DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

Idm-E NO. 1177

DMEA NO. 4886

17 MAR 1958

1177

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified

- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

50%

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [x] Closing Letter
- [x] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [XX] Application and attachments

Right Side

- [x] Project summary (final) 8-15-59
- [x] Work Comoleted analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [x] Final Field Team Report (Tab)
- [x] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. 2 : Reports

- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual Report for Certified Project
- [x] Field Team Interim Reports
- [x] Operator's Monthly Reports with transmittal, narrative and maps.

Folders No. _____ : Maps (Use pocket folder or envelope)

Folders No. _____ : Settlement Sheets

Folders No. _____ : Drill Logs

Folders No. _____ : Royalty material

17963

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8/11	Klugerschard	500
8/11	Fiscus	500
8-12	Chamber	800
8/12	Selfridge	120
"	Johnson	110
"	Pittenger	120
8/13	J. G. P.	220
8/13	DP	500

AUG 12 1958

Mr. Roland F. Beers, President
Roland F. Beers, Inc.
Post Office Box 1019
Troy, New York

Re: Docket No. DMEA-4886 (Copper-Zinc)
Roland F. Beers, Inc.
Pruitt #4 Prospect
Spotsylvania County, Virginia
Contract No. Idm-E1177

Dear Mr. Beers:

Reference is made to your completed exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this project. Your attention, however, is called to the provisions of the contract which require the Operator to keep and preserve records for the period indicated.

Your interest in the DMEA exploration program and participation therein are fully appreciated.

We recently received a letter from Mr. E. J. Foley, Superintendent of the Surety Department of the Hartford Accident and Indemnity Company, requesting confirmation of the termination of the cited contract. We are, therefore, sending a copy of this letter to Mr. Foley.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

WPK/dl 8/11/58
cc to: Docket
Admr. R. File
Oper. Comm.
FT. REG. V
Mr. McMahon, USBM
Mr. Killsgaard, USGS
Mr. Foley

8623

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Report of:

Roland F. Beers, Inc.
P. O. Box 1019
Troy, New York

pertaining to Exploration Project Contract No. 16m-E1177, DMEA No. 4886, for April 1958 covering a copper-zinc project on the Pruitt No. 4 Prospect, Spotsylvania County, Virginia.

My review included an examination of the Monthly Report (Form MF-104) and supporting documents, comparison of the claimed costs with the contract and pertinent schedules, verification of work performed by reference to Field Team reports and correspondence, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the reasons that:

(a) the Monthly Reports were supported by documentary proof of that portion ($4,872.50) of the costs which covered work performed at unit rates under independent contract;
(b) the balance ($1,047.00) of the costs was under a contract provision for payment by the Government at fixed unit costs for work performed; and
(c) the administrative cost to the Government of an audit would be excessive in relation to the estimated amount of possible disallowances.

The findings of this review are stated in the following summary:

Total cost billed by Operator		$5,919.50
Exceptions:		
Prior to this review	$ -0-	
Herewith	-0-	-0-
Total accepted cost		$5,919.50

The contract calls for a 50 percent contribution of the allowable costs by the Government. Therefore, if the project is otherwise accepted as having met the terms of the contract, payments as follows are valid and proper:

Payable on audited claim	$2,959.75
Paid to date	-0-
Balance due Operator	$2,959.75

E. D. Talbert

E. D. Talbert, Auditor

June 10, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED APR 11 1958
DATE | INITIALS | CODE

MF-200
(Revised June 1954)

Government's copy

Docket No. DMEA 4886

Commodity Copper-Zinc

Contract No. Idm-E 1177

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]

It is agreed this 17 MAR 1958 day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] ROLAND F. BEERS, INC., a New York corporation, whose mailing address is P. O. Box 1019, Troy, New York, hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200), the attached Exhibit "A," Annex I, and three maps, Figures 1, 2, and 4

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Virginia, County of Spotsylvania, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the[4] lessee (See Annex I) of[5] See Annex I in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a[6] lease, [7] recorded in Book 181, page 180, official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: interests of lessors

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation, and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

of the land (lessor, seller, optionor, etc.), are attached, as follows: Surety Company's Performance Bond was furnished to the Government in lieu of Consents to Lien and Subordination Agreements of lessors.

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 8, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 8(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of Copper and Zinc. The work to be performed is described in Exhibit "A." The Operator on or before May 1, 1958 shall commence the work, and on or before October 1, 1958. (unless the Operator's obligation to prosecute the work is terminated—see Article 10) shall ~~either~~ have completed the work ~~or shall have incurred allowable costs (see Article 6) in a sum not less than the estimated total allowable cost set forth in Exhibit "A."~~ See Article 13.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Independent contracts.*—To the extent that the allowable costs are estimated in Exhibit "A" with express reference to performance by independent contractors on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations), the work may be so performed; but if the reference in Exhibit "A" to any such independent contract requires the Government's approval thereof, payments under such contract will not be allowable costs unless the Government gives its written approval of the contract. Any such independent contract shall refer to some specific and identifiable part of the work, and shall be subject to all of the pertinent terms and conditions of this exploration contract; but the Government shall not be considered a party thereto, and its rights under this contract, including the right to terminate its contributions, shall not be affected thereby. Regardless of the provisions of any such independent contract and regardless of the Government's approval thereof, the Government will participate in payments to the independent contractor only on account of work performed in accordance with the provisions of this exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable.

(c) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—The estimated total allowable cost of the project, set forth in Exhibit "A," is the sum of $6,222.00 (rounded). The Government shall contribute 50 percent of the allowable costs as they are incurred in a total sum not in excess of $3,111.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last

voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work or not in excess of the amount of the Government's contribution to the cost of property which is or may become subject to disposal as provided in Article 9(c), whichever is greater. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 7(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. "Costs incurred" mean costs that have been paid or have become due and payable, or that in the opinion of the Government have become an obligation. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Estimated costs.*—(a) *Categories of costs.*—The allowable costs of the work to which the Government shall contribute are limited to those that are direct, reasonable, necessary, and that are estimated in Exhibit "A" by categories as specified in this article. If any category or subcategory is omitted from the estimate of costs, or if the word "none" is annexed to the listing thereof, costs under such category or subcategory are not allowable. Any excess over any estimate which is indicated as the maximum of any category, subcategory, or item, either as to requirement or related cost, and any excess over the estimated total allowable cost of the work, shall not be allowable. Any excess over the estimate of any category, subcategory, or item, either as to requirement or related cost, not indicated as a maximum shall be allowable within the limit of the estimated total allowable cost of the work. To the extent that excesses over maximums other than the estimated total allowable cost of the work may be necessary for the performance of the work, the Operator shall incur such excesses for his own account without contribution by the Government; ~~but except for any such necessary excesses in categories, subcategories, or items thereunder the Operator is not obligated to incur more than his agreed percentage of the estimated total allowable cost of the work.~~ See Article 13.

To the extent specified in this article or in Exhibit "A" the following categories, subcategories, and elements thereof are maximums; but if not so specified either here or in Exhibit "A" they are not maximums, and may be exceeded within the limit of the estimated total allowable cost of the work:

CATEGORY (1)—INDEPENDENT CONTRACTS.—Work to be performed under independent contracts (see Article 4(b)). The estimated total amount of this category and the estimated cost of each unit of work for performance under an independent contract are maximums.

CATEGORY (2)—PERSONAL SERVICES. See Article 13.

Subcategory (a)—Supervision.—All elements of this subcategory (number of supervisors, periods of employment, rates of pay, and total) are maximums.

Subcategory (b)—Technical services.—All elements of this subcategory (number of technicians, periods of employment, rates of pay, and total) are maximums.

Subcategory (c)—Labor.

CATEGORY (3)—OPERATING MATERIALS AND SUPPLIES.—Includes such items as drill bits and steel, explosives, fuel, pipe, power, small tools costing less than $50 each, timber, track.

CATEGORY (4)—OPERATING EQUIPMENT.

Subcategory (a)—Rental.—The number of each object to be rented [6 mine cars, 1 truck], the rate of rental [$100 per month, $5 per hour], and the total of this subcategory are maximums.

Subcategory (b)—Purchases.—The estimated total of this subcategory is a maximum.

Subcategory (c)—Depreciation.—All elements of this subcategory (time periods, rate of depreciation, and subcategory total) are maximums.

CATEGORY (5)—INITIAL REHABILITATION AND REPAIRS.—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum.

Subcategory (a)—Initial rehabilitation and repairs of existing buildings, fixtures, and installations (exclusive of mine workings).—The estimated total of this subcategory is a maximum.

Subcategory (b)—Initial rehabilitation and repairs of operating equipment.—The estimated total of this subcategory is a maximum.

CATEGORY (6)—NEW BUILDINGS, FIXTURES, AND INSTALLATIONS (EXCLUSIVE OF MINE WORKINGS).—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum.

CATEGORY (7)—MISCELLANEOUS.—Repairs and maintenance (other than initial) of operating equipment, analytical work, prints and other reproductions, accounting, Operator's share of payroll taxes, liability insurance covering employment, travel, communications, and any other items of requirement or cost that do not fall within any of the first 6 categories.

THE ESTIMATED TOTAL ALLOWABLE COST of the work is a maximum.

(b) *Nonallowable costs.*—The following costs are not allowable for contribution by the Government:

(1) *Costs of the land,* such as rental, depreciation, depletion, or other cost of acquiring, owning, or holding possession;

(2) *Indirect costs,* such as general overhead, corporate management, interest, taxes (other than payroll and sales taxes), insurance (other than liability insurance covering employment), damages to persons, damages to property (other than necessary repairs or replacements of equipment or other property used in the work);

(3) *Previous work* performed or costs incurred before the date of this contract; and

(4) *Deferred payments.*—Any costs incurred by the Operator under any rental-purchase agreement, installment-purchase agreement, or any agreement for the purchase of goods under the provisions of which payment of the full purchase price is deferred more than 90 days from the delivery of the goods; unless the purchase agreement is approved by the Government in writing.

(c) *Reductions in costs.*—The Operator shall account for and give the Government credit for any incidental benefits, credits, or money received in the ordinary course of business in prosecuting the work (as by salvage or sale of materials or equipment, furnishing of room or board, furnishing of power or services to third persons, rebates or discounts on purchases, etc.), in the same ratio in which the Government contributes to costs; and such amounts shall be treated as a reduction in costs incurred so that they are available for use within the limit of the original estimated total cost. This provision does not apply to receipts from production which are subject to the Government's percentage royalty under the provisions of Article ~~9~~ 8. See Article 13.

ARTICLE 7. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. If the Government elects to audit said records and accounts relating to the exploration work by certified public accountant, it may do so as a cost of the work to which the Operator shall contribute. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government. If work under this contract is carried on in conjunction with any other operations, or if labor, supervision, services, materials, supplies, equipment, facilities, or other requirements for carrying on the work are also used in connection with other operations, the costs shall be segregated and accounted for on a basis and by methods and accounts that are satisfactory to and approved by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing detailed costs incurred during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and costs incurred for each type of work; and (3) a Narrative Report of the work performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and related costs incurred.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records, or accounts.

ARTICLE 8. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 7) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value therof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½)

percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 9. *Interests in purchased property.*—(a) *Title and ownership.*—All costs under this contract shall be incurred by the Operator in the Operator's own name and for the Operator's own account; but any property acquired to the cost of which the Government contributes shall belong to the Operator and the Government jointly in proportion to their respective contributions, although title thereto shall be taken in the name of the Operator.

(b) *Preservation of property.*—Until the final disposal of any property in which the Government has an interest the Operator shall preserve and protect same for the best interest of the Government, any reasonable and necessary costs thereof to be treated as an allowable cost of the project. After the completion of the work or termination of the Government's obligation to contribute, or when such property is not in use for or needed for the work, the Operator shall neither use it without the written consent of the Government nor without paying a reasonable rental to be fixed by the Government for its interest.

(c) *Disposal of property.*—Upon the completion of the work or termination of the Government's obligation to contribute to costs, or when the property is no longer needed for the work, the Operator shall promptly dispose of salable or salvageable property in which the Government has an interest for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator or the Government at a price at least as high as could be obtained from others, unless the Government in writing waives its interest in any such property. Without advance approval of the sales price by the Government the Operator shall not sell at any price any item of property the cost of which was more than $500, and shall not sell at less than 25 percent of the purchase price any item of property which cost $500 or less. The Government, in lieu of approving the sales price for any such item, may itself purchase the item at the best price which the Operator is able to obtain or himself cares to give. Property remaining upon any termination of the work shall be considered in groups or categories (such as drill steel, or explosives, or pipe, or rails), and if the original cost of the remaining unexpended portion of any such group or category is less than $50, the Government waives its interest therein. If necessary to accomplish the disposal of any item the Operator shall dismantle and sever it from the land, the cost thereof to be treated as a cost of the project.

(d) *Default of the Operator re disposal.*—If within 90 days after the completion of the work or termination of the Government's obligation to contribute to costs, or after the property is no longer needed for the work, or after such further time as the Government may in writing allow, the Operator has failed to sell or otherwise liquidate or dispose of any property in which the Government has an interest, the Government, at any time prior to final settlement under the contract, may pursue one of the following two courses: (1) the Government, by written notice to the Operator, may place upon such property what in its opinion is a fair valuation thereof, not in excess of the cost less 1.66 percent per month from the

date such property was purchased under this contract to the termination of said 90-day period; and such property shall thereupon be considered and accounted for as having been purchased by the Operator at the valuation so fixed by the Government; or (2) the Government may enter and take possession of such property wherever it may be found, and remove and dispose of it for the joint account of the parties.

ARTICLE 10. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon: (1) the Government shall be free of all obligation to contribute to costs not then incurred other than such as may be allowable under the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon: (1) the Government shall be relieved of all obligation to contribute to costs not incurred when the notice was given, other than such as may be allowable by the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 10 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 11. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 12. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 13. *Changes and added provisions.*—

(a) In Article 3, the words following the reference to Article 10 are deleted, and the following words are substituted: "shall have completed the work."

(b) In Article 6(a), that part of the last sentence in the first paragraph beginning after the semicolon is deleted.

(c) Categories (2) through (7) of Article 6(a) are deleted.

(d) In addition to the costs of work estimated in Exhibit "A" by categories of actual costs, the costs of work requirements specified in Exhibit "A" as "Fixed Unit Costs" are allowable costs of the project. The Government will contribute to the fixed unit costs as work units are performed. A "Fixed Unit Cost" is an agreed price for each unit of work to be performed regardless of costs incurred by the Operator. Costs set forth in Exhibit "A" include all allowable costs of the work to be performed under the Contract.

(e) In Article 6(c), the reference to Article 9 is changed to Article 8.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. O. Mittendorf
Administrator, Defense Minerals
Exploration Administration

App'd Sol. Off
Lawyer
Chambers
Selfridge
Johnson

ROLAND F. BEERS, INC.
(Operator)

By Roland F. Beers.

Title President

I, John S. Bakos--, certify that I am the Assistant treasurer - Assistant secretary of the corporation named as Operator herein; that Roland F. Beers-- who signed this contract on behalf of the Operator, was then President-- of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

John S. Bakos
Assistant treasurer-Assistant secretary

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70617-1

EXPLORATION PROJECT CONTRACT
ROLAND F. BEERS, INC.
DOCKET NO. DMEA-4886

ANNEX I

The land referred to in Article 2 of the Contract consists of approximately 200 acres situate in the Chancellor Magisterial District, in Spotsylvania County, Virginia.

The property is held pursuant to a lease between John E. Pruitt and Louise Pruitt, his wife, and Roland F. Beers, Inc. The lease grants the exclusive right to prospect and mine for "zinc, lead, copper, nickel, cobalt, iron, sulfides, gold, and silver." Oil and gas, and minerals not named in the lease are excluded from the lease and from the land referred to in Article 2.

The land is described in a deed from Edward Beam, Jr., et al., to John E. Pruitt, recorded in Deed Book 162, page 60, in the official records of Spotsylvania County, Virginia, said description being incorporated herein by reference, and is shown outlined in blue color on the map entitled, "Property Map. Figure 1," attached hereto and made a part hereof.

Excluded Land

An area, roughly square, containing approximately 35 acres, is excluded around the dwelling house at Forrest Hall Farm and the burying ground.

EXPLORATION PROJECT CONTRACT
ROLAND F. BEERS, INC.
DOCKET NO. DMEA-4886

EXHIBIT "A"

Description of the Work

The purpose of the project is to explore for ores of zinc and copper by overburden drilling and diamond drilling, based upon prior geophysical and geochemical reconnaissance work.

The objective of the work is to investigate the ore potential of the sedimentary rocks which underlie the anomalies.

Five holes shall be drilled inclined to the northwest, as the beds dip to the southeast. Tentative locations of the holes are shown on the maps Figure 2, entitled, "DMEA-4886, Roland F. Beers, Inc., Pruitt Prospect, Spotsylvania County, Virginia . . . Dec. 1957," and Fig. 4, entitled, "DMEA-4886, Roland F. Beers, Inc., Plan of Proposed Drill Holes," attached to and made a part of this Contract. The holes with their approximate inclination are described below:

Hole No.	Inclination	Approximate Length
1	-45°NW	350 feet
2	-45°NW	250 feet
3	-45°NW	350 feet
4	-45°NW	250 feet
5	-60°NW	350 feet

The actual locations, directions, inclinations, and depths of all holes are subject to prior Government approval. Drill holes shall not be spaced closer than 200 feet. Not more than 1,550 feet of drilling shall be performed.

Overburden drilling shall be not less than AX size. Holes shall be collared in rock NX size.

All diamond drilling shall be performed with AX size, or larger, coring bits, except that when, in the opinion of the Government, it is not feasible to complete a hole with AX size, the hole may be reduced with EX casing and completed with EX size bits. Drill holes shall be reamed and cased or cemented and redrilled as necessary.

The Government will not contribute to the cost of drilling any hole which is not completed.

All drill holes shall be logged and all drill core shall be made available to the Government for examination. All significantly mineralized core shall be split and one-half thereof shall be properly sampled, in lengths not to exceed 5 feet, and the samples assayed for copper, lead, zinc, gold and silver. The Government will not contribute to the cost of assaying more than 20 samples.

Sludges corresponding to the cores shall be retained (if possible) when drilling is being done in significantly mineralized ground. In the event that the core recovery does not exceed 70 percent, both core and sludge samples shall be taken at intervals not to exceed 5 feet.

The remaining half of all significantly mineralized core samples, and sludge samples when taken, shall be furnished to the Government upon request.

All assays shall be reported monthly to the Government, together with the logs of the drill holes and proper plan maps and sections showing the progress of the work and the sample locations.

All work of drilling and sample preparation shall be properly supervised by competent engineers and geologists.

No drilling shall be performed at locations which are within 100 feet of the outside boundary of the land.

Estimated Cost of the Project

Actual Costs

Category (1) Independent Contracts

Diamond Core Drilling

NX drilling to collar hole in rock 50 feet @ $3.50/ft.	$175.00	
Overburden and rock drilling (not less than AX), 1,500 feet @ $2.95/ft.	4,425.00	
EX size @ $2.70/ft.		
Cementing and redrilling, 10 hours @ $7.50/hr.	75.00	
Delays not attributable to drillers, 8 hours @ $6.50/hr.	52.00	$4,727.00
Mobilization and demobilization of drilling personnel and drilling equipment		300.00
		$5,027.00

The above rates include charges for water supply, changing of locations, and all other charges by the diamond drill contractor.

Neither the cost nor the value of the casing left in drill holes at the option of the Operator will be accepted as a charge to the Contract

Categories (2) through (7)

None

Fixed Unit Costs (See Article 13)

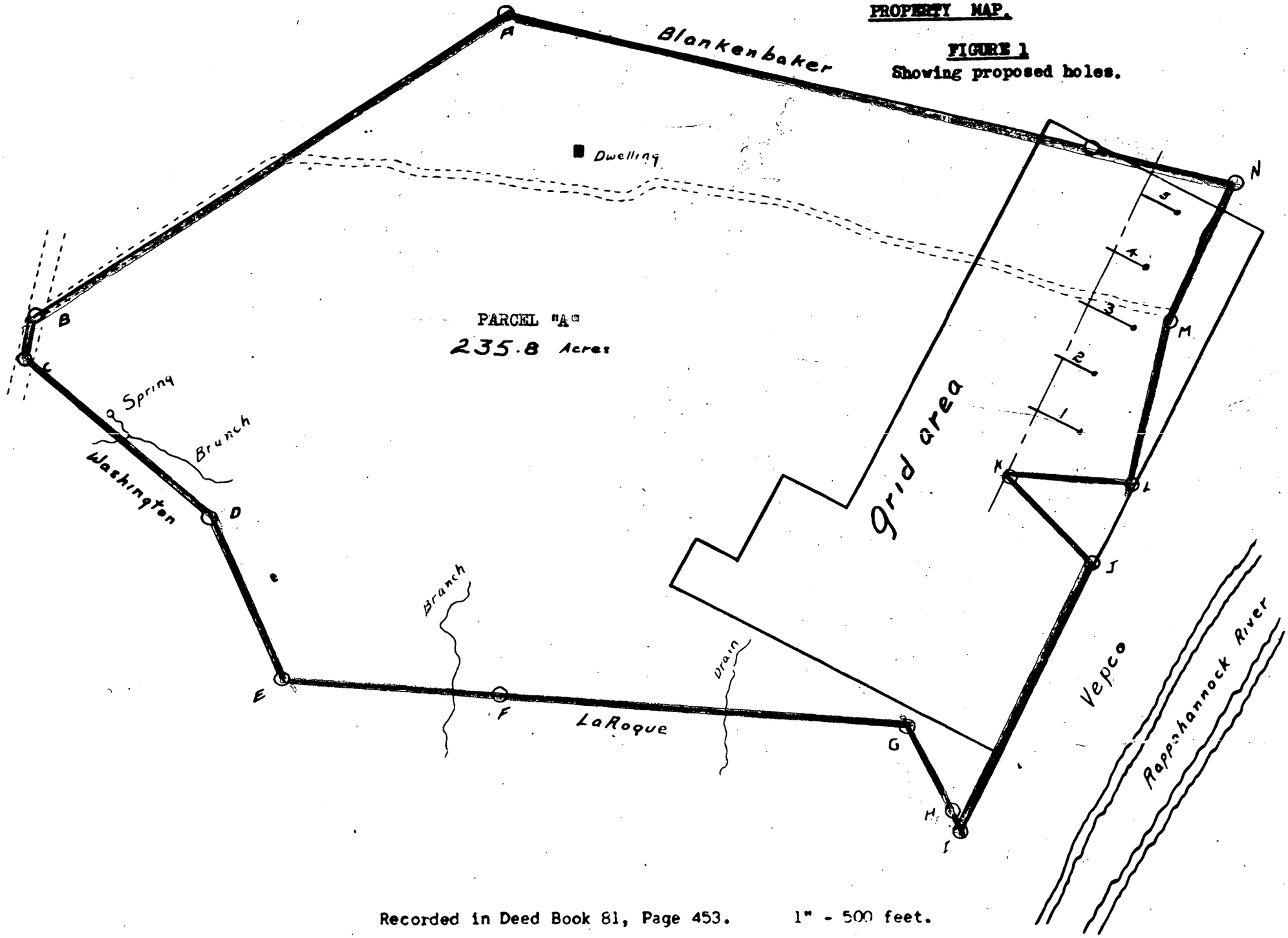
Incidental allowance 1/ for each foot of drilling completed, 1,550 feet @ $0.60/ft.	$930.00

Core boxes (wooden), 48 @ $3.00/each box	$144.00	
20 samples assayed @ $6.00 each sample	120.00	
	$1,194.00	
Estimated total cost of the project (rounded to)		$6,222.00
Government participation @ 50%		$3,111.00

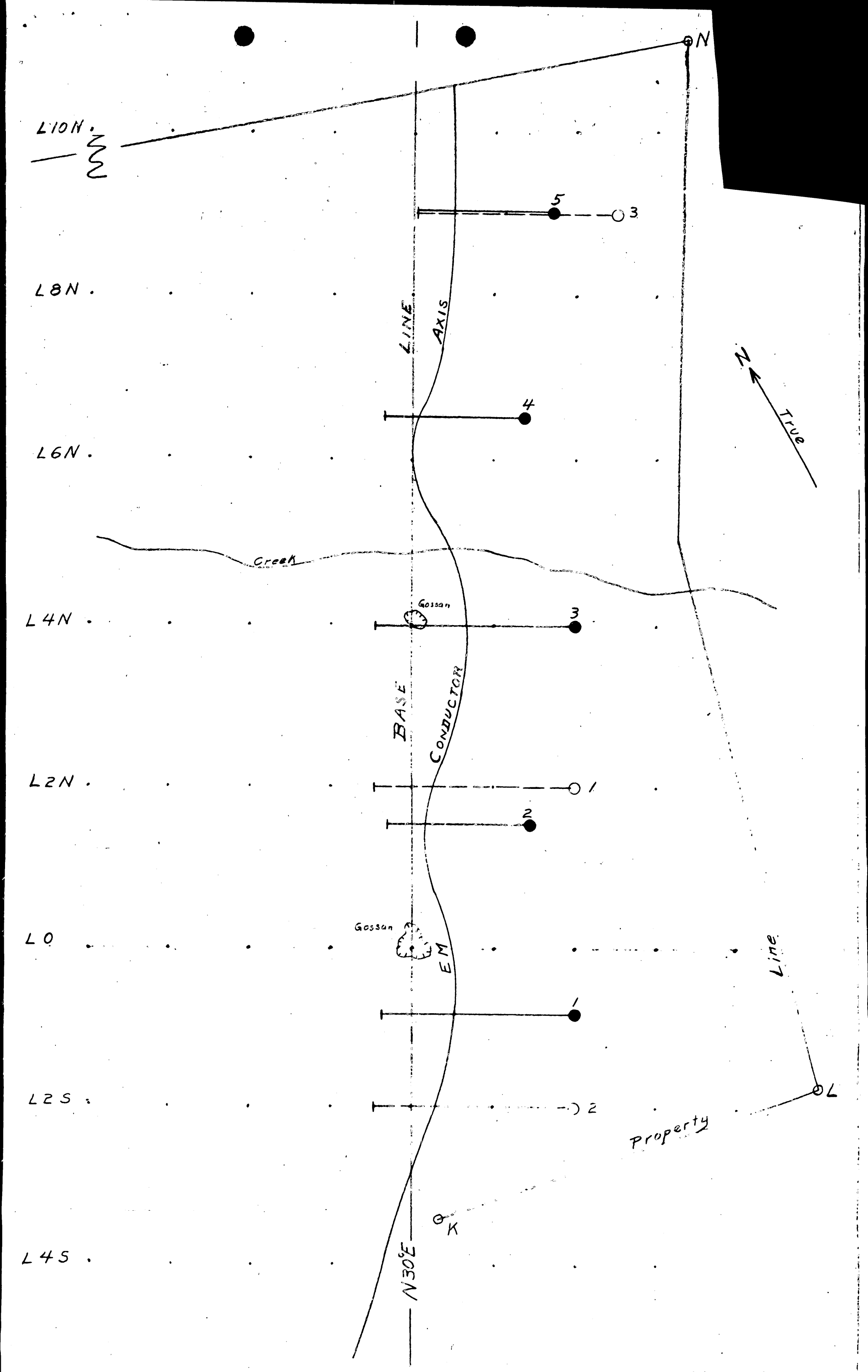
1/ Includes all costs that might otherwise have been allowable costs under Categories (1) through (7) of Article 6(a), except as scheduled in Exhibit "A."

