alteration was along fracture planes where crude fibre veins might be expected. Talc-carbonate areas were generally eliminated.

If outcrops were lacking or were too widely scattered to be of much value, the location of the area within the mass was considered. Although there is no empirical rule, generally areas along the contacts or in pinched out sections of a mass have been found to be more thoroughly serpentinized than the center of the mass. The magnetometer was used to locate such areas when buried with overburden. However, if magnetometer readings were consistently low, the area was considered as not favorable.

After preliminary study showed a favorable area, options were obtained on the land involved from the property owners. Nine areas were selected in five serpentine bodies. They are numbered A1, A2, B1, etc. through E1 on Map No. 2, attached to this report. Further work in these nine areas was carried on under the DMEA Project.

Generally a stadia traverse was run around the serpentine body or that portion of the body which was of interest. Unless a grid net was established for detailed magnetometer surveying, the stadia traverse was used for basic control. Where doubtful, contacts were mapped in more detail using the dip needle or magnetometer. Occasionally when property bounds were in doubt these had to be determined and located. Some rough magnetic surveys were run from established stations by tape and compass to determine if the time and expense of establishing a grid net were justified.

Detailed magnetometer surveys had been planned in the hope of being able to interpret more favorable locations for drilling. However, preliminary investigations showed many of the areas not suited to such surveys.

Due to steep slopes and ledges in the rough terrain magnetometer readings were affected by ferruginous clays to and above the instrument. Grid nets were, however, established in three areas but results were not conclusive. Previous work on known deposits had shown consistently high readings over some fibre bearing areas while some known barren areas were consistently low. Results in the areas surveyed showed erratic readings which could neither be interpreted as favorable nor could they be eliminated.

After a study of surface indications, the shape and size of the area, and magnetometer results, a drilling program was planned. Holes were generally spaced 400 to 800 feet depending largely on how favorable indications had been interpreted. The first holes drilled were planned as test holes located to give the most information to aid in further interpretation and to guide further drilling. At times these would be in an area of outcrops to see if surface indications continued or improved but more frequently were in areas of overburden to test completely unknown ground that had been interpreted as favorable. Except in one instance, no results were of sufficient interest to justify follow-up holes. The drill holes were all, therefore, of a test nature eliminating ground on wide spacing. Spacing was even increased to 1000 to 1200 feet in some instances.

Holes were drilled to a depth of 200 to 300 feet. It was felt that by drilling to this depth any ore that could be mined from surface would be located and possibly ore at greater depths would be indicated. Some areas would have had to be excluded entirely had drilling been carried to greater depths while anything less might possibly have overlooked ore had it existed.

Drill cores were logged by methods adopted as most practical from the years of experience with similar core on The Ruberoid Co. property. Some core was milled in a core testing laboratory to confirm visual estimates and results were within the limits expected. Visual estimates of most of the core were so low that, even had they been in error by more than ex-

periment shows, the core would still have been considerably below ore grade. It was felt that such core was better saved for geological reference and most of the core was therefore not milled.

GEOLOGY

The serpentine masses of northern Vermont are serpentinized ultramafic intrusives of probable lower Ordovician age. They have been intruded into schists of probable Cambrian age. The masses are lenses with the major axis 4 to 15 times the length of the minor axis. The strike is generally the same as the regional strike of the schists, N.15W. to N.20E, and the dip is generally steep. In length they vary from only 100 feet up to 3 to 5 miles long.

In Vermont from Belvidere Mountain north to the Canadian border the ultramafic bodies are generally well serpentinized and nearly all contain at least small amounts of asbestos. South from Belvidere Mountain alteration to talc-carbonate and verde-antique bodies is more common and though asbestos is occasionally found in these, it is in very small amounts and frequently has little strength.

No attempt was made to make a geological study of these serpentine masses as, at the present time, there is no known relation between the geology and the fibre occurrences. The gathering and analysis of such information was felt to be beyond the scope of this project.

The serpentine masses on which work was done on this BMRA project all lie in the Missisquoi Valley from 1 mile south of Lowell village to 2 miles north-east of Troy Village, Maps 1 and 2. In elevation they generally rise in sharp slopes 300 to 500 feet above the valley floor. Nearly all of the masses stand out as prominent hills or ridges along one side or the other of the Missisquoi River. A description of each body together with an account of the work done and results follows. Maps and drill logs will be found at the back of this report.

SERPENTINE MASS (A)

MAP 4

(LEIAND HILL)

Elliott-Taylor-Gale Option (A)
(Finger Area)

Elliott-Melrose-Parker Option (A2)

DMEA CONTRACT - AREA 2

SERPENTINE MASS (ICLAND HILL - MAP No. 4

This mass cuts through Route 38 on the western side of Lowell Village. The main body of the mass extends 1500 feet north of the highway and 7500 feet south. From the south end of the main body a finger extends south 4000 feet. Width of the main body is 1500 to 2000 feet and the width of the finger is 500 feet. The north end of Island Hill and most of the east and northeast slopes are serpentine. The higher elevations are 1300 to 1400 feet and the lower 900 to 1000 feet.

Outcrops are fairly well distributed in the north end and these together with two old test pits and a road cut allowed a good surface examination of this area. Fibre indications were poor. Some tough woody fibre was evident in one test pit but the quantity was small and quality was poor.

The southern half of the mass appeared more favorable. Outcrops on the east of the main mass, while the quantity was small, showed some good quality slip and occasional cross fibre. Outcrops in the remaining parts were scarce or completely lacking but preliminary magnetometer traverses showed high readings. Options on this land were obtained from Elliott, Holrose and Parker.

In the finger to the south outcrops were well distributed in the northern end and showed well serpentinized and highly sheared rock. In several outcrops fair amounts of short slip fibre were evident. The southern end was completely covered with generally deep overburden. Contacts were mapped and showed a sizable area with generally high readings. It was the type of body that might be well serpentinized and favorable for fibre. Options were obtained from Elliott, Taylor and Cole.

Elliott-Taylor-Cole Options (A1) Map No. 4 (Finger Area)

A stadia traverse was run through the finger area to map the contact more precisely and for drill control. Four holes, LH-1 - LH4, were drilled along the axis of the finger. Two of these, LH2 and LH4, showed fair indications but were not of ore value. The four holes eliminated

all but the northern end of the finger. Outcrops in this area were similar to those in the vicinity of LH4, and it was felt the possibilities of ore were very remote. If fibre existed in sufficient volume to be of economic interest indications should have been evident in Hole LH11 drilled in the main mass at a later date.

Two of the holes were milled in the core testing laboratory with the following results:

	Average	Core Mill Results	
Hole No.	Estimated Yield	Yield	Value per ton of Ore
LH2	1.75%	2.70%	$1.95
LH4	2.25%	2.34%	$1.60

Logs of the drill holes, numbers LH1 - LH4, will be found on pages 40 - 43.

Elliott-Belrose-Parker Option A2 - Map No. 4

A control traverse was run around the mass and contours mapped. A 100' grid was established over a portion of the mass for a detailed magnetometer survey. Results of the survey, plotted on Map 10, were inconclusive. While some high intensity anomalies were indicated and the intensity of the area was a fair average, the high intensity anomalies were small and scattered and the pattern developed was extremely irregular. Some further area was tested with a dip needle and similar results indicated a more extended survey would not produce conclusive results.

Eleven diamond drill holes, LH5 - LH15, were drilled in the area. Generally they were drilled where outcrops were not numerous and good surface examination could not be made. They were, however, placed in somewhat of a pattern to cover the area at the same time trying to drill in the more favorable areas first. Originally holes were planned at not over 500 to 600 feet spacing and this was increased to from 800 to 1000'. Even though this final spacing was wide, it is felt that if ore exists at all, some one of the holes would have shown more encouraging results.

Logs of the drill holes, numbers LH5 - LH15, will be found on pages 44 - 54.

SERPENTINE MASS (B)

MAP NO. 5

Blind Option B1

DMNA CONTRACT - AREA 3

Serpentine Mass (B) - Map No. 4

This mass is located about one mile northeast of Lowell Village. Route 58 cuts through the southern end of the mass. The mass is 3000 feet long and 600 feet wide. It lies on the top of a westerly slope at an elevation of 1180 to 1300 feet. The topography is a series of ridges and knolls.

Outcrops are fairly numerous except in the southern end. For a distance of 2500 to 3000 feet from the northern end excellent green fibre indications can be seen in some of the outcrops. Three fair sized test pits in this area all show good indications. However, the area has been drilled and the fibre occurrences found to be too spotty to be of economic interest.

Progressing south outcrops become more widely scattered and are completely lacking in the southern end. Two exploratory holes were planned in the vicinity of scattered outcrops just north of the buried southern end. The rock in these outcrops was sheared and well serpentinized and showed some green and occasional slip fibre. Land was optioned from Bliss.

Two holes were located midway between the east and west contacts and 400 feet apart. Both holes showed very small amounts, less than 1/2 of one percent, of short slip and green fibre. Indications of ore were so remote no further work in the area was considered justified.

Logs of the drill holes, BL-1 and BL-2, will be found on pages 55 and 56.

SERPENTINE MASS (C)

MAP NO. 6

(BROWN'S LEDGES)

Robeim-Basiset-LaFlume Option (C1)

Richardson-Pope Option (C2)

DMRA CONTRACT - AREA No. 1

Brown's Ledges (c) Map No. 6

This mass is located one mile west of Route 100 and on the Lowell-Westfield town line. The mass is 8000 feet long and 3000 feet wide. It includes the top and southeasterly slopes of a hill. Four to five hundred feet east of the western contact prominent ledges make up the top of the hill at an elevation of 1500'. From the top, the hill drops in a series of ledges to the eastern contact which, at an elevation of 900', is 50 to 100 feet above the river.

Except for the southern end of the mass outcrops are fairly numerous. Surface examination indicated the bulk of the mass was not highly serpentinized and not fractured to any great extent. Only two areas seemed favorable for investigation. One of these, C1, was in the northeast part of the mass in the vicinity of the Lowell-Westfield town line and along the eastern contact. Property was optioned from Rabein, Rosicot and LaPlume. The second area, C2 was at the southern end. This property was optioned from Richardson and Pope.

Rabein-Rosicot-LaPlume Option (C1) Map No. 6

This area covered a band along the eastern contact, possibly 2000 feet long by 800 feet wide in which outcrops showed fair indications of slip fibre. The rock was more serpentinized and showed considerably more shearing than the main body of the mass. Some small test pits, results of work on the property around 1910, all showed short to fair length slip fibre. Some diamond drilling had also been done on the property around 1925 but all efforts to locate the results of this work failed.

Very little mapping was required in this area. The terrain was too rough for a detailed magnetometer survey. A dip needle was used to locate the contact on the northeast. The contact on the east was apparent at the base of steep ledges. Outcrops were prevalent throughout the area. Five holes were drilled in the area: Three, R1, R2 and R3, by the Ruberoid Company prior to the DMEA contract, and two, R4 and R5, after. Spacing of the

holes was 300 to 600 feet. None of the holes showed fibre in economic amounts.

As outcrops to the south and west showed very poor fibre indications, and the contact cut the area to the north and east, there could be no possibility of an ore body.

Four of the holes were milled in the core testing laboratory to confirm visual estimates with the following results:

Hole No.	Average Estimated Yield	Core Mill Results Yield	Core Mill Results Value per ton of Ore
H2	1.68%	1.66%	$0.84
H3	1.00%	1.12%	0.74
H4	0.63%	1.48%	0.83
H5	0.20%	0.44%	0.24

Logs of the drill holes, numbers H1 - H5, will be found on pages 57 - 61.

Richardson-Pope Option (C2) - Map No. 6

This area, on the south end of the Brown's Ledges serpentine mass was completely covered with overburden. In a preliminary examination pace traverses with the magnetometer showed fairly consistent readings. These readings were considerably higher than readings on outcrops to the north which were not well serpentinized or fractured. The contact as mapped showed the area to be in the pinched out end of the mass but of sufficient size to make a possible ore body. The area was interpreted as probably well serpentinized and favorable for the formation of asbestos.

Two pilot holes, R1 and P1, 600 feet apart were drilled to test the area. Overburden was 98 and 94 feet deep respectively. Both holes showed nearly barren serpentine with only occasional seams of short slip fibre. As these holes were located in the center of the area, and there was insufficient size remaining, the area was eliminated from any further consideration.

Logs of the drill holes, numbers R1 and P1, will be found on pages 62 and 63.

SERPENTINE MASS (D)

MAPS No. 7 & 8

Rubein Option D1

Dugan-Ramsom Option D2

Rammdell-Fournier Option D3

DNSA CONTRACT - AREA 5

Serpentine Mass (D) Maps 7 & 8

This mass, located 1/4 to 1 mile east of Route 100 between Lowell and Troy, is about 5 miles long. It extends from just south of the Lowell-Westfield town line north nearly to Route 100 at a point 1/4 to 1/2 mile east of Troy Village. In width the mass varies from 500 to 2000 feet. Top elevations are 900 to 1300 feet and at or near the top of the slope, while bottom elevations are about 800 feet or near the valley floor.

The southern half of the mass has many prominent high ledges. The western contact is frequently close to the bottom of one of these ledges. The serpentine generally shows blocky fracturing, is hard and weathers to a reddish brown. Little or no talc-grit is evident.

In the northern half talc-grit areas are fairly frequent. The serpentine shows more shearing and the reddish brown weathering so prominent in the southern half is very seldom noticed. The serpentine in the northern and southern halves differ to such an extent that they would seem to be two separate masses and it is possible that such is the case, although mapping to date indicates a single mass.

Preliminary study showed three favorable areas in this mass. The first, D1, located in the southern end of the mass showed long slip fibre. Outcrops were numerous and allowed a good surface examination. The fibre was widely scattered but when present was generally of exceptionally good length. Dip needle traverses were run and showed highly erratic readings, due to the rough terrain, indicating that no conclusive results would be obtained from a magnetometer survey. Property was optioned from Rabain.

The second area, D2, is located in the central portion of the southern half of the mass. Fair amounts of short slip fibre were present in outcrops in the northwestern portion. In the southeast some exceptionally long fibre in a large vein was noted close to the contact. Outcrops were widely scattered and dip needle readings relatively high. Land was optioned from Dugan and Remsen.

The third area, B[illegible] is located in a finger lying to the west of the main mass but apparently connected to it. A road cut showed good indications of short slip fibre and some cross and slip fibre were evident in outcrops southwest of this. The main mass to the east showed no favorable areas. Land was optioned from Fournier and Ramsdell.

Rubain Option D1 - Map 7

A stadia traverse was run around the area for control. Outcrops were studied in more detail. A program of six holes to test the area for concentrations of the long slip fibre evident in scattered outcrops was planned. Spacing of the holes was wide, 600 to 1000 feet, but due to the amount of outcrop was considered sufficient. Two holes, RR2 and RR6, were located along the southeast contact where overburden was fairly deep and outcrops were lacking.

In all of the holes only a few seams of long slip fibre were present. The total fibre content of each was very low. Logs of the drill holes, RR1 - RR6, will be found on pages 64 to 69.

Dugas-Rondeau Option D2 - Map 7

Stadia traverses were run around the area for control. Dip needle traverses in the southeast portion indicated erratic inconclusive results. Overburden was generally heavy and only a few outcrops were found. Outcrops to the west were plentiful and fibre indications were poor. Three holes, spaced 1000 feet apart were planned to test the overburden area along the eastern contact.

In the northwest portion outcrops showing fair slip fibre indications were mapped in more detail and two holes, RR7 and RR3, located to test this ground. Hole RR1 was located to test a buried portion of the serpentine body which seemed favorable because of its proximity to the western contact and to the fibre indications in the vicinity of RR2 and RR3.

None of the six holes showed any appreciable amounts of fibre. Logs of the drill holes, D1, D2 & D3 and RR1, RR2 and RR3, will be found on pages 70 to 75.

Rangeill-Fournier Option #5 - Map 8

A large part of this area was covered with overburden and, being located on the valley floor, was relatively flat. A grid system was established for a magnetometer survey to more accurately determine the contacts and to attempt to interpret the more favorable areas. Results of the survey are shown on Map 11. Generally the area is one of low magnetic intensity. Practically no readings of 1000 gammas were obtained on overburden; all above this being directly over outcrops. Contacts appeared fairly clear although there was some doubt due to talc-grit areas in the northwest. Generally, however, the talc-grit outcrops showed an appreciably higher reading than the surrounding schists. The contact on the map would follow the 1000 gamma contours.

Two holes were located with consideration given to surface showings. RF1 was drilled under a road cut with fair slip fibre indications and RF2 was angled under a ridge showing occasional cross fibre. Results of both holes were very poor, and as the area was small and the magnetic intensity generally low, the area was abandoned. Logs of the drill holes, RF1 and RF2, will be found on pages 76 and 77.

SERPENTINE MASS (E)

MAP No. 9

(East Hill)

Deschenaux Option E

DMNA CONTRACT - AREA 5

Serpentine Mass (B) - Map 7

This serpentine mass lies 2 miles northeast of Troy Village. The mass is 7000 feet long and 1500 feet wide. It is located at the top of a westerly slope at an elevation of 1100 to 1200 feet. The topography is a series of ridges paralleling the strike of the mass.

Outcrops are relatively numerous throughout. Small amounts of cross fibre, generally short, were found scattered throughout and occasionally areas of short slip fibre were evident. The entire mass was relatively uniform, however, indications appeared better in the northern half and this property was optioned from Deschenaux for further investigation.

Deschenaux Option #1

A base line and grid system were established for a magnetic survey of the property. Results are plotted on Map 12. The effects of topography are very evident. Steep ridges affected readings as well as the varying depth of overburden and an anomalic pattern paralleling the ridges resulted. However, there was a general higher intensity area, over 4000 gamma, which was largely covered with overburden. Although this was not a high anomalic it was given consideration. Three holes, #2, #3 and #4 were drilled to test this anomalic. Two other holes, #1, located in the center of the north end and #5 located to fill a large blank area completed the drilling.

None of the holes showed economic fibre values. One 13 foot section of Hole #4 showed 3% cross fibre and a 68 foot section in #2 showed possibly 2%, otherwise the core was very poor. The five holes would average under 1% and probably 90% of the fibre is shorter than Group 5. None was longer than Group 4. Logs of the drill holes will be found on pages 78 to 82.

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 20 1952
Ms. Hearne

November 19, 1952

Memorandum

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

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

Subject: The Ruberoid Company, Vermont Asbestos Mines
Hyde Park, Vermont - Contract Idm- E23
Docket DMEA-1210 - (Asbestos)

Attached are the original and three copies of the October Field Inspection Report by H. L. Burmeister, on subject contract.

W. T. Millar

W. T. Millar

Attachments - 4

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 20 1952

DMEA
Field Inspection Report
November 12, 1952
by
H. L. Burmeister, Engineer

Operator:	The Ruberoid Company, Vermont Asbestos Mines, Hyde Park, Vermont
Docket No.:	DMEA-1210
Contract No.:	Idm-E23
Commodity:	Asbestos
Total Cost:	$71,600.
Government Participation:	90% or $64,440.
Duration of Contract:	18 months - from June 26, 1951 to December 26, 1952

(Reported by dictaphone memo belt)

The following information was received from Mr. Jordan, Geologist, due to the fact that Mr. Messel and Mr. Gilmore were both away for one week:

During October one diamond drill operated on sub-contract. Hole RB-5 was drilled to bottom at 299 feet. This hole logged less than ½ percent asbestos. Hole RB-4 was started in October and completed October 30 at 301 feet, but the core has not yet been logged.

H. L. Burmeister

College Park, Md.
November 19, 1952

FILE COPY
SURNAME:

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

BL

Hearne
Houk

OCT 13 1952

Mr. McHenry Mosier
Executive Officer, DMEA
Field Team, Region VIII
U. S. Bureau of Mines
Eastern Experiment Station
College Park, Maryland

Subject: Docket No. DMEA-1210 - Asbestos
The Ruberoid Company
Orleans and Lamoille Counties
Vermont
Contract No. Idm-423

Dear Mr. Mosier:

Reference is made to subject contract with The Ruberoid Company for asbestos exploration in Orleans and Lamoille Counties, Vermont.

Enclosed you will find executed copies of Amendment No. 1 effective June 26, 1951, deleting former Exhibit D and substituting the new Exhibit D. One copy of the amendment is for your office and the other is for the Regional Finance Office.

F.H. 10-13-52

Sincerely yours,

(signed) FRANK E. JOHNSON
EHB

Chairman, Operating Committee

Approved:

C. W. Johnson EHB
Member, Bureau of Mines

A. R. Kinkel Jr. EHB
Member, Geological Survey

LFHearne:gad 10/10/52
Copy to: Adm. R. File
Docket File
Operating Committee (2)
Dr. Bowles, 3516
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

Enclosures 2

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

October 8, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Docket DMEA-1210, Contract Idm-E23
The Ruberoid Company, Vermont Asbestos Mines
Hyde Park, Vermont - (Asbestos)

Attached are the original and three copies of H. L. Burmeister's September Field Inspection Report on subject contract.

McHenry Mosier

McHenry Mosier

Attachments - 4

DMEA
Field Inspection Report
by
H. L. Burmeister, Engineer
October 1 and 2, 1952

Operator:	The Ruberoid Co., Vermont Asbestos Mines
Address:	Hyde Park, Vermont
Docket No.:	DMEA-1210
Contract No.:	Idm-E23
Commodity:	Asbestos
Total Cost:	$71,600
Government Participation:	90% - $64,440
Duration of Contract:	18 months, from June 26, 1951 to Dec. 26, 1952.

The Ruberoid Company is expecting to option one additional property to be drilled under this contract. They expect to drill 3 or 4 holes with a combined length of 800 or 900 feet. If the results of this drilling is not encouraging, the company will request termination of the contract. It is noted that the contract termination is December 26, 1952. At termination the company will make a single large plan map embracing all the areas drilled under this contract.

During September, one drill operated most of the month and another drill a smaller part of the month. Diamond drill holes D-3, BR-2 and BR-3 were completed and BR-5 was started in September.

All areas were visited as far as it was possible to do so. The core testing plant was visited and observed.

It is suggested that at the time of contract termination the actual test plant results of all holes be requested. The logs submitted with monthly reports are those obtained by visual examination.

Mr. Cady, USGS, was contacted regarding the report he will make on both this contract and contract Idm-E286. He expects to complete this report approximately October 15th. Because of the possibility of Ruberoid requesting a termination of Idm-E23, it was suggested and Mr. Cady agreed, that the report on Idm-E23 would be submitted first.

H. L. Burmeister
Mining Engineer

College Park, Md.
October 7, 1952

The RUBEROID Co.
500 Fifth Avenue
NEW YORK 36, N.Y.

EXECUTIVE OFFICES

October 2, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 3 1952

Mr. C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
U. S. Department of Interior
Washington, 25, D. C.