PROPERTY MAP.

FIGURE 1
Showing proposed holes.



Recorded in Deed Book 81, Page 453. 1" - 500 feet.



DRILL HOLES

○— — — APPLICANT LOCATIONS

●——— NEW & REVISED LOCATIONS

DMEA-4886

ROLAND F. BEERS, INC.

Pruitt Prospect, Spotsylvania Co. Va.

Based on Applicant's-Hole Location Map

0 inches 1
0 feet 100

FIG. 2

Dec. 1957 HLC

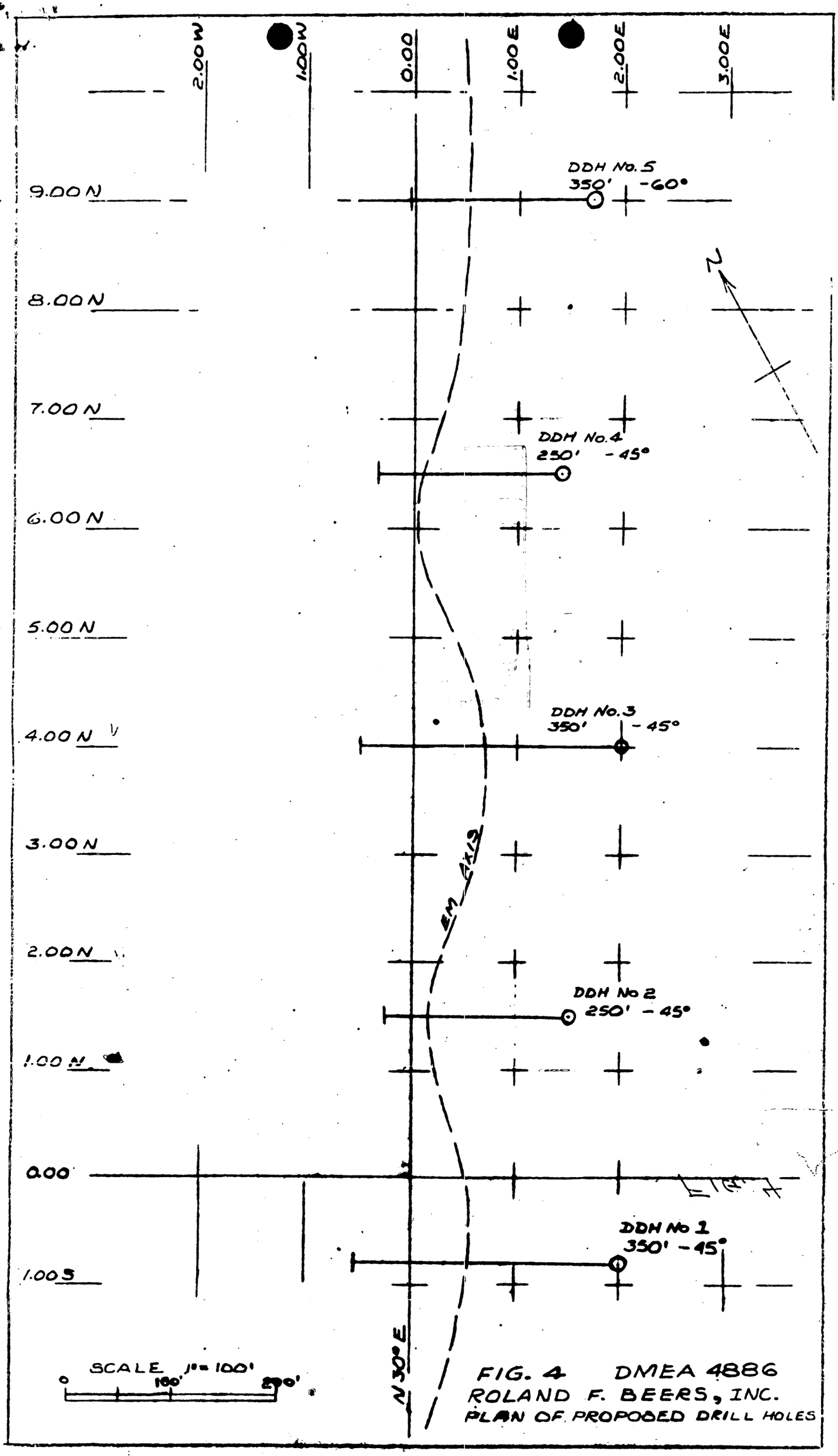


FIG. 4 DMEA 4886
ROLAND F. BEERS, INC.
PLAN OF PROPOSED DRILL HOLES

OFFICIAL FILE COPY
DMEA
RECEIVED APR 11 1958

DATE	INIT.	CODE

STANDARD FORM 25
REVISED NOVEMBER 1950
PRESCRIBED BY GENERAL
SERVICES ADMINISTRATION
GENERAL REGULATION NO. 5

PERFORMANCE BOND

(See Instructions on Reverse)

DATE BOND EXECUTED: March 17, 1958

PRINCIPAL: ROLAND F. BEERS, INC., 447 Pinewoods Ave., Troy, New York, a New York Corporation.

SURETY: HARTFORD ACCIDENT AND INDEMNITY COMPANY, Hartford, Conn. - A Connecticut Corporation authorized to do business in the State of New York.

PENAL SUM OF BOND (*express in words and figures*)	CONTRACT NO.	DATE OF CONTRACT
THREE THOUSAND ONE HUNDRED ELEVEN AND NO/100 - - - - - - - - - - - - - - ($3,111.00) DOLLARS	DMEA 4886	March 17, 1958

KNOW ALL MEN BY THESE PRESENTS, That we, the **PRINCIPAL** and **SURETY** above named, are held and firmly bound unto the United States of America, hereinafter called the Government, in the penal sum of the amount stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal entered into a certain contract with the Government, numbered and dated as shown above and hereto attached;

NOW THEREFORE, if the principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term of said contract and any extensions thereof that may be granted by the Government, with or without notice to the surety, and during the life of any guaranty required under the contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the surety being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals on the date indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

In Presence of:

WITNESS		INDIVIDUAL PRINCIPAL	
1.	as to		[SEAL]
2.	as to		[SEAL]
3.	as to		[SEAL]
4.	as to		[SEAL]

WITNESS		INDIVIDUAL SURETY	
1.	as to		[SEAL]
2.	as to		[SEAL]

Attest: Marion L. Henzler

CORPORATE PRINCIPAL: ROLAND F. BEERS, INC.

BUSINESS ADDRESS: 447 Pinewoods Ave., Troy, N. Y.

BY: Roland F. Beers

TITLE: President

AFFIX CORPORATE SEAL

Attest: Timothy H. Beale

CORPORATE SURETY: HARTFORD ACCIDENT AND INDEMNITY COMPANY

BUSINESS ADDRESS: Asylum St., Hartford, Connecticut

BY: Marcus V. McEvoy

TITLE: Marcus V. McEvoy, Attorney-in-Fact

AFFIX CORPORATE SEAL

The rate of premium on this bond is $10.00 per thousand. (for 2 years)

Total amount of premium charged, $ 31.11

(The above must be filled in by corporate surety)

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, John S. Bakos, certify that I am the assistant secretary of the corporation named as principal in the within bond; that Roland F. Beers, who signed the said bond on behalf of the principal, was then President of said corporation; that I know his signature, and his signature thereto is genuine; and that said bond was duly signed, sealed, and attested for and in behalf of said corporation by authority of its governing body.

John S. Bakos [CORPORATE SEAL]

INSTRUCTIONS

1. This form shall be used for construction work or the furnishing of supplies or services, whenever a performance bond is required. There shall be no deviation from this form except as authorized by the General Services Administration.

2. The surety on the bond may be any corporation authorized by the Secretary of the Treasury to act as surety, or two responsible individual sureties. Where individual sureties are used, this bond must be accompanied by a completed Affidavit of Individual Surety for each individual surety (Standard Form 28).

3. The name, including full Christian name, and business or residence address of each individual party to the bond shall be inserted in the space provided therefor, and each such party shall sign the bond with his usual signature on the line opposite the scroll seal, and if signed in Maine or New Hampshire, an adhesive seal shall be affixed opposite the signature.

4. If the principals are partners, their individual names shall appear in the space provided therefor, with the recital that they are partners composing a firm, naming it, and all the members of the firm shall execute the bond as individuals.

5. If the principal or surety is a corporation, the name of the State in which incorporated shall be inserted in the space provided therefor, and said instrument shall be executed and attested under the corporate seal as indicated in the form. If the corporation has no corporate seal the fact shall be stated, in which case a scroll or adhesive seal shall appear following the corporate name.

6. The official character and authority of the person or persons executing the bond for the principal, if a corporation, shall be certified by the secretary or assistant secretary, according to the form herein provided. In lieu of such certificate there may be attached to the bond copies of so much of the records of the corporation as will show the official character and authority of the officer signing, duly certified by the secretary or assistant secretary, under the corporate seal, to be true copies.

7. The date of this bond must not be prior to the date of the instrument in connection with which it is given.

☆ U. S. GOVERNMENT PRINTING OFFICE : 1951—O-79566

Hartford Accident and Indemnity Company

Hartford, Connecticut

Financial Statement, June 30, 1957

ASSETS		LIABILITIES		
U. S. Government Bonds	$108,091,939.44	Reserve for Claims and Claims Expense		$182,065,705.25
Bonds of other Governments	2,341,596.50	Reserve for Unearned Premiums		102,610,476.94
State, County and Municipal Bonds	120,593,074.58	Reserve for Taxes		3,761,317.81
Miscellaneous Bonds	254,345.00	Amounts withheld for account of others		637,335.48
Stocks	113,123,274.00	Reserve for Unauthorized Reinsurance		142,893.99
Real Estate, Mortgages, Etc.	10,390.85	Miscellaneous Liabilities		2,094,365.00
	$344,414,620.37			**$291,312,094.47**
		Voluntary Reserve	$35,000,000.00	
Cash in Offices and Banks	18,811,174.83	Capital Paid In	10,000,000.00	
Outstanding Premiums less Commissions (Under 90 Days)	36,615,058.99	Unassigned Funds (Surplus)	74,379,411.88	
Interest Accrued	1,287,116.30			
Sundry Assets	9,563,535.86	Surplus as regards Policyholders		119,379,411.88
Total Admitted Assets	**$410,691,506.35**	**Total**		**$410,691,506.35**

STATE OF CONNECTICUT,
COUNTY OF HARTFORD, } ss.

Wilson C. Jainsen, President of the Hartford Accident and Indemnity Company, being duly sworn, does hereby certify that the foregoing is a correct statement of the assets and liabilities of the said Company as of June 30, 1957, and in witness whereof said President has hereunto signed and caused the corporate seal to be affixed hereto.

Acknowledged and sworn to before me this 5th day of August, 1957

Herbert P. Schoen

Notary Public
My commission expires March 31, 1962

RECEIVED APR 11 1958 D.M.E.A.

Wilson C. Jainsen
President

Attest: R. E. Young
Vice-President and Secretary-Treasurer

Form G-1208 Printed in U. S. A.

Hartford Accident and Indemnity Company

HARTFORD, CONNECTICUT

1032

POWER OF ATTORNEY

Know all men by these Presents, That the HARTFORD ACCIDENT AND INDEMNITY COMPANY, a corporation duly organized under the laws of the State of Connecticut, and having its principal office in the City of Hartford, County of Hartford, State of Connecticut, does hereby make, constitute and appoint

PETER D. KIERNAN, HARRY N. PITT, JR., MARCUS V. McEVOY, THOMAS J. FLANIGAN, PETER D. KIERNAN, JR., WILLIAM H. BRADT, LUKE J. HENRY, and CARL W. MUELLER, of ALBANY, NEW YORK,

its true and lawful Attorney(s)-in-fact, with full power and authority to each of said Attorney(s)-in-fact, in their separate capacity if more than one is named above, to sign, execute and acknowledge any and all bonds and undertakings and other writings obligatory in the nature thereof on behalf of the company in its business of guaranteeing the fidelity of persons holding places of public or private trust; guaranteeing the performance of contracts other than insurance policies; guaranteeing the performance of insurance contracts where surety bonds are accepted by states and municipalities, and executing or guaranteeing bonds and undertakings required or permitted in all actions or proceedings or by law allowed.

and to bind the HARTFORD ACCIDENT AND INDEMNITY COMPANY thereby as fully and to the same extent as if such bonds and undertakings and other writings obligatory in the nature thereof were signed by an Executive Officer of the HARTFORD ACCIDENT AND INDEMNITY COMPANY and sealed and attested by one other of such officers, and hereby ratifies and confirms all that its said Attorney(s)-in-fact may do in pursuance hereof.

This power of attorney is granted under and by authority of the following By-Law adopted by the Stockholders of the HARTFORD ACCIDENT AND INDEMNITY COMPANY at a meeting duly called and held on the 10th day of February, 1943.

ARTICLE IV

SECTION 8. The President or any Vice-President, acting with any Secretary or Assistant Secretary, shall have power and authority to appoint, for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, one or more Resident Vice-Presidents, Resident Assistant Secretaries and Attorneys-in-fact and at any time to remove any such Resident Vice-President, Resident Assistant Secretary, or Attorney-in-fact, and revoke the power and authority given to him.

SECTION 11. Attorneys-in-fact shall have power and authority, subject to the terms and limitations of the power of attorney issued to them, to execute and deliver on behalf of the Company and to attach the seal of the Company thereto any and all bonds and undertakings, and other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-fact shall be as binding upon the Company as if signed by an Executive Officer and sealed and attested by one other of such Officers.

This power of attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Directors of the HARTFORD ACCIDENT AND INDEMNITY COMPANY at a meeting duly called and held on the 13th day of March, 1956.

RESOLVED, that, whereas the President or any Vice-President, acting with any Secretary or Assistant Secretary, has the power and authority to appoint by a power of attorney, for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, one or more Resident Vice-Presidents, Assistant Secretaries and Attorneys-in-fact;

Now therefore the signatures of such officers and the seal of the Company may be affixed to any such power of attorney or to any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached.

In Witness Whereof, the HARTFORD ACCIDENT AND INDEMNITY COMPANY has caused these presents to be signed by its Vice-President, and its corporate seal to be hereto affixed, duly attested by its Secretary, this 22nd day of April, 1957.

Attest: HARTFORD ACCIDENT AND INDEMNITY COMPANY

Secretary *Vice-President*

STATE OF CONNECTICUT, } ss.
COUNTY OF HARTFORD,

On this 22nd day of April, A. D. 1957, before me personally came Wm. H. Wallace, to me known, who being by me duly sworn, did depose and say: that he resides in the County of Hartford, State of Connecticut; that he is the Vice-President of the HARTFORD ACCIDENT AND INDEMNITY COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation and that he signed his name thereto by like order.

STATE OF CONNECTICUT, } ss.
COUNTY OF HARTFORD,

Notary Public
My commission expires March 31, 1962

CERTIFICATE

I, the undersigned, Assistant Secretary of the HARTFORD ACCIDENT AND INDEMNITY COMPANY, a Connecticut Corporation, DO HEREBY CERTIFY that the foregoing and attached POWER OF ATTORNEY remains in full force and has not been revoked; and furthermore, that Article IV, Sections 8 and 11, of the By-Laws of the Company, and the Resolution of the Board of Directors, set forth in the Power of Attorney, is now in force.

Signed and sealed at the City of Hartford. Dated the 17th day of March 19 58

Assistant Secretary

SEE REVERSE SIDE

STATE OF NEW YORK)
) ss.
COUNTY OF Albany)

On March 17, 1958 , before me personally came Marcus V. McEvoy , to me known who, being by me duly sworn, did depose and say, that he resides in Town of Colonie, Newtonville, N. Y.; that he is the attorney-in-fact of the HARTFORD ACCIDENT AND INDEMNITY COMPANY, the corporation described in and which executed the within instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order; and that the Superintendent of Insurance of the State of New York has, pursuant to Chapter 33 of the Laws of the State of New York for the year 1909, as amended, constituting Chapter 30 of Cahill's Consolidated Laws of the State of New York, as amended, issued to the HARTFORD ACCIDENT AND INDEMNITY COMPANY his certificate that said Company is qualified to become and be accepted as surety or guarantor on all bonds, undertakings, and other obligations or guarantees, as provided by the Insurance Law of the State of New York and all laws amendatory thereof and supplementary thereto; and that such certificate has not been revoked.

Richard C. Sullivan
Notary Public,

RICHARD C. SULLIVAN
Notary Public - State of New York
Residing in Albany County,
My commission expires March 30, 195...

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D M E A
RECEIVED MAR 11 1958
DATE | INITIALS | CODE

N O T I C E

I, John E. Pruitt, of Forest Hall Farm, County of Spotsylvania, State of Virginia, having read U. S. Government Form MF-203, "CONSENT TO LIEN", am unwilling to sign said document.

March 4, 1958

John E. Pruitt

STATE OF VIRGINIA

I, Robert B. Goodman, a Notary Public at large in and for the State aforesaid, do hereby certify that John E. Pruitt personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 4th day of March, 1958.

Robert B. Goodman,
Notary Public

My Commission expires 9/7/59.

BRANCH OFFICE
1111 ROSE HILL DRIVE
CHARLOTTESVILLE, VIRGINIA
PHONE 2-4918

ROLAND F. BEERS, INC.

November 25, 1957

MAIL ADDRESS
P. O. BOX 3725
UNIVERSITY STATION
CHARLOTTESVILLE, VIRGINIA

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 26 1957

DATE	INITIALS	CODE

Mr. W. R. Griswold
Chief, Base Metals Division
Defense Minerals Exploration Adm.
Department of the Interior
Washington 25, D. C.

Dear Mr. Griswold:

Attached is an application for DMEA assistance on our Pruitt #4 prospect, Spotsylvania County, Virginia. The prospect was discovered through a regional airborne electromagnetic survey conducted by Roland F. Beers, Incorporated. A lease has been obtained on the land, and all preliminary geological and geophysical investigations have been completed.

Because of the nature of the prospect, we are requesting minimum drilling needs. The total cost of the recommended program is $5,006.53.

Of the four drilling bids submitted, that of the E. J. Longyear Co. was the lowest. This factor together with the designated wire-line drilling technique makes their bid preferable to the Corporation. It is recommended that the drilling contract be awarded to the E. J. Longyear Co.

We sincerely hope that you will find this application in order and of merit.

Very truly yours,

Robert S. Young

Robert S. Young,
Branch Manager

Enc.
RSY/sb

Form MF-103
Revised Feb. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1035.3
Approval expires June 30, 1958

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed)

Roland F. Beers, Inc.
P. O. Box 1019
Troy, New York

RECEIVED NOV 26 1957 D.M.E.A.

APPLICANT NOT TO USE THIS BLOCK

Docket Number: DMEA-4886
Date Received: 11/26/57
Government Participation %:
Region: V
Division Code: 500

BUSINESS ORGANIZATION (Check one)

- Individual [ ]
- Corporation [X]
- Partnership [ ]
- Other (Specify) [ ]

State in which firm is organized: New York

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
See Attachment A		

Mineral(s) for which you wish to explore: chalcopyrite and sphalerite

Estimated Cost of Project: $ 5006.53

LOCATION OF PROPERTY

Name	County	State
See Plates 1 and 2	Spotsylvania Co.	Virginia

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Amended, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

11/26/57
Dated

Robert S. Young
BY (Signature)

Branch Manager
Title

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:* See Attachment B

(a) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:* See Attachment C

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in 2*(a)*.

(c) State, as far as you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:* See Attachment D

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:* See Attachment E

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *property boundaries* or to the closest identifiable corner.

(b) If an access road to the project must be built, show the location on the property map and state the length, type, and construction methods proposed.

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:* See Attachment F.

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:* See Attachment G.

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. *(Note* – If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant, which will be used on the exploration project.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration project stating specifications and cost including labor, materials and supervision.

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

Note – No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. *(a)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Amended.

See Attachment H

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-DUP. SEC., WASH., D.C. 15539

ATTACHMENT A

OFFICIAL FILE COPY
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DATE	INITIALS	CODE

ROLAND F. BEERS, INC.
P. O. Box 1019
Troy, New York

Corporation, State of New York

Roland F. Beers, President and Treasurer
465 Pinewoods Avenue, Troy, New York

Helen C. Beers, Vice President
465 Pinewoods Avenue, Troy, New York

Frank A. McNamee, Jr., Secretary
75 State Street, Albany, New York

Roland F. Beers, Inc., is the manager of operations for a group known as The American Syndicate. The names and addresses of the Syndicate members follow:

Basic Incorporated, 845 Hanna Building, Cleveland, Ohio
Victor Bator, 30 East 72nd Street, New York, New York
Roland F. Beers, 465 Pinewoods Ave., Troy, New York
Roland F. Beers, Inc., 447 Pinewoods Ave., Troy, New York
Eugene F. Connally, 471 Second Avenue, Troy, New York
Erwin N. Darrin, P. O. Box 2465, Spartanburg, South Carolina
James R. Dunn, View Drive, R. D. 2, Averill Park, New York
C. Emory Lochner, 75 State Street, Albany, New York
Shepard W. Lowman, P. O. Box 876, Troy, New York
W. W. MacGregor, 40A schuyler Height Apartments, Menands, Albany 4, New York
Malartic Gold Fields, Ltd., Halet, Quebec, Canada
Salomon Bros. & Hutzler, c/o John Stevenson, 60 Wall Street, New York, New York
John M. Schiff, 30 Wall Street, New York, New York
South Texas Development Company, 100 State Street, Albany, New York
Wytex Oil Corporation, 100 State Street, Albany, New York

ATTACHMENT B

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ROLAND F. BEERS, INC.
P. O. Box 1019
Troy, New York

1. Applicant's Property Rights:

(a) The following described premises are owned by lessor and situated in the Chancellor Magisterial District, in Spotsylvania County, Virginia, more particularly described as follows:

Parcel A

Recorded in Deed Book 81, page 453

1" = 500'

I surveyed on the 16th day of Jan. and the 5th day of Feb. 1913 for Mrs. Jas. H. Orrock from Mr. Mark Ricker and wife, a tract of land knowned as "Forest Hall" lying in the County of Spotsylvania and State of Virginia and about 3½ miles northeast of Chancellorsville, and then Bounded as follows, to-wit: Beginning at "A" a large cedar corner to Blankenbaker. Thence with same as agreed upon today by all interested parties south 57 degrees 19 minutes west 2307 feet to "B" a point in the center of road leading to the U. S. Mine and Blankenbaker line and corner to Willis Washington. Thence with Willis Washington following the center line of said road south 15 degrees 4 minutes west 169 feet to "C" a peg driven in center of road. Thence south 46 degrees 18 minutes east 25 feet to a peg driven on southeast edge of a road corner to Roy Washington. Thence beginning with this peg on the southeast edge of road to R. Washington. Thence with same south 46 degrees 18 minutes east 968 feet to "D" a post on a hill near edge of field corner to Roy Washington whole line from "D" to "D" 993 feet. Thence with same south 23 degrees 48 minutes east 748½ feet to "E" a post corner to said Washington, and in the "Laroque" line thence with "Laroque" south 86 degrees east 898 feet to "F" a stone east of an old road on west slope. Thence on with "Laroque" south 84 degrees 49 minutes east 1717 feet to "G" a pile of flint stone. Thence on with same south 27 degrees 30 minutes east 404 feet to "H" 3 hickories near top of hill, corner to "Laroque". Thence with same south 2 degrees 30 minutes east 70 feet to "I" a cedar post in the "Laroque" line on south slope corner to Water Power Company. Thence with same north 25 degrees 55 minutes east 1236 feet to "J" a milberry stake. On with same north 42 degrees 40 minutes west 488 feet to a wht. oak stake at "K" corner to same, south 85 degrees 55 minutes east 494 feet to "L" a red

ROLAND F. BEERS, INC.
P. O. Box 1019
Troy, New York

oak stake north 15 degrees 15 minutes east 705 feet to a white oak stake at "M" corner to said Power Company. On with same north 24 degrees 50 minutes east 705 feet to "N" a post in line of Blankenbaker. Thence with Blankenbaker north 74 degrees west 664 feet to "O" a large red oak. Thence with same north 77 degrees 33 minutes west 2473 feet to the point of beginning. Containing an area of 235.855 acres. Two hundred thirty-five and eight hundred and fifty-five thousandths acres of ground. I did not run the line "IJ", "JK", "L", "LM", and "MN". Mapped by the Water Power Co.'s survey. Distance of "M" to the River is 563 feet. The line "AB" continued southwestward in same course for about 536 feet. This latter part of line is between Blankenbaker and Willis Washington and fixed and agreed upon on the 16th day of Jan. 1913. Given under my hand this 17th day of Feb. 1913.

E. H. Randall, S. S. C.
City Surveyor of Fredericksburg and
Deputy Surveyor of Spotsylvania Co.

Parcel B, as described in the attached lease #5-V-2-28, is excluded from consideration in this application.

(b) Pruitt #4 and Forest Hall.

(c) See attached lease copy.

(d) None.

ATTACHMENT C

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2. Physical Description:

(a) Other than four shallow prospect pits, in a gossan zone which extends about 600 feet along trend (N. 30° E.), there are no old workings on the Pruitt #4 grid. The date of this prospecting is not known.

In August 1956, an airborne electromagnetic survey was initiated in the area, which included the Pruitt property. On the basis of this reconnaissance survey, detailed exploration ensued on properties which appeared to be the most favorable.

Detailed geophysical surveys performed by the Corporation on the Pruitt #4 prospect include: ground electromagnetic, self-potential, magnetometer and geochemical. Results of the foregoing surveys are depicted on Plates 3 and 4.

(b) All of the foregoing geophysical surveys were performed by Roland F. Beers, Inc.

(c) No production.

(d) Undetermined.

(e) The Pruitt #4 prospect is in the Piedmont province of Virginia. The immediate area is that typical of the eastern Piedmont, consisting of low, rolling hills locally dissected by recent, dendritic drainage patterns.

As shown on the accompanying geologic map, the area is underlain by a series of metasediments (Pre-C.) of the kyanite-sillimanite facies and granitic intrusive (Paleozoic?). The prospect is in what has been designeated the "northern Virginia sulfide belt". This belt extends from norther Buckingham County to Prince William County, and includes nearly a dozen major sulfide prospects.

The Pruitt #4 prospect has been mapped as occurring in the Peters Creek quartzite. However, the local bedrock is predominately chlorite-sericite schist, low-grade graphite schist, and impure quartz gneiss, all overlapped at higher elevations by Cretaceous "hardpan", gravel and clay. The rocks have an average strike of N. 33° W. and dip steeply to the southeast (82°-88°). No structural departures were noted.

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Gossan float, found at many points on the grid, is evidence of sulfide mineralization, probably of the replacement type. Significance of the gossan shows has been further corroborated by geochemistry and geophysics. Analyses of gossan and soil samples show local copper-zinc values of at least three times background. Results of these surveys are portrayed on Plates 3 and 4.

(f) The Pruitt #4 prospect is nearly midway between the large pyrite-pyrrhotite deposits at Mineral, Austin Run, and Cabin Branch. All of these deposits carried significant amounts of copper, zinc, and lead. Gold mines in the immediate area also contained small amounts of desirable base-metal sulfides.

It is believed that if a sulfide body is present in the Pruitt #4 prospect, it will closely resemble the form and mineral content of the major replacement bodies of the area. Geophysical, geochemical, and geologic data all strengthen the possibility of such occurrence.

(g) See attached Plates 4, 5, and 6.

ATTACHMENT D

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Troy, New York

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3. Accessibility of Project:

(a) DMEA representatives can be met at the Pruitt #4 prospect by R. S.Young or V. R. Geyer of Roland F. Beers, Inc., Charlottesville, Va. Directions for reaching the property are shown on Plate 1.

Access Roads:

Virginia secondary highway #620 - 3/4 mile
Virginia primary highway #3 - 4 miles
U. S. Highway #1 - 10 miles

(b) Distance to shipping, supplies, and residence points from Pruitt #4 prospect.

Chancellorsville - 4 miles
Fredericksburg - 10 miles
Culpeper - 28 miles
Orange - 32 miles
Washington, D. C. - 64 miles

ATTACHMENT E

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Troy, New York

4. The Exploration Project:

(a) The proposed exploratory work consists of a minimum of three diamond drill holes. Drill hole locations (portrayed on Plate 3) were determined by correlation of geophysical and geochemical highs with gossan shows and surface geology. The holes will be drilled at an angle of 45° from the horizontal to a total inclined depth of 350 feet, from southeast to northwest and are designed to intersect the mineralized zone below a point of oxidation. (Approx. 200 feet vertical.)

(b) No additional access roads needed.

(c) The work will start within 60 days and can be completed within 6 months from the date of an exploration project contract.

ATTACHMENT F

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ROLAND F. BEERS, INC.
P. O. Box 1019
Troy, New York

5. This exploration program, although localized, will have access to the entire technical staff and facilities of Roland F. Beers, Inc. Dr. Roland F. Beers is in charge of geophysical operations and interpretation of data therefrom. Geochemical data were supplied by the Troy laboratory of Roland F. Beers, Inc. The self-potential survey, magnetometer survey, soil sample collection, ground electromagnetic survey and local geological interpretation were accomplished by the Charlottesville staff of Roland F. Beers, Inc. The Corporation has for several years been conducting an extensive geological, geophysical and geochemical prospecting program in the eastern United States. This program has included prospect drilling.

Robert S. Young and Vernon R. Geyer are geologist-in-charge of the Pruitt #4 project. Biographical sketches follow:

Robert S. Young, 114 West Park Drive, Charlottesville, Va.; b. April 14, 1922; m. '45; c. 2; B.A. '50, M.A. '51; Ph.D. '54; U.S.A.A.F. '42-'45.

Field geologist, State Geological Survey, Va.; '52; Stratigrapher- Structural Geologist, Va. Div. Geol. '53-'56; Lecturer, Harpur Coll. '53-'54; Consulting Geo. '54-'56, Exploration Projects, United Carbon Co., Roland F. Beers, Inc.; Branch mgr. and Regional Geol.,Roland F. Beers, Inc. '56-current.

Stratigraphic, structural and economic studies in northern Shenandoah Valley; geologic and geophysical exploration for sulfides in southeastern United States.

Soc. Econ. Paleo. and Min.; Min. Soc. Am.; Paleo. Soc.; Am. Assn. Petrol. Geol.; Geol. Soc. Am.; R. E. S. A.; Sigma Xi; Sigma Gamma Epsilon; App. Geol. Soc.

Vernon R. Geyer, 111 Observatory Ave., Charlottesville, Va.; b. August 4, 1922; m. '47; c. 2; B.S. '49, U.S.Army '42-'45.

Grad. stud. and lab. inst., University of N. C., '49-'51; field geologist, Zonolite Co. '51; chief geol. So. Div. Zonolite Co.; '51-'53; ground water and economic geol. Va. Div. Geol. '53-'56; district geol., Roland F. Beers, Inc., '56-current.

Carolina Geo. Soc.; Geol. Soc. Am.; Va. Acad. Sci.; Sigma Gamma Epsilon.

ATTACHMENT G

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ROLAND F. BEERS, INC.
P. O. Box 1019
Troy, New York

6. (a) An independent contract will be let for the entirety of the proposed drilling. The total cost of the initial drilling program (3 holes) will approximate $3,520.50 based on costs shown on the attached bids, submitted by E. J. Longyear Co.

Estimated 75' soil drilling @ $2.95 .....$	221.25	
60' NX drilling @ $3.50	210.00	
915' AX drilling @ $2.95	2,699.25	
Moving charges, drill and crew	300.00	
Core boxes, 30 @ $3.00	90.00	
		$3,520.50

(The above figures provide a unit per foot cost of $3.35.)

(b) Personal Services:

1 Staff Geologist, 2/5 mo. @ $800.00 .....$	640.00	
1 Staff Stenographer, 1 wk. @ $60.00	60.00	
Labor:		
1 Staff Laborer, 60 hrs. @ $1.00	60.00	
		$ 760.00

is 4/5 ONLY, not 2/5

(c) Operating materials and supplies ..... None

(d) Operating equipment ..... None

(e) Rehabilitation and repairs ..... None

(f) New buildings, improvements, installations, rent of core storage .....$ 20.00 — $ 20.00

(g) Miscellaneous:

i. Office and drafting supplies for maintaining records, preparation of maps and reports .....$	25.00	
ii. Workman's compensation and Employer's liability insurance on payroll, est. ..	42.63	
iii. Transportation, Staff geologist, automobile @ $0.08/mi.	250.00	
iv. Subsistence.....	20.00	
v. Communications, telephone & telegraph..	10.00	
vi. Assays, 12 @ $10.00	120.00	
		$ 467.63

OK .08 = 3,000 miles

(h) Contingencies, 5% of total ..... $ 238.40

120 miles @ 3 per wk. for 4 weeks gives 1440 miles, not 3,000 miles

Round trip 1440 miles

ROLAND F. BEERS, INC.
P. O. Box 1019
Troy, New York

RECAPITULATION

(a) Independent contracts	$3,520.50	
(b) Labor, supervision, consultants	760.00	
(f) New buildings,improvements,etc.	20.00	
(g) Miscellaneous	467.63	
(h) Contingencies	238.40	
GRAND TOTAL		$5,006.53

ATTACHMENT H

ROLAND F. BEERS, INC.
P. O. Box 1019
Troy, New York

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7. (a) Yes

   (b) Money

Longyear

E. J. LONGYEAR COMPANY
General Offices, 76 South 8th
Minneapolis 2, Minnesota, U. S. A.
TELEPHONE: FEDERAL 9-7631 • CABLE LONGCO

RECEIVED NOV 20 1957
CODE

October 16, 1957

Roland F. Beers, Inc.
P.O. Box 3725 - University Station
Charlottesville, Virginia

Attention: Dr. R. S. Young
Branch Manager

PROPOSED DIAMOND DRILLING PROGRAM - SPOTSYLVANIA COUNTY, VIRGINIA

Gentlemen:

1. In accordance with the information furnished in our telephone conversation of today, and your letter of September 6, we are pleased to confirm below proposal for your contemplated exploratory drilling program which is to be carried out in the above-mentioned area.

2. We understand that the program as now planned will consist of a minimum of three to four 45 degree angle holes, averaging approximately 300 to 350 feet in depth; that the formation to be drilled will consist of schist with quartz stringers; and that AX-size core is desired. We further understand that all of the drill sites will be accessible to truck transportation; and that the water required for the drilling operation will be available within a maximum distance of 1500 feet of any proposed drill hole.

3. For this work we propose to furnish one truck-mounted Longyear diamond core drill of suitable capacity, together with the necessary accessory equipment, including BX wire line coring tools, required to complete the work as now planned. We further propose to operate the drill on a two shift basis, six days per week.

4. We will carry public liability insurance covering personal injury and property damage, and Workmen's Compensation insurance, and also, all-risk insurance on the drilling equipment protecting against loss by theft, fire, flood, landslides and other similar hazards.

We will also assume and pay any and all Old Age Benefit, Unemployment and Social Security taxes and contributions imposed by federal or state authorities.

Certificates showing the coverage referred to will be furnished upon request.

5. Based upon the conditions as outlined above, we are pleased to quote as follows:

a) Mobilization and demobilization of personnel and drilling equipment.....$300.00 Lump Sum ✓

b) Overburden drilling - in angle holes with minimum inclination of 45 degrees (measured from the horizontal) -

0 to 100 feet in depth.....$ 2.95 per foot ✓

c) Diamond core drilling - to depths [illegible] or specified above -

Top of Ledge to 500 feet in depth -

AX standard and/or BX wire line, recovering core approximately 1-3/16" in diameter.....$ 2.95 per foot

NX standard, recovering core approximately 2-1/8" in diameter (to be confined to collaring hole in ledge).....$ 3.50 per foot

d) Cementing operations, including time spent in placing cement, waiting for cement to set, and drilling out cement, with cement furnished by us.....$ 7.50 per hour, with two man crew

e) Drill hole inclination tests.....$ 7.50 per hour, with two man crew

F) Delays for your convenience or for which you are responsible.....$ 6.50 per hour, with two man crew

g) Wooden core boxes - capacity 36 feet of AX-size core.....$ 3.00 per box

6. The above-quoted drilling rates are based on wages currently being paid in the State of Virginia. If during the life of this project it becomes necessary for us to adjust the wages being paid our workmen because of demands of labor union or otherwise, it is understood and agreed that the Longyear Company reserves the right to increase drilling rates to cover resultant additional operating expenses.

7. Drill cores will be turned over to your representative at the drill site in core boxes provided by the Longyear Company as specified above.

8. Statements will be rendered as promptly as possible after the first of each month, and payment is to be made within thirty days after date of receipt for all work done during the previous calendar month.

9. We very much appreciate the opportunity to consider this program. If awarded the contract, we would be prepared to start the work within a minimum of sixty days after receipt of official notice to proceed.

Sincerely,

E. J. LONGYEAR COMPANY

M. J. Gleason

Manager, Contract Drilling Division

M.J.Gleason:bal

ACCEPTED:

ROLAND F. BEERS, INC.

By:_____

SPRAGUE & HENWOOD, Inc.
Contractors for DIAMOND DRILLING
MINERAL EXPLORATION • SOIL SAMPLING • PRESSURE GROUTING

EXECUTIVE OFFICES & PLANT
221 WEST OLIVE STREET
SCRANTON, PENNSYLVANIA
Telephone Diamond 4 8507

September 13, 1957

(Air Mail)

Roland F. Beers, Inc.,
P.O.Box 3725
University Station,
Charlottesville, Virginia

Attention:- Mr. Robert S. Young, Branch Manager

Gentlemen:-

We wish to acknowledge receipt of your request of September 6th for a quotation for drilling Columbia County, Pennsylvania and Spotsylvania County, Virginia. Our approximate prices for this work will be as follows:-

A - Columbia County, Pennsylvania - rock formations, limestone and shale, total footage between 2,000' and 3,000' and a water supply is available 1,000' to 1,500' from the farthest holes and we are pleased to quote you on AX, BX, and NX size drilling as follows:-

For AX drilling	--	$ 4.00 per lin.ft.
BX drilling	--	4.35 per lin.ft.
NX drilling	--	4.95 per lin.ft.

Cementing holes and drilling out cement -	$15.00 per hour, plus cost of cement.
Delays , waiting for cement to set, etc., -	10.00 per hour.
Surveying holes and any extra work required	12.50 per hour.
For any core boxes requested for preserving cores -- --	4.00 each.

B - Drilling in Spotsylvania County, Virginia, rock formation, schist, total footage approximately 1,000' to 1,500' and a water supply within 1,000' to 1,500' of any hole as follows:-

For AX drilling	--	$ 4.25 per lin.ft.
BX drilling	--	4.60 per lin.ft.
NX drilling	--	5.20 per lin.ft.

Cementing holes and drilling out cement --	$ 15.00 per hour, plus cost of cement.
Delays, waiting for cement to set, etc., --	10.00 per hour.
Surveying holes and any extra work required -	12.50 per hour.
For any core boxes requested for preserving cores -- --	4.00 each.

The above prices include transportation of the equipment and drill crew to the locations of the work. It is understood the locations will be accessible as we did not figure any time for brushing or building roads.

9/13/57

TO:- Roland F. Beers, Inc.,
Attn:- Mr. Robert S. Young, Branch Manager

We could furnish one or two machines, working six 8 hour days per week.

We carry Workmen's Compensation, Public Liability and Property Damage insurance on all of our work.

You did not mention the depth of each hole and we assume these holes will not be over 300 feet in depth.

If interested, we would be pleased to have one of our Representatives call on you to go over this work and possibly there could be some slight revision in our prices, depending on conditions at the drill sites.

Very truly yours,

SPRAGUE & HENWOOD, INC.,

Wm. J. Schank,
Vice President

WJS:GT

RECEIVED
DATE

DIAMOND & SHOT CORE DRILLING
FOUNDATION INVESTIGATION
SOIL SAMPLING

FOUNDATION GROUTING
TEST PITS
MINERAL & QUARRY TESTING

CUNNINGHAM CORE DRILLING AND GROUTING CORP.

P. O. BOX 513, SALEM, VA.

TELEPHONE 2396

September 20, 1957

DATE	INITIALS	CODE

RECEIVED NOV 26 1957

Roland F. Beers, Inc.
P. O. Box 3725
University Station
Charlottesville, Virginia

Attention: Mr. Robert S. Young

Dear Sir:

We have received your letter of September 6 requesting a bid on core drilling in Columbia County, Pennsylvania, and in Spotsylvania County, Virginia.

We have delayed answering your request because we have been expecting to be called upon to start two drilling jobs which would take all our available operators and equipment.

However, we feel that we can wait no longer on these jobs, and if it is not too late, we offer the following bid on your job in Spotsylvania County, Virginia, only:

1. Unit cost per lin. ft., of drilling = $4.00
   NX and BX Core thru weathered zones going to AX when there is no danger in having to further reduce core size.
2. You are to supply core boxes.
3. Mobilization and demobilization to job = $150.00
4. Each drill to work 5 days of 10 hours each per week.
5. Our insurance fulfills all requirements of such large corporations as AT&T and General Electric, but can be increased if necessary.
6. If drilling operations are delayed so crew can cement hole or make survey, we are to be reimbursed at the rate of $8.00 per hour as compensation for crew and use of equipment.

Very truly yours,

CUNNINGHAM CORE DRILLING
AND GROUTING CORPORATION

Sam J. Cunningham

Sam J. Cunningham, President

JOY MANUFACTURING COMPANY
MICHIGAN CITY, INDIANA

PITTSBURGH 22 PA.

October 17, 1957

Roland F. Beers, Inc.
P. O. Box 3725
University Station
Charlottesville, Virginia

Attention- Mr. Robert S. Young,
Branch Manager

Gentlemen:

In accordance with your letter dated October 7 and our long-distance phone conversation of this date, we set forth below the terms and conditions under which we are prepared to undertake a minimum of 1,000 feet of core drilling in Spotsylvania County, Virginia:

Minimum 1,000 feet of drilling

	NX Core	BX Core	AX Core
From surface to a depth of 400 feet	@ $4.00 ft.	$3.75 ft.	$3.50 ft.
In excess of 1,000 ft. of drilling	@ $3.75 ft.	$3.50 ft.	$3.25 ft.
Reaming and casing of drill holes	@ $2.50 ft.	$2.00 ft.	$1.50 ft.

Cementing of drill holes	@ $8.00 hr.
Surveys	@ $8.00 hr.
Delays on your part	@ $8.00 hr.

For this proposed drilling we will furnish one of our Joy #12-B gasoline-driven core drills complete with operating equipment and will conduct the drilling operations on the basis of two eight-hour shifts per day and six days per week. We will furnish all labor, supplies and materials, including water for drilling purposes, but with the exception of core boxes.

We understand that this drilling is scheduled to get under way within the next 60 to 90 days, and we are in a position to start the work at that time and to suit your convenience.

If the conditions as set forth above are acceptable, please advise and we will then forward our formal agreement to cover.

Thanking you for giving us an opportunity of quoting on your requirements, we are,

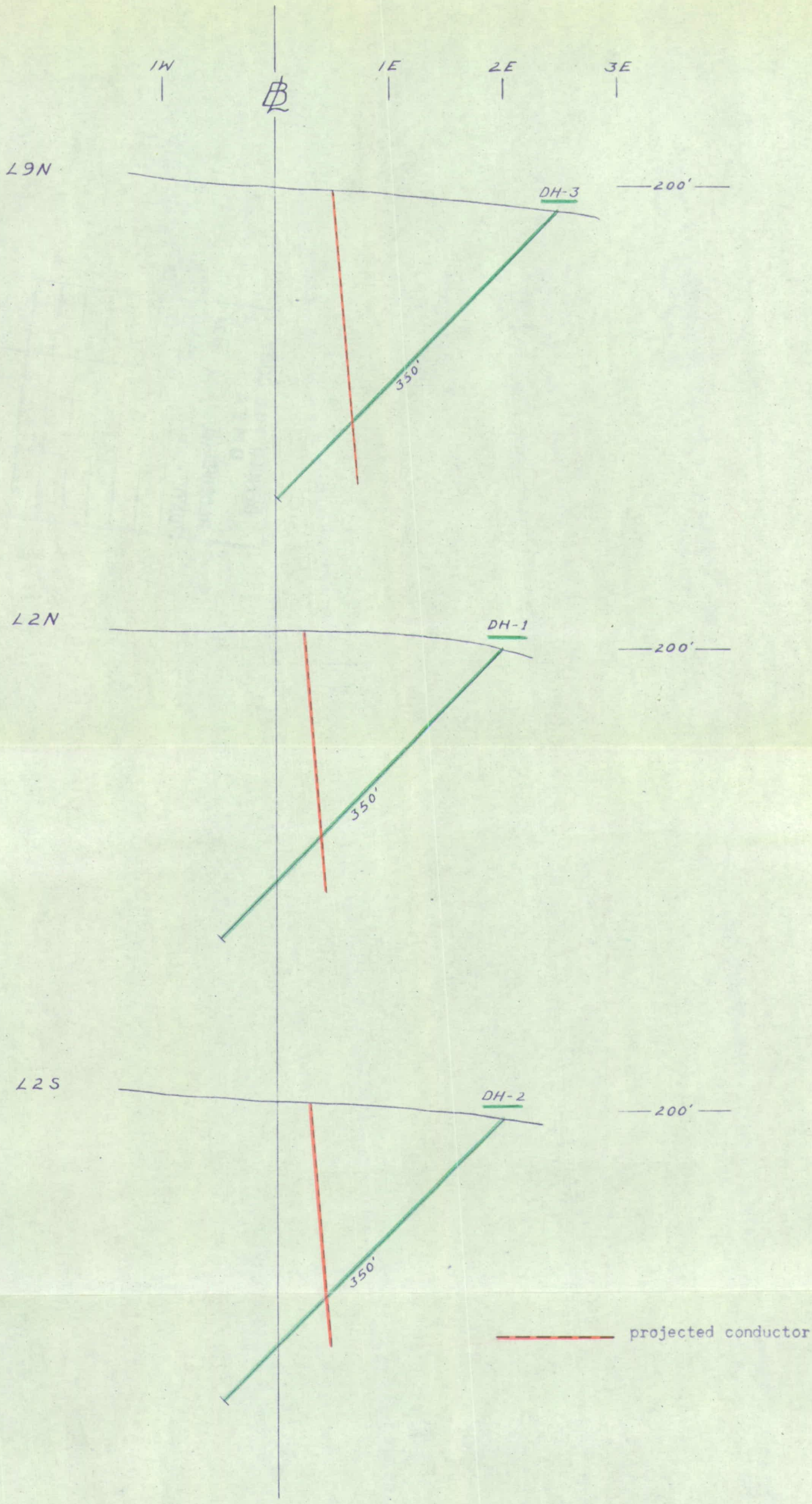
Yours very truly,

JOY MANUFACTURING COMPANY

W. J. Pilarski, Manager
Contract Drill Department

WJP-cj

RECEIVED NOV 26 1957
DATE | INITIALS | COPY

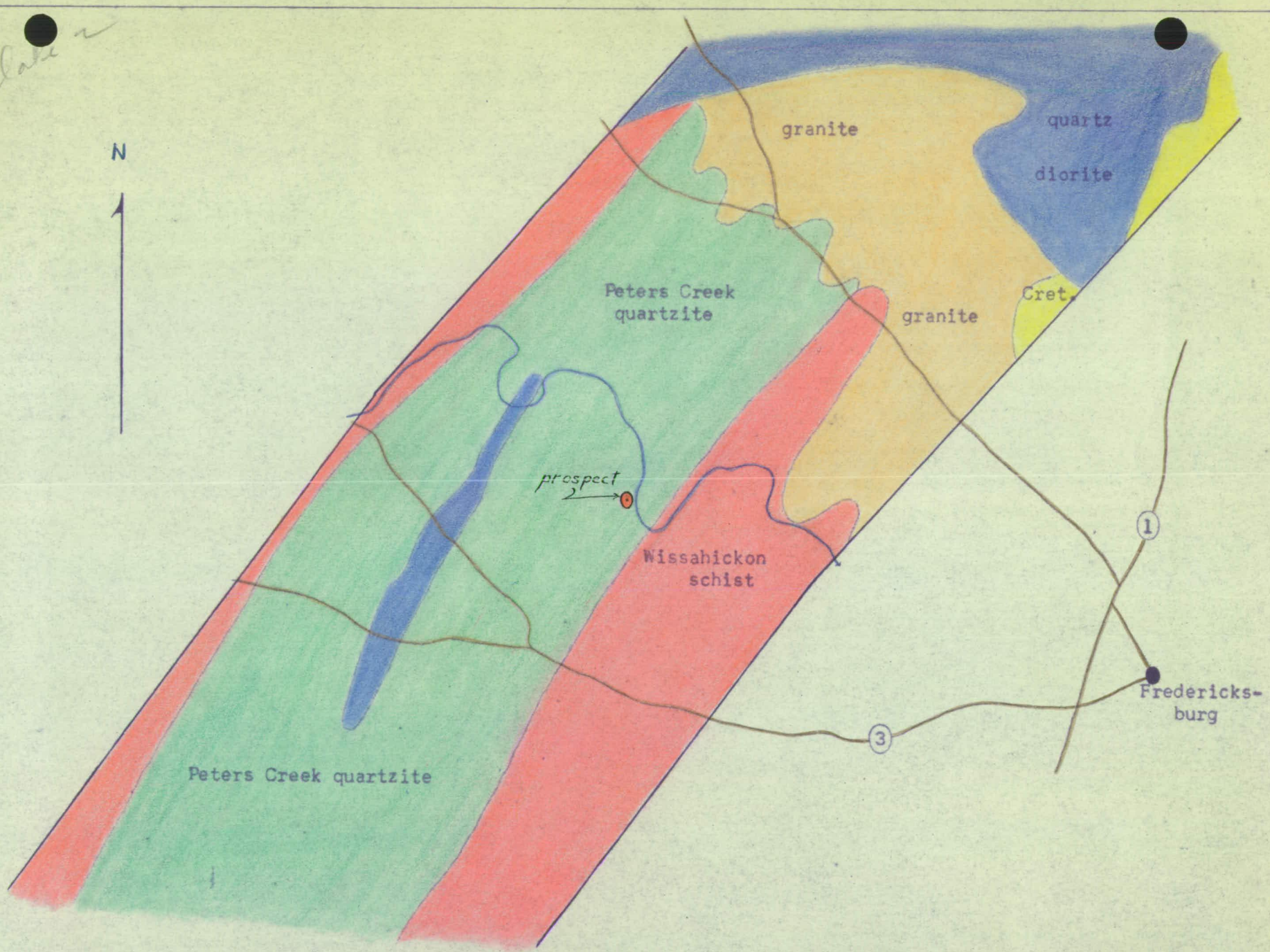


CROSS SECTIONS OF PROPOSED DRILL HOLES, PRUITT #4, SPOTSYLVANIA CO., VIRGINIA

scale: 1" = 100'

Roland F. Beers, Inc. Troy, N. Y.

Plate 2



GENERALIZED GEOLOGIC MAP COVERING PARTS OF SPOTSYLVANIA AND STAFFORD COUNTIES, VIRGINIA

Scale: 1 inch equals 2 miles

ROLAND F. BEERS, INC.