Dear Mr. Mittendorf:

Subject: Docket No. DMEA-1210 - Asbestos
The Ruberoid Company
Hyde Park, Vermont
Contract No1 Idm-E23

We have your letter of September 30, together with the seven copies of Amendment No. 1 to the above-captioned contract. As requested we are returning herewith six executed copies, retaining the "Operator's Copy" for our files.

Sincerely yours,

The RUBEROID Co.

Stanley Woodward

Stanley Woodward
Executive Vice President

SW:rw

SDS
10/3/52

FILE COPY
SURNAME:

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

Hearne
Lund
Mitzel
Johnson
Johnson

SEP 30 1952

Mr. Stanley Woodward
Executive Vice President
The Ruberoid Company
500 Fifth Avenue
New York 18, New York

Subject: Docket No. DMEA-1210 - Asbestos
The Ruberoid Company
Hyde Park, Vermont
Contract No. Idm-K23

Dear Mr. Woodward:

Enclosed are seven signed copies of Amendment No. 1 to the above-captioned contract. Please execute them all, keep the one marked "Operator's Copy" for your file, and return the remainder to this office.

Sincerely yours,

C. O. Mittendorf
Administrator

Enclosures 7

LFHearne:gad 9/26/52

Copy to: Admin. Reading File
Field Team, Region VIII
Docket File
Dr. Bowles, 3516
Mr. Norton, G-232 GSA Bldg.
Mr. Houk
Operating Committee (2)

Reviewed by
DMEA OPERATING COMMITTEE
9/29/52
(Date)

FILE COPY
SURNAME:

Talbert

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

SEP 29 1952

BL

Mr. Michael J. Messel
General Superintendent
The Ruberoid Company
Hyde Park, Vermont

Dear Mr. Messel:

Enclosed herewith for your information is a copy of the Audit Certificate and Audit Report resulting from my recent audit of your records pertaining to DMEA Exploration Project Nos. Idm-E23 and Idm-E286, Docket Nos. 1210 and 2080, respectively.

I wish to take this opportunity to express my appreciation for the courteous co-operation extended to me during this audit by you and the other officers and employees of your Company.

Sincerely yours,

P.H. 9-29-52

(Signed) E. D. Talbert

E. D. Talbert, Assistant Chief
Contract Administration and
Audit Division

Enclosure

EDTalbert/wb
September 29, 1952

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 29 1952

xxxxxxxxxxxxxxxxxx

College Park, Maryland

September 26, 1952

Memorandum

To: D. N. Anderson, Finance Officer, Region VIII

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Contract Idm-E23, Docket DMEA-1210
Contract Idm-E286, Docket DMEA-2080X

Attached are audits and certificates in duplicate for the subject contracts with the Ruberoid Company, to be filed in accordance with Circular 19, Supplement 3, Section 5. In this connection please bear in mind that I am preparing an approval of the sub-contract with the Joy Manufacturing Company for diamond drilling, dated May 15, 1951. It is requested that any adjustment of odd cents be made on the payment of the next MF-104.

McHenry Mosier

Attachments - 4

McHM:rwa

copy for JayLChambers
DMEA Files

R. & R.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 29 1952

College Park, Maryland

September 26, 1952

Mr. Michael J. Hessel
General Superintendent
The Ruberoid Company
Hyde Park, Vermont

Re: Contract Idm-F23, Docket DMEA-1210
Contract Idm-F286, Docket DMEA-2080X

Dear Mr. Hessel:

In reference to my letter to you under date of August 27, 1952 regarding sub-contracts, the approval of the contract for diamond drilling between the Ruberoid Company and the Joy Manufacturing Company, dated December 21, 1951, is hereby amended to apply not only to contract Idm-F23 but also to contract Idm-F286. Also, approval is extended under contract Idm-F23 to include the sub-contract between the Ruberoid Company and the Joy Manufacturing Company for diamond drilling, dated May 15, 1951.

Very truly yours,

MOHENRY MOSIER
Mohenry Mosier, Executive Officer
Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

McH:rwa

copy for F.Johnson - 3
JayChambers
DHAnderson
DMEA Files 2

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

Mr Hearne

September 22, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Docket DMA-1210, Contract Idm-E23
The Ruberoid Company, Hyde Park, Vermont
(Asbestos)

Attached are three photostatic copies of an agreement on subject contract.

McHenry Mosier

McHenry Mosier

Attachments - 3

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 23 1952

FILE COPY
SURNAME:
800
Talbert

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

To: Mr. Frank E. Johnson
Deputy Administrator

SEP 22 1952

From: E. D. Talbert, Assistant Chief
Contract Administration and Audit Division

(Signed) E. D. Talbert

Subject: Suggested Amendments to Contracts E-22 and E-286, Dockets 1210 and 2060, Ruberoid Company -- Asbestos

Reference is made to Mr. Mosier's memorandum of September 9, 1952, recommending an amendment to Contract E-23 to permit the payment of prevailing wage rates, including time and one-half for overtime.

During the period of September 9 to 12, 1952, I performed an on-site audit of the records pertaining to Contracts E-23 and E-286 with The Ruberoid Company. This audit disclosed that the following wage classifications and rates were in effect in the Company's Exploration Department, which is concurrently performing work on the DMEA projects and company projects:

Classification	Hourly Rates Effective 11/12/50	Effective 5/4/52
Drill Operator	$1.31	$1.36
Sparemen	1.14	1.19
General Laborer	1.07	1.12

Shift differentials of $.05 and $.10 and overtime rates of time and one-half are paid in addition to the above rates.

Under Contract E-23, which is on the old form of contract (April 1951), the Exhibit "D" specifically limits the rates to "Maximum wages per hour" of $1.07 for laborers and $1.17 for student helpers and rodmen. (The drill operator is not applicable to this contract.) Taken literally this statement would prevent payment not only for the increased rates effective May 4, but also the customary overtime and shift differentials.

Under Contract E-286, which is on the new form (Rev. Feb. 1952), there is no limitation to the rates. Therefore, the prevailing rates including customary overtime and shift differentials are allowable.

Since all Exploration Department employees are used interchangeably on the two DMEA projects, as well as on Company exploratory work, it is definitely incompatible and inequitable not to allow the increased rates, and the overtime and shift differentials, under Contract E-23. Therefore, I concur with Mr. Mosier's recommendation.

It is recommended, however, that the amendment to Contract E-23 include a restatement of the classifications as "Sparemen" and "General Laborer" in lieu of the fictitious classifications of "Laborer", "Rodman" and "Student Helper". This would eliminate the unnecessary maintenance by the Company of time sheets, distribution sheets and cost accounts under the several fictitious classifications and also will facilitate future audits.

It is recommended also, for the same reasons, that Contract E-286 be amended to show the estimates for labor in the classifications of "Drill Operator", "Sparemen" and "General Laborer" in lieu of the classifications of "Instrument Man", "Survey Helpers", "Drill Runners", "Drill Helpers", and "Tractor-truck Driver".

It is suggested that the amendment to Contract E-23 be expedited since the Audit Report and Certificate are being prepared on the basis that the payment of the increased rates and the customary overtime has the Administration's approval. In this connection it was found that the Company's supervisor of Exploration had notified the DMEA Executive Officer by letter dated May 20, 1952, that new rates were in effect and stated "I understand approval for the wage increase would be granted by approval of the monthly cost statement." The DMEA Executive Officer's letter of reply dated May 23, 1952, did not mention the change in rates nor did he withhold approval of subsequent MF-104's, to which were attached payroll transcripts clearly indicating the increased rates. It should be noted that the Company's wage rates are extremely low in comparison with those in effect under other contracts.

KDTalbert/wb
September 19, 1952

Copy to: Mails & Files
Admr. Reading File
Mr. Mosier
Mr. Houk
Mr. Talbert

Mr Hearne
DMEA
file

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
College Park, Md. September 16, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region VIII

Subject: DMEA Docket No. 1210, Contract Idm-E23 and — file orig
DMEA Docket No. 2080, Contract Idm-E286
Ruberoid Company, Eden, Vt.
Commodity - Asbestos

Attached in quadruplicate is H. L. Burmeister's Field Inspection Report of September 5, 1952, on subject contracts.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 19 1952

Field Inspection Report, Sept. 5, 1952
H. L. Burmeister, Engineer

DMEA Docket No. 1210, Contract Idm-E23
DMEA Docket No. 2080, Contract Idm-E286
Ruberoid Company, Eden, Vt.
Commodity - Asbestos

Mr. Wallace Cady of the U. S. Geological Survey was contacted at Eden, Vt. Mr. Cady states that a report on the Ruberoid Company contracts will start as soon as possible, which will probably be in about one month. It is understood his report will review the holes already drilled on both contracts in relation to their location and intervals as well as the desirability of continued drilling in certain areas or shifting the operations to other sections of areas. The impression gained is that in general both Mr. Cady and Mr. Chidester believe the drilling has been done in the best localities. Mr. Cady says he will furnish Mr. Mosier with a copy of his report.

Mr. Gilmore who is in direct charge of the contract operations states that he believes a maximum of two more holes may be drilled in the (T) area, but rather thinks even these may not be drilled. He also states that if the results of present drilling in the Tower 2 also called the (T) 2 area prove good, more drilling will be done there and possibly none on the (Magnetometer Area).

Under Docket 2080, one contract and one company drill operated in August. The contract drill being idle for a considerable portion of the time because one driller had quit. There was a drill breakdown and also a lack of drilling water. There was a cost of $515 to bring water to the required distance to the contractors. This has been charged to contract drilling. Contract hole E23 will be continued to 1,000 feet. This hole started in good ore but at about 150 feet the values dropped considerably. Company drill hole T2-3 encountered a small amount of fibre but it is not known at present if it will continue. Mr. Messel is considering requesting that a portion of funds originally set aside for magnetometer work and later on request of Ruberoid, transferred to drilling be reallocated to the magnetometer exploration. This exploration would be over the top of the hill beyond the presently operating quarry.

In general, the results of diamond drilling during the month of August were not encouraging.

H. L. Burmeister

FILE COPY
SURNAME:

Chamber

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

Mr. Michael J. Messel
General Superintendent
The Ruberoid Company
Hyde Park, Vermont

AUG 28 1952

Dear Mr. Messel:

Under the terms of Exploration Project Contracts Idm-E23 and Idm-E286, Docket Nos. 1210 and 2080, respectively, it is provided that you "keep suitable records and accounts of operations, which the Government may inspect and audit at any time."

It is anticipated that Mr. E. D. Talbert, an auditor representative of this Division, will visit your office on or about September 10, 1952, for the purpose of certifying the validity and propriety of the Government's payments.

If for any reason the timing of this visit is unappropriate, please advise.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration and
Audit Division

EDTalbert/wh
August 27, 1952

Copy to: Mails & Files
Admr. Reading File
Mr. Mosier
Mr. Talbert

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

DEPARTMENT OF THE INT.
Defense Minerals Administ.
RECEIVED
AUG 29 1952

August 27, 1952

Mr. Michael J. Hessel
General Superintendent
The Ruberoid Company
Hyde Park, Vermont

Docket DMA-1210
Contract Idm-E23

Dear Mr. Hessel:

Pursuant to Article 4 of Contract Idm-E23, approval of the contract for diamond drilling (core drilling program) between the Ruberoid Company and the Joy Manufacturing Company, dated December 21, 1951, is hereby given by the Government.

Yours very truly,

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

McHM:rwa

copy for FEJohnson - 3
JChambers
DNAnderson, Pgh.
DMEA Files

SD

xxxxxxxxxxxxxxxxxx
College Park, Maryland

August 20, 1952

Mr. T. Morgan Potter, Asst. Genl. Supt.
Ruberoid Division - Vermont Asbestos Co.
Hyde Park, Vermont

Re: July Progress Reports
Contract E-23 - Omea 1210
Contract E-236 - Omea 2080

Dear Mr. Potter:

It is understood that at the time of Mr. Burmeister's last visit, August 4, it was agreed that the progress of all diamond drill holes would be reported as follows:

Company drilled hole ___No.___, from ___ft. to ___ft. Drilled this period ___ft.
" " " " " " " " " " "

Contract drilled hole ___No.___, from ___ft. to ___ft. Drilled this period ___ft.
" " " " " " " " " " "

A copy of the above was left in your office but this data is not contained in the July Operator's Report for either of the subject contracts. As an example, the June report on Contract E-23 reports only that drill hole DH-14 was started and the July report states it is finished. The footage for each month is not recorded for any month, or for other holes. It is not possible to audit the current account of progress or funds expended if the outlined data is not furnished. This is particularly necessary in the contract drilling in view of the terms of the sub-contract for drilling where the price changes with depth.

The July report on Contract E-236 is correct in all respects except the data requested, which should also justify the expenditure shown on Forms 104 and 104A.

The July report on Contract E-23 is correct except for the data requested and that on Form 104. The same breakdown followed in Contract E-236 should be used on "Other" under (3) and "Rental" under (4).

The original of both contracts are being retained in this office for comparison with the revision. All maps and log sections are also being held and will be attached to the revised report when received. With these exceptions the balance of the reports are returned for correction.

Yours very truly,

McHenry Mosier, Executive Officer
DMEA Field Team, Defense Minerals
Exploration Administration, Reg. VIII

cc: DNAnderson
COMittendorf (2)
DMEA
DMEA Engr.

Enclosures

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

July 23, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region VIII

Subject: June, 1952 Monthly Report of Operator
Docket DMEA-1210, Contract No. Idm-E23 - (Asbestos)
Ruberoid Company, Hyde Park, Vermont

Attached are two copies of the Monthly Report of Operator from the Ruberoid Company, Vermont Asbestos Mines, Hyde Park, Vermont, for June 1952. These have been approved and are being sent to the Finance Officer, Region VIII, for payment of the Government's share.

McHenry Mosier

Enclosures - 2

DEPARTMENT OF THE INTERIOR
Bureau [illegible]
JUL 24 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
College Park, Maryland

July 23, 1952

Memorandum

To: D. N. Anderson, Finance Officer, Region VIII

From: Executive Officer, DMEA Field Team, Region VIII

Subject: June, 1952 Monthly Report of Operator
Docket DMEA-1210, Contract No. Ida-823 - (Asbestos)
Ruberoid Company, Hyde Park, Vermont

Attached is the original of the Monthly Report of Operator from the Ruberoid Company, Vermont Asbestos Mines, Hyde Park, Vermont, for June 1952. This report has been checked by H. L. Burmeister and approved by me. You will note that the amount approved for payment this month by the Government is $6,841.73.

McHenry Mosier

Enclosures:
Operator's Monthly Report
HLBurmeister's Field Inspection Report

McHM:rwa

copy for COMittendorf
DMEA Files 2

JUL 3 1 1952

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

July 18, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Docket DMA-1210
Ruberoid Company
Eden, Vermont

Attached in quadruplicate is the Mining Engineer's Field Report of July 14, 1952, on the asbestos project under Contract Idm-E23.

McHenry Mosier

McHenry Mosier

Enclosure
Field Inspection Report (Orig. & 3)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 21 1952

C
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P
Y

DMEA
Field Inspection Report
July 14, 1952

H. L. Burmeister, Engineer

Operator:	Ruberoid Division, Vermont Asbestos Co.
Address:	Eden, Vermont
Docket Nos.:	1210 and 2080
Commodity:	Asbestos

Four diamond drills are operating, two in area No. 5 of the first contract and two in area No. 2 of the second contract. In June three holes were finished in area No. 2, holes 13 and 50; in area No. 5, holes RF-5 and EH-1 were finished; in area Tower 2, three holes and in the Eden Quarry two holes were finished.

It was found that all of the drill core that approaches economic value is used to assay or evaluate, leaving nothing for later study. The economic cut-off for fiber of any grade is a value of $3.00.

The USGS is mapping in the vicinity but it is not known whether this is near the properties under drilling contracts.

Monthly Operators' Reports for June were completed in technical data and the financial report was practically completed. The new forms were reviewed in detail with the accountant so that the costs should appear in their proper places.

An additional map was obtained which ties all of the areas together.

Mr. Messel stated that he is very disappointed in the drilling results of all areas outside of their own property with the exdeption of the results in "T" area in contract 2080.

Respectfully submitted,

/s/ H. L. Burmeister
H. L. Burmeister

College Park, Md.
July 17, 1952

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

June 25, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region VIII

Subject: May 1952 Progress Report, Contract No. Idm-E23
Docket No. DMA-1210 - (Asbestos)

Attached is the original and one copy of the Operator's Progress Report from the Ruberoid Company, Vermont Asbestos Mines, Eden Mills, Vermont, for the month of May 1952. This has been approved and is being sent to the Finance Officer, Region VIII, for payment of the Government's share.

W. T. Millar

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

Attachments:
Operator's Monthly Report
GLNeumann's Field Inspection Report

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration
JUN 26 1952

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

June 25, 1952

Memorandum

To: D. N. Anderson, Finance Officer, Region VIII

From: Executive Officer, DMEA Field Team, Region VIII

Subject: May 1952 Progress Report, Contract No. Idm-223
Docket No. DMA-1210 - (Asbestos)

Attached is one copy of the Operator's Progress Report from the Ruberoid Company, Vermont Asbestos Mines, Eden Mills, Vermont, for the month of May 1952. This report has been checked by H. L. Burmeister and approved by me. You will note that the amount approved for payment this month by the Government is $4,975.53.

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

Attachments:
Operator's Monthly Report
GLNeumann's Field Inspection Report

rwa

copy for COMittendorf
DMEA Files 2

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

June 17, 1952

Memorandum

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

From: Executive Officer, Field Team, Region VIII

Subject: April 1952 Progress Report, Contract IdmE-23
Docket No. DMA-1210 - Asbestos

Attached are two copies of the Operator's Progress Report from the Ruberoid Company, Vermont Asbestos Mines, for the month of April 1952. This has been approved and is being sent to the Finance Officer, Region VIII, for payment of the Government's share.

McHenry Mosier

Enclosures:
Operator's Report
WTMillar's Field Inspection Report
Letter from Ruberoid transmitting
title to two additional properties

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 18 1952

College Park, Maryland

June 17, 1952

Memorandum

To: B. N. Anderson, Finance Officer, Region VIII

From: Executive Officer, DMEA Field Team, Region VIII

Subject: April 1952 Progress Report, Contract IdMS-63, Docket No. DMA-1110 - Asbestos

Attached is one copy of the Operator's Progress Report from the Eubanks Company, Vermont Asbestos Mines, for the month of April 1952. This report has been checked by W. T. Miller and approved by me. You will note that the amount approved for payment this month by the Government is $2,000.00.

McHenry Mosier

Enclosure
Miller's Field Inspection Report

McHMi:rwm

copy for COMittendorf
DMEA Files 2

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 18 1952

COPY

May 20, 1952

Mr. McHenry Mosier, Executive Officer,
U. S. Department of Interior,
Bureau Survey Field Team,
Defense Minerals Administration, Region VIII,
College Pard, Md.

Dear Mr. Mosier:

A wage increase of 5 cents per hour for all hourly paid employees was made effective on May 4th, 1952 for all of our employees.

Under Exhibit D, Docket 1210, Contract E23, maximum hourly rates were established for various classes of labor. The increase effective May 4, 1952 would increase each of these rates 5 cents per hour. The total amounts established for the various classes of labor to complete the project need not be changed. These total amounts were estimated on a basis of man-days required and as work progresses the actual man-days required is somewhat less than estimated.

Under Docket 2080 Contract E286, I understand approval for the wage increase would be granted by approval of the monthly cost statement to the project. This project has not been in progress long enoughto compare actual work required with the estimated amounts. However, the increase is not sufficient to warrant a change in the estimated totals at this time.

Mr. W. T. Millar mentioned a short form method of reporting costs to the projects when he was last here. As we understand this system the remaining total costs of the projects would be decided by the remaining drill footage to give a cost per foot drilled. Thus under Docket 1210 Contract E23, with a remaining cost of $47,460.90 and drill footage of 7564', we arrive at a cost of $6.27 per foot, and similarly under Docket 2080, Contract E286 a cost of $5.21 per foot. These costs per foot figures would then be used in reporting each month giving a total based on actual feet dri lled.

The system seems far more satisfactory from our operating standpoint. However, we would need an exact wording of the Amendment and an outline of the required method of reporting, together with samples of the forms to be used to submit to our accounting department for approval.

Very truly yours,

The RUBEROID Co.

J. K. Gilmore
Supervisor of Exploration

* Reply from Mr. Mosier dated 5/23/52 does not mention wage rates!
9/12/52

HKG:vo

cc: Mr. M. J. Messel

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

~~WASHINGTON 25, D. C.~~

College Park, Maryland

April 16, 1952

Memorandum

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

From: Executive Officer, Field Team, Region VIII

Subject: March Progress Report, I-DMA-E23, Docket No. DMA-1210

Attached are two copies (original and carbon) of the Progress Report from the Ruberoid Company, Vermont Asbestos Mines, for the month of March 1952. This has been approved and is being sent to the Finance Officer for payment of the Government's share.

McHenry Mosier

Attachments

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 1 6 1952

College Park, Maryland

April 16, 1952

Memorandum

To: D. N. Anderson, Finance Officer, Region VIII

From: Executive Officer, Field Team, Region VIII

Subject: March Progress Report, I-DMA-523, Docket No. DMA-1210

Attached is one copy of the Progress Report from the Ruberoid Company, Vermont Asbestos Mines, for the month of March 1952, which has been checked by R. W. Arthur and approved by me. You will note that the amount approved for payment this month by the Government is $1,525.69.

McHenry Mosier

Attachment

McHM:rwa

copy for COMittendorf ✓
DMEA Files 2

The RUBEROID Co.
500 Fifth Avenue
NEW YORK 18, N.Y.

EXECUTIVE OFFICES

April 10,1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 11 1952

Mr.C.O.Mittendorf, Director
Production Expansion Division
United States Department of the Interior
Defense Minerals Administration
Washington 25, D.C.

RE; Contract 1-D.M.A.- E 23- Docket 1210
Exploration Project Contract.

Dear Mr.Mittendorf:

In compliance with your letter of June 27,1951, we enclose copy of an option agreement entered into with Hector and Vinalda Raboin for an area of 110 acres in Vermont, on which The RUBEROID Co. plans to start drilling shortly.

Yours very truly,

The RUBEROID Co.

Treasurer.

GFB:F
enc

AGREEMENT

This indenture made and executed by and between Hector Raboin and Vinalda Raboin of Lowell in the County of Orleans and State of Vermont, herein after designated as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and The Ruberoid Co. a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its division known as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the County of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors and assigns, where the context so requires or admits,

W I T N E S S E T H:

Whereas, said owners have certain estate situated in Lowell in the County of Orleans and State of Vermont containing one hundred ten acres, more or less, and further described as follows:

Being all the property of said owners hold in Lot No. twenty-two, (22), Range eight (8), and all that part of Lot No. Twenty-one (21) Range nine (9) which has not heretofore been optioned by the said company. Meaning the southerly part of Lot No. Twenty-two (22), Range eight (8) and the easterly part of Lot No. Twenty-one (21), Range nine (9). Being a part of the same land and premises deeded the said owners by Warranty Deed of Fernand Racicot and Fernande Racicot dated May 23,1951, and recorded in Book 22, page 56 of Lowell Land Records. Excepting and reserving from the effects of this instrument the dwelling house on said Lot No. 21, Range 9, and one acre of land to be fully defined if and when the owners deed the premises to said company.