TROY, NEW YORK

5
V
2
28

OFFICIAL FILE COPY
DMEA
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DATE	INITIALS	CODE

MINING LEASE

from

JOHN E. PRUITT AND LOUISE PRUITT, HIS WIFE

SPOTSYLVANIA COUNTY, VA.

to

ROLAND F. BEERS, INC., TROY, NEW YORK

Date of Lease 27 MAY, 1957

No. of Acres SIX HUNDRED, MORE OR LESS.

County of SPOTSYLVANIA

State of VIRGINIA

Expiration of Definite Term FIVE YEARS

RECORDER'S DATA

Received for Record JUN 19 1957 19

Recorded JUN 19 1957 19

In Book 181 Page 180

Recorder

of Spotsylvania Co. Va.

PAID

CLERK'S OFFICE
SPOTSYLVANIA COUNTY

AGREEMENT made and entered into this ..... day of ..... MAY 27 ..... A. D., 19 57

by and between ... JOHN E. PRUITT AND LOUISE PRUITT, HIS WIFE

of Forest Hall Farm ..... County of SPOTSYLVANIA

and State of VIRGINIA ..... of the first part, hereinafter referred to as Lessor, and Roland F. Beers, Inc of Troy, New York, of the second part, hereinafter referred to as Lessee. WITNESSETH:

1. (LEASING CLAUSE) That Lessor, in consideration of the sum of One Dollar Cash in hand paid, the receipt of which is hereby acknowledged under the covenants conditions, and agreements hereinafter contained on the part of Lessee to be paid, kept and performed, does lease, let, and demise exclusively to Lessee, all and every prospecting and mining right and privilege in and upon the lands hereinafter described together with the privilege of erecting and installing any and all machinery and equipment necessary or convenient, for the sole purpose of prospecting, mining, processing and marketing of ores and minerals as found on this land alone or co-jointly with neighboring lands

The following described premises owned by Lessor and situated in ..... SPOTSYLVANIA County and State of VIRGINIA ..... bounded substantially by the following lands

NORTH .....

EAST .....

SOUTH ..... (SEE ATTACHED COPY FOR PROPERTY DESCRIPTION) .....

WEST .....

containing SIX HUNDRED (600) ..... acres more or less, reserving, however, three hundred (300) feet from the main buildings now on the premises, on which no mine shaft shall be placed by either party except by mutual consent.

2. (LESSOR'S COVENANTS) Lessor warrants and agrees to defend the title to the lands hereinbefore described and agrees that Lessee at its option may pay and discharge any taxes mortgages or other liens existing, levied or assessed on or against the above described lands and, in the event that it exercises such option it shall be subrogated to the rights of any holder or holders thereof and may reimburse itself by applying to the discharge of any such mortgage, tax, or other lien, any royalty or rentals accruing hereunder.

3. (TERM) This lease shall run for a period of five (5) years and so long thereafter as mining operations are performed or maintained on said leased premises unless terminated sooner as herein provided If Lessee has discovered an ore body on said leased premises at the time of expiration of said term Lessee may at its option, renew said lease for a similar term of years on the same terms and conditions as herein provided in which event Lessee shall give lessor written notice of its intension so to do on or before sixty (60) days prior to the expiration of said term. Upon the renewal of said lease all royalties advances or otherwise shall continue to be paid as though said lease had never been terminated

4 (MINING RIGHTS This lease conveys the surface land rights necessary for prospecting, developing and operating any mine or mines in said and, or operating mills on said land Lessee shall have right of ingress and egress, and right of way to and from any place where operations are carried on, and the public highway Ores mined from the leased premises may be milled and prepared for market thereon, or on other lands, separately or in connection with other ores, as Lessee may elect. Lessee however, shall use one roadway to and from any mine or mill on said land and shall keep all gates closed on such part of said premises as are used by it Lessee agrees that all of its operations on said premises shall be conducted in accordance with good and customary mining practices. Lessee shall have the privilege of raising ores from said land through shafts or inclines on other lands in the area, and the privilege of milling, cleaning or otherwise treating such ores in plants or mills located upon such lands. Lessee shall also have the privilege of raising ores mined from other land through shafts or inclines which Lessee has sunk or driven on the leased premises for the purpose of working same, and of milling, cleaning or otherwise treating such ores in mills or plants located upon the leased premises. The privileges referred to in the last preceding sentence shall survive the termination, by expiration or otherwise, of the lease. For any period after such termination during which Lessee is (a) raising, through a shaft driven on the demised premises ores exclusively from other lands in which Lessor has no interest, or (b) milling, cleaning or otherwise treating on the demised premises, ores exclusively from such other lands, or (c) doing both (a) and (b), Lessee shall pay Lessor five hundred (500) dollars per year. The right to use underground inclines or exploration openings existing in the leased premises at the termination of this lease shall also survive such termination for so long as the use of any of the same may be necessary or convenient for any mining purpose connected with this or any other property.

During the term of this contract all rock waste and jig tailings resulting from the operation of any mines located on said premises may be sold by Lessee, and Lessee shall pay to Lessor fifty (50) per cent of the net sales price. [illegible] Lessee's judgment and decision as to all matters pertaining to [illegible] shall be final and binding In case of forfeiture or surrender of this lease all tailings and [illegible] said, or remaining on the leased premises, if not sold and removed within two (2) [illegible] the

property of the Lessor, and Lessee waives all rights thereto and shall be released and relieved from all further obligations or liabilities hereunder.

Should Lessee erect a mill on the leased premises, it agrees to pay Lessor the reasonable annual value of the portion of the surface of the premises required for such mill site, and the necessary storage facilities for rock and tailings. If such value cannot be agreed upon by the parties, it shall be submitted for arbitration as hereinafter provided. Such mill and storage facilities may be established before arbitration, and payment shall be made promptly after such arbitration is concluded. Upon payment, Lessor shall grant to Lessee, by instrument in writing independent of this lease, the exclusive right, privilege and license to use the mill site and storage facilities for milling, beneficiating, stamping and storing ores, concentrates, minerals, metals, pertinent in connection with mining [illegible] so long as Lessee shall deem necessary.

Anything hereinbefore to the contrary notwithstanding, Lessee shall have the right to remove any of its property used in connection with the exercise of the rights and privileges referred to in the preceding sentences of this paragraph within six (6) months after tendering a release of the same.

5. (DAMAGES) Lessee shall cover and case all prospect holes and shall pay all damage to growing crops or timber. Should any regularly used water supply on the premises be drained by mining operations carried on by Lessee, the Lessee agrees to furnish Lessor with a new water supply equal to the existing water supply before mining operations were carried on.

6. (ADVANCED ROYALTIES AND WORK REQUIREMENTS) Lessee, except as herein otherwise provided, each year during the life of this agreement beginning MAY 27, 19 57, (hereinafter referred to as "work year") shall:

A. Perform mining operations conducted in good and miner-like manner and in conformity with proper practice.

~~(X) Expend by means of the [illegible] mining method, X~~

~~(X) Process, beneficiate or mine (X) [illegible] or [illegible] operated [illegible] present [illegible] by [illegible] and [illegible].~~

B. Pay the sum of fifty (50) cents per acre per year on or before the expiration of any work year during which Lessee has not performed ~~[illegible]~~ A. ~~[illegible]~~ Such payment to be considered advance royalty against subsequent royalties provided if Lessee terminates this lease prior to the expiration of any work year Lessee shall pay Lessor on a pro rata basis for those months during such work year that this lease was in force and effect. After the first four work years of this lease the Lessee will pay to the Lessor ten (10) dollars an acre in lieu of required mining work referred to in (A) above during any work year, payable at the end thereof as advance royalty applicable against subsequent royalties.

~~SUSPENSION OF WORK ON LOW MARKET~~ In the event of a drop in the market price of Zinc or Copper as quoted in the Engineering and Mining Journal to less than twelve (12) cents per pound for Zinc and forty (40) cents per pound for Copper the Lessee may suspend all operations until the quoted prices are again equal to at least twelve (12) cents per pound for Zinc and forty (40) cents per pound for Copper, and that during such period this lease shall remain in effect. ~~[illegible]~~ The suspension of such work shall not exceed a period of four (4) years at any one time.

8. (ROYALTIES) Lessee will pay to Lessor a royalty of ~~[illegible]~~ SIX (6) per cent of the market value of such sulfide and metallic concentrates from ores mined and marketed from the leased premises. "Concentrates" for the purposes hereof, means the salable Zinc, Lead, Copper, Nickel, Cobalt, Iron, Sulfides, Gold, and Silver economically recoverable, as determined above at the mill or concentrating plant where treated. "Market value" for the purposes hereof when used with respect to the sulfide minerals listed above, means the price established f.o.b. cars at the mill by responsible buyers of concentrates of a similar grade and kind produced from ores mined and milled in said district and prevailing at the time the ores are delivered to the mill for treatment.

9. (ROYALTY PAYMENTS) Royalty payments shall be made by the Lessee on or before the last day of each calendar month for all ores delivered at the mill during the preceding calendar month. Royalty or other payments under this agreement shall be paid (a) to Lessor at address given in Par. 13 or (b) as Lessor may in writing designate.

10. (RECORDS AND REPORTS) Lessee agrees to keep an accurate record of all ores mined from the leased premises and of all calculations relative to royalty payments hereunder. Said records may be inspected by Lessor at all reasonable times. Lessee will make available for Lessor's inspection, at all reasonable times during the term of this lease, information as to the location and footage of each hole drilled on said land. At the termination Lessee will furnish a factual record of any holes drilled on the land together with a map showing the location of such holes.

11. (FORFEITURE) In case of failure of Lessee to keep and perform the terms and obligations of this lease, Lessor may give thirty (30) days written notice of the breach or violation complained of, and if such violation or default is not removed, or as nearly corrected as possible, within said period, this lease shall thereupon terminate, provided, however, that no forfeiture shall be asserted where Lessee claims no breach or violation has occured or that the same has been removed or corrected as nearly as possible within the ninety (90) day period, in which event the same shall be submitted for arbitration in accordance with Paragraph 14 of this lease, provided further that no forfeiture shall be asserted based on cessation or delays in operations hereunder when occasioned by fire, war, riot, civil commotion, strikes, operations of law or interference by the Government or its agencies, acts of nature or other causes.

whether like or unlike those enumerated, beyond the control of Lessee. Upon forfeiture, Lessee shall account for and pay royalties accrued to the date of such termination.

12. **(SURRENDER)** Lessee may at any time surrender this lease by executing and tendering to Lessor a written release thereof, and from and after such tender Lessee shall be released and relieved from all further obligations and liability hereunder, with respect to or in any way connected with the above described premises or the exercise of Lessee's rights hereunder, except to account for and make payments accrued during the life hereof. Tender of such release may be made by delivery of same to Lessor in person, or to his agent or by recording in the office of the Clerk of the Court of the County in which the leased premises are located of such release and paying the recording fee.

13. **(NOTICES)** All notices herein provided to be given in writing shall unless otherwise provided, be mailed by registered mail to the address following until some other address is designated in a notice so given.

LESSORS ADDRESS: Forest Hall Farm, Rt. 1 Box 54 Fredericksburg Va.

14. **(ARBITRATION)** In the event the parties hereto can not mutually agree upon any matters arising out of this lease, the same shall be determined by arbitration: the Lessor to select one arbitrator, the Lessee to select one arbitrator and the two arbitrators so selected to select a third arbitrator. Such submission to arbitration shall be a condition precedent to action by either party hereto, in any court, and it is hereby expressly agreed between the parties hereto that such submission to arbitration may be entered of record in the court of proper jurisdiction. The determination by such arbitration shall be binding and conclusive on the parties hereto and may be entered up as the judgment or decree of such court. Expenses of the arbitration shall be borne by the parties equally.

15. **(ASSIGNABILITY)** This lease shall be binding upon and enure to the benefit of the respective parties hereto, and their personal representatives, successors and assigns.

16. **(ENTIRE CONTRACT)** It is agreed that the entire contract and agreement between Lessor and Lessee is embodied herein, and that no oral warranties, representations or promises have been made or relied upon by Lessor or Lessee supplementing, modifying or as an inducement to this Agreement.

THIS CONTRACT IS SUBJECT TO THE CONDITIONS SET FORTH IN THE ADDED PARAGRAPHS 17, 18, 19, and 20.

IN WITNESS WHEREOF, Lessor and Lessee have hereunto set their hands and seals the day and year first above written.

In the presence of:

John D. Bufins Jr.

LESSOR

John E. Pruitt (seal)
JOHN E. PRUITT

(seal)

Louise M. Pruitt (seal)
LOUISE PRUITT

(seal)

ROLAND F. BEERS, INC.

By Robert S. Young (seal)
ROBERT S. YOUNG, AGENT

STATE OF Virginia
~~COUNTY~~ City OF Fredericksburg

I, J. B. Wilson, a Notary Public at Large in and for the State ~~and County~~ aforesaid, do hereby certify that John E. Pruitt and his wife Louise M. Pruitt personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 5 day of June 1957

My Commission expires:
April 17, 1961

J. B. Wilson
Notary Public

Virginia: Office of the Clerk of the Circuit Court of Spotsylvania County, 19 JUNE 1957, this lease was received, and with certificate thereon, was duly recorded at 11:50 o'clock, A.M. and indexed.

The following described premises are owned by lessor and situated in Spotsylvania County, Virginia, more particularly described as follows:

PARCEL A

That certain tract of 235 acres, more or less, more fully described as Parcel 1 in the deed dated October 30, 1952, from Edward Boam, Jr., et al, to John E. Pruitt, recorded in Deed Book 162, page 60, in the Clerk's Office of the Circuit Court of Spotsylvania County, Virginia, LESS AND EXCEPT an area roughly square containing 35 acres around the dwelling house at Forrest Hall Farm and the burying ground.

PARCEL B

235 acres "A"
400 " "B"
635 acres

That certain tract of land containing 400 acres, more or less, bounded as follows: On the north by Garnett Washington and Northern Virginia Properties, Incorporated, (sometimes known as the land of McDurmott & Berry), on the east by Fitzhugh, on the south by Compton and the National Park roads, on the west by Pruitt, the western line dividing Pruitt's remaining lands from the lands herein leased, beginning at the most northernly Government Monument on the Park road and runs approximately N. 23 E. to Garnett Washington's corner; and being part of the lands conveyed to John E. Pruitt et al by John A. Jernigan et al, January 2, 1956, recorded in Deed Book 174, page 335, in the Clerk's Office of the Circuit Court of Spotsylvania County, Virginia.

The foregoing parcels are leased in the gross and not by the acre but for the purposes of computing the advanced royalty it is agreed that payment shall be made on 600 acres.

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DATE	INITIALS	CODE

ADDITION to LEASE, dated May 27, 1957, by and between JOHN E. PRUITT et al, Lessor, and ROLAND F. BEERS, INCORPORATED:

17- Lessor shall have an interest in any subsidy, bonus, premium, or other payment made by the United States Government, or any agency thereof, with respect to ores and minerals produced and mined from the premises, and royalty of six (6) per cent shall be paid to the lessor by the lessee on any such payment received by lessee.

18- If the premises, or a part thereof, are acquired by eminent domain before any ores or minerals are mined therefrom this lease and all of lessee's rights shall terminate and lessee shall have no right to any part of the proceeds resulting from such acquisition. If the premises or a part thereof are acquired by eminent domain after ores or minerals have been mined, lessee shall pay lessor six (6) percent of the proceeds received by lessee resulting from such acquisition whether such proceeds are obtained by award or settlement with the Government.

19- Nothing in this lease shall be construed to grant to the lessee the right to remove any other minerals than those specified in Paragraph 8, or to remove oil or gas.

20- The lessee covenants to deliver to the lessor on or before February 1, 1958, a detailed geophysic survey and written report thereon setting forth the lessee's information concerning minerals on the premises herein leased.

JEP

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DMEA
RECEIVED NOV 30 1957

DATE	INITIALS	CODE

DMEA [redacted] 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

PROJECT SUMMARY REPORT

By: J. W. Alt August 15, 1958

1. Docket No. DMEA-4886 (Copper-Zinc)
Contract No. Idm-E1177
Property: Pruitt #4 Prospect
Spotsylvania County, Virginia

Operator: Roland F. Beers, Incorporated
P. O. Box 1019
Troy, New York

Operator's Property Rights: Lessee
Mining Lease dated May 27, 1957
Surety Bond in lieu of Owner's Consent to Lien

2. Contract dated March 17, 1958. To complete - October 1, 1958.

Work Authorized

The purpose of the project is to explore for ores of zinc and copper by overburden drilling and diamond drilling, based upon prior geophysical and geochemical reconnaissance work.

Five holes shall be drilled and not more than 1,550 feet of drilling shall be performed.

Estimated Cost of the Project

Actual Costs

Category (1) Independent Contracts

Diamond Core Drilling		
NX drilling to collar hole in rock 50 feet @ $3.50/ft.	$ 175.00	
Overburden and rock drilling (not less than AX,) 1,500 feet @ $2.95/ft.	4,425.00	
Cementing & redrilling, 10 hours @ $7.50/hr.	75.00	
Delays not attribitable to drillers, 8 hours @ $6.50/hr.	52.00	
		$4,727.00
Mobilization & demobilization of drilling personnel and drilling equipment		300.00
		$5,027.00

Fixed Unit Costs

Incidental allowance for each foot of drilling completed, 1,550 feet @ $0.60/ft.	$ 930.00	
Core boxes (wooden), 48 @ $3/box	144.00	
20 samples assayed @ $6/sample	120.00	
		$1,194.00

Estimated Total Cost of the Project(rounded to	$6,222.00
Government Participation @ 50%	$3,111.00

Amendments

None

Work Completed

5 holes drilled, total amount of drilling, 1,550 feet at a cost of	$5,919.50

Drilling was started on April 8, 1958 and was completed on April 25, 1958.

3. Report of Review dated June 10, 1958.

Total cost as billed by Operator	$5,919.50
Exceptions	0.00
Total Accepted Cost	$5,919.50
Government Participation @ 50%	$2,959.75

Operator's final report dated April 28, 1958.
Field Team final report dated - no date - received July 29, 1958.

4. Certification date: No Certification was made as no ore was discovered.

5. Comments

The work under the terms of the contract was conducted in an efficient manner and the Operator's reports were well prepared.

Exploration consisted entirely of core drilling. A total of 1,550 feet was drilled in 5 holes and each hole was bottomed well beyond the electromagnetic conductor axis. Depth of overburden averaged 19 feet, below which each hole was drilled through approximately 70 feet of soft oxidized schist yielding low core recovery. Below this zone, core recovery was excellent.

Scattered sections of disseminated pyrite and pyrrhotite mineralization was found in all drill holes below overburden. Several of these sections contained an extimated maximum of 2 percent total sulphides. No copper minerals were identified and zinc was barely discernible in one short core section.

Further exploration with Government assistance is not warranted.

J. W. Alt

JWAlt/ss 8/15/58
Copy to: Docket
Chron.

DMEA Form 17
Feb. 58

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WORK COMPLETED ANALYSIS

After final audit or review report is received, prepare original only and file in official docket

Operator: ROLAND F. BEERS, INC.		Actual Cost	X
State: VIRGINIA		Agreed Unit Cost *	X
Final Report of Audit		Commodity: COPPER-ZINC	Docket No. DMEA-4,886
Final Report of Review	X		Contract No. Idm-#1,177

Operation	Authorized by Contract and Amendments		Completed		Net cost after sale of Government Property
	Units	Cost	Units	Cost	
Drifting & Crosscutting					
Overburden and Rock ~~XXXXXX~~ Drilling D.D. not less than AX	1,550'	$ 4,600.00	Overb. 84' Rock 1,466'	$ 247.80 4,324.70	$ 4,572.50
~~XXXXXX~~ Cementing and Redrilling	10 hrs. @ $7.5/hr.	75.00			
Delays not attrib- ~~XXXXXXX~~ utable to Drillers	8 hrs. @ $6.5/hr	52.00			
Drilling (Specify)					
Mobilization & Demobilization of ~~XXXXXXXXXXXXXXXXX~~ Equipment		300.00		300.00	300.00
Underground Excavation					
Incidental Allowance per foot ~~XXXXXXXXXXXXXXXX~~ drilled-- 1,550' @ $0.60/ft.	*	930.00	1,550'	930.00	930.00
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Core Boxes(wood) 48 @ $3.0 each ~~XXXXXXXXXXXXXXXXXXXXXXXXXX~~	*	144.00	39	117.00	117.00
New Building, Improvements, etc.					
20 samples assayed @ $6.0/sample		120.00			
Other (Specify)					
Totals		$6,222.00		$5,919.50	* $5,919.50

* Net cost total must agree with final report of audit or review.

Prepared by W. P. Klugescheid Date 2/10/59.

31398

☒ Audited 6/10/58. Report of Review — WORK ANALYSIS SHEET - DMEA PROJECT ☒ Actual Cost

☐ Certified — Analysis as of June 26, 1958 * ☒ Agreed Unit Costs

Incl. Voucher for April 1958.

Name ROLAND F. BEERS, INC. — Docket No. 4,886

State VIRGINIA — Commodity COPPER-ZINC — Idm-E No. 1,177

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting					
NX drilling to collar hole in rock	50' @ $3.50/ft.	$ 175.00			
Overburden and rock drilling (not less than AX)	1,500' @ $2.95/ft.	4,425.00	Overburden 84' (BX) Rock 1,466' (BX)	247.80 4,324.70	$4,572.50
Cementing & Redrilling	10 hrs. @ $7.50/hr.	75.00			
Drilling (Specify) Delays not attrib. to drillers	8 hrs. @ $6.50/hr.	52.00			
Mobilization and Demobilization of Equipment		300.00		300.00	300.00
Underground Excavation					
Incidental Allowance per foot drilled 1,550' @ $0.60/ft. *		930.00	1550'	930.00	930.00
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Core Boxes (wood) 48 @ $3.00 each *		144.00	39	117.00	117.00
New Building, Improvements, etc.					
Other (Specify) 20 samples assayed @ $6.00/sample.		120.00			
Rounded to Totals		$ 6,222.00		$5,919.50	$5,919.50

Checks Report of Review

Date of Contract--March 17, 1958.
Expiration date--October 1, 1958.
Expiration date of Royalty Payments March 17, 1968
Work was completed--April 25, 1958.
Operator's Final Report received May 22, 1958.
Field Team Final Report received July 23, 1958. No Certification recommended.

Prepared by [signature]

Terminal Letter written--August 12, 1958.
Project Summary Report written.
Further exploration not warranted. No certification made. No mineral worthy of analysis was discovered.

7162

Actual Costs

Diamond Drilling

NX drilling to collar hole in rock.
50' @ $3.50/ft — $175.00

Overburden rock drilling (AX)
1,500' @ $2.95/ft — 4,425.00

EX size @ $2.70/ft.

Cementing & Redrilling 10 hrs @ $7.50/hr. — 75.00

Delays not attributable to drillers
8 hrs @ $6.50/hr. — 52.00

Mob. & Demobilization — 300.00

Fixed Unit Costs.

Incidental allowance 1,550' @ $0.60/ft. — 930.00

Core Boxes (Wood) 48 @ $3.00 ea — 144.00

20 Samples @ $6.00/sample — 120.00

Rounded to $ 6,222.00

Spent April 1958.

Mobilization + Demobilization	300.00
Overburden Drilling 84' @ $2.95/ft	247.80
Core Drilling 1,466' @ $2.95/ft.	4,324.70
Core Boxes 39 @ $3.00 ea	117.00
Incidental Allowance 1550' @ $0.60/ft.	930.00
	$5,919.50

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8/11	Klugerchard	500
8/11	Forrest	500
8/12	Chamberlin	800
8/12	Selfridge	120
"	Johnson	110
"	Mittendorf	100
8/13	J.J.D.	220
8/13	dl	500

AUG 12 1958

Mr. E. J. Foley, Superintendent
Surety Department
Hartford Accident and Indemnity Company
Hartford 15, Connecticut

Re: Docket No. DMEA-4886 (Copper-Zinc)
Roland F. Beers, Inc.
Pruitt #4 Prospect
Spotsylvania County, Virginia
Contract No. Idm-E1177
Bond No. 3090949

Dear Mr. Foley:

We refer to your letter to Mr. V. J. Lynch, Acting Executive Officer, DMEA Field Team, Region V, dated July 16, 1958.

We are enclosing a copy of a self-explanatory letter of today to the Operator under the above-cited contract.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

WRG/dl 8/11/58
cc to: Docket
Admr. R. File
Oper. Comm.
FT. REG. V
Mr. McMahon, USBM
Mr. Killsgaard, USGS
Chron.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/31	Klugescheid	500
7/31	Irwin	500
	Rollin	140
	Sawyer	800
8/5	Stafford	120
		110
		100
8-5	Thomlin	800

Mr. E. J. Foley, Superintendent
Surety Department
Hartford Accident and Indemnity Company
Hartford 15, Connecticut

R.

INTERIOR DEPT.
AUG 1 - 1958
SOLICITOR

Re: Docket No. DMEA-4886 (Copper - Zinc)
Roland F. Beers, Inc.
Pruitt #4 Prospect
Spotsylvania County, Virginia
Contract No. Idm-E1177
Bond No. 3090949

Dear Mr. Foley:

We refer to your letter to Mr. V. J. Lynch, Acting Executive Officer, DMEA Field Team, Region V, dated July 16, 1958.

We have not as yet received the final reports concerning this project even though the work of the contract has been completed. It is necessary therefore that the Performance Bond remain in effect until final dispositions have been made.

Sincerely yours,

Administrator

WPKlugescheid/dl 7-31-58
cc to: Docket
Admr. R. File
Oper. Comm.
FT. REG. V
Mr. McMahon, USBM
Mr. Killsgaard, USGS
Chron.

RECEIVED
AUG - 1 1958
ASSOC. SOLICITOR
MINERAL RESOURCES

8623

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

August 7, 1958

Memorandum for the Files

From: W. P. Klugescheid, Division of Base Metals

Subject: Justification for terminating Performance Bond
Docket No. DMEA-4886 (copper-Zinc)
Roland F. Beers, Inc.,
Pruitt #4 Prospect,
Spotsylvania County, Virginia
Contract No. Idm-E1177
Bond No. 3090949

No mineral worthy of analysis was discovered. The Field Team Final Report does not recommend Certification of Discovery. We agree with the recommendation of the Field Team.

No mining is possible and no mine openings exist on this property.

W. P. Klugescheid

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

4/29	C	220
		500

July 28, 1958

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of Field Teams Final Report, Docket No. DMEA 4886 (copper-zinc), Roland F. Beers, Inc., Pruitt No. 4 Prospect, Spotsylvania County, Virginia, Contract No. Idm-E1177.

Under the subject contract 1550 feet of drilling was completed in five holes to verify results obtained by the operator in geophysical and geochemical surveys. Some disseminated pyrite and pyrrhotite mineralization was found in all drill holes below overburden but no copper minerals were found and zinc was barely discernible in one short cave section. Accordingly, the Field Team recommends that no certificate of discovery be issued.

I concur in that recommendation.

A. D. McMahon

A. D. McMahon

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
F i l e s

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DMEA
RECEIVED JUL 23 1958

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FIELD TEAM FINAL REPORT ON COMPLETED CONTRACT

DMEA 4886 (Copper, Zinc) Contract Idm-E 1177
Roland F. Beers, Inc., P.O. Box 1019, Troy, N.Y.
Pruitt No. 4 Prospect, Spotsylvania County, Va.

INTRODUCTION

In November, 1957, the Operator applied for DMEA assistance in exploring for copper and zinc in Spotsylvania County, Virginia. The exploration area lies approximately 6 miles N 65° W of the junction of U. S. Route 1 and State Route 3 in Fredricksburg, Virginia.

The exploration area consisted of a 235 acre portion of a 635 acre lease held by the Operator from the owners, John E. and Louise M. Pruitt. Exploration was based largely on results obtained by the Operator in self-potential, electromagnetic and geochemical surveys, although several gossanous outcrops are present. A total of 1550 feet of core drilling was completed in 5 holes.

RECOMMENDATIONS

Scattered sections of disseminated pyrite and pyrrhotite mineralization was? found in all drill holes below overburden. Several of these sections contained an estimated maximum of 2 percent total sulphides. No copper minerals were identified and zinc was barely discernible in one short core section.

It is believed that further exploration either privately or with Government assistance is not warranted.

Reviewed by
DMEA OPERATING COMMITTEE
7/29/58
(date)

FIELD TEAM FINAL REPORT.

Based on the fact that mineralization was found only in insignificant quantity; it is recommended that no certificate of discovery be issued.

GEOLOGY AND ORE DEPOSITS

The applicant's property is in the Piedmont physiographic province of Virginia. The terrain in the vicinity consists of low rolling hills locally dissected by recent, dendritic stream patterns.

The property is located within a gold-ore belt that extends from Montgomery County, Maryland across Virginia in a southwestward direction to the North Carolina line. The belt varies in width from 15 to 25 miles, is 200 miles long, and covers an area of some 4,000 square miles. In the vicinity of the Pruitt property, the belt appears to reach its widest development.

The principal rocks of the Virginia gold belt are micaceous schists and gneisses, in many places garnetiferous and chloritic, and in places hornblendic. They include both altered sediments and igneous masses. The property itself appears to be underlain by a series of Precambrian kyanite-sillimanite metasediments and Paleozoic? granitic intrusives. The older rocks at higher elevations are overlain by Cretaceous gravel and clay. The prevailing strike of the rocks is N. 20° to 30° E., and the dip is steep to the southeast (82°-88°). The DMEA drilling showed that there is an average of about 20 feet of overburden on the property.

The gold and sulphide-bearing veins are chiefly quartz, which range in texture from large crystalline masses to very fine saccharoidal grains. In structure, they vary from massive to thin platy or schistose bodies, both usually penetrated by closely spaced irregular fractures. Within the weathered zone the quartz is porous and stained with iron oxide. Below water level the veins are fresh, and the sulphides are unaltered.

Although the veins generally conform to the structure, strike, and dip of the enclosing rocks, they frequently cut the schists at small angles both in dip and strike. This evidence appears to indicate that the emplacement of the veins post-dates the schistose structure of the enclosing rocks. The vein structure is irregular lenticular, varying in width from a few inches to a few feet. The lenticular stringers are often discontinuous. Some of the veins are remarkable for their persistence and continuity.

Ore minerals in the veins are chalcopyrite, galena, sphalerite, native copper, and auriferous pyrite. Gangue minerals are quartz, pyrite, pyrrhotite, and siderite.

The property is covered with surface material and overburden. Gossanous float may be found at some places, especially in and around four small, shallow prospect pits.

All the five drill holes penetrated chlorite-garnet schist, sericite schist, graphite sericite schist, graphitic sericite schist, and graphite schist. Massive sulfides were not penetrated.

It now seems likely that the electromagnetic anomaly

on the property, which formed much of the basis for the drilling at the outset, is caused at least in part by the presence of disseminated graphite in the schist.

Sulfide minerals were found in the core as minute fracture fillings and as interstitial material along schistosity planes. There are no calculable ore deposits on the property.

WORK COMPLETED

Exploration consisted entirely of core drilling. Drilling started on April 8 and was completed on April 25, 1958.

A total of 1550 feet was drilled in 5 holes and each hole was bottomed well beyond the electromagnetic conductor axis. Depth of overburden averaged 19 feet, below which each hole was drilled through approximately 70 feet of soft oxidized schist yielding low core recovery. Below this zone, core recovery was excellent.

Below overburden, all drilling was done with BX wireline equipment. Data on a total of 700 feet of drilling in 3 holes indicated an average advance of 50 feet per shift, exclusive of time spent in moving.

Holes No. 1 and No. 3 were collared at slightly different locations than those indicated in the contract. Hole No. 1 was collared 20 feet northeasterly along the line of the electromagnetic axis and hole No. 3 was collared 30 feet southwesterly on the line of axis. These changes were made to avoid anticipated poor drilling conditions near creek beds. (Fig. 2)

EXPENDITURES

Total approved	$ 6,222.00
Total cost of project	5,919.50
Government's share of cost at 50%	2,959.75
Government's share unexpended	151.25
Value of production during operation	NONE
Government royalty	NONE

EFFICIENCY OF OPERATIONS

Both the Operator and the drilling contractor are to be commended upon the efficient manner in which the work in the field was conducted. It is also noted that the Operator's reports were in good order.

EQUIPMENT PURCHASED

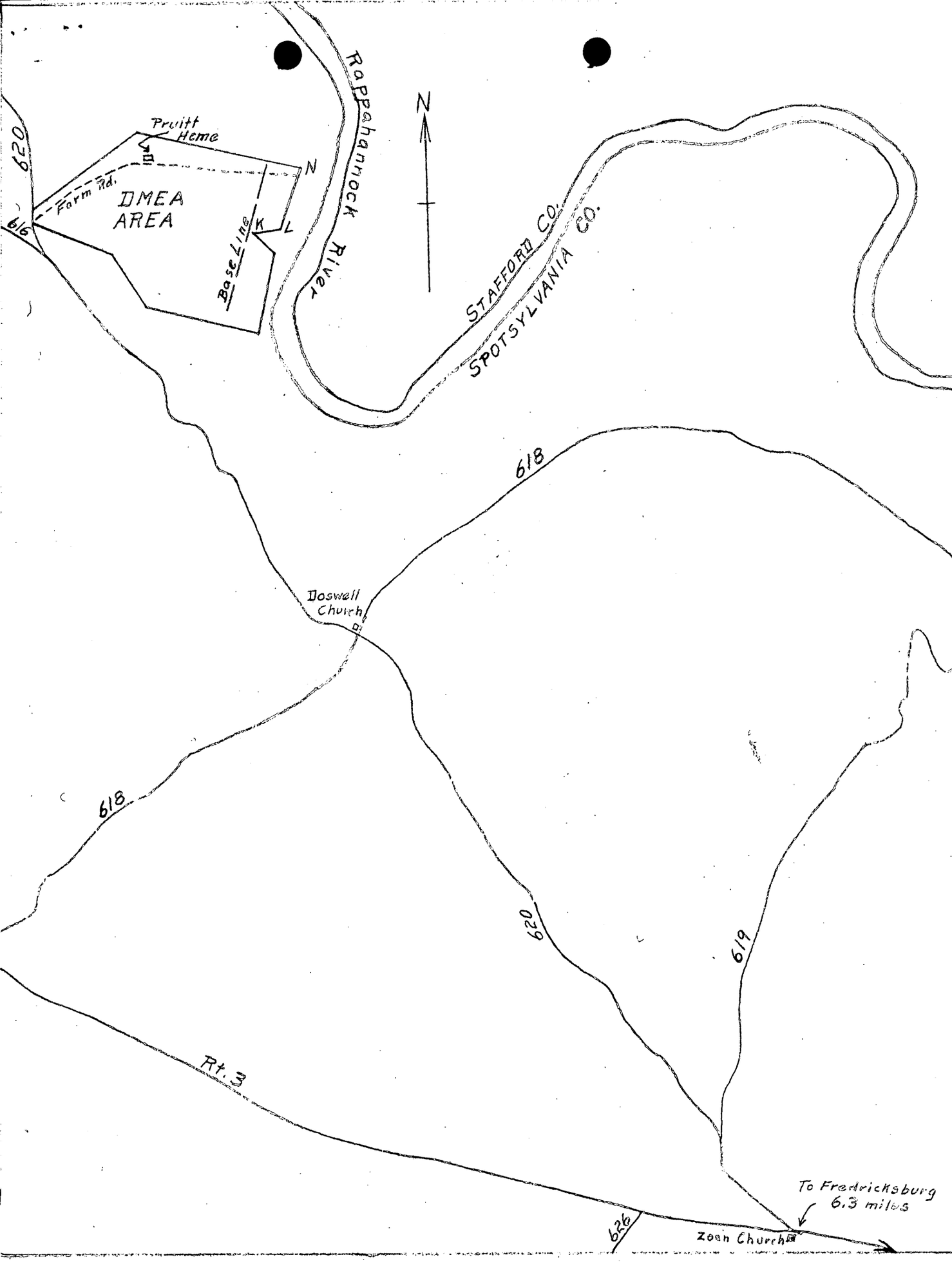
No equipment was purchased for this project.

H. L. Burmeister

H. L. Burmeister
U. S. Bureau of Mines

W. P. Williams

W. P. Williams
U. S. Geological Survey



DMEA-4886

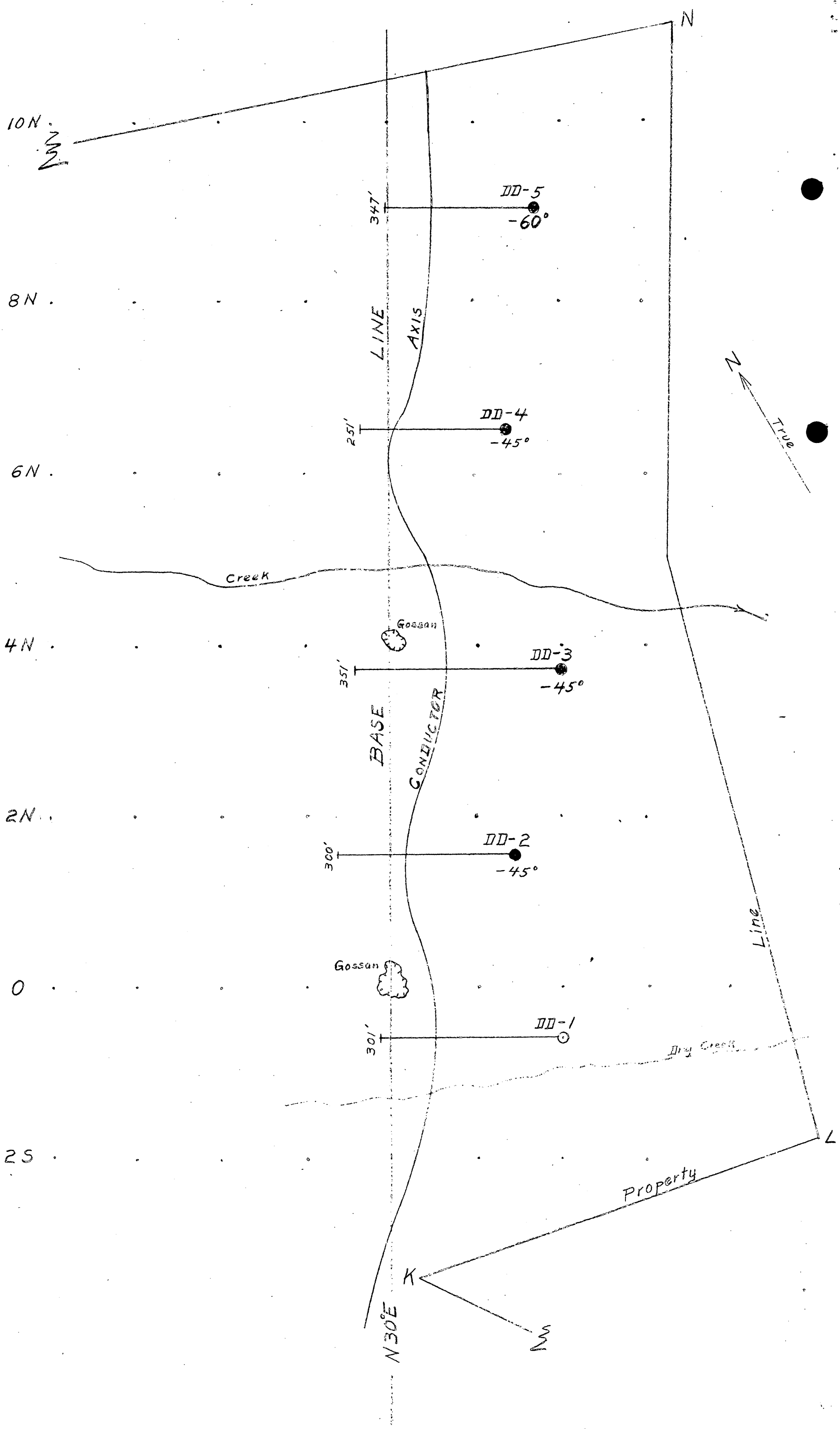
ROLAND F. BEERS, INC.

Pruitt Prospect, Spotsylvania Co., Va.

After U.S. Army Map – Salem Church, Va.

0 ½ 1
miles

FIG. 1



DMEA-4886

ROLAND F. BEERS, INC.

Pruitt Prospect, Spotsylvania Co. Va.

FIG.-2

0 inches 1
0 feet 100

June 1951

RECEIVED
JUL 18 1953
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

YEAR IN AND YEAR OUT YOU'LL DO WELL WITH THE HARTFORD

J. C. HULLETT
CHAIRMAN OF FINANCE COMMITTEE

WILSON C. JAINSEN
PRESIDENT

HARTFORD ACCIDENT AND INDEMNITY COMPANY

HOME OFFICE—HARTFORD 15, CONNECTICUT

July 16, 1958

NATIONAL FILE COPY
DMEA
RECEIVED JUL 23 1958

DATE	INITIALS	CODE
7/23	C	220
		500

E1177

Mr. V. J. Lynch
Acting Executive Officer, DMEA
Region V
Department of the Interior
Defense Minerals Exploration Administration
Room 13 Post Office Building
Knoxville 2, Tennessee

Dear Sir:

Re: Bond No. 3090949 - Roland F. Beers, Inc.

Roland F. Beers, Inc., informs us their contract dated March 17, 1958, in the amount of $3,111.00 with Defense Minerals Exploration, Inc., has terminated, since no minerals were discovered. This Contract bears DMEA Docket No. 4886 and covers work on Pruitt #4 Prospect in the State of Virginia. Will you please confirm that the contract covered by our bond has been terminated.

Very truly yours,

E. J. Foley
Superintendent
Surety Department

EJF:GM

RECEIVED
JUL 18 1958
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

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

July 15, 1958

7/17 21.g. 225
7/17 800
7/18 500 500

Memorandum

To: Operating Committee, DMEA - Washington

From: Acting Executive Officer, DMEA - Region V -

Subject: Letters requesting information concerning completed DMEA contracts - DMEA-4750 and DMEA-4886.

Enclosed are copies of letters from Reynolds Metals Company and (Harford Acc. & Ind. Company) Roland F. Beers, Incorporated, requesting information, and our reply to each letter.

As neither project has been recommended for certification, we assume that both companies will be notified in the usual manner by letter from the Administrator.

V. J. Lynch, Acting

VJL/am
cc
Opr. Com.-2
Lynch
Burmeister
Files

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

July 15, 1958

Mr. Robert A. Mitchell
Surety Department
Hartford Accident & Indemnity Co.
Hartford 15, Connecticut

Re: DMEA-4886, copper-zinc
Pruitt No.4 Prospect
Roland F. Beers, Inc.
Spotsylvania County, Va.
Contract Idm-E1177

Dear Mr. Mitchell:

Your letter of July 10, concerning termination of the subject contract has been referred to our Washington office for consideration and reply. You may expect to hear directly from the Washington office relative to your request.

Very truly yours,

V. J. Lynch, Acting
Executive Officer, DMEA
Region V.

VJL/zm
cc
Lynch
Burmeister
Opr. Com.-2
Files

J. C. HELLER
CHAIRMAN OF FINANCE COMMITTEE

WILSON C. FAIRCLEN
PRESIDENT

HARTFORD ACCIDENT AND INDEMNITY COMPANY

HOME OFFICE — HARTFORD 15, CONNECTICUT

July 10, 1958

RECEIVED JUL 17 1958

DATE	INITIALS	CODE

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
United States Department of the Interior
Defense Minerals Exploration Administration
Knoxville 2, Tennessee

Dear Mr. Laurence:

Re: Bond No. 3090949 - Roland F. Beers, Inc. -
Favor: United States Department of the Interior,
Defense Minerals Exploration Administration -

Your Ref. DMEA Docket Number 4886 Pruitt #4 Prospect
in State of Virginia

We wrote the captioned $3,111.00 bond effective March 17, 1958, and have now been informally advised that the contract covered by this bond was terminated and that our bond may be considered terminated.

Please be kind enough to substantiate this information so that we may close our files.

Very truly yours,

Robert A. Mitchell

Robert A. Mitchell
Surety Department

RAM:GM

RECEIVED
JUL 14 1958
U. S. Geological Survey

YEAR IN AND YEAR OUT YOU'LL DO WELL WITH THE HARTFORD

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/11	Talbert	800
6/11	C	220
6/12	[illegible]	500

JUN 11 1958

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
Room 13, Post Office Building
Knoxville 2, Tennessee

Re: Docket No. DMEA-4886 (Copper-Zinc)
Roland F. Beers, Inc.
Pruitt No. 4 Prospect
Spotsylvania County, Virginia
Contract No. Idm-E1177

Dear Mr. Laurence:

The original and three copies of the Report of Review in lieu of a final audit, as requested by your memorandum of May 20, are enclosed.

If you concur with the facts as stated therein, the original and one copy should be submitted to the regional finance officer, one copy should be forwarded to the Operator, and one copy should be retained in your files. If for any reason you do not concur, please return all copies with your comments to this Division.

The April 1958 MF-104 and attachments are being returned to Mrs. Miller with a copy of this letter.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Director
Contract Administration
and Audit Division

Enclosures

EDTalbert/ama
June 11, 1958

Copy to: Docket
Admr. Reading File
Helen R. Miller w/104 and attachments
Mr. Chambers

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/5	Talbert	800
6/6	C	220
6/6	Berg	500

JUN 5 1958

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
Room 13, Post Office Building
Knoxville 2, Tennessee

Re: Docket No. DMEA-4886 (Copper-Zinc)
Roland F. Beers, Inc.
Pruitt Prospect
Spotsylvania County, Virginia
Contract No. Idm-E1177

Dear Mr. Laurence:

An Operating Committee copy of your May 20, 1958, memorandum requesting a report of review on the referenced project has come to my attention. The original of the memorandum, however, has not been received.

Promptly upon receipt of the original (or a copy, if the original has been lost) MF-104, together with copies of the driller's invoices, this Division will perform the requested review.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Director
Contract Administration
and Audit Division

EDTalbert/ama
June 5, 1958

Copy to: Docket
Admr. Reading File
Mr. Chambers
Mr. Talbert
Helen R. Miller

8623

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

May 20, 1958

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V - Knoxville, Tennessee

Subject: Operator's Final Report - DMEA-4886, Idm-E1177-copper-zinc. Roland F. Beers, Inc. Spotsylvania County, Virginia, Pruitt #4 Prospect

Transmitted are three copies of the subject final report. This project was completed as of April 26, 1958.

Robert A. Laurence
Robert A. Laurence
Executive Officer, DMEA
Region V

V. J. Lynch
V. J. Lynch, Member
Bureau of Mines

Assume mined in field May 15, 1958
critical date
May 15, 1958.
F.T.
Certify?
No values

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 22 1958
DATE | INITIAL | REMARKS

FINAL REPORT
May, 1958

PRUITT #4 PROSPECT
Spotsylvania County, Virginia

Roland F. Beers, Inc.
Docket No. DMEA 4886
Contract No. Idm-E 1177

FINAL REPORT

Pruitt #4 Prospect

Roland F. Beers, Inc.

Docket No. DMEA 4886

Contract No. Idm-E 1177

-Introduction-

On April 25, 1958 the drilling program of 1550 feet was completed on the Pruitt #4, Virginia, prospect under the conditions of DMEA Contract No. Idm-E 1177. This drilling program began on April 8, 1958. As the entire drilling period was less than one calender month and no assays are required, this report constitutes both monthly and final reports.

For geological and geophysical background data reference should be made to the original application. The data upon which the application was based were verified through contract drilling.

A brief discussion of the stratigraphy and mineralization disclosed by drilling and drill logs (including sections) follow in this report.

-Drilling Data-

Five diamond drill holes were completed on the Pruitt #4 prospect, all of which were cooperative. The locations of these drill holes are shown on the Drill Hole Location Map.

The following table summarizes the physical aspects of each drill hole:

Drill Hole #1:

Location: 0.6S + 2E
Total depth: 301 feet
Inclination: -45°
Core size: BXC: 0-20 feet
BXWL: 20-301 feet
Cooperative drilling: 301 feet
Corporation drilling: 0
No. of assays: 0

Drill Hole #2:

Location: 1.5N + 1.5E
Total depth: 300 feet
Inclination: -45°
Core size: BXC: 0-22 feet
BXWL: 22-300 feet
Cooperative drilling: 300 feet
Corporation drilling: 0
No. of assays: 0

Drill Hole #3:

Location: 3.7N + 2E
Total depth: 351 feet
Inclination: -45°
Core size: BXC: 0-10 feet
BXWL: 10-351 feet
Cooperative drilling: 351 feet
Corporation drilling: 0
No. of assays: 0

Drill Hole #4:

Location: 6.5N + 1.4E
Total depth: 251 feet
Inclination: -45°
Core size: BXC: 0-20 feet
BXWL: 20-251 feet
Cooperative drilling: 251 feet
Corporation drilling: 0
No. of assays: 0

Drill Hole #5:

Location: 9N + 1.7E
Total depth: 347 feet
Inclination: -60°
Core size: BXC: 0-20 feet
BXWL: 20-347 feet
Cooperative drilling: 347 feet
Corporation drilling: 0
No. of assays: 0

Stratigraphy & Mineralization

The five drill holes put down on the Pruitt #4 prospect are in metasedimentary rock series of the garnet-chlorite facies. No igneous rocks were encountered. Metasedimentary types include mica-chlorite-garnet schist, sericite schist, graphitic sericite schist, and graphite schist. These general stratigraphic units are continuous throughout the area covered by drilling.

Sulfide mineralization was encountered in all drill holes and consisted of pyrite and pyrrhotite with very minor amounts of chalcopyrite and sphalerite. No massive sulfides are present; thin fracture fillings and disseminated crystals being the general type of occurrence. At no place were the desirable basemetal sulfides concentrated to significant proportions. Total sulfides, although present throughout nearly all of the core, were concentrated in sericite schist and graphitic sericite schist. Certain sections of the mineralized sequence were slightly silicified. This feature along with sulfide fracture fillings causes the rock to present a rather distinctive banded appearance. Minor sulfides, generally pyrite, are present in nearly all of the numerous quartz veins and stringers.

One zone of structural distubrance, evidenced by moderate fracturing and contorted schist, was noted in the cores. These premineralization structures apparently exerted little influence toward localizing the sulfides, except in one instance. In DH-2 approximately 10 inches of semi-massive pyrite occurs with and in fractured quartz.

Surface indication of mineralization and the geophysical anomaly were verified by the drilling. Sulfides are present, in several places, in sufficient quantity to form the gossan exposed in the grid area. The self-potential anomaly is undoubtedly due to near-surface oxidation of the braod sulfide zone; the same process responsible for the gossan. The EM anomaly, or conductor axis, may be related to the graphite schist, the sulfides, or both. The latter possibility seems the most likely. The sulfides, although minor in quantity, occur as interconnected fracture fillings and continuous platelets along planes of schistosity. It is, however, doubtful that the sulfides would have presented a strong anomaly without the conducting aid of the graphitic material. The cause of the small magnetic high is not defined; it may be due to the mass effect of disseminated pyrrhotite or to finely divided magnetite in one of the stratigraphic units.

-Assay Data-

Drilling yielded no core sufficiently mineralized to justify assaying.

-Recommendation-

The Pruitt #4 prospect drilling program has been completed under the conditions of DMEA Contract No. Idm-E 1177. Drilling was concluded on the second shift April 25, 1958. The drilling proved that this prospect will not yield copper or zinc minerals of economic importance; it is therefore recommended that the contract be terminated at the convenience of the Government.

Respectfully submitted:

Robert S. Young

Robert S. Young, Br. Mgr.