WHEREAS

This indenture made and executed by and between Hector Ashton and Vinnie Ashton of Lowell in the County of Orleans and State of Vermont, hereinafter described as the owners, which expression shall include their heirs, executors, administrators and assigns, where the context requires or admits, of the first part, and The Hancock Co. a corporation organized and existing under and by virtue of the laws of the State of New Jersey, lawfully admitted to the State of Vermont, and doing business in said State of Vermont by its distinctive name as Vermont Asbestos Mines, having its Vermont office at Hyde Park in the County of Lamoille, of the other part, hereinafter designated as the company, which expression shall include its successors and assigns, where the context so requires or admits,

W I T N E S S E T H:

Whereas, said owners have certain estate situated in Lowell in the County of Orleans and State of Vermont containing one hundred ten acres, more or less, and further described as follows:

Being all the property of said owners sold in Lot No. Twenty-two, (22), Range eight (8), and all that part of Lot No. Twenty-one (21) Range nine (9) which was not heretofore been purchased by the said company, leaving the southerly part of Lot No. Twenty-two (22), Range eight (8) and the easterly part of Lot No. Twenty-one (21), Range nine (9). Being a part of the same land and premises leased the said owners by warranty deed of Ilsread Tarbox and Fermanie Tarbox dated July 20, 1891, and recorded in Book 22, page 40 of Lowell Land Records. Excepting and reserving from the estate of this instrument the dwelling house on said lot No. 21, Range 9, and one acre of land to be fully defined if and when the owners need the premises in said company.

Reference is hereby made and had to said deed and record and to all former deeds and their records for a further and more particular description of the above-described premises.

And, Whereas, the said company is desirous of prospecting said real estate for the purpose of preparing a geological map thereof;

1. Now, therefore, in consideration of a payment of two dollars per acres, and other good and valuable consideration, the receipt of this is hereby acknowledged, the said owners hereby grant to the company, the right to go upon said land and premises at any and all times for and during a period of one year from the date of these presents, by its agents, representatives and other employees for such purpose so employed, on foot or with vehicles and equipment, loaded or unloaded, for the securing and gathering of geological or other survey data, information and facts appertaining thereto, and may in connection therewith, drill, blast and take samples of said real estate and soil thereof, and do any other act or thing appropriate to the accomplishment of the purposes stated herein. The company undertakes and agrees to refrain from causing any unnecessary damage to said land and preises and from interfering with the personal privacy of said owners and in connection therewith hereby undertakes and agree to indemnify and make good any damage to trees or fences in the exercise of its right as herein set forth.

2. The owners further covenant and agree that at the election of the company and upon payment by it to them of the further sum of two dollars per acre that the rights and interests granted to the company in paragraph 1 above set forth may be extended and renewed for an additional period of one year from the date of termination of such rights as provided in said paragraph.

3. It is hereby mutually agreed by and between the parties hereto and any person claiming under them that in the event that disagreement or difference shall arise between them with respect to damage so caused, or the extent thereof, such disagreement or difference shall be referred to three arbitrators, one to be chosen by each party hereto and the third to be appointed by the two parties so chosen and the award in writing signed by any two of such arbitrators shall be final; provided, that such award shall be made within thirty days after the reference to said arbitrators. If either party shall refuse or neglect to choose an arbitrator within five days after the other shall have chosen an arbitrator and served written notice thereof upon the other, requesting him to choose an arbitrator, then the arbitrator so first chosen shall have power to proceed to arbitrate and determine the matter of disagreement or difference as if he were a sole arbitrator appointed by both parties hereto for that purpose, and his award in writing signed by him shall be final.

4. It is further agreed by and between the parties hereto, that for and during a period of two years from the date of these presents, the company shall have the right and option

to purchase, on payment of eight thousand dollars ($8,000.00) all of the land and premises herein described, including surface and mineral rights, together with suitable rights of way to and from the same, over the above-described lands and other lands of the owners to provide access to lands acquired by the company pursuant to this option or adjacent to lands acquired under this option. Upon notice to the owners within two years from the date hereof by the company of its election to exercise its option, said owners covenent and agree to forthwith make, execute and deliver to the company, their good and sufficient warranty deed of the lands and rights so required by it.

5. Provided, however, that the foregoing option rights and any conveyance made as therein provided shall be subject to the right of the owners to enter upon said lands for a period of two years from and after the date of deed to the company and, in husbandlike manner, cut, skid, yard and remove all trees thereon then suitable for merchantable timber or pulpwood, and to the extent reasonably practicable, without interference with operations on said premises by the company.

IN WITNESS WHEREOF, said owners have hereunto subscribed their hands and affixed their seals, and said corporation has hereunto set its corporate name and affixed its corporate seal by Michael J. Messel, its authorized agent, this 26th day of March A. D. 1952.

In presence of:

signed- Louis Jordan, Jr

Robert A. Magoon

signed- Hector Raboin

Vinalda Raboin
Owners

signed- Louis Jordan, Jr

Robt. A. Magoon

The Ruberpid Co. Vermont
Asbestos Mines
signed by- Michael J.Messel
Its authorized Agent

STATE OF VERMONT)
)
Orleans County,ss.)

At Lowell in said county this 26th day of March A.D. 1952 before me personally appeared Hector Raboin and Vinalda Raboin and they acknowledged this instrument, by them sealed and subscribed to be their free act and deed.

signed- Robert A. Magoon
Notary Public

STATE OF VERMONT)
)
Orleans County, ss.)

At Lowell in said county this 26th day of March A.D. 1952 before me personally appeared Michael J. Messel as duly authorized agent for The Ruberoid Co., Vermont Asbestos Mines, and he acknowledged this instrument, by him sealed and subscribed to be the free act and deed by himself and of said corporation.

signed- Robert A. Magoon
Notary Public

AGREEMENT

HECTOR RABOIN and VINALDA RABOIN

AND

THE RUBEROID CO.

Lowell Town Clerk's Office
Received for Record
March 27th A.D. 1952 at I
o'clock 30 minutes P.M. and
recorded in Book 22, Pages
#130 - I3I of Land Records.
Attest,

aigned- D.P. Naramore (?)
Town Clerk

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

~~WASHINGTON 25, D. C.~~

College Park, Maryland

March 17, 1952

Memorandum

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

From: Executive Officer, Field Team, Region VIII

Subject: February Progress Report, I-DMA-E23, Docket No. DMA-1210

Attached are two copies (original and carbon) of the Progress Report from the Ruberoid Company, Vermont Asbestos Mines, for the month of February 1952. This has been approved and is being sent to the Finance Officer for payment of the Government's share.

McHenry Mosier

Attachments

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 18 1952

xxxxxxxxxxxxxx

College Park, Maryland

March 17, 1952

Memorandum

To: D. H. Anderson, Finance Officer, Region VIII

From: Executive Officer, Field Team, Region VIII

Subject: February Progress Report, I-DIA-E23, Docket No. DIA-1210

Attached is one copy of the Progress Report from the Ruberoid Company, Vermont Asbestos Mines, for the month of February 1952, which has been checked by G. L. Neumann and approved by me. You will note that the amount approved for payment this month by the Government is $636.59.

Mellenry Mosier

Attachments

[illegible]

[illegible] Our [illegible]
DIA Files 2

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 1 [illegible] 1952

OFFICE OF THE ADMINISTRATOR

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

February 20, 1952

Memorandum

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

From: Executive Officer, Field Team, Region VIII

Subject: January Progress Report, I-DMA-E23, Docket No. DMA-1210

Attached are two copies (original and carbon) of the Progress Report from the Ruberoid Company for the month of January 1952. This has been approved and is being sent to the Finance Officer for payment of the Government's share.

McHenry Mosier

Attachments

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 20 1952

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

COPY
Defense Minerals Administration
RECEIVED
OCT 14 1953

February 20, 1953

Mr. Michael J. Messel
General Superintendent
The Ruberoid Company
Hyde Park, Vermont

Dear Mr. Messel:

In reference to your letter of February 11, requesting certain changes in Contract I-DMA-E 23, Docket 1210:

The changes that you have proposed all seem beneficial to the objects of the contract and accordingly are approved:

The revised contract under exhibit A will now read:

Item	Total Amount Revised Contract
Aerial Magnetometer Survey	$ ---
Labor	8,465
Core Testing	500
Supervision	5,400
Consulting Geologist	8,000
Surveying & Mapping	5,400
Diamond Drilling	40,535
Rentals	1,800
Materials & Supplies	1,500
Total	$71,600

The original contract stands in effect in all other provisions.

Yours very truly,

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

McHM:rwa

copy for DMEA Files 2
FEJohnson
NENelson
DNAnderson, Pgh.

C
O
P
Y

The RUBEROID CO.

Hyde Park, Vermont

February 11, 1952

Mr. McHenry Mosier, Executive Officer
U. S. Department of Interior
Bureau Survey Field Team
Defense Minerals Administration, Region VIII
College Park, Maryland

Contract I-DMA-E 23 - Docket 1210 - Asbestos - $71,600

Dear Mr. Mosier:

We would like to have some of the funds re-alloted under the above contract, though this will, in no way, change the total.

Since the Aerial Survey was carried out prior to signing of the contract, and not allowed as part of the contract, and labor has been less than estimated we would like to use this money for additional diamond drilling and increase this from 6500 feet to approximately 12,000 feet. I am attaching a sheet showing how we want these funds re-alloted to get the most effective results in exploration for the money spent.

I am attaching Mr. Gilmore's report stating our reasons for this change as we have now found the only really effective way to search and prove asbestos deposits is by diamond drilling, and by putting more emphasis on this and less on preliminary field work.

In other words our experience during the past six months of 1951 permits us to formulate a more effective and suitable program for 1952 which includes considerably more drilling now that we have the serpentine areas pretty well mapped out.

We would appreciate early approval of this change so we can definitely formulate our drilling program for 1952, soon as weather permits.

Very truly yours,

The RUBEROID Co.

/s/ Michael J. Messel
Michael J. Messel
General Superintendent

MJM:vo

cc: Mr. W. G. Cowan
Mr. M. V. Englebach

Encls.

The RUBEROID Co.
500 Fifth Avenue
NEW YORK 18, N.Y.

EXECUTIVE OFFICES

February 14, 1952

Mr. C. O. Mittendorf, Director
Production Expansion Division
United States Department of the Interior
Defense Minerals Administration
Washington 25, D. C.

Re: Docket No. D.M.A.-1210 (Asbestos)
Exploration Project Contract

Dear Mr. Mittendorf:

In line with your letter of June 27, 1951 on the above subject, we are enclosing herewith copies of Options and Subordination Agreements on land areas in Vermont on which The Ruberoid Co. will conduct Surface Magnetometer Surveys and diamond drilling.

Yours very truly,

The RUBEROID Co.

G. F. Bahrs

G. F. BAHRS
Secretary-Treasurer

:hvm

Enc.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 15 1952

No Subordinations Agreements
with options.

OFFICE OF THE ADMINISTRATOR

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

January 18, 1952

Memorandum

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

From: Executive Officer, Field Team, Region VIII

Subject: December Progress Report, I-DMA-E23, Docket No. DMA-1210

Attached are two copies (original and carbon) of the December Progress Report from the Ruberoid Company. This has been approved and is being sent to the Finance Officer for payment of the Government's share.

McHenry Mosier

McHenry Mosier

Attachments

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 22 1952

xxxxxxxxxxxxxx

College Park, Maryland

January 18, 1952

Memorandum

To: D. N. Anderson, Finance Officer, Region VIII

From: Executive Officer, Field Team, Region VIII

Subject: December Progress Report, I-DMA-E23, Docket No. DMA-1210

Attached is one copy of the December Progress Report from the Ruberoid Company, which has been checked by H. L. Burmeister and approved by me. You will note that the amount approved for payment this month by the Government is $1,659.96.

McHenry Mosier

Attachments

rwm

Copy for DMA Files 2
Dittenhorf

OFFICE OF THE ADMINISTRATOR

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

January 11, 1952

Memorandum

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

From: Executive Officer, Field Team, Region VIII

Subject: November Progress Report, I-DMA-E23, Docket No. DMA-1210

Attached are two copies (original and carbon) of the November Progress Report from the Ruberoid Company. This has been approved and is being sent to the Finance Officer for payment of the Government's share.

McHenry Mosier

McHenry Mosier

Attachments

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.
JAN 14 10 29 AM '52

XXXXXXXXXXXX
College Park, Maryland

January 11, 1952

Memorandum

To: D. N. Anderson, Finance Officer, Region VIII

From: Executive Officer, Field Team, Region VIII

Subject: November Progress Report, I-DMA-E-23, Docket No. DMA-1210

Attached is one copy of the November Progress Report from the Ruberoid Company, which has been checked by H. L. Burmeister and approved by me. You will note that the amount approved for payment this month by the Government is $3,442.74.

McHenry Mosier

Attachments

rma

copy for [illegible] File 2
[illegible]ttendorf

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

DEPARTMENT OF THE INTERIOR
RECEIVED
NOV 27 1951
Defense Minerals Administration,
Production Expansion Division.

November 23, 1951

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division

From: Executive Officer, Foeld Team, Region VIII

Subject: October Progress Report, 1-DMA-E23, Docket No. DMA-1210

In accordance with your request of July 30 there are attached two copies (original and carbon) of the October Progress Report from the Ruberoid Company. This has been approved and is being sent to the Finance Officer for payment of the Government's share.

McHenry Mosier

McHenry Mosier

Attachments

File
No reply rec'd.
Discussed with Field Team
11/28/51

xxxxxxxxxxxxxx
College Park, Maryland

November 23, 1951

Mr. Michael J. Messel
General Superintendent
The Ruberoid Company
Hyde Park, Vermont

Dear Mr. Messel:

In reference to the Strategic and Critical Mineral Exploration Program Operator's Monthly Progress Report for October 1951, the Government's share for $3,545.98 has been approved for payment.

In the October statement in the column "Previously Reported" there is an error of $0.32 in the total of Workmans Compensation and Public Liability.

There is also an error of $11.00 in the total to date of Public Liability, which should read $22.85 instead of $33.85.

The total to date, $15,862.31 and the totals previously reported, $11,922.33 are correct as submitted.

Yours very truly,

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

[illegible]

[illegible]

FILE COPY
SURNAME:

410

F.L. Knouse
F.E. Johnson

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

OCT 30 1951

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

Re: September Progress Report I-DMA-E23
Docket No. DMA - 1210
Ruberoid Co.

Dear Mr. Mosier:

This will acknowledge receipt of the above subject Progress Report.

Sincerely yours,

10/30

(signed) FRANK E. JOHNSON (fw)

Acting Director
Production Expansion Division

FLKnouse/meb
10/26/51

cc to: Reports and Records
Messrs. Mittendorf/Olund
Mr. Knouse
Docket

a.e.c.

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

DEPARTMENT OF THE INTERIOR
RECEIVED
OCT 2 2 1951
Defense Minerals Administration,
Production Expansion Division.

October 19, 1951

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division

From: Executive Officer, Field Team, Region VIII

Subject: September Progress Report, I-DMA-E23, Docket No. DMA-1210

In accordance with your request of July 30 there are attached two copies (original and carbon) of the September Progress Report from the Ruberoid Company. This has been approved and is being sent to the Finance Officer for payment of the Government's share.

McHenry Mosier

Attachments

xxxxxxxxxxxxxx

College Park, Maryland

October 19, 1951

Mr. Michael J. Messel
General Superintendent
The Ruberoid Company
Hyde Park, Vermont

Subject: Contract I-DMA-E23, DMA- Docket 1210
Progress Report - September 1951

Dear Mr. Messel:

Your Progress Report for September 1951 has been approved and forwarded to Pittsburgh for payment of the Government's share which amounts to $4,430.93.

The Progress Report form has been revised and I hope simplified. Attached are twenty-five copies for your use in ensuing reports.

Very truly yours,

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

Attachments

xxxxxxxxxxxxxx

College Park, Maryland

October 19, 1951

Memorandum

To: D. N. Anderson, Finance Officer, Region VIII

From: Executive Officer, Field Team, Region VIII

Subject: September Progress Report, I-DMA-E23, Docket DMA-1210

Attached is copy of the September Progress Report from the Ruberoid Company, which has been checked by Stanley E. Feitler and approved by me. You will note that the amount approved for payment this month by the Government is $4,430.93.

McHenry Mosier

Attachment

[illegible]

[illegible] Report ✓

FILE COPY
SURNAME:
410

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

SEP 21 1951

A. E. C.

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

Re: Docket No. DMA - 1210
The Ruberoid Company
Exploration Project Contract I-DMA-E23

Dear Mr. Mosier:

This will acknowledge and thank you for your letter of September 18, 1951, transmitting two copies of the August Progress Report of the Ruberoid Company, complete with narrative of work performed, copy of Core Drilling Agreement of May 15, 1951, with the Joy Manufacturing Company and map showing the results of work to the end of August.

Sincerely yours,

C. O. Mittendorf

C. O. Mittendorf, Director
Production Expansion Division

FEJohnson/meb
9/21/51
cc to: Admr's Reading Files
Reports & Records
Messrs.Mittendorf/Olund
Lyon
Rove
Moon
FEJohnson
Docket

Mr. Johnson

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

DEPARTMENT OF THE INTERIOR
RECEIVED
SEP 19 1951
Defense Minerals Administration,
Production Expansion Division.

September 18, 1951

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division

From: Executive Officer, Field Team, Region VIII

Subject: August Progress Report, I-DMA-E23, Docket No. DMA-1210

In accordance with your request of July 30 there are attached two copies (original and carbon) of the August Progress Report from the Ruberoid Company. This has been approved and is being sent to the Finance Officer for payment of the Government's share.

McHenry Mosier

McHenry Mosier

Attachments

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

Memorandum August 21, 1951

To: C. O. Mittendorf, Director, Production Expansion Division

From: McHenry Mosier, Executive Officer, Field Team, Region VIII

Subject: July Progress Report, I-DMA-E23, Docket No. DMA-1210

In accordance with your request of July 30 there are attached two copies (original and one carbon) of the July Progress Report from the Ruberoid Company. This has been approved and is being sent to the Finance Officer for payment of the Government's share.

McHenry Mosier

Attachments

College Park, Maryland

August 23, 1951

Memorandum

To: D. N. Anderson, Finance Officer, Region VIII

From: Executive Officer, Field Team Region VIII

Subject: July Progress Report, I-DMA-E23, Docket DMA-1210

Attached is copy of the July Progress Report from the Ruberoid Company, which has been checked by Wilton T. Millar and approved by me. You will note that the amount approved for payment this month by the Government is $2,484.62.

McHenry Mosier

copy for C.O.Mittendorf
DMA CP 2 copies

Reports + Records
no reply necessary

The RUBEROID CO.
500 FIFTH AVENUE
NEW YORK 18, N. Y.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 1 5 1951

M. V. ENGELBACH
MANAGER FIELD ENGINEERING
6903 BROOKEVILLE ROAD
CHEVY CHASE 15, MD.

August 14, 1951

Dr. James Boyd, Administrator
Bureau of Mines,
Washington, D.C.

Dear Dr. Boyd: Re: Asbestos Fiber - Chrysotile

This letter is in reference to the original letter you directed to the Hon. Manly Fleischmann, dated July 3, in which your office made a recommendation that asbestos fiber be certified by the Defense Production Administration as strategic, and thus come under the provisions of the Excess Profits Tax Act of 1950. The original letter was recalled for revision and subsequently a new letter was issued.

I have discussed the revised letter with Dr. J. D. Morgan, Director of the Materials Policy Division of the Defense Production Administration, who informed me that his office had not yet made a decision in this matter, and probably would not do so until it had a more detailed discussion of the project with the Defense Materials Administration and/or Dr. W. C. Schroeder.

It appears that the decision of the Defense Production Administration will depend almost completely upon the recommendations of the DMA.

We are, of course, extremely interested in a favorable decision and in any event to know what the decision is. I requested Dr. Morgan to notify us of the final decision of his office, but he informed me that the decision would be sent to the Bureau of Mines or DMA. This is to request that you lend any assistance that you can to a favorable decision, and further to request that Mr. Stanley Woodward, Executive Vice President of The Ruberoid Co., 500 Fifth Avenue, New York 18, N.Y. be informed of the final decision. And please send me a copy of the letter to Mr. Woodward.

Respectfully yours,

The RUBEROID Co.

M. V. Engelbach

M. V. Engelbach, Mgr.
Field Engineering

MVE/b

RECEIVED
AUG
GENERAL
DEPARTMENT
ADMINISTRATION

Dr. James Hogg, Administrator
Bureau of Mines,
Washington, D.C.

Dear Dr. Hogg: Re: Arbitration Matter - Confidential

This letter is in reference to the original letter you directed to the Hon. Monty Blatchford, dated July 2, in which your office invited recommendation with respect to a qualified by the Federal Mediation and Conciliation Service or otherwise, and that such under the provisions of the Bituminous Coal Act of 1937. The original letter was prepared for revision and subsequently a new letter was drafted.

I have discussed the revised letter with Dr. D. H. Hogg, Administrator of the Bituminous Coal, Division of the Bureau Production Statistics, who informed me that his office had not yet made a decision in this matter, and probably would not do so until in fact a more detailed discussion of the project with the Federal Mediation Service and/or Dr. H. H. Schneider.

It appears that with Director of the Bureau Production Statistics will report direct upon the recommendation of the FMCS.

We are, of course, extremely interested in a favorable decision on in any event to know what the decision is. I suggested Dr. Hogg to notify us of the final decision of the matter, but he informed us that the decision would be sent to the Bureau of Mines or DOI. Hence is he suggested that you keep any preliminary time you can to a favorable decision, and further to inform us of the Secretary Ickes, Director of the President of the Bituminous Co., 300 Ninth Avenue, New York, N.Y. informed of the final decision. And please send us a copy of the letter to Dr. Hogg.

Respectfully yours,

By Thomas J.

T. J. Bertrand, Jr.
Chief Engineer

TJB/A

The RUBEROID Co.
500 Fifth Avenue
NEW YORK 18, N.Y.

EXECUTIVE OFFICES

Defense Minerals Administration
JUL 30 1951
Executive Secretary

July 30, 1951

Mr. C. O. Mittendorf, Director
Production Expansion Division
United States Department of the Interior
Defense Minerals Administration
Washington, D.C.

Dear Mr. Mittendorf:

Re: Docket No. DMA-1210
Exploration Project Contract
No. I-DMA-E23

This acknowledges your letter of July 24th, together with enclosures.

Reports will be submitted as you directed in your letter prior to the 15th of every month and they will be sent directly from our Vermont Mine to Mr. Mosier.

Yours very truly,

The RUBEROID Co.