Vernon R. Geyer

Vernon R. Geyer, Geologist

April 28, 1958
Roland F. Beers, Inc.
Box 3725, University Station
Charlottesville, Virginia

DRILL LOGS

Location: Pruitt #4 Angle: -45° Hole No. DH-1

Depth: 301' Deflection: not measured

Elevation: 196.7' Logged by: VRG

Footage	Description
0-20	overburden
20-91	partially weathered sericite-chlorite schist; silicified zone 58-61'; few scattered small garnets; 21' core loss.
91-118	sericite-chlorite schist; minor disseminated pyrite; 4' core loss.
118-151	graphitic sericite schist; very minor disseminated sulfides; core loss 9'.
151-191	fine-grained graphitic sericite schist; traces of pyrite; core loss 1'.
191-263	sericite-chlorite schist; total sulfides (pyrite and pyrrhotite) less than 2%; silicified bands; quartz at 215 and 234'.
263-272	graphitic sericite-chlorite schist; minor disseminated pyrite.
272-301	silicified fine-grained graphitic sericite-chlorite schist; very minor disseminated pyrite.
	TDA 301'

Location: Pruitt #4 Angle: -45° Hole No.: DH-2

Depth: 300' Deflection: not measured

Elevation: 206.4' Logged by: VRG

Footage	Description
0-22	overburden
22-40	heavily weathered sericite-chlorite schist; 12' core loss.
40-47	partially weathered sericite-chlorite-garnet schist (garnets small); 2' core loss.
47-87	sericite-chlorite schist; traces of sulfides; slightly biotitic; few small garnets; core loss 14'.
87-136	sericite schist; traces of graphite and sulfides; garnet zone 93-102; 11' core loss.
136-147	dark chlorite-sericite schist; sulfides less than 2%.
147-154	silicified sericite-chlorite schist; minor disseminated sulfides.
154-156	dark chlorite-sericite schist; less than 2% sulfides.
156-163	sericite-graphite schist containing minor amounts of pyrite.
163-177	partially silicified sericite-graphite schist; minor disseminated pyrite throughout section. 10" semi-massive pyrite-pyrrhotite at 176'.
177-189	chlorite-sericite schist; silicified bands; less than 2% total sulfides.
189-243	graphitic chlorite-sericite schist; silicified sections; minor disseminated pyrite; contorted zone 210-220'.
243-283	graphitic sericite schist; minor pyrite throughout section; quartz at 248, 249, 252, 259 and 263'; heaviest graphite 269-283'; 3' core loss.
283-300	sericite-chlorite schist; minor graphite and disseminated sulfides; quartz at 294' and 299'.
	TDA 300'

Location: Pruitt #4 Angle: -45° Hole No.: DH-3

Depth: 351' Deflection: not measured

Elevation: 187.95' Logged by: VRG

Footage	Description
0-20	overburden
20-61	partially weathered sericite-chlorite schist; garnet zone 54-57'; core loss 27'.
61-99	sericite-chlorite schist; garnet section 84-86'; quartz at 81'; core loss 10'.
99-160	silicified sericite schist; traces of graphite; weathered streak at 99'; quartz at 120' and 126'; core loss 9'.
160-162	quartz
162-184	silicified sericite schist; very minor disseminated pyrite; slightly graphitic throughout section; quartz at 183'.
184-243	silicified graphitic sericite schist; less than 2% total sulfides (pyrite and pyrrhotite); quartz at 211, 216, 221, 241 and 243'.
243-294	graphitic sericite schist; minor disseminated sulfides; quartz 247-249'; 262-269'; core loss 2'.
294-351	silicified sericite-graphite schist; minor disseminated sulfides; contorted zone 279-285'; quartz at 301, 315, 318, 321.5-322.5, 328 and 330'. Core loss 2'.
	TDA 351'

Location: Pruitt #4 Angle: 45° Hole No.: DH-4

Depth: 251' Deflection: not measured

Elevation: 188.95' Logged by: VRG

Footage	Description
0-12	overburden
12-31	weathered sericite schist; 13' core loss.
31-61	sericite-chlorite schist (slightly graphitic); garnet zone (31-25); quartz at 57'; 18' core loss.
61-75	sericite schist; traces of graphite and pyrite; 9' core loss.
75-125	graphitic sericite schist; minor disseminated sulfides; vein quartz 79-83'; core loss 6'.
125-131	graphite schist.
131-152	graphitic sericite schist.
152-163	sericite-chlorite schist; minor disseminated sulfides; 6" quartz at 162'.
163-195	silicified graphitic sericite schist; 2" semi-massive pyrite and zinc (?) at 169'; disseminated pyrite throughout section; quartz at 163, 165; 168-169' 75% quartz.
195-247	heavily silicified sericite-chlorite schist; disseminated pyrite and pyrrhotite less than 2%; contorted section 195-201'; traces of graphite.
247-251	very fine-grained graphite schist; minor disseminated pyrite.
	TDA 251'.

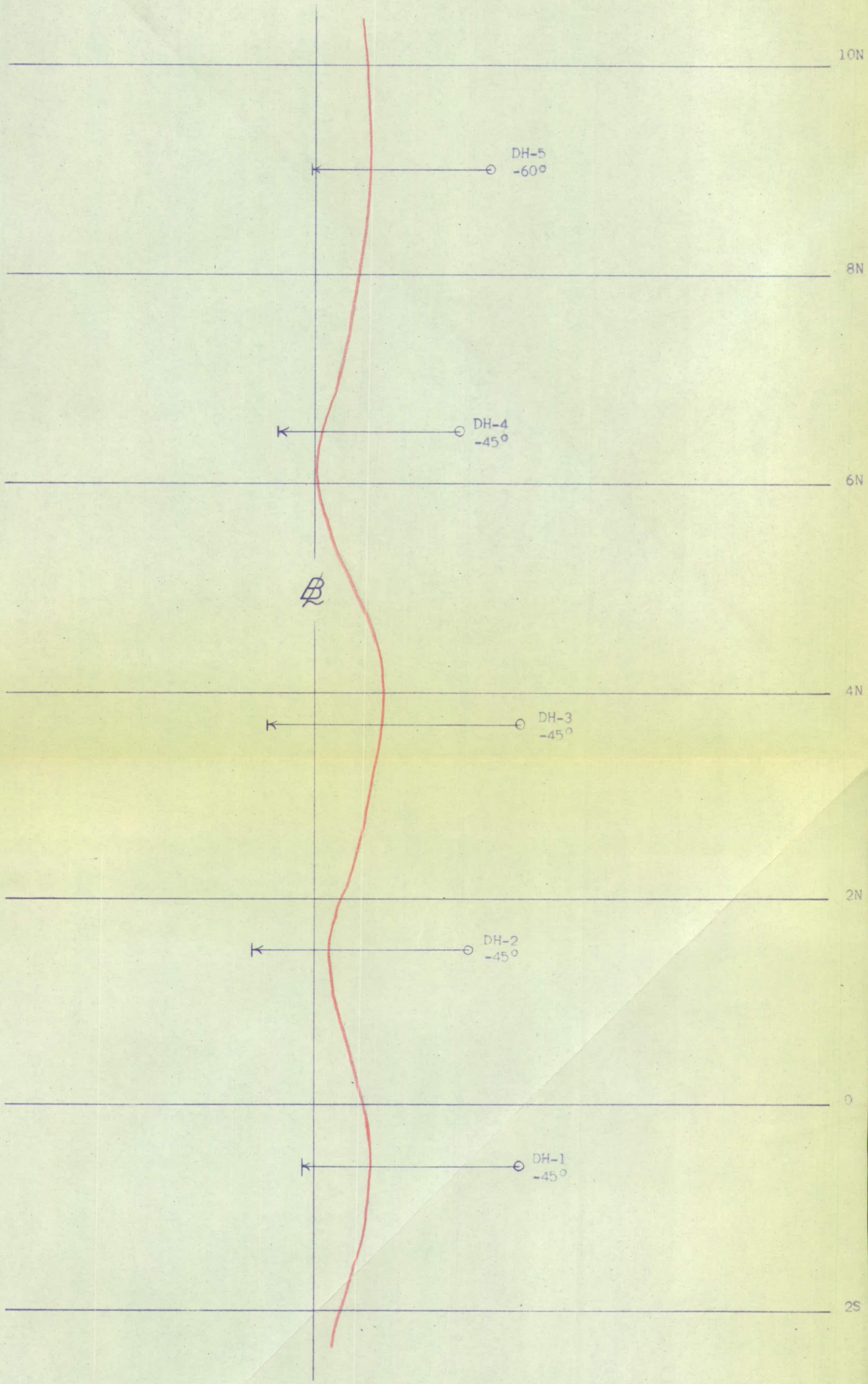
Location: Pruitt #4 Angle: -60° Hole No. DH-5

Depth: 347' Deflection: not measured

Elevation: 186.25' Logged by: VRG

Footage	Description
0-20	overburden
20-24	vein quartz;3.7' core loss
24-54	oxidized sericite schist; 18' core loss.
54-104	sericite-graphite schist; trace of pyrite; quartz at 95'. 28' core loss.
104-163	silicified sericite-graphite schist; minor disseminated pyrite; heavy pyrite and quartz 135-136'; core loss 9'.
163-195	graphitic sericite schist; 2" massive pyrite 186'.
195-208	graphite-sericite schist.
208-270	silicified graphitic sericite schist; finely disseminated pyrite. 22" recovery 244-248'; 6" of vein quartz at 260'; heaviest graphite 225-236'.
270-295	silicified sericite-graphite schist; less than 2% total sulfides; 2" semi-massive pyrite at 294'; contorted zone 285-295'.
295-311	sericite-graphite schist; minor disseminated pyrite 6" vein quartz at 308'.
311-339	graphite-sericite schist; disseminated sulfides; heavy pyrite at 318' (8"), 326', 328' (3"), 330' (2"), 333' (2"), and 340' (4").
339-347	silicified sericite-graphite schist; graphite schist 345-346'.

TDA 347'



EM conductor axis

scale: 1" = 100'

DRILL HOLE LOCATION MAP

PRUITT #4 GRID

Spotsylvania Co., Va.

ROLAND F. BEERS, INC.-DMEA 4886

DMEA

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

May 20, 1958

Memorandum

To: Jay L. Chambers, Director Contract Administration and Audit Division - DMEA

From: Executive Officer, DMEA - Region V - Knoxville, Tenn.

Subject: Completion of DMEA-4886, Idm-E1177 (copper-zinc) Roland F. Beers, Inc. Pruitt #4 Prospect, Spotsylvania County, Virginia

Work on the subject contract has been completed as of April 25, 1958.

The following units of work have been acceptably performed as verified by our Field Examiners:

1. Overburden drilling amount to 84 ft., all of which was BX.

2. A total of 1466 ft of core drilling, size BX, was completed.

3. Thirty-nine (39) core boxes were used.

An adequate engineering and geological report has been received. A report of review is requested.

Final voucher (MF-104) is enclosed for your use.

Robert A. Laurence

VJL/am
cc
Lynch
Burmeister
Files
Cpr. Con.-2

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

April 9, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED APR 11 1958
DATE | CODE
4/11 | 226
4/15 | 215

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V - Knoxville, Tennessee

Subject: Signed Contract - DMEA-4886, Idm-E1177-copper-zinc.
Roland F. Beers, Inc., a New York Corporation
Pruitt Mine #4, Spotsylvania County, Virginia

Transmitted is the Government and Audit copies of the subject contract with the performance bond attached to the Government copy.

A certified copy of the performance bond has been attached to the Finance copy.

The usual distribution of the other copies has been made by this office.

Robert A. Laurence
Robert A. Laurence
Executive Officer, DMEA
Region V

Wm. A. Beck
Wm. A. Beck for V. J. Lynch
Bureau of Mines

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

ROOM 13 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
DMEA
RECEIVED APR 11 1958

DATE	INITIALS	CODE
4/11	C	230
4/11	Klg	500

April 9, 1958

Memorandum

To: Operating Committee, DMEA, Washington, D. C.

From: Executive Officer, DMEA Field Team, Region V

Subject: Docket No. DMEA-4886, Contract No. Idm-E1177
Roland F. Beers, Inc., 447 Pinewoods Ave., Troy, N. Y.
Pruitt No. 4 Prospect, Spotsylvania County, Virginia

We have been advised by Roland F. Beers that drilling will begin at the Pruitt No. 4 prospect on April 8, weather permitting.

Robert A. Laurence

Robert A. Laurence

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

March 21, 1958

RECEIVED MAR 24 1958

Mr. Robert S. Young
Roland F. Beers, Inc.
P.O. Box 3725-University Sta.
Charlottesville, Virginia

Re: DMEA-4886(copper-zinc)
Pruitt #4 Prospect
Spotsylvania County, Va.

Dear Mr. Young:

A proposed contract providing for $6,222.00 worth of exploration (1500 feet of diamond drilling) at the Pruitt #4 prospect has been prepared and signed for the Government by the Administrator.

However, as the lessors have signified their unwillingness to sign a Consent to Lien and Subordination Agreemnnt, it will be necessary for Roland F. Beers, Inc., to provide a Performance Bond in the amount of $3,111.00. Please send two copies of this bond at your earliest convenience.

When the bond is received, the contract will be forwarded to you for execution.

Sincerely yours,

Robert A. Laurence
Executive Officer, DMEA
Field Team, Region V

RAL/zm
cc
Lynch
Burmeister
Files
Opr. Com-2

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/14	Klugescheid	500
	Shawes	500
3/17	GCS	130
"	Johnson	110
"	Wetherday	100
3/18	C	220
		500
3-14	Chambers	800

500

MAR 17 1958

B

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Re: Docket No. DMEA-4886 (Copper-Zinc)
Roland F. Beers, Inc.
Pruitt #4 Prospect
Spotsylvania County, Virginia

Dear Mr. Laurence:

Enclosed are the original and four copies of a proposed long-form contract for the cited project, signed by the Administrator, Defense Minerals Exploration Administration. It consists of the Form (MF-200), Annex I (one page), Exhibit "A" (four pages), and three maps. Two copies each of all but the form are enclosed for Field Team use.

The Lessors have signified their unwillingness to sign a Consent to Lien and Subordination Agreement, by a letter which is in our files. Before submitting the proposed contract for signature, it will be necessary to obtain a Performance Bond in the amount of the Government participation or $3,111.00. Two copies should be supplied, one each for the Government and Finance Office copies.

If the proposed contract meets with your approval, kindly present it to the Applicant for approval and signature and, when completed, distribute the copies in the usual manner. In the event that the contract is not satisfactory, and cannot be amended within your delegated authority, return all copies to us with your recommendations concerning any modifications.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures
APPROVED:

P. F. Yopes (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

WPKlugescheid/er 3/14/58
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Chron.

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

MAR 12 1958

Memorandum

To: Administrator, DMEA
ATTENTION: Director, Division of Base Metals

From: Associate Solicitor, Division of Minerals Resources

Subject: Preparation of Contract for Docket No. DMEA-4886, Roland F. Beers, Inc., Pruitt #4 Prospect, Spotsylvania County, Virginia, Zinc-Copper

As requested in Mr. Griswold's memorandum dated March 3, 1958, we have prepared the attached Contract. The memorandum stated that a Performance Bond is being submitted in lieu of Consent to Lien and Subordination Agreement, and the Contract so provides.

Robert P. Dwyer

DMEA
REGEIVED 14 1958
3/17 C -20
3/17 Kbrg. 501

February 27, 1958.

Memorandum for the Files

From: W. P. Klugescheid, Base Metals Division

Subject: Phone conversation concerning Docket No. DMEA-4886, Pruitt No. 4 Prospect, Spotsylvania County, Virginia, Roland F. Beers, Inc., Zinc-Copper.

On February 26, 1958, Mr. V. R. Geyer called and wished to know the status of the cited application. We informed him that a proposed contract was being processed subject to administrative approval and that it would soon be ready.

W. P. Klugescheid

W. P. Klugescheid

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/3	Klugescheid	500

500

March 3, 1958

Memorandum

To: Associate Solicitor, Division of Minerals Resources

From: Director, Division of Base Metals

Subject: Preparation of Contract for Docket No. DMEA-4886, Roland F. Beers, Inc., Pruitt #4 Prospect, Spotsylvania County, Virginia, Zinc-Copper

Will you please prepare a contract for the cited application. A draft of the contract, Annex I, Exhibit "A", and copies of three maps are attached to this memorandum.

The Operator will furnish a Performance Bond instead of a Consent to Lien.

W. R. Griswold

W. R. Griswold

WPKlugescheid/er
Copy to: Docket
Chron.

8623

DETERMINATION OF INCIDENTAL ALLOWANCE

Distance from Charlottesville to the property is approximately 120 miles.

Assuming 30' feet per shift of drilling and one shift then we would have 1,550/30 :: 52 days or two months, which is 8 weeks. If we allow three trips per week for all purposes, we have have 8 x 3 :: 24 trips.

24 x 120 :: 2,880 miles which is more or less what is specified.

2/5 of a Geologists time as given in the application is reasonable and when expanded to the new footage under the five hole plan, we have:

2/5 x 1550/1050 :: 0.60 of a Geologist's time for one month.

Then we have: 800 x 0.60 ::	$ 480.00	Technical
Stenographer as specified	60.00	
Laborer as specified	60.00	
	$ 600.00	
Compensation etc @ 6%	36.00	
Transportation @ $0.08 per mile	250.00	
Shed rent for two months	20.00	
Office Supplies	25.00	
Total	$ 931.00	

$931.00/1,550 feet :: $0.60 Incidental Allowance per foot drilled.

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 3 1958
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2/4 | C | 220
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

February 3, 1958

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of Report of Examination, Docket No. DMEA 4886 (zinc, copper), Roland F. Beers, Inc., Pruitt No. 4 Prospect, Spotsylvania County, Virginia. $6,290.00

The application proposed drilling 1,050 feet in 3 holes at a cost of $5,006.23. After visiting the property, the examiners felt that the drill-holes proposed by the applicant were too far apart and suggested an alternative project consisting of drilling 1550 feet in 5 holes at a cost of $6,290.00. It is the examiners' opinion that their alternative drilling program will provide more thorough exploration and reduce chances of missing mineralization which could be the basis for certifying a discovery.

From an evaluation of the application and other records of the applicant's geophysical prospecting, the examiners noted that the indicated anomaly justified exploration drilling and recommended consideration of a contract for their proposed revised drilling project.

I concur with the examiners' recommendation.

A. D. McMahon

A. D. McMahon

Attachment
Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, USGS
F. D. Lamb
Files

OFFICIAL FILE COPY
DMEA
FEB 3 1958
INITIALS
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

January 31, 1958

Re: DMEA 4886; (Zinc-Copper)
Roland F. Beers, Inc.
Pruitt #4 Prospect
Spotsylvania County, Va.

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Review of Report of Examination by the field team dated January 16, 1958 and received January 20, 1958.

The applicant located an electromagnetic anomaly over an area in the Piedmont metamorphic rocks on which there were subsequently established coinciding ground geophysical and geochemical anomalies. The long axis of the anomalous area is parallel to the structural strike of the region and suggests a location of sulfide lenses that are known to occur at other places within the same mineralized trend.

The applicant proposed DMEA assistance in a drilling project consisting of 3 holes in the hangingwall of the structure inclined so as to intersect the expected sulfide lense at large angles and at three positions along the regional trend. The field team supports the applicants justification and recommends the proposal be extended to 5 holes, similarly arranged, so as to reduce the chance of missing small but economic targets.

The expense of the applicant in defining the anomaly, the faith of the applicant and the field team in the projects justification, and the modest expense of drilling the anomaly certainly favor acceptance.

However, the gold-pyrite belt of Virginia has been given serious consideration by many companies and by Government agencies. The occurrence of mineralization as indicated to date is one of small discontinuous, irregular lenses that, if located, require closely spaced extensive drilling. When it is considered the gold-pyrite belt is defined throughout its 200-mile length by gossans

that are primary evidence of mineralization, then the location of an additional mineralized position by geophysical methods seems less impressive. Several such anomalies have been drilled under DMEA contracts, with rather limited success.

Inasmuch as this project area is in an untested area, I recommend the limited program outlined by the field examiners.

O. M. Bishop

O. M. Bishop

cc: Division of Minerals
Mr. Kiilsgaard
Mr. Lamb
Mr. Callaway
F I L E S

IN REPLY REFER TO:

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

FILE COPY
DMEA
RECEIVED JAN 23 1958

DATE	INITIALS	CODE
1/23	C	220
1/23	Clug	500

Memorandum

January 22, 1958
Re: DMEA 4886
Roland F. Beers, Inc.
Pruitt No. 4 Prospect
Spotsylvania Co., Va.
Appl. Est. $5,007
Rec'd " $6,290 Zinc-Copper

To: W. R. Griswold, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team Report

The applicant requested assistance in exploring by drilling an area which geophysical and geochemical prospecting had indicated might be ore bearing. The property is covered with overburden. Gossanous float may be found at some places, especially in and around four small, shallow prospect pits.

The proposed project area was chosen for further exploration because airborne and ground geophysical surveys and geochemical soil sampling indicated the presence of a relatively strong conductor. Other conductors are scattered over a length of six miles.

The applicant proposed 3 angle holes, but the examiners and Field Team recommend 5 holes, spaced 250 feet apart, 2 to be 250 feet long and 3 to be 350 feet.

I concur with the recommendaton of the examiners and Field Team.

N. E. Nelson

N. E. Nelson

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

DMEA
RECEIVED JAN 20 1958

	INITIALS	CODE
1/20	gjv	220
1/20	JHB	130
1/23	C	220
1/23	Kling	500

January 16, 1958

Memorandum

To: Operating Committee, DMEA, Washington, D. C.

From: Field Team, DMEA, Region V, Knoxville, Tennessee

Subject: Report of Examination - DMEA-4886 (Zinc, copper)
Roland F. Beers, Inc., 447 Pinewoods Ave., Troy, N. Y.
Pruitt No. 4 Prospect, Spotsylvania County, Virginia

Enclosed are the original and two copies of the subject report. The Field Team agrees with the recommendation of the Field Examiners that the application be approved and that a contract be prepared to provide for an exploration drilling project as outlined in the report.

Robert A. Laurence
Robert A. Laurence
Executive Officer

V. J. Lynch
V. J. Lynch, Member
Bureau of Mines

Enclosures 3

Reviewed by
DMEA OFFICE
1-22-58
(Date)

FIELD TEAM REPORT ON EXAMINATION OF PROPERTY

DMEA Docket No. 4886, (Zinc, Copper)
Applicant: Roland F. Beers, Inc.
447 Pinewoods Avenue
P. O. Box 1019
Troy, New York

1/22 HB 130 220

Introduction and Summary

Roland F. Beers, Inc., P. O. Box 1019, Troy, New York, with branch field office at 1111 Rose Hill Drive, Charlottesville, Virginia, applied, on November 25, 1957, for DMEA assistance to explore for copper-zinc ore deposits. The applicant proposes a diamond core drilling project on a tract of land comprising 235.9 acres located in Spotsylvania County, Virginia.

Although there are some small showings of gossan on the property, the applicant's main reason for wishing to explore is the favorable results obtained from geophysical and geochemical surveys that have been completed on the property.

The geophysical and geochemical work and the proposed drilling project were discussed with the applicant's Branch Manager and geologist, Mr. R. S. Young, on December 19 and 20, 1957, in the applicant's office in Charlottesville, Virginia. The examining team consisted of H. L. Burmeister, U. S. Bureau of Mines and W. P. Williams, U. S. Geological Survey.

Conclusions and Recommendations

The applicant's main justification for DMEA participation in exploration costs on his property is the result of geophysical and geochemical surveys. With the exception of the electromagnetic work, the

Reviewed by
DMEA OFFICE
1-22-58

ON SITE REPORT.

other anomalies do not singly appear to be extremely significant. The most significant feature of all the work seems to be that the different types of anomalies correspond generally with each other in lateral position. Complete coverage of the property, with the exception of small gossan exposures in pits, with an estimated 50 feet of overburden precludes evaluation of the property solely by geologic methods.

It is the opinion of the examining team, as well as of the applicant, that the applicant's property warrants exploration by core drilling methods on the basis of general geologic considerations, the advantageous location of the property within the mineralized gold belt, and the results of geophysical and geochemical surveys. It is recommended that the application be approved and that a DMEA contract be prepared to provide for an exploration drilling project as outlined above.

Date of Examination and Location of Property

The Pruitt No. 4 Prospect was examined on December 19 and 20, 1957 by W. P. Williams, Geological Survey and H. L. Burmeister, Bureau of Mines. The examiners were accompained by Mr. Robert S. Young, Branch Manager for the applicant.

The Pruitt Prospect occupies a portion of the Pruitt farm in Spotsylvania County, Virginia. The prospect is reached from Fredericksburg, Virginia by proceeding westward on U. S. Route 3 for a distance of 6.3 miles to Zoan Church. At this point turn right or northwestward and follow State Route 620 for 3-1/4 miles to the junction of State Route 616. Follow Route 616 for approximately 0.1 mile to the first farm road to the right or east which leads to the exploration area. (Fig.1). Good, all season roads lead to the property.

Competency of Applicant and Operating Personnel

Both the applicant and the personnel in charge of field operations are considered to be competent in the fields of geology and geophysics. Very probably the field personnel gained experience in actual core drilling operations in supervising the Operator's "New Canton" exploration, DMEA 4393, contract Idm-E 1013.

Applicant's Property Rights

The Operator holds a five (5) year lease on 635 acres from the owners, John E. Pruitt and Louise M. Pruitt of Forest Hall Farm, Route 1, Box 54, Fredricksburg, Virginia. The area concerned with this application is described in the lease as Parcel "A" and contains approximately 235 acres, Parcel "B" being withheld from the application. Parcel "A" as described in the lease consists of the total of a different "A" and "B" indicated on attached Fig. 1. Parcel "B" as indicated in Fig. 1 represents only the operating area and "A" plus "B" represents the DMEA area.

The applicant will furnish a Performance Bond in lieu of "Consent to Lien".

Description of Property

The drilling area lies in gently rolling country, immediately west of the Rappahannock River, (Fig. 1). The maximum difference in elevation of proposed drill hole collars in only 27 feet. No mining has been done on this property and there are no mining facilities. Water and electric power are easily obtainable.

Geology and Ore Deposits

The applicant's property is in the Piedmont physiographic province of Virginia. The terrain in the vicinity consists of low rolling hills locally dissected by recent, dendritic stream patterns.

The property is located within a gold-ore belt that extends from Montgomery County, Maryland across Virginia in a southwestward direction to the North Carolina line. The belt varies in width from 15 to 25 miles, is 200 miles long, and covers an area of some 4,000 square miles. In the vicinity of the Pruitt property, the belt appears to reach its widest development.

The principal rocks of the Virginia gold belt are micaceous schists and gneisses, in many places garnetiferous and chloritic, and in places hornblendic. They include both altered sediments and igneous masses. The property itself appears to be underlain by a series of Precambrian kyanite-sillimanite metasediments and Paleozoic? granitic intrusives. The older rocks at higher elevations are overlain by Cretaceous gravel and clay. The prevailing strike of the rocks is N 20° to 30° E, and the dip is steep to the southeast (82° -88°). It is estimated that there is an average of about 50 feet of overburden on the property.

The gold and sulphide-bearing veins are chiefly quartz, which range in texture from large crystalline masses to very fine saccharoidal grains. In structure, they vary from massive to thin platy or schistose bodies, both usually penetrated by closely spaced irregular fractures. Within the weathered zone the quartz is porous and stained with iron oxide. Below water level the veins are fresh, and the sulphides are unaltered.

Although the veins generally conform to the structure, strike, and dip of the enclosing rocks, they frequently cut the schists at small angles both in dip and strike. This evidence appears to indicate that the emplacement of the veins post-dates the schistose structure of the enclosing rocks. The vein structure is irregular lenticular, varying in width from a few inches to a few feet. The lenticular stringers are often discontinuous. Some of the veins are remarkable for their persistence and continuity.

Ore minerals in the veins are chalcopyrite, galena, sphalerite, native copper and auriferous pyrite. Gangue minerals are quartz, pyrite, pyrrhotite, and siderite.

The property is covered with surface material and overburden. Gossanous float may be found at some places, especially in and around four small, shallow prospect pits.

Geophysics

The applicant chose the Pruitt prospect for further exploration on the basis of airborne and ground geophysical surveys and geochemical soil sampling. Preliminary geophysical reconnaissance was completed by flying large portions of the Piedmont with airborne electromagnetic equipment. Large areas were flown on northwest-southeast flight lines spaced 1/4 of a mile apart. Where a significant conductor was indicated with the airborne equipment the area was further surveyed by ground geophysical methods.

Inspection of the applicant's master sheets showing the airborne electromagnetic traverses shows that six separate conductors are indicated in the vicinity of the Pruitt prospect. The conductors appear to be scattered over a length of six miles and all have a northeast trend.

Ground geophysical surveys conducted by the applicant on the property included magnetic, self potential, and electromagnetic. Summary results of the geophysical work have been submitted with the application. Results of the geochemical soil sampling were submitted to the examining team and are attached to this report.

The applicant's self-potential surveying was done using equipment made by Georator Corporation of Manassas, Virginia. Results of the self-potential work are given on maps in the application. Field procedure involves the use of two porous pot electrodes and a 1,000 foot wire reel.

Some geophysicists believe that in self-potential surveying a potential difference of 100 millivolts indicates an anomaly of significance. The highest self-potential differences shown on the applicant's map are "more than 250 millivolts".

The applicant completed his ground magnetometer surveying using a Sharpe, Model A-2, Schmidt type, vertical intensity, magnetometer. Results of the surveying are given on maps in the application. Personnel in the Geophysics Branch, Geological Survey, do not believe that the magnetic 'anomaly' has enough amplitude (100-200 gammas) to be of great significance. The magnetic 'ridge' does, however, coincide in general with the geophysical anomalies obtained by other means, which may be of significance.

A map attached to the application shows the axis of a conducting body as determined by ground electromagnetic methods. Although the map does not so state, inquiry of the applicant afforded the information that the amount of departure of the 1,000 cycle curve north or south from a line

(indicated by dots) perpendicular to the base line is proportional to the rotation, in degrees, of the detector coil of the ground EM apparatus. In this case a north departure indicates a west rotation, and a south departure means east rotation. One inch of departure is equal to 20° rotation. In any event, examination of the basic EM data and the applicant's compilation of the data shows that definite, bona fide 'cross-overs' appear to exist along the conductor axis. The applicant appears, thus, to have demonstrated that a conducting body is present, whose position coincides with other geophysical anomalies.

A map showing the contoured results of geochemical soil sampling by the applicant was furnished the examining team upon request. A copy of the map, figure 3, is attached to this report. The soil samples were collected by taking the cuttings from the bottom of an auger hole 18 inches deep. Figure 3 shows that the maximum values obtained were higher than 300 parts per million copper.

"In the leaching of rocks near surface, some copper is adsorbed onto limonite in oxidized gossans as well as onto other minerals in the soils. In general, the amount of copper retained in soils adjacent to a copper-bearing deposit is significantly less than zinc or lead. Copper background values measure in 10 to 20 ppm. and are less than lead and zinc in several deposits investigated in western United States. Copper anomalies are considered present with concentrations of a few hundred ppm." 1/

1/ Robertson, Forbes, et al., Geochemical Prospecting by Soil Analysis in Montana; Bull. No. 7, Bureau of Mines and Geology, State of Montana, August 1956.

In a letter to the examiners the applicant submitted the following soil analyses for soil samples taken from gossan at Sta. 0 + 0 figure 3:

	ppm.	
	Zn	Cu
Top	400	462
Bottom	554	590
Middle	540	611
Mixed - Top & Bottom	1090	462

It thus appears that the applicant has demonstrated the presence of a geochemical anomaly that coincides reasonably well in position with the geophysical anomalies.

Applicant's Proposed Exploration

The applicant proposed to diamond core drill only three holes on the Pruitt property. The holes were to be drilled from southeast to northwest at an inclination of minus 45°. Total estimated overall project cost was $5,007.

If only three holes were drilled on the property, as shown on the application map, the holes would be 700 and 400 feet apart. Two holes, 700 feet apart, would be far enough apart to miss a relatively small, yet high grade and minable, ore deposit. Only three holes on a property the size of the Pruitt prospect would reduce to a minimum the Government's chances for certifying the project as a discovery.

Alternate Proposal

After considerable discussion with the applicant, it was agreed that a more thorough and advantageous project would result if five holes, instead of three, were drilled on the property.

Because of the proximity of property lines it was necessary to relocate applicant's drill holes No. 2 and No. 3. The location of revised drill holes as well as the location of the two additional holes are shown on Figs. 2 and 4. The following table summarizes all drilling relative to the revised proposal. The coordinate locations may be plotted on the applicant's maps.

DDH No.	Coordinates		Relative Elevation	Inclination	Hole Length
1	0.80 S	2.00 E	190.60 ft.	-45° NW	350 ft.
2	1.50 N	1.50 E	206.40	-45° NW	250
3	4.00 N	2.00 E	178.85	-45° NW	350
4	6.50 N	1.40 E	188.95	-45° NW	250
5	9.00 N	1.70 E	186.25	-60° NW	350

The holes should be inclined down to the northwest because the beds dip southeast. It is recommended that the holes be aimed in a direction perpendicular to the applicant's base line. A sketch of the layout of the proposed holes is shown on Figures 2 and 4. The applicant is in full agreement with the modified proposal.

The revised program includes 50 feet of NX size drilling to collar drill holes in rock below overburden, and 1500 feet of either overburden or (AX-BXWL) rock drilling.

It is recommended that the E. J. Longyear drilling bid be accepted. It is also recommended that a contract specify drilling to be done on 2 shifts per day, six days per week basis as stated in the Longyear bid.

Estimated Costs

Regardless of the applicant's estimate of costs entering into a per foot "Incidental Allowance", the following method of arriving at this allowance has been taken.

Drilling on this project will be in the same rock as that done by the New Jersey Zinc Co. in DMEA 4673 and DMEA 4674, contracts Idm-E 1109 and E-1103 respectively. Proximity of the areas insures the same insurance, liability and benefit costs. Both Operators have very similar and adequate supervisory personnel. In DMEA 4674 the distance between headquarters and drilling area is the same as in the present application and the "Incidental Allowance" was $0.58 per foot, while in DMEA 4673 the distance was approximately one third that involved in the present application and the "Incidental Allowance" was $0.30 per foot.

Conditions under this application and the contract as written for DMEA 4674 are so similar that an estimate cost of $.58 per foot drilled is being used as equitable in this report.

Independent Contracts

NX drilling to collar hole in rock 50 feet @ $3.50/ft.	$ 175.00	
Overburden and rock drilling (not less than AX or BXWL size) 1500 feet @ $2.95/ft.	4,425.00	
Mobilization and demobilization of equipment	300.00	
Cementing - 10 hrs. @ $7.50/hr.	75.00	
Delays not responsible to drillers 8 hrs. @ $6.50/hr.	52.00	
		$5,027.00

Fixed Unit Costs

(Includes supervision, labor, insurance, liability, transport and office expenses)

Incidental allowance for each foot of drilling completed - 1550 feet @ $0.58/ft	899.00

Core boxes - 48 @ $3.00 each	$ 144.00	
Sample analyses for Cu, Pb, Zn, Au, and Ag - 20 @ $10.00	200.00	
Rental core storage - 2 mo. @ $10.00	20.00	
		$1,263.00
Estimated total cost of Project		$6,290.00

W. P. Williams, Geologist
U. S. Geological Survey

H. L. Burmeister, Engineer
U. S. Bureau of Mines

January, 1958.

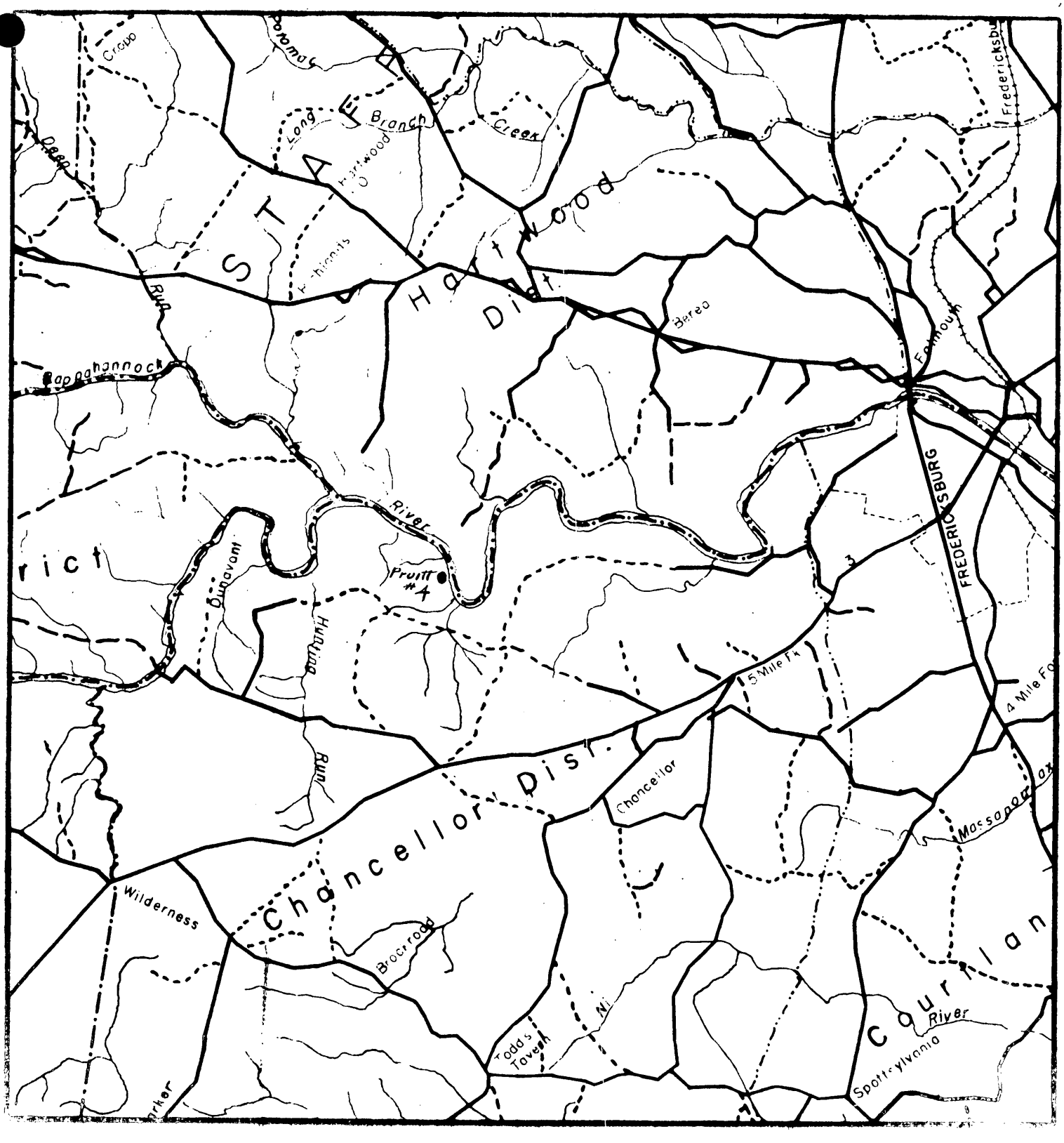


PLATE 1. LOCATION MAP, PRUITT #4 PROSPECT, SPOTSYLVANIA COUNTY, VIRGINIA

Scale: 1" = 2 miles

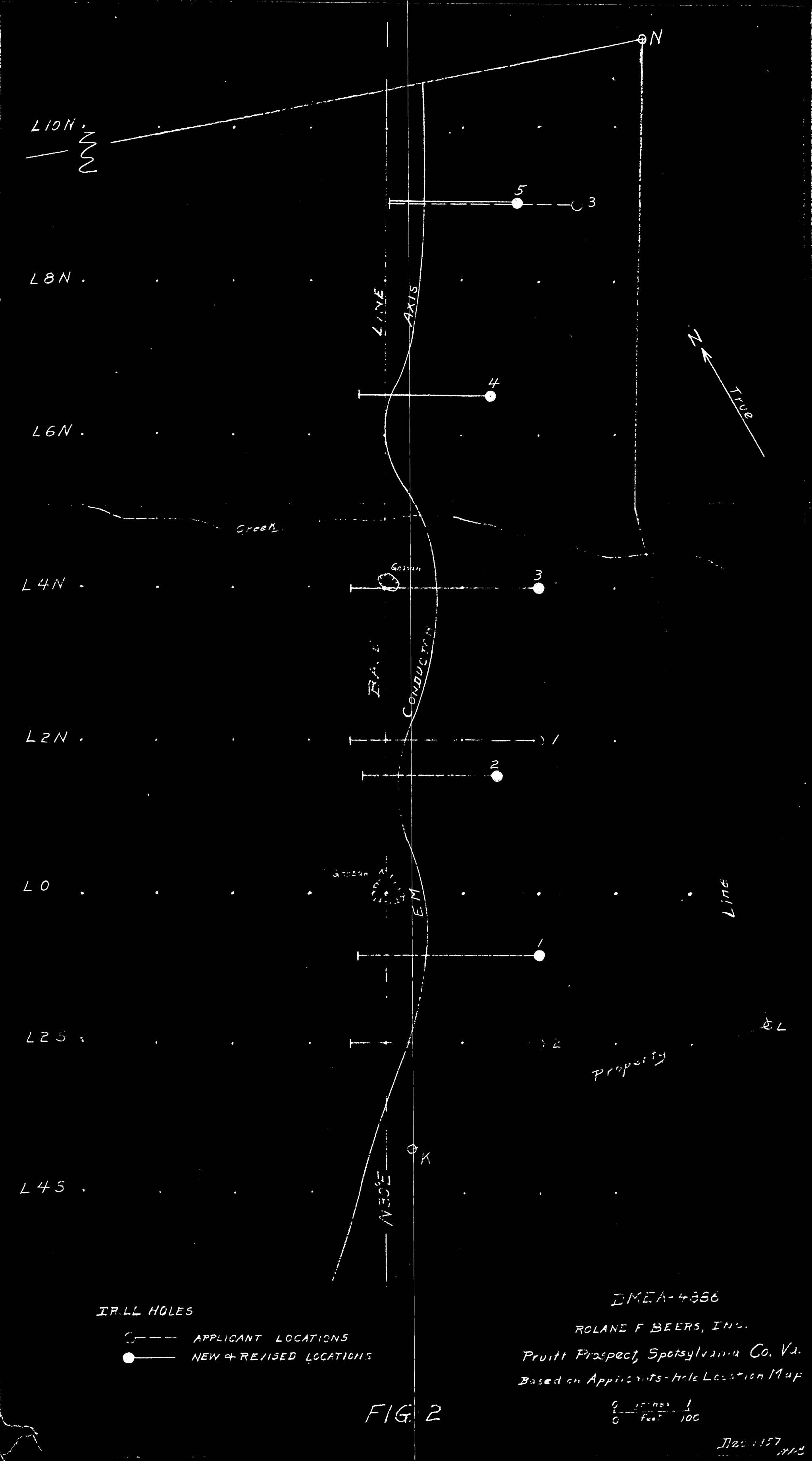
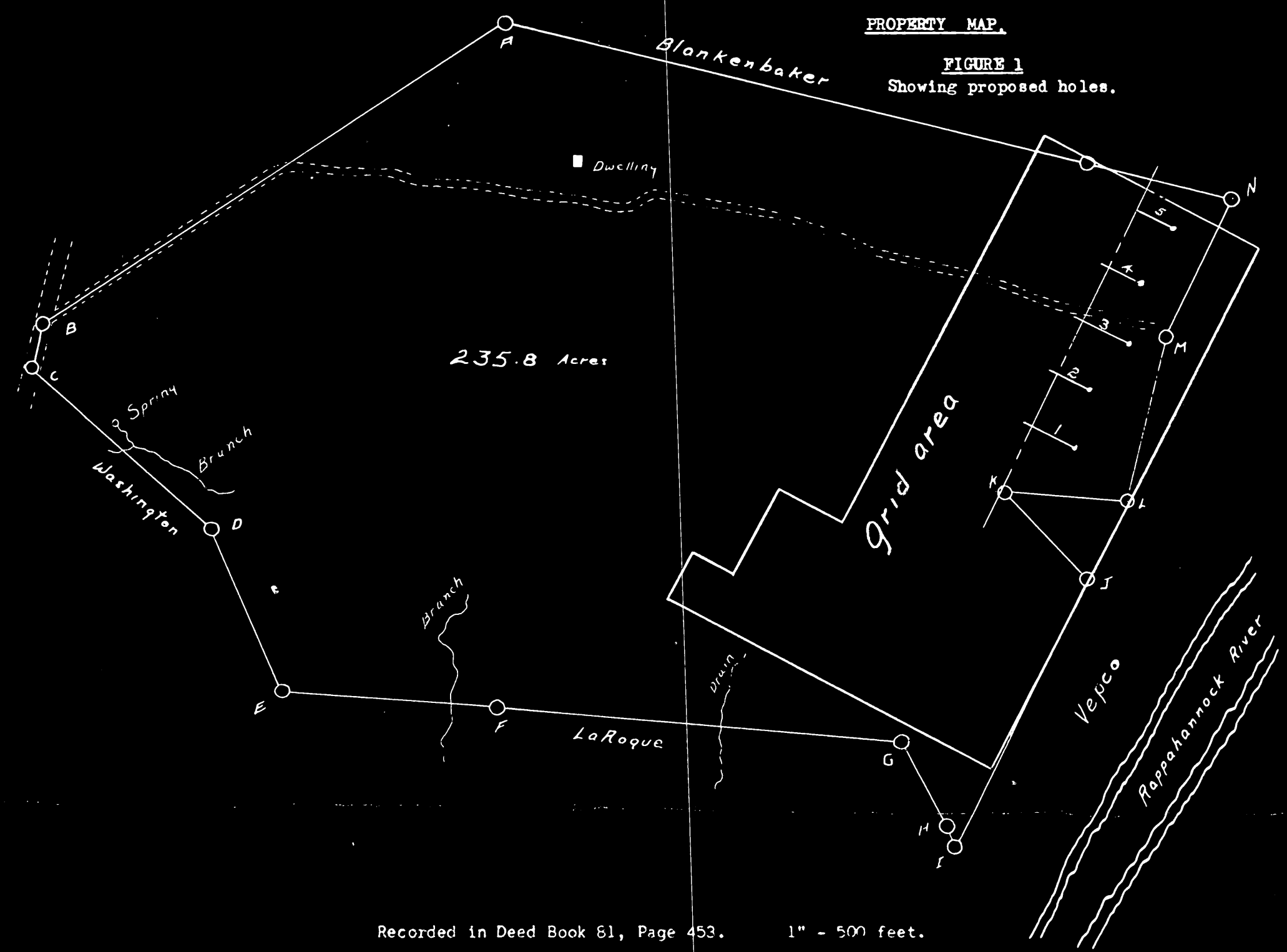

N
L10N
5
3
L8N
LINE
AXIS
N
True
4
L6N
Creek
Gossan
3
L4N
CONDUCTOR
L2N
2
Gossan
L0
EM
1
Line
L2S
property
K
L4S
DRILL HOLES
APPLICANT LOCATIONS
NEW & REVISED LOCATIONS
DMEA-4556
ROLAND F BEERS, INC.
Pruitt Prospect, Spotsylvania Co. Va.
Based on Applicants-Hole Location Map
0 inches 1
0 feet 100

FIG. 2



Recorded in Deed Book 81, Page 453. 1" - 500 feet.

I surveyed on the 16th day of Jan. and the 5th day of Feb. 1913 for Mrs. Jas. H. Orrock from Mrs. Mark Ricker and wife, a tract of land knowned as "Forest Hall" lying in the County of Spotsylvania and State of Va. and about 3½ miles N. E. of Chancellorsville, and then Bounded as follows, to-wit: Beginning at "A" a large cedar corner to Blankenbaker. Thence with the same as agreed upon today by all interested parties S. 57° 19' W. 2307 ft. to "B" a point in the center of road leading to the U. S. Mine and Blankenbaker line and a corner to Willis Washington. Thence with Willis Washington following the center line of said road S. 15° 04' W. 169 ft. to "C" a peg driven in center of road. Thence S. 46° 18' E. 25 ft. to a peg driven on S. E. edge of a road corner to Roy Washington. Thence beginning at this peg on the S. E. edge of road to R. Washington. Thence with same S. 46° 18' E. 968 ft. to "D" a post on a hill near edge of field corner to Roy Washington whole line from "C" to "D" 993 ft. Thence with same S. 23° 48' E. 748½ ft. to "E" a post corner to said Washington, and in the "Laroque" line thence with "Laroque" S. 86° 00' E. 898 ft. to "F" a stone E. of an old road on W. Slope. Thence on with "Laroque" S. 84° 49' E. 1717 ft. to "G" a pile of flint stone. Thence on with same. S. 27° 30' E. 404 ft. to "H" 3 hickories near top of hill, corner to "Laroque". Thence with same S. 2° 30' E. 70 ft. to "I" a cedar post in the "Laroque" line on S. Slope corner to Water Power Company. Thence with same N. 25° 55' E. 1236 ft. to "J" a milberry stake. On with same N. 42° 40' W. 488 ft. to a wht. oak stake at "K" corner to same, S. 85° 55' E. 494 ft. to "L" a red oak stake N. 15° 15' E. 705 ft. to a wht. oak stake at "M" corner to said Power Company ON with same N. 24° 50' E. 705 ft. to "N" a post in line of Blankenbaker. Thence with Blankenbaker, N. 74° 00' W. 664 ft. to "O" a large red oak. Thence with same N. 77° 33' W. 2473 ft. to the point of beginning. Containing an area of 235.855 acres. Two hundred thirty-five and eight hundred and fifty-five thousandths acres of ground. I did not run the line "IJ", "JK", "L", "LM" and "MN". Mapped by the Water Power Co's survey. Distance of "M" to the River is 563 ft. The line "AB" continued South westward in same course for about 536 ft. This latter part of line is between Blankenbaker and Willis Washington and fixed and agreed upon on the 16th day of Jan. 1913. Given under my hand this 17th day of Feb. 1913.