Walter G. Cowan

Walter G. Cowan
Vice President

WGC:mr

File
No reply nec.
8/2/51 JEJ

FILE COPY
SURNAME:

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

JUL 30 1951

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

Re: Docket No. DMA-1210
The Ruberoid Company
Exploration Project Contract
No. I-DMA-E23

Dear Mr. Mosier:

There is enclosed a copy of the executed Exploration Project Contract between the captioned Operator and the Government of the United States.

The property on which the exploration project is to be performed is described in Appendix I and indicated on map attached to the contract. The work is to be performed and costs thereof are set forth in Exhibits "A" to "E" inclusive, attached to the contract. A copy of the contract will be forwarded to the Finance Officer of your Region by the Washington Finance Division.

It is suggested that a representation of the DMA Field Team of your Region visit the property shortly after the core drilling is started.

Progress Reports (MF-104) should be received monthly from the Operator. On approval, one copy of the report should be sent to the Finance Officer, Bureau of Mines, for your Region, who will make disbursement of the Government's share of the amount approved. Two copies of the report should be sent to my office and the fourth copy retained in your files.

If you have any questions concerning this contract, please do not hesitate to call on me.

Sincerely yours,

C. O. Mittendorf

C. O. Mittendorf, Director
Production Expansion Division

APPROVED:

Tom Lyon

Chairman, Coordinating Committee

Olaf N. Rove

Member, Geological Survey

Lowell B. Moon

Member, Bureau of Mines

FEJohnson/ecl

cc to: Admr's. Reading File
Messrs. Mittendorf - Olund
Reports & Records
Lyon
Barr
Miss Terry
Johnson

1. Dr. Boyd
2. Mr. Robe

The RUBEROID CO.

500 FIFTH AVENUE
NEW YORK 18, N. Y.

M. V. ENGELBACH
MANAGER FIELD ENGINEERING
6903 BROOKEVILLE ROAD
CHEVY CHASE 15, MD.

July 27, 1951

File

Dr. James Boyd, Administrator
Defense Minerals Administration
Department of Interior
Washington 25, D.C.

Dear Dr. Boyd:

We wish to take this opportunity to express to you our sincere appreciation for all the many things you have done to help us obtain an appropriate allowance of Percentage Depletion for American Asbestos Mines, and to have all types and grades of asbestos fiber declared strategic, and thus come under the provisions of the Excess Profits Tax laws.

Frankly, we feel you have given us and the asbestos mining industry in America an unusually high type of far seeing, intelligent cooperation - and we are grateful.

Sincerely yours,

The RUBEROID Co.

M. V. Engelbach

M. V. Engelbach, Mgr.
Field Engineering

MVE/b

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 30 1951
LANDON F. STROBEL
Executive Secretary

FILE COPY
410
SURNAME:

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

Mittendorf

July 24, 1951

a.e.e.

Mr. Frank McAtee, Jr.
Contract Services Section
General Accounting Office
4th Floor - New GAO Building
Washington 25, D. C.

Re: Docket No. DMA-1210
The Ruberoid Company
Exploration Project Contract
No. I-DMA-E23

Dear Mr. McAtee:

Enclosed for recording in your office is the original of the executed Exploration Project Contract between the operator named in the above reference and the Government of the United States.

Sincerely yours,

C. O. Mittendorf, JBE 7/27

C. O. Mittendorf, Director
Production Expansion Division

Enclosure (1)

FEJohnson/ecl

cc to: Admr's Reading File
Messrs. Mittendorf - Olund
Reports & Records
Barr
Lyon
Field Team, Region VIII (2)
Miss Terry
Johnson

FILE COPY
SURNAME:

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

July 24, 1951

a.E.C.

Mr. Walter G. Gowan
Vice President
The Ruberoid Company
500 Fifth Avenue
New York, N. Y.

Re: Docket No. DMA-1210
Exploration Project Contract
No. I-DMA-E23

Dear Mr. Gowan:

Reference is made to your letter of July 20, 1951, transmitting six signed copies of the captioned contract and exhibits.

There is enclosed your copy of the executed contract with attached Appendix I, Appendix II, Exhibits "A" to "E", inclusive, and map. This is your authority to proceed with the work on the project.

Enclosed also is a set of Progress Report Forms (MF-104) for your use in making your first report. Additional forms may be obtained by writing to Mr. McHenry Mosier, Executive Officer, DMA Field Team, Region VIII, Eastern Experiment Station, College Park, Maryland.

These reports should be submitted in quadruplicate to Mr. Mosier prior to the 15th of the month following the reporting period. They will be used as the vouchers on which the Government's share of the cost of the project will be paid monthly.

If you have any questions in connection with the project, it is suggested that you contact Mr. Mosier.

Sincerely yours,

C. O. Mittendorf

C. O. Mittendorf, Director
Production Expansion Division

FEJohnson/ecl
cc to: Admr's. Reading File
Messrs. Mittendorf - Olund
Reports & Records
Lyon
Barr
Field Team, Reg. VIII (2)
Johnson

Enclosures

The RUBEROID Co.
500 Fifth Avenue
NEW YORK 18, N.Y.

EXECUTIVE OFFICES

July 20, 1951

REGISTERED MAIL

Mr. C. O. Mittendorf, Director
Production Expansion Division
United States Department of the Interior,
Defense Minerals Administration
Washington 25, D.C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 20 1951

Dear Mr. Mittendorf:

Thank you very much for your letter of June 27th, together with the enclosed Exploration Project Contract. In Mr. Woodward's absence I have signed the six copies and am returning them with all copies of the Exhibits.

We greatly appreciate your cooperation and that of your Division and we hope that additional new deposits of asbestos will be discovered through this project in Vermont.

Yours very truly,

The RUBEROID Co.

Walter G. Cowan

Walter G. Cowan
Vice President

Encls.
WGC;mr

FILE COPY
SURNAME:

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

July 2, 1951

Hon. Hubert H. Humphrey
United States Senate
Washington 25, D. C.

My dear Senator Humphrey:

Reference is made to your communication to Defense Minerals Administration under date of April 30, to which was attached a letter to you dated April 13 from The Ruberoid Co., which indicated that that Company would like to procure the allowance of percentage depletion for asbestos and also the inclusion of all grades of asbestos in the exemption from the excess profits tax.

An amendment of the Internal Revenue Code would be required to bring asbestos within the terms of the percentage depletion allowance for income tax purposes. I believe there is presently no bill pending in Congress for this purpose, and neither the Interior Department nor the Defense Minerals Administration have been asked to report on any such proposed legislation. However, this agency can recommend to the Defense Production Administration the inclusion of asbestos, in all its forms, as a strategic mineral for exemption from the excess profits tax. This will to some extent at least serve the purposes of The Ruberoid Co., inasmuch as it will provide the same benefits for their short-fiber asbestos production as is now given to the three types of long-fiber asbestos production.

Attached is a copy of my letter of this date to Mr. Manly Fleischmann, Administrator, Defense Production Administration, recommending the inclusion of all forms of asbestos in the exemption provisions from the excess profits tax.

In addition to the benefit of exemption from excess profits tax, this agency can place all forms of asbestos on its list of minerals which are the subject of governmental aid under the Defense Minerals Administration's exploration program. At present, this list

includes only asbestos of spinning grade. For the future, you may consider and The Ruberoid Co. may consider that asbestos of all grades is included in the list of minerals and metals which are the subject of governmental aid for exploration.

The letter to you from The Ruberoid Co. is returned herewith.

Sincerely yours,

Administrator

Enclosure

JLHofflund/em

Copy to: Adm. Reading File
L. F. Stoobel
Tom Lyon
J. A. Barr
J. L. Hofflund
W. C. Jones
Files

FILE COPY
SURNAME:

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

June 27, 1951

Mr. Stanley Woodward
Executive Vice President
The Ruberoid Company
500 Fifth Avenue
New York 18, New York

Re: Docket No. D.M.A.-1210 (Asbestos)
Exploration Project Contract

Dear Mr. Woodward:

Reference is made to your application for an exploration project in the amount of $85,100.00.

Based upon the data in your application and information furnished by the U. S. Geological Survey, we have prepared an Exploration Project Contract in the amount of $71,600.00. You will note that all of the area within Orleans County has been eliminated from the proposed aerial magnetometer survey. This work is to be confined to Belvedere and Eden Towns in Lamoille County.

Surface magnetometer surveys and diamond drilling are to be confined to land on which you have options located in areas indicated by you as (1) (2) and (3). However, surface magnetometer surveys and diamond drilling may be made also on land located in these areas as well as in areas designated as (4) and (5) and in other areas in Lamoille County covered by the aerial magnetometer survey, provided you obtain Options and Subordination Agreements on such land prior to the start of the surface magnetometer surveys. Copies of the Options and Subordination Agreements must be furnished this office before costs will be allowed for approved work performed in these areas.

It will be required that you agree to furnish D.M.A. copies of all maps and technical data prepared from the results of the aerial magnetometer survey. It will also be required that you agree to include any lands acquired by purchase or otherwise by you within a period of ten years from date of contract under the provision for repayment of the Government's participation.

Exploration funds cannot be used to make option payments and therefore, such payments have been eliminated as an allowable cost of the project.

We have prepared an original and five copies of an Exploration Project Contract with Appendix I and Appendix II and Exhibits "A", "B", "C", "D" and "E". To complete the contract, it will be necessary that you prepare six copies of a detailed map showing the exact limits of the area to be covered by the aerial magnetometer survey, for attachment to the copies of the contract.

There are enclosed six copies of the Exploration Project Contract No. I-DMA-E23, dated June 26, 1951 and attachments. If the contract is satisfactory to you, please sign all six copies and return them to this office with all copies of the Exhibits and other papers.

Our final approved copy of the executed contract with all attachments will be returned to you. Receipt of such copy by you will be your authority to proceed with the proposed work.

Sincerely yours,

C. O. Mittendorf

C. O. Mittendorf, Director
Production Expansion Division

FEJohnson/ecl

cc to: Messrs. Mittendorf - Olund
Strobel
Lyon
M. V. Engelbach, 6903 Brookville Road,
Chevy Chase 15, Maryland
Johnson
F I L E S

FILE COPY
SURNAME:

Jethro

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

June 25, 1951

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division

From: General Counsel

Subject: Ruberoid Company, The - Exploration Contract for Asbestos.

I found it necessary to revise the form of the subject contract. Attached hereto is one copy of the revised form on MF-200, with revised "Appendix II" attached.

Please note in the opening paragraph of the contract the statement of the name of the company (acting through its Vermont Asbestos Mines Division). The party to the contract is always the home company, not any division of the company.

This contract, of course, is unusual in that it involves an aerial magnetometer survey of land in which the contractor either has no interest at all or else mere options to purchase. Under these circumstances it is necessary to devise something different than a lien and subordination agreements to insure recovery by the Government of its participation in the costs. The revision of "Appendix II" is designed to accomplish this purpose.

If you can accept the form as here revised, the contract will be approved from a legal standpoint, and it will not be necessary to resubmit it to this office.

J. L. Hofflund

J. L. Hofflund

Enclosure

JLHofflund-af

Copy to: Files
Adm. Reading File
Mr. Strobel
Mr. Hofflund (2)

Mittendorf
File

The RUBEROID CO.

500 FIFTH AVENUE
NEW YORK 18, N. Y.

M. V. ENGELBACH
MANAGER FIELD ENGINEERING
6903 BROOKEVILLE ROAD
CHEVY CHASE 15, MD.

June 13, 1951

JUN 14 1951

Defense Minerals Administration
Div. of Production, Expansion & Development,
Bureau of Mines,
Department of the Interior,
Washington 25, D.C.

Gentlemen: Attention: Mr. C. O. Mittendorf,
Docket - DMA-1210-X

The subject docket refers to an application of an Exploration Loan to The Ruberoid Co. to search for asbestos fiber.

It is understood that your office is now processing this application (DMA-1210-X). Would you be so kind as to keep the undersigned (M. V. Engelbach) informed as to the disposition of this case, and apply to me for any further information you may require?

My phone number is WIsconsin-4932.

Yours very truly,

The RUBEROID Co.

M. V. Engelbach, Mgr.
Field Engineering

MVE/b

DMA 1210

256

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1210-X

Commodity Asbestos

Total Amount $85,100

Govt. Participation 90%

1. Name and Address of Applicant The Ruberoid Co., Vermont Asbestos Div., Hyde Park, Vt.

2. Location of Property Vermont - see attached letter from applicant dated 5/21/51 for description of parcels

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

If not, application will be rejected.

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

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

a) Good ✓ See attached memo from

~~b) Poor~~ J. A. Reddon, Member, U.S.B.S.

c) None

d) Don't know—needs field examination

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

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

6. If applicant is a lessee, is a copy of the lease attached? Not applicable

Does the lease have sufficient time to run to cover a future productive period? Not applicable

*question numbers are those of MF-103

The RUBEROID Co.
Vermont Asbestos Mine Div.,
Hyde Park, Vermont

dma/1210X

May 21, 1951

U.S. Department of the Interior,
Defense Minerals Administration,
Washington, D.C.

Application for Aid for an Exploration Project Pursuant to Mineral Order 5, Under Defense Production Act of 1950

Gentlemen:

On May 18, 1951, we filed an application for aid for exploration as outlined above on Form MF-103. We are hereby filing an amendment to Form MF-103 as an answer to question 23, section "I" as follows:

a - attached are photostatic copies of options or deed on the property described as follows and totaling approximately 1,820 acres.

(1.) Brown Ledges Area-Town of Lowell

H. S. Richardson Farm - approx. 280 acres - Lots 18, Range 12, Lots 18-19, Range 11
F.M. Racicot Farm - approx. 180 acres - Lots 21, Range 9 & 10
H. Rabien Farm - approx. 160 acres - Lot 20, Range 9 and 10
Ira Pope Farm - approx. 50 acres - Lot 17, Range 9
Laplume Farm - 1/2 mineral interest - 200 acres - Lots 3 & 4, Town of Westfield

(2.) Leland Hill Area - Town of Lowell

H. A. Parker - 50 acres - Lot 12, Range 9
Quentin L. Elliott - 370 acres, Lots 10 & 11 Range 9; Lots 8, 9 & 10, Range 8
H. Taylor - 50 acres - Lot 10 - Range 8

(3.) Carter Farm - Bliss Farm Area - Town of Lowell
1/4 interest - Mineral Rights - Lots 18 & 19, Range 7 approx. 200 acres.
Bliss Farm - Lots 15, 16 & 17, Range 7, approx. 250 acres.

(4.) From Town of Eden to Long Pond Area general surface exploration on area of approx. 500 acres. This will be reconnaissance work and no property will be optioned unless this shows promise.

(5.) There may be other areas which will be revealed as magnetometer and survey work progresses, such as Eden Notch South School Area, however, the areas are not included in present application, and the funds are to apply only to areas now under option.

b - the major portion of the proposed exploration is planned for the area which we hold options or have actual deed.

c - the cost estimates shown in Forms 100 and 103 are based on areas to be explored on which we now hold options or deed.

d - we will not have complete information on Areas 4 and 5 as shown on the map until further geological reconnaissance is carried out. At this time these areas do not appear to be of sufficient promise.

Yours very truly,

The RUBEROID CO.

H. J. Cowan
Vice President

7. Are subordination agreements necessary? Yes, from optionor

a) MF-201? _____

b) MF-202 ✓

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

a) Available manpower Yes

b) Equipment and supplies yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* yes

d) Water (question 13)* yes

e) Power (question 13)* yes

Is a field check needed on any of these points? NO

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

Is a field check needed on this point? NO

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

a) Is the project adequately described? Yes

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? Yes, but additional map needed for Contract - See Recommendations

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

If not, what part of it is? _____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? Yes

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? Yes If so, attach a draft.

e) Are the cost estimates reasonable? See recommendation

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? NO

11. Exhibit B (question 23-d)*

a) Is it applicable? NOT Applicable

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

c) Is a field check needed? NO

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

a) Is it applicable? Yes

b) Sufficient data? Yes If so, attach a draft.

c) Are rents and charges reasonable? Yes

d) Is a field check needed? NO

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

a) Are there sufficient data? Yes

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

c) Is the schedule excessive for the work proposed? NO

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? NO

14. Exhibit E (question 23-c)*

a) Is it applicable? NOT Applicable

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? _____

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

(All exploration must be completed within two years)

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

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? _____

Reviewed by: [illegible]

Date 6/8/51

97692

Recommendation:

That an Exploration Contract be granted with Revision of Applicants Proposal as follows:

1) Elimination of all of the proposed area lying within Orleans County from the total area to be included in Aerial Magnetometer survey. This to avoid duplication - a proposal by Flintkote Co. - 1097-X - covers this area and has been recommended by this office for Contract.

2) Applicant to supply a legibly detailed map showing exactly the limits of the area to be covered by Aerial Magnetometer survey.

3) Applicant to agree to furnish a copy of all maps and technical data gathered from Aerial magnetometer survey.

4) Applicant to agree that if any lands are acquired by purchase or otherwise within a period of ten years from contract date they will be included in Contract for royalty payments.

5) Approve surface magnetometer survey, surface prospecting and diamond drilling on areas

designated by applicant as ①, ②, ③ in Aiken County. Properly executed subordination agreements must be furnished on these areas.

6) Disapprove proposed surface field work in areas ④, ⑤ until and unless applicant secures options or leases and produces necessary subordination agreements.

7) Permit cuts as shown on exhibit A attached, rejecting option as against entirety.

O. Mosley

6/8/51

Exhibit A

10. d) Cost Estimates

Item	Requested	Recommended
Labor	$13,000	$13,000
Core Testing	1,500	1,500
Supervision	18,800	18,800
Diamond Drill Contract (6500)	27,500	27,500
Rental Jeep Wagon & Truck	1,800	1,800
Materials & Supplies	1,500	1,500
Aerial Magnetometer Survey by contract	11,000	7,500
Option Payments	10,000	None
Total	$85,100	$71,600

IN REPLY REFER TO:

G-MD-JAR

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

June 6, 1951

Memorandum

To: James A. Barr

From: J. A. Redden

Subject: Application DMA-1210X from the Ruberoid Company, Vermont Asbestos Mines Division for asbestos exploration in Franklin, Orleans, and Lamoille Counties, Vermont.

Application DMA-1210X is a proposal to make an airborne magnetometer survey over part of the serpentine belt, near Lowell, Vermont, and, to surface prospect and diamond drill three known serpentine bodies and to surface prospect two other known areas of serpentine near Lowell.

The U. S. Geological Survey has no file data on the proposed exploration areas. The literature indicates that the areas are favorable for finding chrysotile asbestos.

The application states that they desire to carry out exploration in five areas shown on the map accompanying the application:

Area 1 - Approximately 2 square miles on map. Application states that area of most interest consists of 870 acres, all of which they have optioned.

Area 2 - Approximately 1.5 square miles on map. Area of most interest consists of 495 acres, most of which they have already optioned.

Area 3 - Approximately 0.9 square miles on map. Area of most interest consists of 550 acres, most of which is already optioned.

Area 4 - Approximately 7 square miles on map. Area of most interest consists of 500 acres, not optioned. For surface prospecting and reconnaissance.

Area 5 - Approximately 45 square miles on map. For surface prospecting and reconnaissance.

The proposed work in 1951 is to have an airborne magnetometer survey run over approximately 190 square miles in the counties of Orleans, Lamoille, and Franklin. This will be followed by field mapping and diamond drilling in Areas 1, 2, 3, and 4. These are areas of known serpentine bodies and all drilling will apparently be on optioned land.

In 1952 they intend to explore Area 4 more intensely and the much larger Area 5, by field mapping and presumably diamond drilling in favorable areas.

Due to the small size of the Areas 1, 2, 3, and 4 it is believed that the contacts of the known serpentine bodies which crop out there can be located more accurately at comparable costs by ground magnetometer methods. For this reason they might do well to allot part of the requested funds specifically for a ground magnetic survey (providing they have not already intended to do this but failed to list the fund separately).

Areas 1, 2, 3, and 5 are located in Orleans County and are apparently in the same area that Flintkote Company (Application DMA-1097) applied for aid in running an airborne magnetometer survey. Area 3 apparently includes part of the area for which the Carey Manufacturing Company (application DMA-1214) is applying for aid. The Carey Manufacturing Company states that they have carried out airborne magnetometer surveys over some of the area.

Since this application may be accepted, at least in part, it would be wise to extend the area covered by the Flintkote airborne magnetometer survey so as to include the additional area in Lamoille and Franklin Counties on which Ruberoid desires to run a magnetometer survey. The results of the magnetometer survey on land which has already been leased by Ruberoid and the additional land in Lamoille and Franklin Counties could then be turned over to them, and the remainder of the survey in Orleans County could be given to Flintkote. It is assumed that it would be impossible to obtain the results of Carey Manufacturing Company's airborne magnetometer survey for use of either of the other two companies. It is possible that the survey made by Carey Manufacturing Company would be of no value to either of the other two companies since the size and exact location of their airborne survey was not given in their application.

The following recommendations and suggestions are made:

1. The field team should visit the Ruberoid Company and the areas to be explored. They should:

   a. Discuss with the applicant the feasibility of locating contacts of serpentine bodies in the smaller areas, Areas 1, 2, 3, and 4, by ground magnetometer methods.

   b. Attempt to find out how accurately the serpentine bodies can be located by surface field mapping.

   c. Attempt to find out from Ruberoid whether or not the use of the money requested for 1952 will be dependent entirely upon results of the magnetometer survey in Areas 4 and 5 and hence may not be needed.

   d. Briefly check the proposed areas of investigation.

2. An agreement should be reached as to the distributions of the results of an airborne magnetometer survey between Flintkote (DMA-1097X) and Ruberoid.

3. Subordination agreements on the land optioned by Ruberoid are not included in the application.

4. Possibly an inquiry should be made with Carey Manufacturing Company (DMA-1214X) to see if their airborne magnetic survey could be used and, thereby avoiding the making of a new survey for use of Ruberoid and Flintkote.

J. A. Redden

J. A. Redden

FILE COPY
SURNAME:

Barr

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

May 22, 1951

Mr. E. Dickinson, Superintendent
The Ruberoid Company
50 Lowry Avenue, North
Minneapolis 11, Minnesota

Dear Mr. Dickinson:

The Honorable Hubert Humphrey has referred your letter of April 13, 1951 to this office for reply.

Your memorandum request for inclusion of asbestos in the list of minerals subject to percentage depletion allowance and excess profits tax exemption, will be given the fullest consideration and recommendation.

The Defense Minerals Administration offers encouragement and assistance to miners in the form of loans and purchase contracts.

Exploration assistance for asbestos is also available on a 90-10 basis, when the company pays 10%. The Ruberoid Company has already discussed the proposition with us.

Sincerely yours,

James Barr

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

JAB:dak

cc: Hon. Hubert Humphrey
Mr. Strobel
Mr. Barr
Files

original letter [illegible] copy [illegible]

FILE COPY
SURNAME:

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

May 9, 1951

Hon. Charles A. Wolverton
House of Representatives
Washington 25, D. C.

Subject: Ruberoid Company
Gloucester City, N. J.

My dear Mr. Wolverton:

We have read with interest the letter of Mr. C. J. Danaher, General Superintendent of the Ruberoid Company, regarding the need of the asbestos mining industry for percentage depletion, as well as having it included as a strategic mineral to come under the benefits of the excess profits tax law.

As a matter of principle, we favor the use of percentage depletion for such mining industries as asbestos as a legitimate tool to encourage search for new reserves.

Crysotite asbestos, both long and short fibre, is an essential and strategic mineral in short supply. Development of healthy domestic industry should be encouraged.

We are enclosing a reprint on percentage depletion which we believe might be of interest to you.

Sincerely yours,

JAMES BOYD
Administrator

MEC:dak

cc: Mr. H. G. Wilde
Adm. Reading File
Mr. Strobel
~~Mr. Douglas~~
Mr. Arundale
Mr. Barr
Files

PERCENTAGE DEPLETION-LOOPHOLE OR ECOMOMIC NECESSITY

Paper to be given at Annual Meeting of American Institute of Mining and Metallurgical Engineers
St. Louis, Mo., February 1951

This discussion is limited to percentage depletion not because that is necessarily the most important or most serious problem of the mining industry but because related problems, particularly the treatment of exploration and development costs, price controls and subsidies for high cost producers are being ably handled by others at this meeting. The extractive industries are in many respects unique. They are not well understood except by those directly connected with them. Taxation, finance and accounting for the extractive industries present problems differing, both in nature and degree, from those of other industries.

In spite of this the extractive industries have been forced by law and by custom to attempt to use financial methods and to submit to taxation based primarily on the requirements and conditions of trading and manufacturing organizations. Continuation in perpetuity or, at least, a possibility of it, is assumed for trading and manufacturing corporations. The name itself of wasting assets makes it clear that such an assumption does not apply to a mine or an oil well. Before the adoption of the 16th Amendment of the Constitution of the United States depletion of mineral properties was seldom calculated or recorded in the books of account of a mining company because, under generally accepted business and accounting principles of that time, it would have had little significance even if such a computation could have been made with some approach to accuracy. If we had followed British principles in taxation and exempted capital gains from tax and had disallowed capital losses, the condition probably would have

continued. However, income taxation in the United States took an entirely different course.

From the beginning of the taxation of income in the United States it was made clear by Court decisions that there was to be no distinction, so far as taxability was concerned, between capital gains and income. It is my personal view that the constitutional question involved in this was never properly presented to the courts and that the decisions of the courts on this point have been uniformly wrong. That, however, while it may be interesting, is of no present practical importance. The fact remains that, in case after case, it was decided that capital gains are taxable income to some extent and under some conditions and capital losses are tax deductions to some extent and under some conditions. After it was thus made clear by court decisions under the early revenue acts that the Sixteenth Amendment was to be administered as applying to capital gains and losses, treating these as income, it became necessary to arrive at some sort of valuation or cost figure for every mining property in the United States. (Footnote 1.) The method of arriving at these valuations is well described by George Oliver May in

1/ In Eisner v. MacComber the Court cites with approval the definition laid down in Doyle v. Mitchell Bros. Company: "Income may be defined as the gain derived from capital, from labor, or from both combined". To this quite reasonable definition of income Mr. Justice Pitney added the astounding words: "Provided it be understood to include profit gained through a sale or conversion of capital assets to which it was applied in the Doyle case".

All ordinary definitions of income were thus nullified and the inextricable confusion between capital and income, which has since existed in Federal income tax legislation and practice, became settled law.

his book "Financial Accounting":

> "The right to recover the value of the mineral resources as at the date when the income tax amendment to the Constitution became effective involved a stupendous task of valuation. The performance of that task forms an interesting chapter in the history of the valuation problem. In general, the method adopted was a strange compound of highly speculative assumptions and meticulous mathematical computations. There was a curious lack of perspective and proportion in the procedure by which valuation engineers in or as of 1913 reached their conclusions. First they made assumptions as to future prices and production over long periods of years (fortunately in ignorance of the events that would mark those years). Next, they expressed these estimates (by an averaging process that was scientifically unwarranted) in the form of a uniform net annual yield. Finally, they applied to this assumed yield discount tables extended to many places of decimals. The crowning touch of incongruity was afforded by the introduction into the discount process of a questionable actuarial refinement which has raised Hoskold's formula to an amazing prestige and immortalized its author in the tax world. But as courts have pointed out the main responsibility for the unrealities rests upon the legislature - if laws call for valuations, valuations must be made as best they can, even though that best is manifestly and inevitably very imperfect."

Anyone not familiar with the difficulties of making a valuation of mining property under the income tax law might think that May's description and definition was a little on the facetious side. Anyone familiar with mining valuations for this purpose would think he had understated the case. The difficulties, compromises and anomalies produced by these peculiar "bootstrap" methods of valuation became so serious that some substitute method of valuation or some amelioration of the situation was clearly necessary. The first method devised was, the discovery value method. (Footnote 2.) This will not be described here as it is now practically out of use and was rather difficult and unsatisfactory in administration while it was in effect.

2/ Discovery depletion in the case of mines and oil or gas wells was first allowed in the Revenue Act of 1918. Under the Revenue Acts of 1926 and 1928, discovery depletion was allowed only in the case of mines. The Revenue Act of 1932 took away the right to discovery depletion on mines and allowed percentage depletion instead. Under present law discovery depletion may be used only in the case of certain nonmetallic minerals.

The principal characteristic of most methods of valuation was an attempt to value future profits. This is the only absolute value which a mining property could have in any event. The mining property was said to be worth the present value of the profits and the present value of the profits was said to be the worth of the mining property. If the present value were correctly calculated it would represent what a willing seller would be willing to accept from a willing buyer for the property. However, few such valuations approach this degree of practical accuracy.

It began to be realized that the so-called Hoover Method or Hoskold's Formula or Present Value Method of valuation, while a useful method of approximation for an engineering report, was not a satisfactory method for determining values for property for such a serious and vital question as taxation. In 1932 the idea of making an allowance for capital exhaustion based on profits was put forward. This was known as percentage depletion and seemed to be a fair and simple method of dealing with this question. The necessity for valuation and revaluation was eliminated and no elaborate calculations needed to be made for the determination of depletion. The percentages determined for the different types of minerals and deposits were based on data for the particular industry and are generally believed by mining men to be substantially accurate. It is possible that further study might show that some percentages were a few points too high or too low but the general view is that they are substantially correct and satisfactory. Administratively, there is no doubt that percentage depletion is a simple method of recognizing an inevitable fact, that is, the exhaustion of wasting assets.

There would not seem to be much in this rather hurried summary of the history of percentage depletion to call forth the loud accusations of favoritism,

playing-up to special interests, and tax-dodging, which are made with such frequency on this subject. (Footnote 3.) The reason we hear these cries is, primarily, because of the attempt to apply the principles, methods and basic financial ideas of the manufacturing and trading corporation to the extractive industries. From one narrow point of view, some of the criticisms are well justified. It is perfectly true that a mining company does not pay on its apparent income in quite the same way or at quite the same rate as the manufacturing corporation but it is equally, and more importantly, true that a mining corporation is a very different type of enterprise.

The criticism of percentage depletion stems back primarily to the attempt to put the mining industry into garments which are quite comfortable and commodious for a manufacturing or trading organization but which are a most painful and inappropriate straight-jacket for the extractive industries. When we look at the mining industry, we must look at it as a whole. While there undoubtedly are a few fortunate companies and individuals, the numerical majority of mining enterprises are financial failures. This condition is not true of manufacturing or trading enterprises. A manufacturer or a trader generally starts out with a reasonable assurance of success and he knows that an overwhelming numerical majority of new enterprises suceed or at least operate for a considerable time. The essential but highly speculative nature of the mining industry is so well recognized that at its inception every mining enterprise in this country had its raw material, that is its

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3/ "Tax Incentives For Mineral Enterprises" by Douglas H. Eldridge in the Journal of Political Economy, University of Chicago Press, June 1950.

This article is representative of the views of those in the U. S. Treasury Department opposing percentage depletion. The objections to percentage depletion raised by Mr. Eldridge are dealt with in this paper. The article should be read by anyone wishing to discuss the subject.

ore, its mineral deposit, given to it by the State for practically nothing. All that was paid was a nominal filing and locating fee. Now if we wish to find a basis for charges of favoritism and unfairness, is not this the place to start, is it not consistent with the arguments of the critics of percentage depletion, to require that every miner should purchase his mine from the State rather than receive it gratis when he stakes out a claim? The mere statement of such a proposition shows its complete fallacy. It is also true that in all mining states State laws are expressly framed to favor, to help, mining companies and to tax them in more favorable ways and at lower rates than other enterprises. Why is all this done? Is it because of a widespread, deepseated admiration for the sturdy qualities of mining men? Is it because we have a strong sentimental attachment for the old-fashioned prospector?

I do not think there is much sentiment connected with it. I think it is realized thoroughly in the mining states that mining is a hazardous occupation, and that the numerical majority of mine owners will lose what they put in to a mining venture. It is the realization that, because the great majority of mine operators and the great majority of mines are doomed to hopeless financial failure, it is necessary to provide for and to give, consistently and conscientiously, large, very large, rewards for those in the mining industry who are either lucky or skillful or have whatever qualities it takes to find a bonanza.

The mining industry as a whole is not an unusually profitable industry. L. J. Randall of Wallace, Idaho, the controller of the Hecla Mining Company and an unusually well-qualified student of mining economics, reports (Footnote 4.)

4/ "Effect of Present Federal Tax Laws on the Development of New Mines". Address by L. J. Randall of Wallace, Idaho, before the Pacific Northwestern Conference of C.P.A.'s, Seattle, Washington, June 3, 1950.

that a survey made by the Idaho Mining Association covering 1930 to 1940, inclusive, showed that mines in Idaho expended a total of $220,000,000 in exploration, development and cost of mining; during the same period the mines realized a total of $210,000,000 in receipts from ore sales or $10,000,000 less than the amount expended. Idaho is an important mining state. The Coeur d'Alene district is a well-known district and profitable mines have been found there. Statistics for one of the important mining States gathered over a period of ten years should provide us with a sample large enough to form the basis of a reliable statistical judgment. Some Federal income tax must have been paid by mining companies in Idaho from 1930 to 1940. However, if all the properties in Idaho had been owned and operated by one company that company would have shown a loss. The industry as a whole in Idaho in those years did not realize and income of any kind, taxable or otherwise.

Percentage depletion attempts to cover the situation of the mining industry as a whole. As a whole, the mining industry does exhause its properties and it does need an allowance for this exhaustion. It is further true that mining is so highly speculative that some large rewards for success must be possible. Percentage depletion is one way of assuring that some reward will go to the operator of a successful mining property. Those who believe, perhaps, that small mines such, say, as the majority of the mines in the Coeur d'Alene district, should be encouraged ask, at the same time, why very large mining enterprises should be allowed the benefits of percentage depletion. They say these enterprises have nothing to worry about in the way of exploration, they are adequately financed, they are successful and should not be given any special favors.

There is no real difference between a large mine and a small mine in this respect. The large mining companies spend many,many millions of dollars annually

in exploration which comes to nothing. They spend money on projects to discover new sources of ore, and on metallurgical, chemical and geological research. If any one of the large nonferrous metal mining companies had confined itself to operating the properties with which it started in business, it would have been out of business many years ago. In some cases the original properties have been completely exhausted, in others their operations have been so changed and altered as to make them scarcely recognizable as the property which the company originally exploited while in others additional properties have been acquired to be operated with the original ones. In every case a great deal of capital, a great deal of effort, a great deal of research has been required merely for the large company to remain in business. It is greatly to the advantage of the company and the economy for the large mining companies to stay in business. If they did not, our sources of metals would either not have been developed at all or would have been developed inefficiently and in a piecemeal and wasteful fashion.

It is no answer to say that exploration work which comes to nothing is in the long run a tax deduction. Nobody ever financed anything with a tax deduction because only a part of the expenditure can be recovered in that way. There are only two basic ways of financing an enterprise. One is by retaining realized profits and the other is through the contribution of some form of capital from the outside. If exploration by an established company is to be financed, it can generally be financed only through retained profits and retained profits are profits which are not taken away by taxation. Here, again, it may be said that the people who retain their profits through percentage depletion are not necessarily the people who will do the exploration work. This may be true in some cases, but it is not the actual retention of the profits but rather the possibility of profits which makes people continue in the mining business. We may have our doubts about the sanity of some mining promoters and we may have our doubts about their business judgment but it is undeniably true

that it is the possibility of profits which makes the mining business operate rather than the realization, particularly in small or undeveloped mines.

It is a good deal like Dr. Samuel Johnson said of Mr. Thrale's brewery when he was asked, as one of the executors, how the property should be valued. He answered, "We are not here to sell a parcel of boilers and vats but the potentiality of growing rich beyond the dreams of avarice". Here is the nub of the whole matter. It is the possibility, the potentiality which is important. It does not have to be realized often. Everyone in the industry knows it will not be realized often. There are all sorts of estimates about how many mining properties finally develop into profitable operations. They range from one in thirty or forty to one in a hundred. We have many commerical failures but the figures are more likely to be reversed.

If some means are not provided for the retention of profits in mining, as and when they are made, we will see the mining industry gradually die out or we will see the mining industry dependent on government subsidy. Government subsidies in the development of mines where we have known ore bodies but where the costs are very high have worked with fair success but it is appalling to think what would happen if the government should subsidize prospecting. The government does do immensely valuable work through the Bureau of Mines and other agencies in giving information about the general characteristics of mining districts but this is not the same as the actual prospecting for ore.

It must be recognized that the mining industry is difficult and hazardous. It is an industry where the total overall gain is not excessive, if the entire expense and the entire investment were to be matched against the entire salable product. Certainly the income of the entire industry is the conbined net profit and loss of every mining property. This is a very different thing from the taxable income of the successful mining operations. If the government and the

country expect miners to risk their time, their money and their lives in such a hazardous occupation then it must provide that, as and when they win, they really win and they can keep what they win. Any attempt to compare mining with manufacturing or trading enterprises, or which tries to use the same methods and principles as are used in commercial business in the mining industry, is certain to have bad results.

Broadly speaking, we can take our choice in taxation between uniformity and justice. In the early days of the income tax, when the rates were low, there was a good deal of argument in favor of uniformity, that is, the same rates for all individuals on all parts of their incomes. This uniformity in taxation has one great viture; it is simple. It has one great vice; it is grossly unfair and does not take individual or group conditions into account at all. The choice in taxation is between uniformity with unfairness and complication with the greatest possible approach to justice. One tax rate, one method of computation, one method of accounting for, say a manufacturing enterprise, a chain store grocery, a personal service corporation, a public utility corporation and a mining company may be uniformity of a sort but it certainly is not justice and it certainly has a very bad effect on the economy. The dollar that a mining company receives for its ore or its metal sales is not the same as the dollar that a manufacturing company receives for sales of its product. The mining company's dollar represents a payment in part for its operations but to a very large extent for the sale of its capital assets which it can never replace. The dollar of a manufacturing company represents payment for raw materials which the manufacturing company is constantly replacing and the wear and tear on equipment which the manufacturing company is replacing at a slower rate, but no less definitely. There is little or no element of the return of irreplaceable capital in the manufacturing company's dollar; there is a very large

element of return of capital in the mining company's dollar. We cannot tell just how large the element is because we are not seers and prophets but we can make fair guesses as to the upper and lower limits of the amount of that dollar which might be capital and there is no doubt whatever that some important part of it is return of capital.

While it is extremely difficult to tell, in a particular enterprise, how much of the dollar received for metal sales is return of capital, it is not nearly so difficult to determine this for an entire section of the industry. As in many other statistical problems the greater the number of elements, the greater amount of material to be covered, the more accurate the result. Percentage depletion is an attempt to approximate the general average of the return of capital in the mining company's dollar. It is better to use a fair, rough approximation to depletion which has some validity for the industry than to use an individual amount for an individual company worked out with the meticulous mathematical accuracy, the validity of which is extremely open to doubt.

It is not too easy at the present time to raise money for a mining venture. Much of the development in mining is done through retained profits. Percentage depletion is an important source of retained profits. If we did not have percentage depletion, if mines were taxed on income calculated on some sort of manufacturing or commercial basis with nothing beyond the allowance of so-called cost depletion, we would see an even further drying up of exploration, we would see even fewer properties brought into production and when it was necessary to produce larger and larger amounts of metals, as at the present time, we would see the present sources exploited as fully as possible without the building up of adequate and equivalent ore reserves in other properties.

The problems of the mining industry are difficult at best. Its command of capital, on the whole, is less than adequate. This is indicated by the necessity

for government subsidies when the production of particular metals is urgent. In the past the mining industry has directed its own operations and done fairly well at it. When copper and other mineral deposits were being exhausted at a very rapid rate and when new sources were not in sight the oil-flotation method was invented and the entire industry was revolutionized. Vast reserves were brought into production which had formerly been considered worthless. This process is still going on. Probably everyone in this room knows far better than I what mechanical, metallurgical, geological and prospecting methods are being developed at the present time. It is quite possible that some of these methods may bring in large amounts of ore. We have an example in the development of taconite, formerly considered practically worthless and now an important source of iron.

All of this takes money, large sums of money, and the best way to provide those sums of money is for the government to refrain from taking the capital of the industry away merely by calling it income. The situation is not unlike that of the dog in Lincoln's story. When Lincoln asked a man how many legs a dog would have if you counted his tail as a leg, the man answered "Five". Lincoln replied, "That is not true. The dog would still have four legs. I cannot make a leg out of a tail merely by calling it one.". The Bureau of Internal Revenue or Congress or the courts cannot make the capital of the mining industry returned to it in the course of its operations into income merely by calling it so. It can take this capital away. Apparently it can do this legally and constitutionally according to the Supreme Court's interpretation of the Constitution. But economically it is capital and economically it will be ruinous if the government continues to try to take away the capital of the mining industry as income.

Percentage depletion is the fairest, simplest and most practical method of giving the mining industry some retained earnings with which to finance exploration. It is the most practical method to do, in part, what is necessary in that

industry, that is, to give a genuine and substantial reward to the successful operator and to do it in such a way that the unsuccessful operator knows that such a reward has been given, will be given in the future and that he himself may get it.

The extractive industries must be treated differently from other industries. This is not favoritism or special treatment; it is merely the recognition that if we are to have justice under a tax law we must have diversity of treatment of taxpayers according to their particular circumstances, a principle which is, I think, universally admitted and established.

Anyone who advocates a harsher tax treatment for the extractive industries is taking a great responsibility upon himself. Anyone who takes this position should be absolutely certain that he is doing nothing which will damage the mining industry because whatever damages the mining industry damages and jeopardizes the safety of the country. The advocates of harsher treatment for the extractive industries are almost invariably men who are specialists in other fields than mining. As the knowledge of the mining field increases the tendency to demand harsh treatment for the industry decreases. For instance, the demand for harsh treatment comes very largely from officials of the Treasury Department, who have had little or no mining experience, while other government officials who have some acquaintance with the industry realize the difficulties and do not insist on this sort of treatment for the industry. It might well be that the answer to this question is the creation of a department of mines with a secretary of cabinet rank.

The idea that taking more money away from the extractive industries will increase the revenue is a fallacy. The immediate effect of such a move would probably be to cut down exploration work and to blow up any but the most profitable operations. The ultimate effect would be the exhaustion of known deposits where costs are not high, government-subsidized operation of known high cost properties and possibly some scheme, which it is appalling to contemplate, of government

subsidized prospecting. The government and the country must have minerals and it is inconceivable that if the government should drive the present operators out of the business of producing minerals that it could operate any more effectively or economically itself. While it may not be an entirely fair comparison, it is certainly true that the Mexican government was not very successful when it ran the expropriated oil wells. Unfair and excessive taxation is just as effective a method of expropriation as the operation of an Article in the Constitution of a country.

The mining industry has enough difficult problems on its hand at present without increasing these by interfering with a tested taxation device which seems to be working with fair efficiency. This is hardly the time to make the production of metals more difficult or to make it more difficult and less rewarding to do exploration work..It is much more economical to leave retained earnings in the treasuries of certain mining companies. It is even more important to leave in the minds of men operating unsuccessful mining companies the hope, the possibility that they might get some reward some day, than it is to get a little more tax which will have to be paid out again many-fold in order to get any production at all from a mining industry being steadily and progressively crippled by unduly burdensome Federal taxation.

MAURICE E. PELOUBET

January 15,1951

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

May 7, 1951

Mr. Michael J. Messel
General Superintendent
The Ruberoid Co.
Hyde Park, Vermont

Dear Mr. Messel:

As requested in your letter of April 26, we are enclosing herewith five copies of Form MF-105. Please complete the forms and mail original and three copies to this office.

We will then do everything possible to assist you.

Very truly yours,

Stanley M. Walker
Requirements Division

Enclosure

SMWalker:cg
Copies to: Admin. Reading File
Mr. Strobel
Mr. Montag
Files

Core logs of diamond drill holes drilled under D.M.E.A. contract Idm-E23

Area A-1:

LH#1, angle 45°, bearing S80°W, length 233'

0 - 16.5	Overburden
16.5 - 99	Nearly barren serpentine, contains a little slip fiber
99 - 111	Mottled white and green serpentine, no fiber
111 - 233	Rather massive serpentine, contains small traces of slip fiber

LH#2, angle 90°, length 301'

Put thru core mill and 2.78% fiber recovered

LH#3, angle 90°, length 205'

0 - 67	Overburden
67 - 205	Serpentine with traces of slip fiber throughout

LH#4, angle 90°, length 203'

Put thru core mill and 2.36% fiber recovered

LH#5, angle 90°, length 199'

0 - 32	Overburden
32 - 84	Quartz-sericite-chlorite schist with some albite
84 - 84.5	"Blackwall" chlorite
84.5 - 96	Talc-carbonate rock and steatite
96 - 199	Massive serpentine - nearly barren, few traces of slip fiber.

Area A-2:

LH#6, angle 90°, length 201'

0 - 30	Overburden
30 - 201	Massive serpentine - dark green with light green spots. Trace of slip fiber and scattered cross fiber in veins less than a millimeter wide.

LH#7, angle 90°, length 201'

0 - 2	Overburden
2 - 27	Serpentine with traces of slip fiber and a very small amount of cross fiber
27 - 32	White rock (?)
32 - 201	Serpentine with trace of slip fiber

LH#8, angle 90°, length 303'

0 - 24	Overburden
24 - 303	Massive serpentine with trace of slip fiber

Area A-2 (cont'd):

LH#9, angle 90°, length 301'

0 - 35	Overburden
35 - 301	Rather massive serpentine with trace of cross fiber less than 1/16 inch long all thru hole. Cross fiber about an inch long at 183.5 feet.

LH#10, angle 90°, length 299'

0 - 27	Overburden
27 - 131	Sheared serpentine with trace of short cross fiber 1/16 inch long or less
131 - 299	Massive serpentine - little fiber except one cross-fiber vein, perhaps 1.5 inch wide at 194

LH#11, angle 90°, length 301'

0 - 33	Overburden
33 - 301	Sheared and fractured serpentine with traces of slip and cross fiber

LH#12, angle 90°, length 301'

0 - 29	Overburden
29 - 301	Serpentine with small traces of slip fiber about a millimeter long. Rock is not extremely massive nor is it very much sheared.

LH#13, angle 90°, length 303'

0 - 11	Overburden
11 - 266	Somewhat sheared dark green serpentine with light green spots. Carbonate (calcite) is in very thin seams. Traces of slip fiber.
266 - 303	Massive barren serpentine

LH#14, angle 90°, length 300'

0 - 13	Overburden
13 - 275	Somewhat sheared serpentine with traces of slip fiber all thru core
275 - 300	Massive nearly barren serpentine

LH#15, angle 90°, length 300'

0 - 15	Overburden
15 - 300	Serpentine with scattered traces of slip fiber

Area E-1:

EH#1, angle 90°, length 290'

0 - 19	Overburden
19 - 290	Somewhat sheared serpentine with trace of slip fiber; 2-inch vein of talc at 59

Area E-1 (cont'd):

EH#2, angle 45°, bearing N75°W, length 399'

0 - 15	Overburden
15 - 275	Sheared serpentine with traces of short slip fiber in spots
275 - 321	More than a trace of slip fiber; cross-fiber veins at 286 1/4 to 1/2 inch wide. All in sheared serpentine.
321 - 399	Traces of slip fiber in more massive serpentine than in the upper part of the hole.

EH#3, angle 45°, bearing N75°W, length 401'

0 - 11	Overburden
11 - 112	Serpentine with trace of slip fiber
112 - 278	Sheared serpentine with considerable slip fiber (1% ?)
278 - 333	Massive serpentine - nearly barren
333 - 386	Sheared serpentine with traces of slip fiber
386 - 392	Dike or septum of albitic (?) wall rock in serpentine. This septum is split by barren serpentine at 389.
392 - 401	Massive serpentine with trace of slip fiber

EH#4, angle 90°, length 298'

0 - 11	Overburden
11 - 76	Light green serpentine with more than a trace of slip fiber
76 - 139	Massive dark green serpentine with traces of slip and cross fiber
139 - 186	Rather massive dark green serpentine with cross fiber as much as 1/2 inch long, as well as slip fiber; approaches ore grade - 2 to 3 percent.
186 - 298	Sheared serpentine with traces of slip fiber

EH#5, angle 90°, length 300'

0 - 8	Overburden
8 - 16	Serpentine with traces of slip fiber
16 - 28	Serpentine with slip fiber, possibly 1%
28 - 58	Serpentine with traces of slip fiber
58 - 97	Barren serpentine
97 - 251	Serpentine with traces of slip fiber
251 - 300	Albitic quartz-chlorite-sericite schist

Area D-3:

RF#1, angle 45°, bearing N55°W, length 290'

0 - 15	Overburden
15 - 240	Very light green serpentine, barren of fiber; talc about 1 1/2 feet thick at 161 - 162
240 - 290	Darker green serpentine with traces of fiber

Area D-3 (cont'd):

RF#2, angle 45°, bearing S75°W, length 300'

0 - 24	Overburden
24 - 40	Talc-carbonate rock ("grit")
40 - 154	Much sheared light green serpentine with few traces of fiber; light green cuts the dark green
154 - 300	Dark green serpentine seems to cut light green and contains veins with black carbonate. Traces of slip fiber little more abundant between 290 and 300.

Area B-1:

BL#1, angle 90°, length 297'

0 - 12	Overburden
12 - 182	Dark green serpentine with light gray spots; traces of slip fiber all thru rock
182 - 186	Dense dark green serpentine - barren
186 - 194	Greenish to whitish rock (?), chloritic, barren
194 - 297	Dark green serpentine with more extensive mottling than higher in the hole; traces of slip fiber

BL#2, angle 90°, length 305'

0 - 11	Overburden
11 - 40	Dark green serpentine with traces of both slip and cross fiber
40 - 240	Mottled serpentine - gray spots on dark green
240 - 305	Sheared more, but mottled still - shears filled with light green serpentine. More fiber but probably not more than 1 percent.

Area C-2:

P#1, angle 90°, length 207'

0 - 96	Overburden
96 - 207	Dark green serpentine with traces of slip fiber

R#1, angle 90°, length 200'

0 - 98	Overburden
98 - 200	Somewhat mottled dark green serpentine with scattered traces of slip fiber

Area C-1:

B#1, angle 45°, bearing W, length 201'

0 - 3	Overburden
3 - 201	Serpentine, chiefly dark green and locally mottled, contains slip fiber possibly about 1%

Area C-1 (cont'd):

B#2, angle 45°, bearing W, length 223'

Put thru core mill and 1.66% fiber recovered

B#3, angle 45°, bearing W, length 222'

Put thru core mill and 1.12% fiber recovered

B#4, angle 90°, length 192'

Put thru core mill and 1.48% fiber recovered

B#5, angle 45°, bearing S25°W, length 200'

Putt thru core mill and 0.44% fiber recovered

Area D-1:

RB#1, angle 45°, bearing N75°E, length 306'

0 - 18	Overburden
18 - 287	Dark green serpentine with light green serpentine along shears; mottled in places. Rather large traces of slip fiber thru whole core to depth of 274 feet.
287 - 306	Light green barren serpentine; massive

RB#2, angle 45°, bearing N15°E, length 298'

0 - 35	Overburden
35 - 49	Greenstone with granular quartz lenses
49 - 138	Interbedded graphitic phyllite, sericitic and chloritic quartzite, and greenstone; grades into:
138 - 144	"Blackwall" chlorite with vestiges of granular quartz lenses
144 - 147	Talcy zone - poor talc
147 - 158	Whitish serpentine - barren of fober
158 - 298	Black to dark green serpentine with light green serpentine in shears; contains slip fiber in traces and is rather massive.

RB#3, angle 45°, bearing S85°E, length 299'

0 - 4	Overburden
4 - 290	Dark green serpentine with light green serpentine in shears. Contains trace of slip fiber.
290 - 299	Rather massive dark serpentine mottled with light gray; barren.

Area D-1 (cont'd):

RB#4, angle 90°, length 301'

0 - 12	Overburden
12 - 285	Dark green serpentine cut by light green serpentine in shears; few traces of slip fiber except in upper 100 feet. Slip fiber veins appear to cut light green serpentine.
285 - 301	Massive, dark, barren serpentine. Spot of talcy fiber at 295.

RB#5, angle 90°, length 299'

0 - 3	Overburden
3 - 299	This hole shows various kinds of serpentine,- in general light greenish gray with dark spots, light gray with light spots on dark gray, and veins of light green serpentine cutting at shears. Traces of slip fiber all thru - seem to be of same generation approximately as light green serpentine.

RB#6, angle 90°, length 244'

0 - 28	Overburden
28 - 123	Serpentine with traces of slip fiber
123 - 244	Quartz-sericite-albite schist

Area D-2:

D#1, angle 90°, length 293'

0 - 22	Overburden
22 - 118	Nearly barren serpentine
118 - 215	Serpentine with traces of slip fiber
215 - 276	Nearly barren serpentine
276 - 277	"Mud seam" (possibly was talc, no recovery)
277 - 293	Quartz-chlorite-sericite schist

D#2, angle 90°, length 301'

0 - 18	Overburden
18 - 140	Dark green serpentine with traces of slip fiber
140 - 170	Sheared serpentine - no fiber
170 - 240	Light gray-green serpentine with trace of slip fiber in places.
240 - 248	Fractured serpentine (probably in drilling), brownish, no fiber.
248 - 301	Light gray mottled serpentine - traces of slip fiber

D#3, angle 90°, length 300'

0 - 3	Overburden
3 - 300	Dark green and gray mottled serpentine with very few traces of slip fiber.

Area D-2 (cont'd):

BR#1, angle 90°, length 300'

0 - 75	Overburden
75 - 300	Massive dark gray serpentine with few shears; light green serpentine is therefore rare. The core is nearly barren. A little slip fiber was noted in the lowest ten feet.

BR#2, angle 45°, bearing E, length 400'

0 - 13	Overburden
13 - 43	Massive mottled dark green and gray serpentine - barren
43 - 75	Dark green serpentine with traces of slip fiber; cracked
75 - 244	Massive, somewhat mottled, dark green and gray serpentine. Light green serpentine in shears very rare.
244 - 277	Possibly dunite with serpentine - traces of slip fiber in serpentine.
277 - 366	Mottled dark green and gray serpentine - gray predominates; trace of slip fiber.
366 - 379	Massive dark gray to dark green serpentine, nearly barren
379 - 385	Serpentine with white alteration - barren
385 - 394	Massive dark green serpentine - barren
394 - 400	Serpentine with white marble (?), nearly barren

BR#3, angle 90°, length 300'

0 - 12	Overburden
12 - 300	Mottled gray serpentine with dark spots and a few continuous runs of dark green. Slip fiber about 2 inches long at 13 feet, but only traces of fiber in most of the rest of the core, which is of rather massive rock. Last 20 feet is very massive. Light green serpentine along shears is rare.

Wallace M. Cady
Geologist, U.S. Geological Survey
Logged February 2-6, 1953

Expenditures:

Total amount approved - - - - - - - - - - -	$71,600.00
Total cost of project - - - - - - - - - - -	61,936.36
Government's share of cost - 90% - - - -	55,742.72
Government's share unexpended - - - - - -	8,697.28

No production resulted under this exploration program and a Discovery is not recommended.

Efficiency of Operations:

All phases of this project were carried out by the operator in an efficient manner which is evidenced by the low overall cost despite the fact that the work was done on difficult terrain, often under adverse weather conditions, and that the activities were scattered over a large area.

Equipment:

As no equipment was purchased for this project there is no problem of disposition.

W. T. Millar

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

Allen V Heyl

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

June 30, 1953

Dates
Contract: June 26, 1951
Completion: Dec. 26, 1952
Amendments

Contract # Idm-6 23
DMEA # 1210 X
Name: The Ruberoid Co.
Form: old

Contract Allowance	Item	July Amount	July Per Ft.	August Amount	August Per Ft.	September Amount	September Per Ft.	October Amount	October Per Ft.	November Amount	November Per Ft.
$ 7,500.00	Aerial Magnetometer Survey										
13,000.00	Labor	19736	Contract	45338	Contract	59762	Contract	93436 ✓	Contract	137447	Contract
1,500.00	Core Testing			25000		50000		50000 ✓		50000	
5,400.00	Supervision (Salary)	30000		41797		71797		71797 ✓		101797	
8,000.00	Cons. Geologist (Salary & Fees)	35769		135769		235769		235769 ✓		283080	
5,400.00	Surveying & Mapping (Salary)	15000		79231		146731		176731 ✓		212731	
27,500.00	Diamond Drilling	167300	325	361200	325	608775 ✓	325	933238 ✓	325	1149526	325
1,800.00	Rental of Jeep & Truck	2700		3780		6720 ✓		10238 ✓		14856	
1,500.00	Materials & Supplies	3770		3770		3770 ✓		3770 ✓		3770	
71,600.00											
— o —	Insurance	1794		4023		8909		12294 ✓		15551	
		276059		699908		1192233		1587331 ✓		1968758	

Contract Allowance	Item	December Amount	December Per Ft.	January Amount	January Per Ft.	February Amount	February Per Ft.	March Amount	March Per Ft.	April Amount	April Per Ft.
7,500.00	Aerial Magnetometer Survey										
13,000.00	Labor	145914	Contract	145914	Contract	145914	Contract	145914	Contract	171802	Contract
1,500.00	Core Testing	50000		50000		50000		50000		50000	
5,400.00	Supervision (Salary)	131797		161797		191797		221797		251797	
8,000.00	Cons. Geologist (Salary & Fees)	317234		355542		393850		531119		571763	
5,400.00	Surveying & Mapping (Salary)	212731		212731		212731		212731		212731	
27,500.00	Diamond Drilling	1258076	325	1307601	325	1307601	325	1307601	325	1407251	325
1,800.00	Rental of Jeep & Truck	15576		15576		15576		15576		18132	
1,500.00	Materials & Supplies	3770		3770		3770		3770		24220	
71,600.00											
— o —	Insurance	18102		20526		22950		25202		28421	
		2153100		2273657		2344389		2513910		2736177	

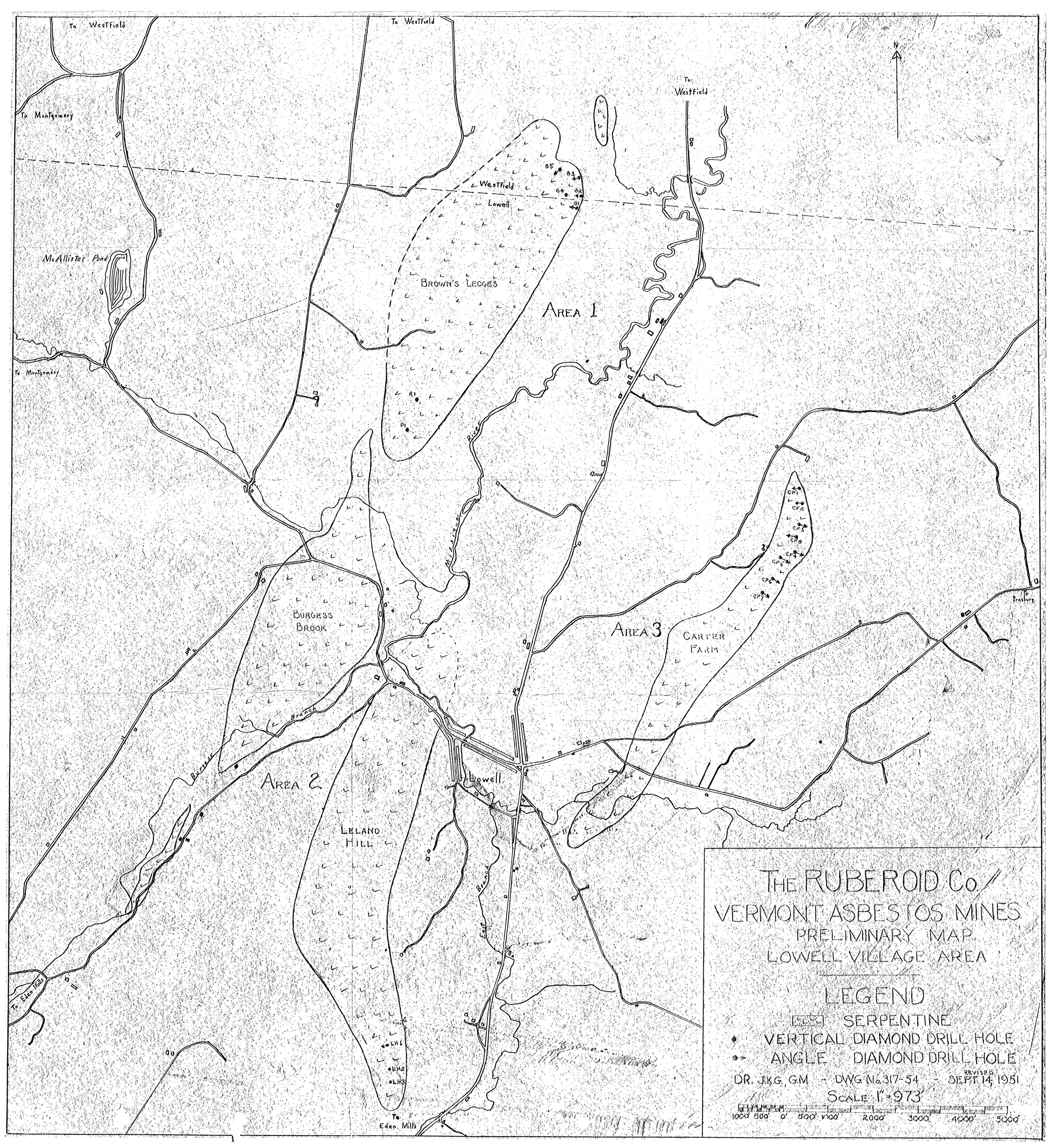
Dates
Contract: June 26, 1951
Completion: Dec. 26, 1952
Amendments:

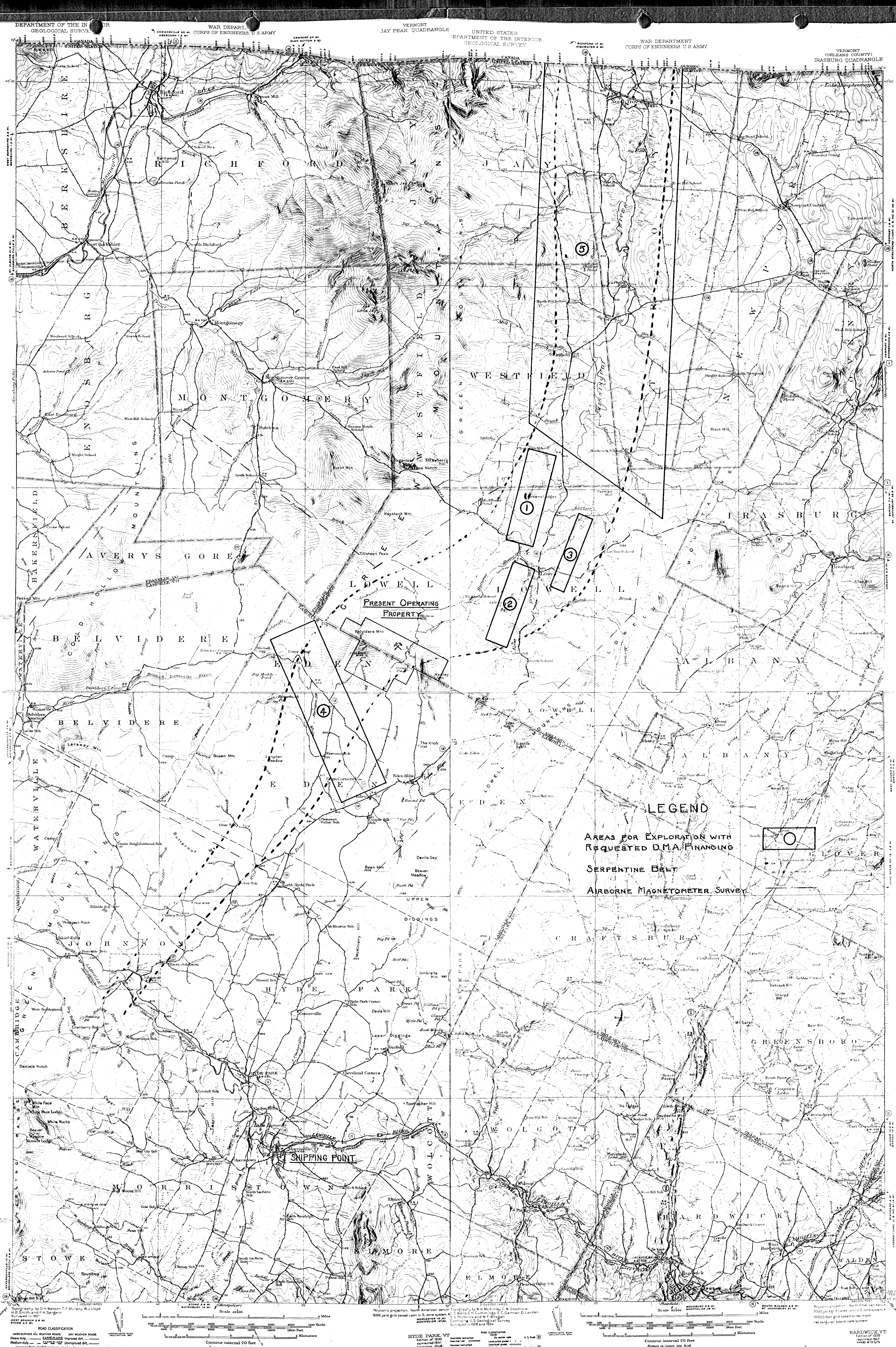
Contract # Idm-E23
OMEA # 1210X
Name: The Ruberoid Co.
Form: Old

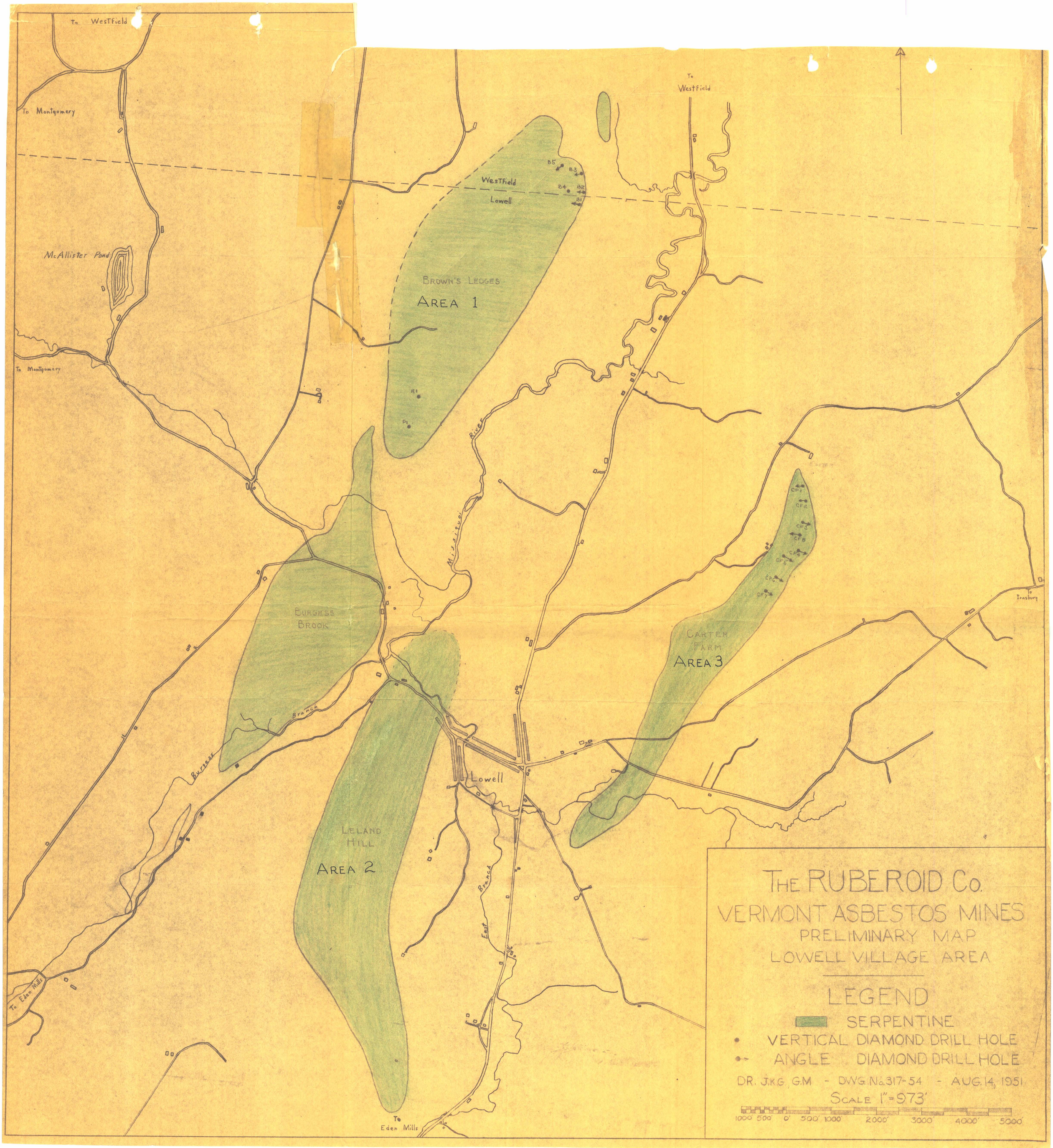
Contract Allowance	Item	May Amount	Per Ft.	June Amount	Per Ft.	July Amount	Per Ft.	August Amount	Per Ft.	September Amount	Per Ft.
$ 7,500.00	Aerial Magnetometer Survey					$ 483		$ 543		$ 4654	
13,000.00	Labor	221084		304056 ✓		338521 ✓		375995		375995	
1,500.00	Core Testing	50000		50000 ✓		50000 ✓		50000		169697	
5,400.00	Supervision (Salary)	231797		311797 ✓		341797 ✓		371797		401797	
8,000.00	Cons. Geologist (Salary & Fee)	590917		711039 ✓		730736 ✓		730736		730736	
5,400.00	Surveying & Mapping (Sal.)	248731 ✓		283231 ✓		320731 ✓		359842		359842	
27,500.00	Diamond Drilling	1815126 ✓	325	2294826 ✓	325	2733576 ✓	325	3179626	325	3539726	325
1,800.00	Rental of Jeep & Truck	23694 ✓		27108 ✓		29322 ✓		31230		32730	
1,500.00	Materials & Supplies	25977 ✓		31048 ✓		36460 ✓		50985		53835	
$ 71,600.00											
— o —	Insurance	31688 ✓		36099 ✓		38900 ✓		41713		43375	
		3289014		4049206		4620043 ✓		5191924		5707733	

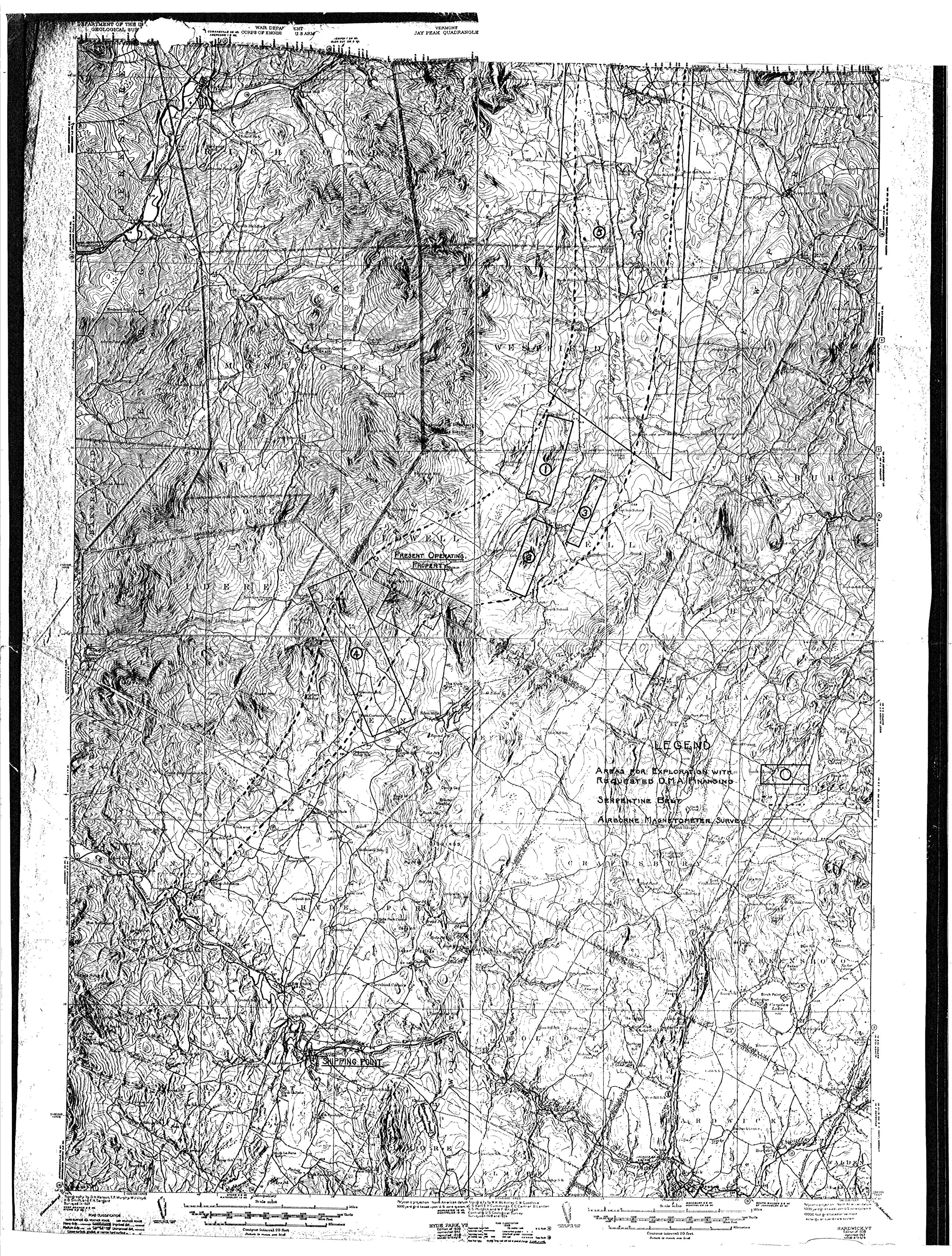
October

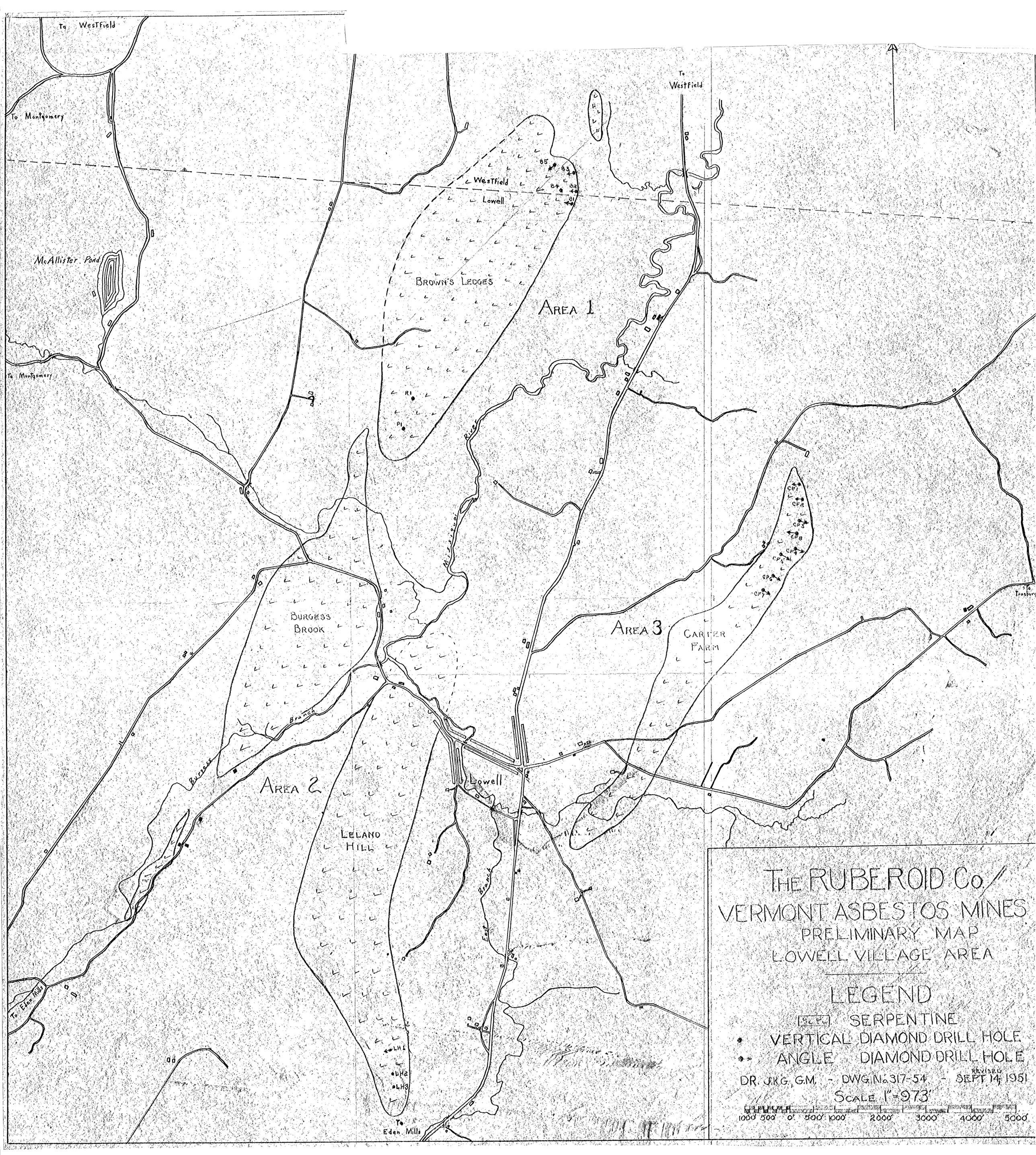
7,500.00	Aerial Magnetometer Survey	$ 3554	
13,000.00	Labor	375995 ✓	
1,500.00	Core Testing	190529 ✓	
5,400.00	Supervision (Salary)	431797 ✓	
8,000.00	Cons. Geologist (Salary & Fee)	730736 ✓	
5,400.00	Surveying & Mapping (Sal.)	359842 ✓	
27,500.00	Diamond Drilling	3653476 ✓	325
1,800.00	Rental of Jeep & Truck	32730 ✓	
1,500.00	Materials & Supplies	72585	
$ 71,600.00			
— o —	Insurance	45077	
		5892767 ✓	


To Westfield
To Westfield
To Westfield
To Montgomery
To Montgomery
N
McAllister Pond
Westfield
Lowell
B5
B3
B4
B2
B1
Brown's Ledges
Area 1
R1
P1
Missisquoi River
CP1
CP4
CP3
CP8
CP5
CP6
CP7
Area 3
Carter Farm
To Trasburg
Burgess Brook
Branch
Burgess
Area 2
Lowell
Leland Hill
East Branch
LH1
LH2
LH3
To Eden Mills
To Eden Mills
THE RUBEROID Co.
VERMONT ASBESTOS MINES
PRELIMINARY MAP
LOWELL VILLAGE AREA
LEGEND
SERPENTINE
VERTICAL DIAMOND DRILL HOLE
ANGLE DIAMOND DRILL HOLE
DR. J.K.G., G.M. - DWG. No. 317-54 - REVISED SEPT. 14, 1951
SCALE 1" = 973'
1000' 500' 0' 500' 1000' 2000' 3000' 4000' 5000'


DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WAR DEPARTMENT
CORPS OF ENGINEERS, U.S. ARMY
VERMONT
JAY PEAK QUADRANGLE
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WAR DEPARTMENT
CORPS OF ENGINEERS, U.S. ARMY
VERMONT
(ORLEANS COUNTY)
IRASBURG QUADRANGLE
COWANSVILLE 20 MI.
ABERCORN 1.5 MI.
NEWPORT 24 MI.
GLEN SUTTON 3 MI.
RICHFORD 17 MI.
HIGHWATER 2 MI.
CANADA
UNITED STATES
QUEBEC
VERMONT
Lake Memphremagog
Richford
BERKSHIRE
RICHFORD
JAY
JAY PEAK
WESTFIELD
NEWPORT
TROY
North Troy
Newport Center
Westfield
Jay
Montgomery
Montgomery Center
MONTGOMERY
ENOSBURG
BAKERSFIELD
AVERYS GORE
BELVIDERE
LOWELL
IRASBURG
Irasburg
ALBANY
Albany
EDEN
Eden Mills
WATERVILLE
JOHNSON
Johnson
HYDE PARK
Hyde Park
CRAFTSBURY
GREENSBORO
GLOVER
MORRISTOWN
Morrisville
WOLCOTT
ELMORE
STOWE
HARDWICK
Hardwick
WALDEN
GREEN MOUNTAINS
Belvidere Mtn
Haystack Mtn
Tillotson Peak
Hazens Notch
Coventry
1
2
3
4
5
PRESENT OPERATING PROPERTY
SHIPPING POINT
LEGEND
AREAS FOR EXPLORATION WITH REQUESTED D.M.A. FINANCING
SERPENTINE BELT
AIRBORNE MAGNETOMETER SURVEY
Topography by D.H. Watson, T.F. Murphy, W.J. Lloyd, H.B. Smith, and F.H. Sargent
Surveyed in 1927
Scale 1/62500
Contour interval 20 feet
Datum is mean sea level
ROAD CLASSIFICATION
HYDE PARK, VT.
Edition of 1930
corrected 1941
reprinted 1948
N4430-W7230/15
Polyconic projection. North American datum
Topography by W.K. McKinley, C.W. Goodlove, C.S. Wells, E.H. Cummings, E.C. Gartner, D. Landen, S.S. Philbrick, and W.F. Witzgall
Control by U.S. Geological Survey
Surveyed in 1928 and 1934
HARDWICK, VT.
Edition of 1938
reprinted 1947
N4430-W7215/15


To Westfield
To Montgomery
McAllister Pond
To Montgomery
To Westfield
Westfield
Lowell
B5
B3
B4
B2
B1
Brown's Ledges
Area 1
R1
P1
Missisquoi River
Burgess Brook
Burgess Branch
Carter Farm
Area 3
CF1
CF2
CF3
CF4
CF5
CF6
CF7
Irasburg
Lowell
Leland Hill
Area 2
East Branch
To Eden Mills
To Eden Mills
The Ruberoid Co.
Vermont Asbestos Mines
Preliminary Map
Lowell Village Area
Legend
Serpentine
Vertical Diamond Drill Hole
Angle Diamond Drill Hole
Dr. J.K.G. G.M. - Dwg. No. 317-54 - Aug. 14, 1951
Scale 1" = 973'
1000' 500' 0' 500' 1000' 2000' 3000' 4000' 5000'


DEPARTMENT OF THE IN
GEOLOGICAL SUR
WAR DEPAR ENT
CORPS OF ENGINI
U S ARM
VERMONT
JAY PEAK QUADRANGLE
PRESENT OPERATING PROPERTY
LEGEND
AREAS FOR EXPLORATION WITH REQUESTED D.M.A. FINANCING
SERPENTINE BELT
AIRBORNE MAGNETOMETER SURVEY
SHIPPING POINT
Topography by D.H. Watson, T.F. Murphy, W.J. Lloyd, H.B. Smith, and F.H. Sargent
Surveyed in 1927
Polyconic projection North American datum
5000 yard grid based upon U.S. zone system
Contour interval 20 feet
Datum is mean sea level
HYDE PARK, VT
Edition of 1930
HARDWICK, VT
Edition of 1938


To Westfield
To Montgomery
McAllister Pond
To Montgomery
To Westfield
Westfield
Lowell
B5
B3
B4
B2
B1
Brown's Ledges
Area 1
R1
P1
Mississquoi River
CF1
CF2
CF3
CF8
CF4
CF5
CF6
CF7
To Trasburg
Burgess Brook
Area 3
Carter Farm
Burgess Branch
Area 2
Lowell
Lelano Hill
East Branch
LH1
LH2
LH3
To Eden Mills
To Eden Mills
THE RUBEROID Co.
VERMONT ASBESTOS MINES
PRELIMINARY MAP
LOWELL VILLAGE AREA
LEGEND
SERPENTINE
VERTICAL DIAMOND DRILL HOLE
ANGLE DIAMOND DRILL HOLE
DR. J.R.G., G.M. - DWG. No. 317-54 - REVISED SEPT. 14, 1951
SCALE 1" = 973'
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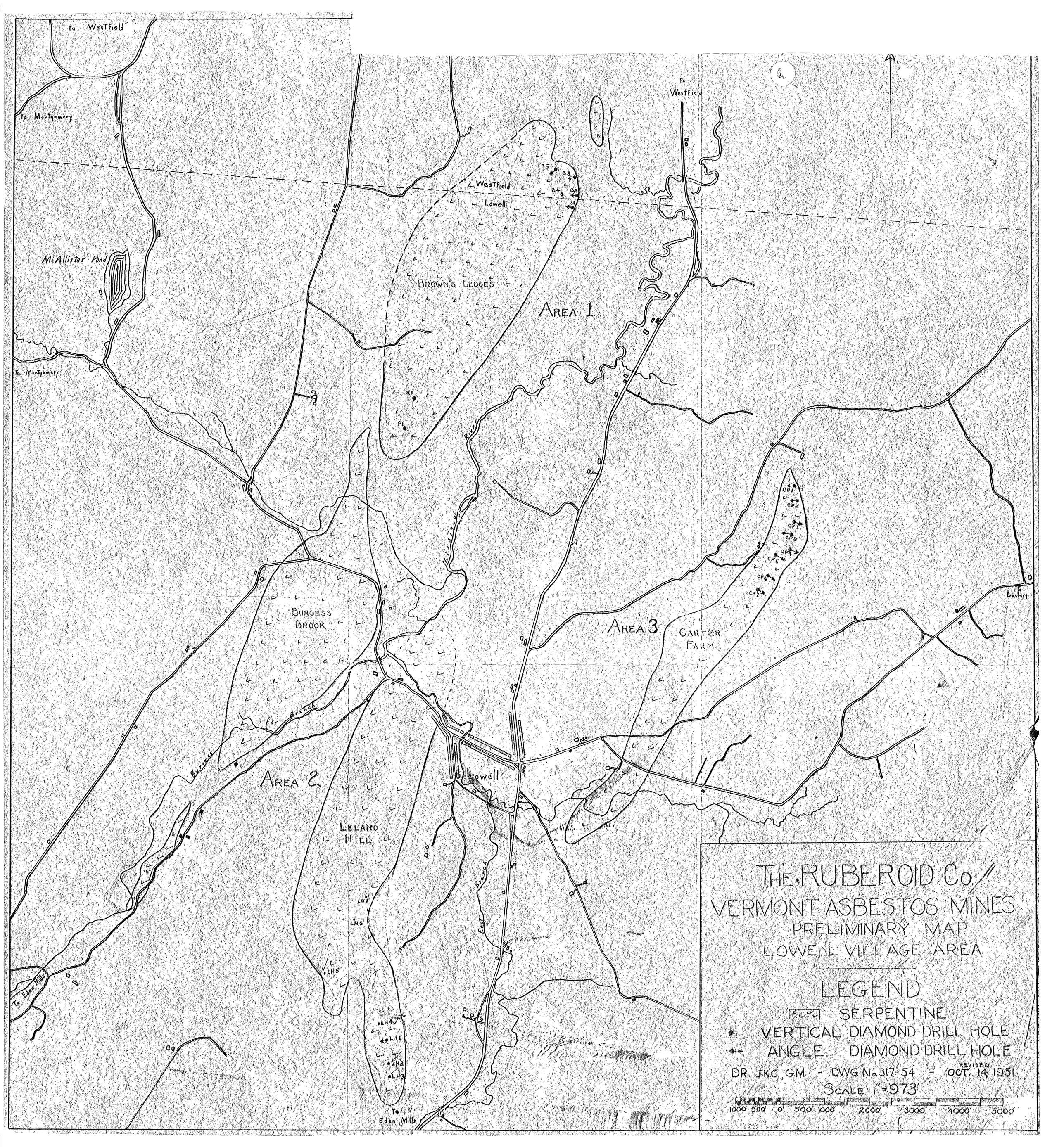
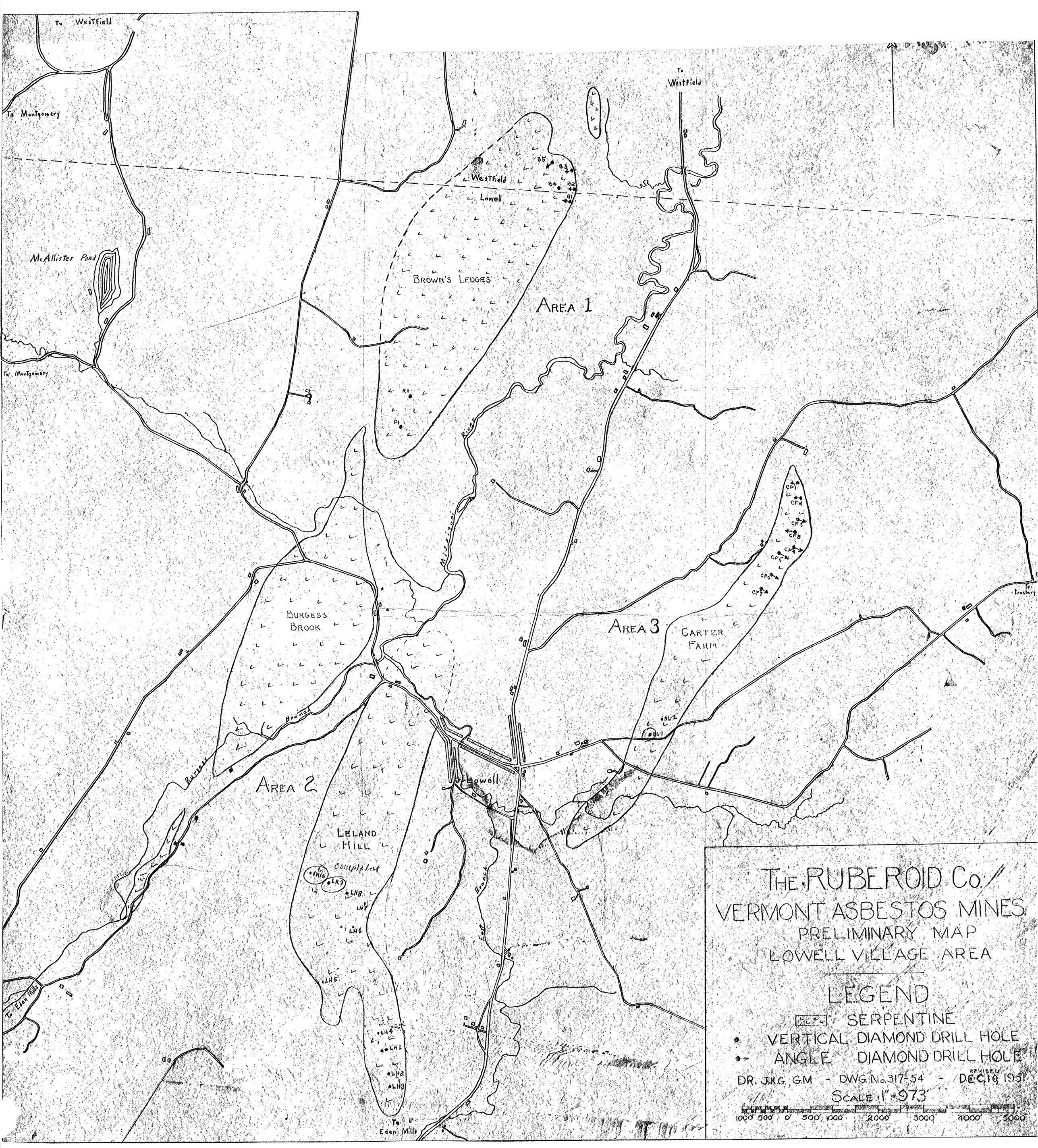

To Westfield
To Montgomery
McAllister Pond
To Montgomery
To Westfield
Westfield
Lowell
B5
B3
B4
B2
B1
Brown's Ledges
Area 1
R1
P1
Missisquoi River
Burgess Brook
Burgess Branch
Area 2
Lowell
Leland Hill
LH7
LH6
LH5
LH4
LH1
LH2
LH3
East Branch
To Eden Mills
To Eden Mills
Area 3
Carter Farm
CF7
CF4
CF3
CF8
CF1
CF5
CF6
CF2
Jeanburg
THE RUBEROID Co.
VERMONT ASBESTOS MINES
PRELIMINARY MAP
LOWELL VILLAGE AREA
LEGEND
SERPENTINE
VERTICAL DIAMOND DRILL HOLE
ANGLE DIAMOND DRILL HOLE
DR. J.K.G., G.M. - DWG No. 317-54 - REVISED OCT. 14, 1951
SCALE 1" = 973'
1000 500 0 500 1000 2000 3000 4000 5000

To Westfield
To Montgomery
To Westfield
McAllister Pond
Westfield
Lowell
B5
B3
B4
B2
B1
BROWN'S LEDGES
AREA 1
R1
P1
Missisquoi River
To Montgomery
BURGESS BROOK
Burgess Branch
AREA 2
LELAND HILL
LH10
LH9
LH8
LH7
LH6
LH5
LH4
LH1
LH2
LH3
Lowell
East Branch
To Eden Mills
To Eden Mills
AREA 3
CARTER FARM
CF1
CF2
CF3
CF8
CF4
CF5
CF6
CF7
BL-2
BL-1
Irasburg
THE RUBEROID Co.
VERMONT ASBESTOS MINES
PRELIMINARY MAP
LOWELL VILLAGE AREA
LEGEND
SERPENTINE
VERTICAL DIAMOND DRILL HOLE
ANGLE DIAMOND DRILL HOLE
DR. J.K.G. G.M. - DWG. No. 317-54 - REVISED JAN. 19 1952
SCALE 1" = 973'
1000' 500' 0' 500' 1000' 2000' 3000' 4000' 5000'


To Westfield
To Montgomery
McAllister Pond
To Montgomery
To Westfield
Westfield
Lowell
85
83
84
82
81
Brown's Ledges
Area 1
R1
P1
Missisquoi River
Burgess Brook
Burgess Branch
Area 2
Leland Hill
Completed
LH10
LH9
LH8
LH7
LH6
LH5
LH4
LH1
LH2
LH3
To Eden Mills
Lowell
East Branch
Area 3
Carter Farm
CF1
CF2
CF3
CF8
CF4
CF5
CF6
CF7
BL-2
BL-1
To Irasburg
THE RUBEROID Co.
VERMONT ASBESTOS MINES
PRELIMINARY MAP
LOWELL VILLAGE AREA
LEGEND
SERPENTINE
VERTICAL DIAMOND DRILL HOLE
ANGLE DIAMOND DRILL HOLE
DR. J.K.G. G.M. - DWG. No. 317-54 - REVISED DEC. 19 1951
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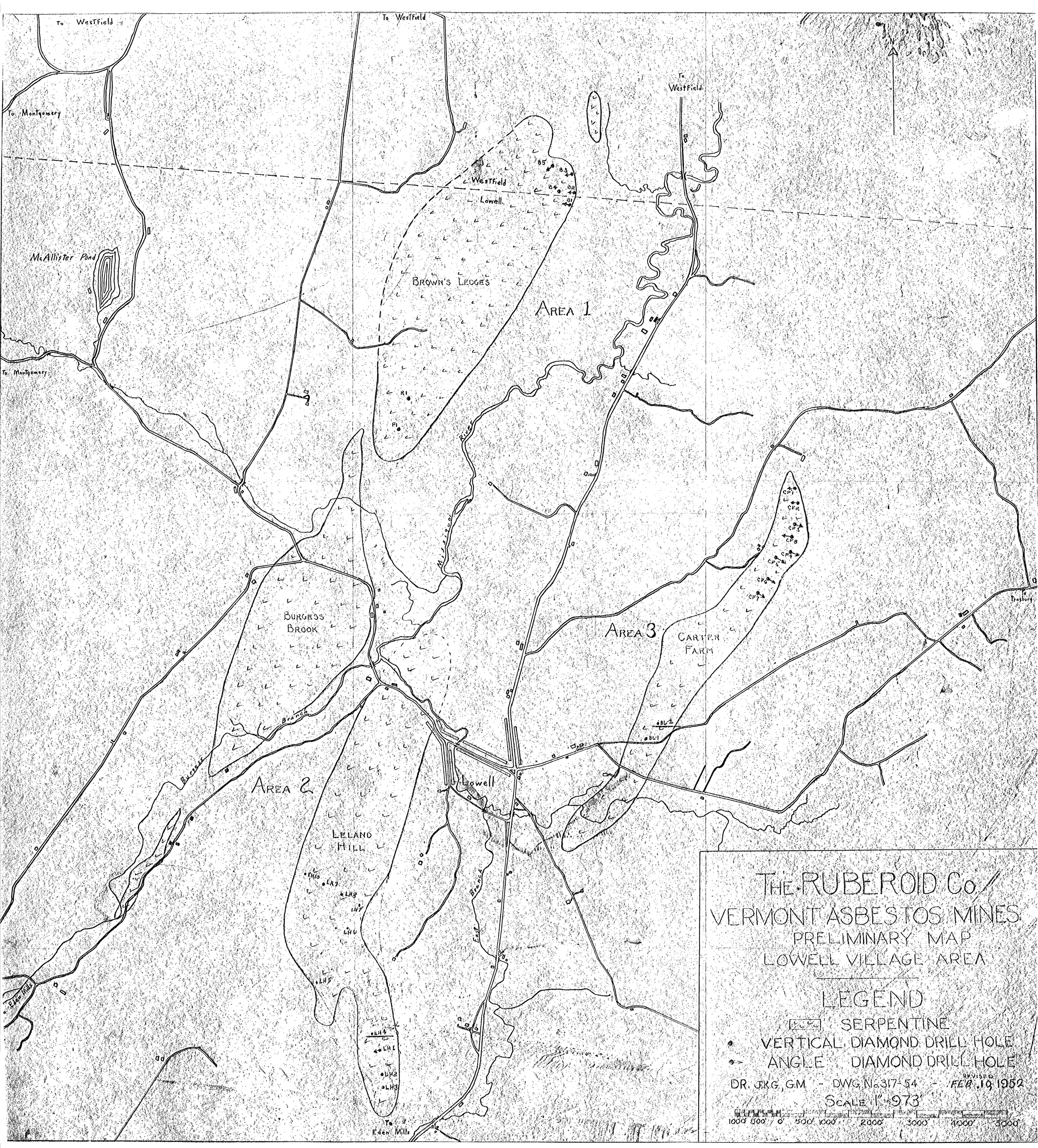
To Westfield
To Westfield
To Westfield
To Montgomery
To Montgomery
McAllister Pond
Westfield
Lowell
Brown's Ledges
Area 1
Missisquoi River
Burgess Brook
Burgess Branch
Area 2
Leland Hill
East Branch
Lowell
Area 3
Carter Farm
Eden Mills
To Eden Mills
To Irasburg
N
THE RUBEROID Co.
VERMONT ASBESTOS MINES
PRELIMINARY MAP
LOWELL VILLAGE AREA
LEGEND
SERPENTINE
VERTICAL DIAMOND DRILL HOLE
ANGLE DIAMOND DRILL HOLE
DR. J.K.G., G.M. - DWG. No. 317-54 - REVISED FEB. 19 1952
SCALE 1" = 973'
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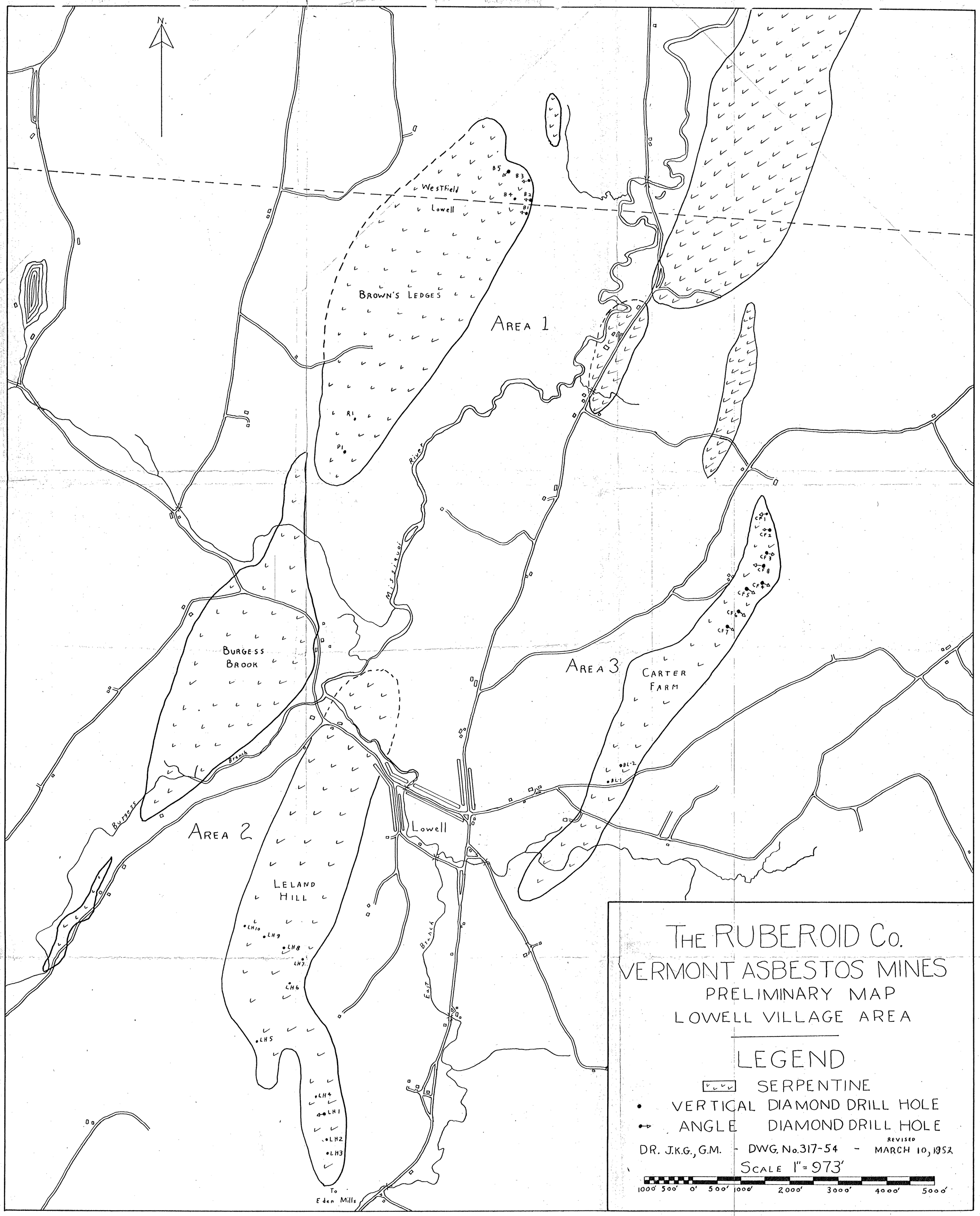
N.
Westfield
Lowell
B5
B3
B4
B2
B1
Brown's Ledges
Area 1
R1
P1
Mississquoi
River
Burgess Brook
Burgess Branch
Area 2
Leland Hill
LH10
LH9
LH8
LH7
LH6
LH5
LH4
LH1
LH2
LH3
Lowell
East Branch
Area 3
Carter Farm
CF1
CF2
CF3
CF8
CF4
CF5
CF6
CF7
BL-2
BL-1
To Eden Mills
The Ruberoid Co.
Vermont Asbestos Mines
Preliminary Map
Lowell Village Area
Legend
Serpentine
Vertical Diamond Drill Hole
Angle Diamond Drill Hole
Dr. J.K.G., G.M. - Dwg. No. 317-54 - Revised March 10, 1952
Scale 1" = 973'
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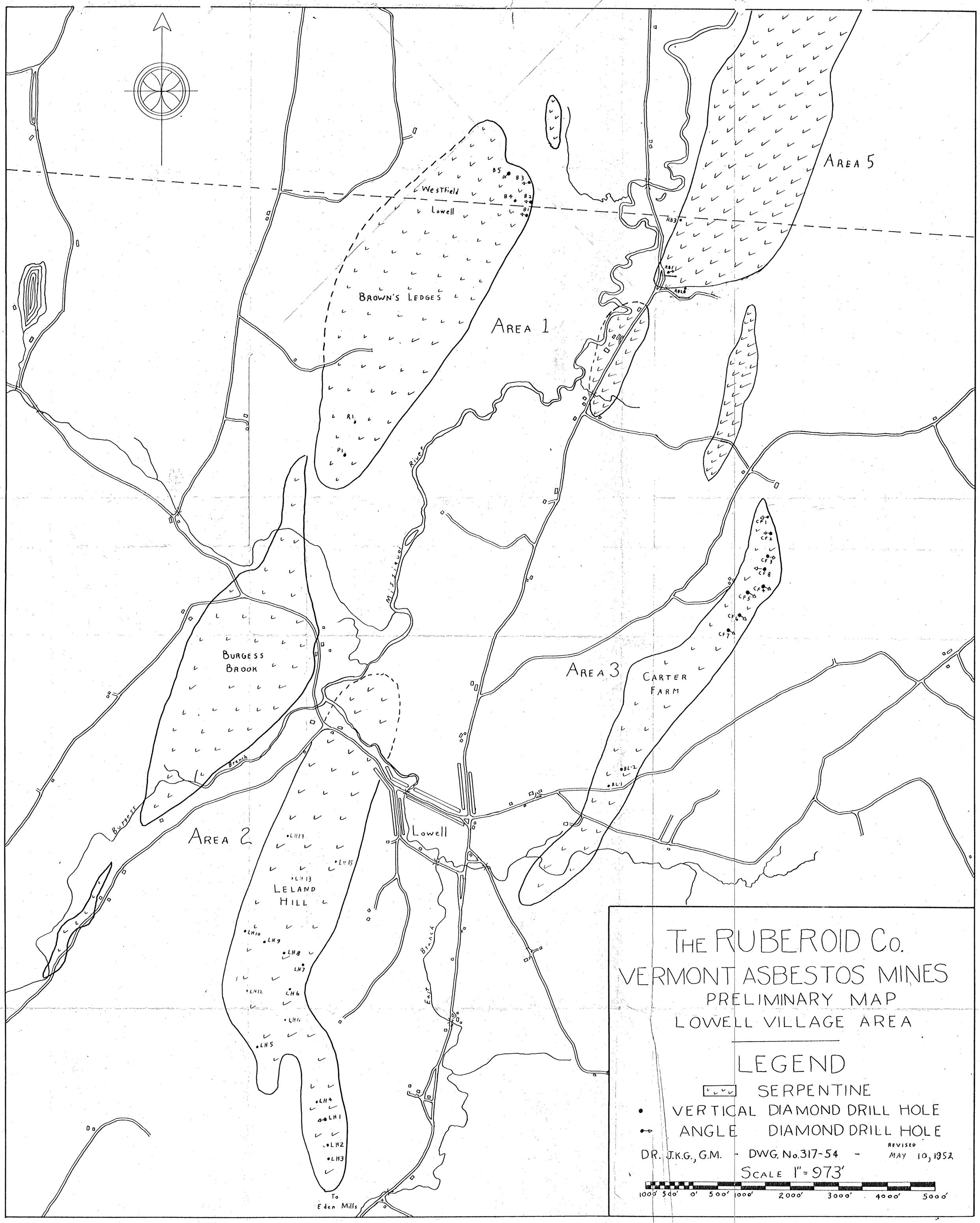
THE RUBEROID Co.
VERMONT ASBESTOS MINES
PRELIMINARY MAP
LOWELL VILLAGE AREA
LEGEND
SERPENTINE
VERTICAL DIAMOND DRILL HOLE
ANGLE DIAMOND DRILL HOLE
DR. J.K.G., G.M. - DWG. No. 317-54 - REVISED MAY 10, 1952
SCALE 1" = 973'
1000' 500' 0' 500' 1000' 2000' 3000' 4000' 5000'
AREA 1
AREA 2
AREA 3
AREA 5
BROWN'S LEDGES
BURGESS BROOK
LELAND HILL
CARTER FARM
Westfield
Lowell
Lowell
Missisquoi River
Burgess Branch
East Branch
To Eden Mills
B5
B3
B4
B2
B1
RB3
RB1
RB2
R1
P1
CF1
CF2
CF3
CF8
CF4
CF5
CF6
CF7
BL-2
BL-1
LH17
LH15
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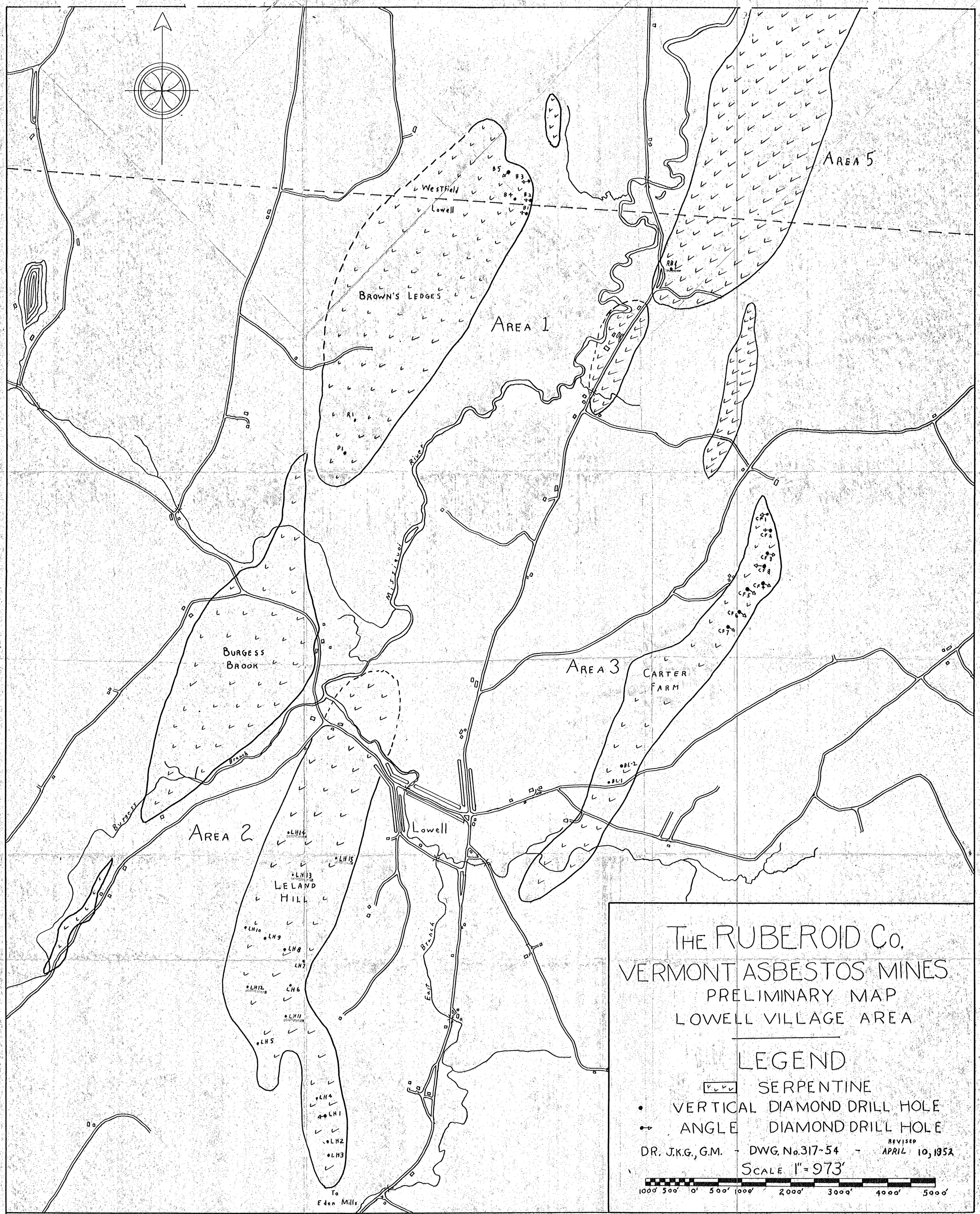
LH10
LH9
LH8
LH7
LH12
LH6
LH11
LH5
LH4
LH1
LH2
LH3


Area 5
Westfield
Lowell
B5
B3
B4
B2
B1
RB1
Brown's Ledges
Area 1
R1
P1
River
Missisquoi
CF1
CF2
CF3
CF8
CF4
CF5
CF6
CF7
Burgess Brook
Area 3
Carter Farm
BL-2
BL-1
Burgess
Branch
Area 2
LH14
Lowell
LH15
LH13
Leland Hill
LH10
LH9
LH8
LH7
LH12
LH6
LH11
LH5
East
Branch
LH4
LH1
LH2
LH3
To
Eden Mills
The RUBEROID Co.
VERMONT ASBESTOS MINES
PRELIMINARY MAP
LOWELL VILLAGE AREA
LEGEND
SERPENTINE
VERTICAL DIAMOND DRILL HOLE
ANGLE DIAMOND DRILL HOLE
DR. J.K.G., G.M. - DWG. No. 317-54 - REVISED APRIL 10, 1952
SCALE 1" = 973'
1000' 500' 0' 500' 1000' 2000' 3000' 4000' 5000'