E. H. Randall, S. S. C.
City Surveyor of Fredericksburg and
Deputy Surveyor of Spotsylvania Co.

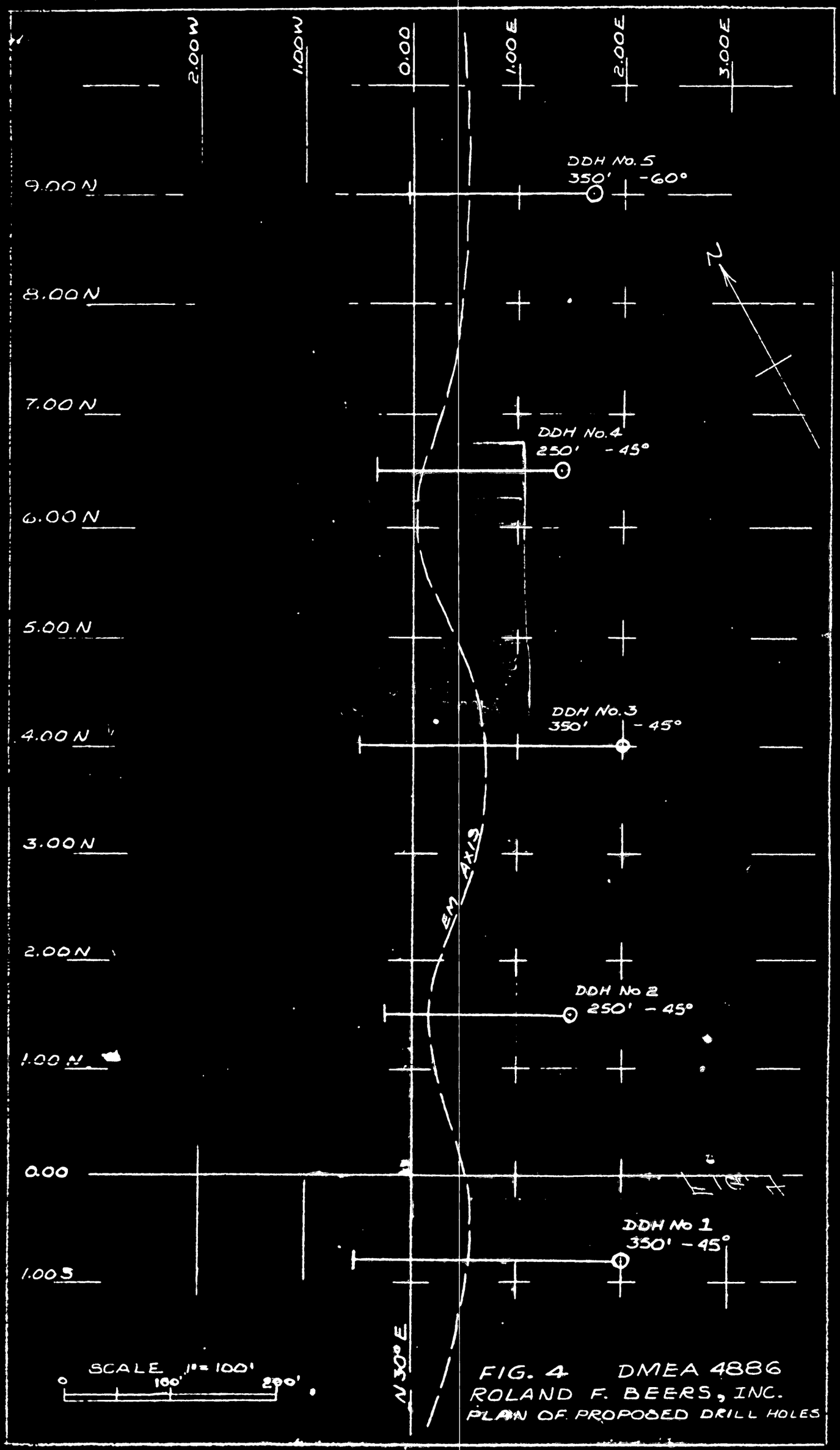
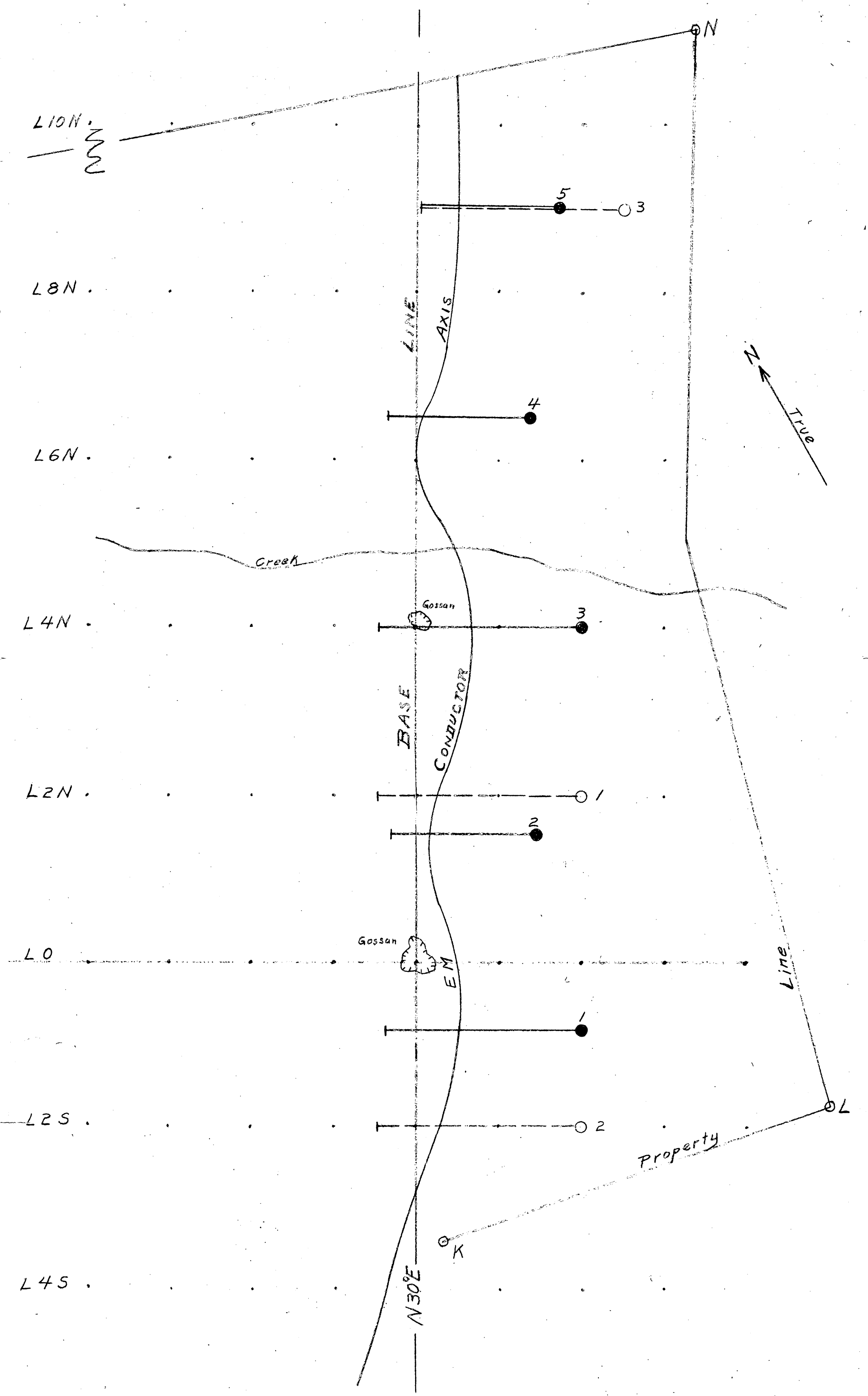


FIG. 4 DMEA 4886
ROLAND F. BEERS, INC.
PLAN OF PROPOSED DRILL HOLES



DRILL HOLES

○— — — APPLICANT LOCATIONS

●——— NEW & REVISED LOCATIONS

DMEA-4886

ROLAND F. BEERS, INC.

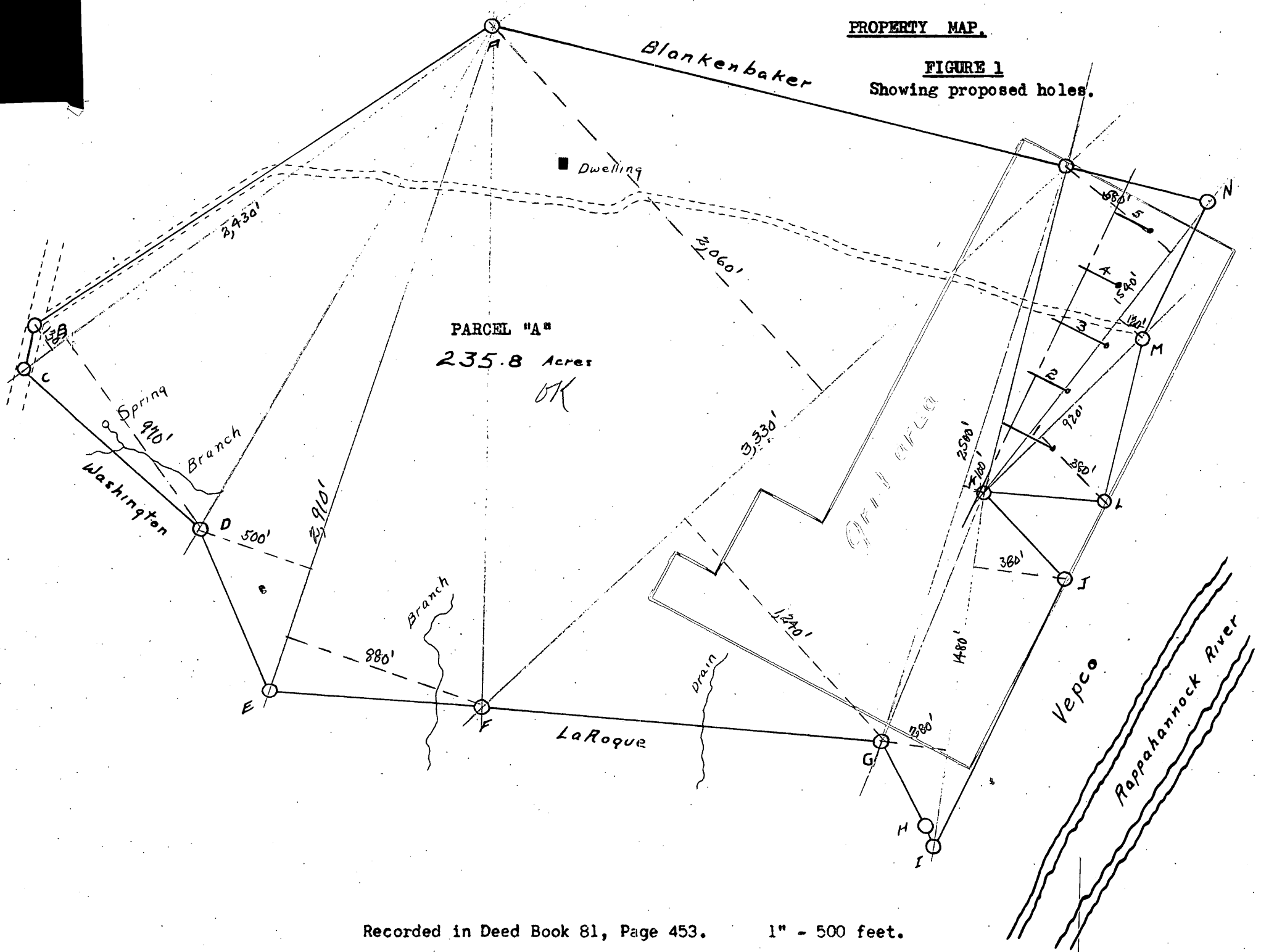
Pruitt Prospect, Spotsylvania Co. Va.

Based on Applicant's-Hole Location Map

0 inches 1
0 feet 100

FIG. 2

Dec. 1957



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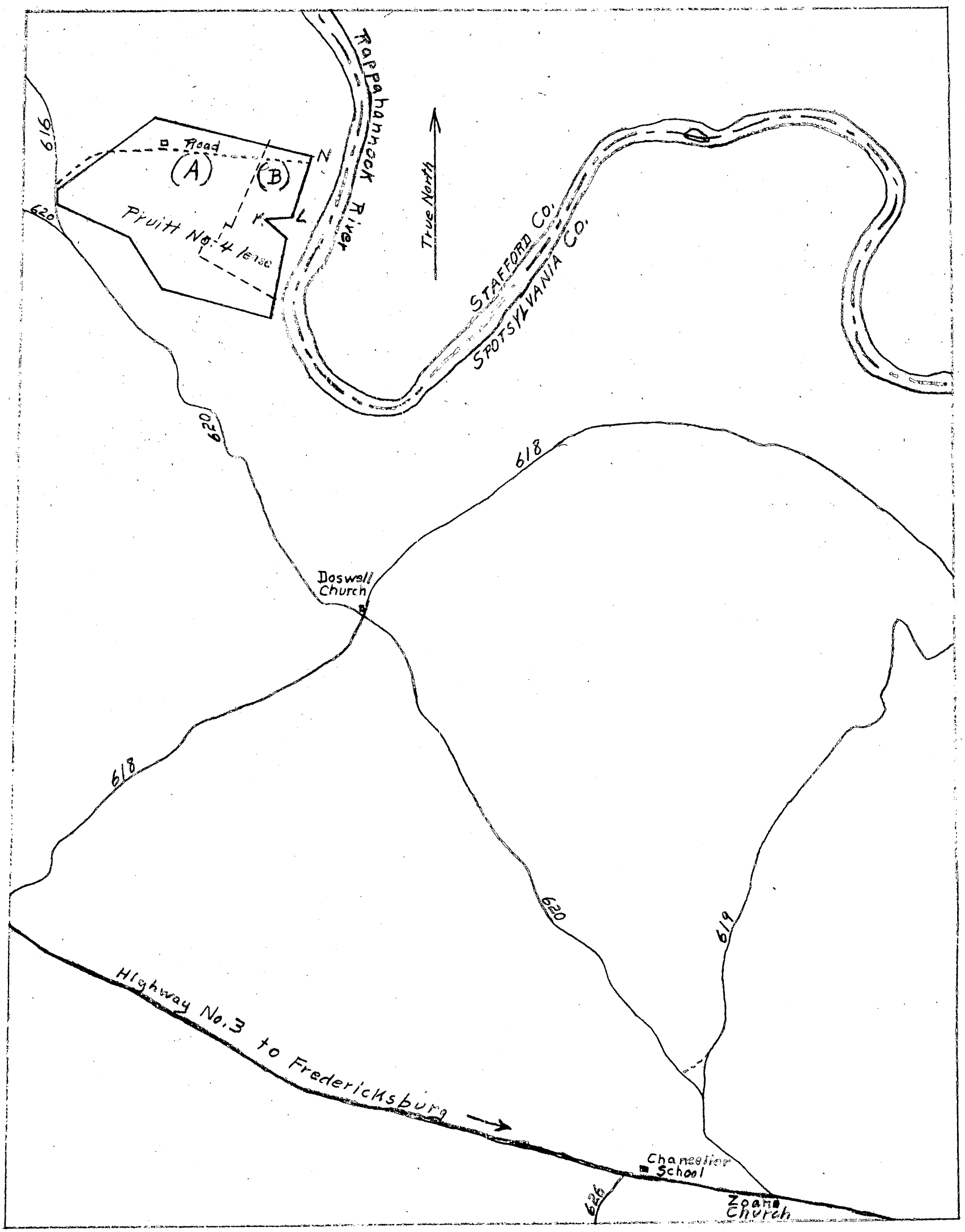
E. H. Randall, S. S. C.
City Surveyor of Fredericksburg and
Deputy Surveyor of Spotsylvania Co.

CENTRAL FILE COPY
DMEA
RECEIVED NOV 26 1957

DATE	INITIALS	CODE

2,430 x 130/2	= 2,430 x 65 =	157,950
2,430 x 970/2	" x 485 =	1,178,550
2,910 x 500/2	2910 x 250 =	727,500
2,910 x 880/2	" x 440 =	1,280,400
3,330 x 2,060/2	3,330 x 1,030 =	3,429,900
3,330 x 1,240/2	" x 620 =	2,064,600
1,480 x 380/2	1,480 x 190 =	281,200
1,480 x 280/2	" x 140 =	207,200
920 x 300/2	920 x 150 =	138,000
1,540 x 120/2	1,540 x 60 =	92,400
1,540 x 580/2	" x 290 =	446,600
2,500 x 100/2	2,500 x 50 =	125,000
43,560	10,129,300	232.5 acres

is Parcel "A" OK



DMEA-4886

ROLAND F. BEERS, INC.

Pruitt Prospect, Spotsylvania Co. Va.

After U.S. Army Map - Salem Church, Va.

0 ½ 1
miles

Dec. 1957
MRB

FIG.-1

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RECEIVED JAN 20 1958

DATE	INITIALS	CODE

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 20 1958

DATE	INITIALS	CODE

FIG.-1

DMEA 4886

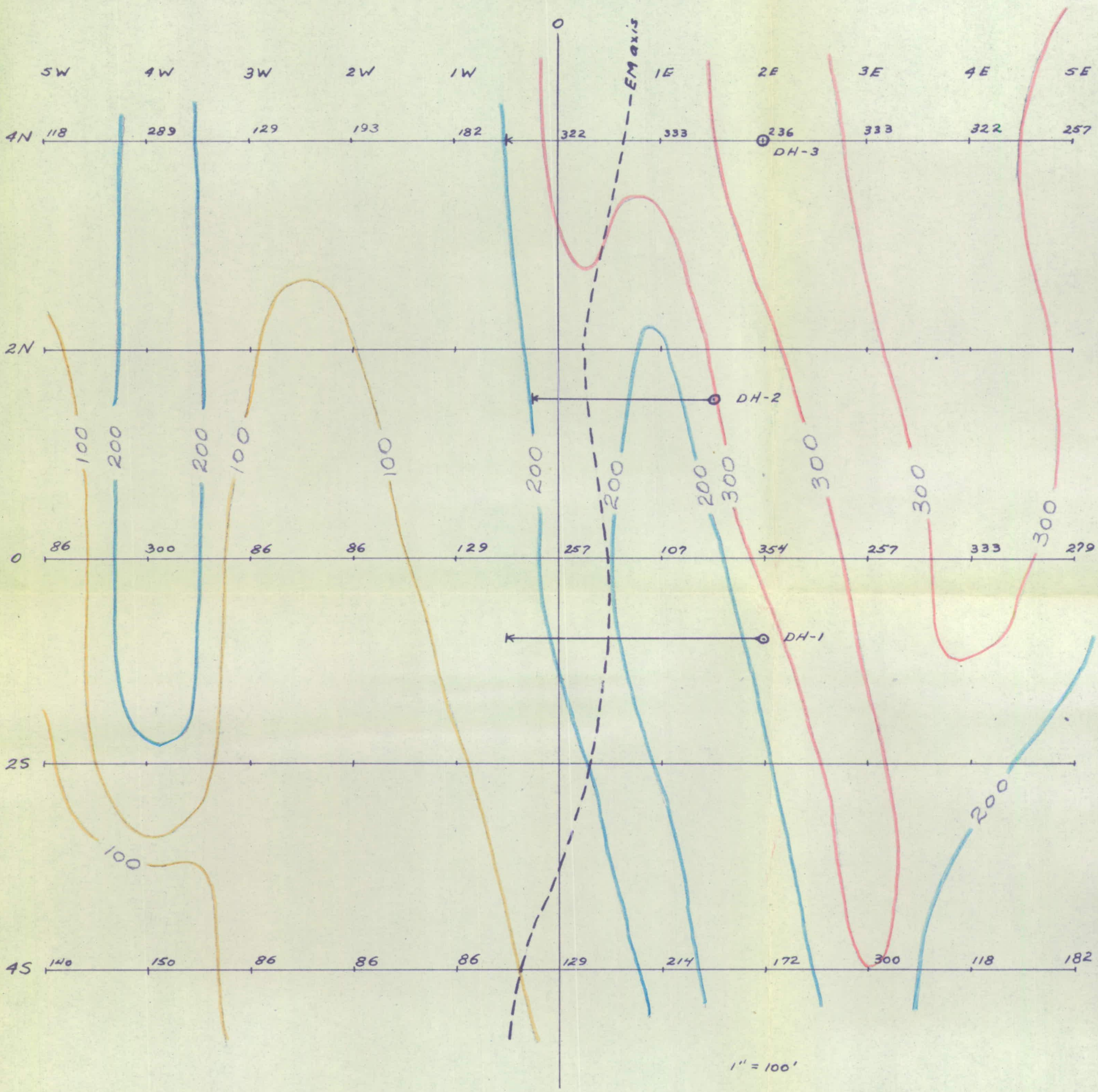


FIG. 3 CONTOURED GEOCHEMICAL DATA, CENTRAL PRUITT #4 GRID, SPOTSYLVANIA CO., VIRGINIA.
(copper in ppm)

ROLAND F. BEERS, INC. P. O. BOX 1019 TROY, NEW YORK

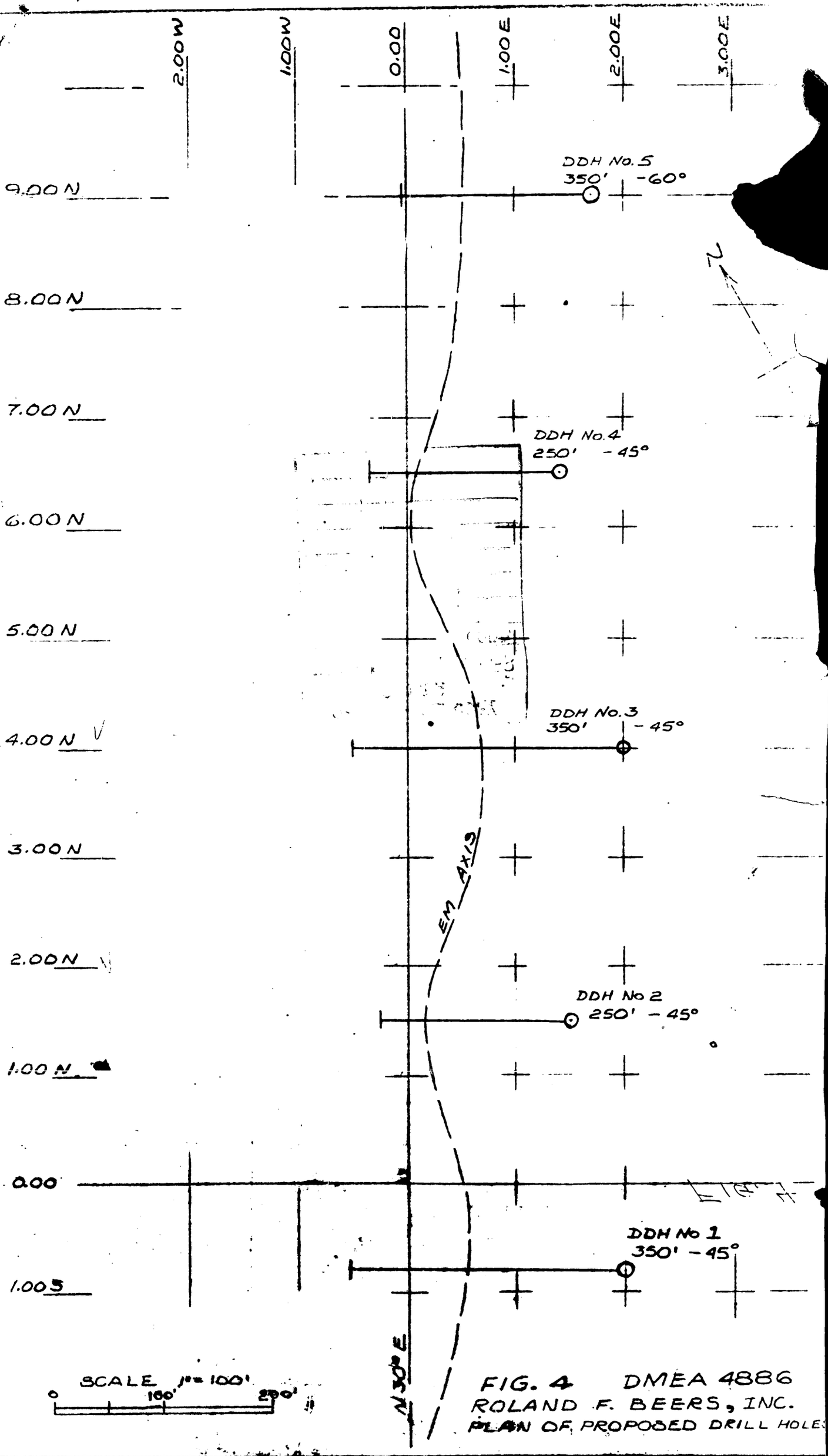


FIG. 4 DMEA 4886
ROLAND F. BEERS, INC.
PLAN OF PROPOSED DRILL HOLES

IMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/4	Klugescheid	500
	[illegible]	500
12/4	[illegible]	130
"	[illegible]	110
"	[illegible]	100
		~~HB~~
12/5	C	220
		500

500

DEC 4 1957

Mr. Robert A. Laurence
Executive Officer
IMEA Field Team, Region V
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Lamb

Re: Docket No. IMEA-4886 (Copper-Zinc)
Roland F. Beers, Inc.
Pruitt #4 Prospect
Spotsylvania County, Virginia

Dear Mr. Laurence:

The cited application for exploration assistance is being referred to your office for consideration, a field examination of the property if warranted, and recommendations.

We would like to call attention to 2(e) of the application, last paragraph: "Significance of the gossan shows has been further corroborated by geochemistry and geophysics. Analyses of gossan and soil samples show local copper-zinc values of at least three times background. Results of these surveys are portrayed on Plates 3 and 4." Unfortunately we have been unable to find anything concerning geochemical work and the plates are not numbered on our copies.

A three-hole program is very small and would give us very little basis for certification even if some ore were found.

It will probably not be possible to obtain a Consent to Lien and Subordination Agreement on the property, and Mr. Young said that instead the Applicant would prefer to furnish a Performance Bond.

Copies of memoranda dated November 29 and December 2, 1957, by A. D. McMahon, Bureau of Mines, and W. P. Williams, Geological Survey, respectively, relating to the project, are enclosed for your information. We are also enclosing a copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures
APPROVED:

Frank D. Lamb (GCS)
Member, Bureau of Mines

N. E. Nelson (GCS)
Member, Geological Survey

WPKLUGESCHEID/er 12/4/57
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon; USBM
Mr. Kiilsgaard, USGS
Chron.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/3	Klugescheid	500
	Shimel	500
12/4	Selbridge	130
12/4	Lamb	130
12/4	Nelson	130
"	Johnson	110
"	Mittendorf	100
		220
		500

DEC 4 1957

Mr. Roland F. Beers, President
Roland F. Beers, Inc.
Post Office Box 1019
Troy, New York

Re: Docket No. DMEA-4886 (Copper-Zinc)
Roland F. Beers, Inc.
Pruitt #4 Prospect
Spotsylvania County, Virginia

Dear Mr. Beers:

Your application for Government assistance to explore the cited property has been reviewed by the Division of Base Metals of the Defense Minerals Exploration Administration and has been referred to:

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
Room 13, Post Office Building
Knoxville 2, Tennessee

If the Field Team requires additional information concerning your application, they will contact your Virginia branch office at an early date.

Sincerely yours,

C. O. Mittendorf

Administrator

WPKlugescheid/er 12/3/57
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Region V (2)
Chron.

8623

CENTRAL FILE COPY
DMEA
RECEIVED DEC 3 1957
DATE | INITIALS | COPY
12/3 | C | 220
500

IN REPLY REFER TO:

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

December 2, 1957

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of application, DMEA 4886, (copper-zinc), Roland F. Beers, Inc., Forest Hall Tract, Spotsylvania County, Va.

The applicant proposes to explore for copper-zinc ore deposits on a tract comprising 236 acres. Rocks on the property consist of quartzite, schist, granite, and quortz diorite.

The applicant's principal reasons for wishing to explore the land are the results of geochemical and geophysical surveys he has completed. The geophysical work included airborne and ground electromagnetic, self-potential, and magnetometer surveys in addition to geochemical soil sampling. According to the applicant's maps, all the surveys resulted in well-developed anomalies. Three old prospect pits show gosson, but the applicant does not appear to have done any sampling.

The proposed project would consist of only three drill holes. It may be argued that that is not enough drilling to test the area. In an interview with Messrs. Robert Young and Vernon Geyer, geologists for the applicant, they stated that they were interested in drilling only three holes now, "to see what was causing the geophysical anomalies". They further stated that in the event the first three holes looked promising a new application requesting more drillingwould be submitted. The first three holes might be considered in the nature of basic research which would not be appropriate for DMEA participation.

At any rate the property should be examined in the field, and the applicant's geophysical results should be reviewed by personnel in the Geophysics Branch, U. S. Geological Survey. Referral of the application to the Field Team is recommended.

W. P. Williams

W. P. Williams

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

November 29, 1957

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of application, Docket No. DMEA-4886 (copper and zinc), Roland F. Beers, Inc., Pruitt #4 prospect, Spotsylvania County, Virginia; $5,006.53.

The applicant seeks Government assistance for a modest exploration program consisting of three diamond drill holes totaling 1,050 feet and costing $5,006.53.

According to the application, the Pruitt #4 prospect lies in the center of large pyrite-pyrrhotite deposits which are reported to have contained significant amounts of copper, zinc and lead. Gossan float shows evidence of sulphide mineralization on the property and the exploration targets were determined by geophysical and geochemical surveys made by the applicant.

Referral of the application to the Field Team for appropriate action is recommended.

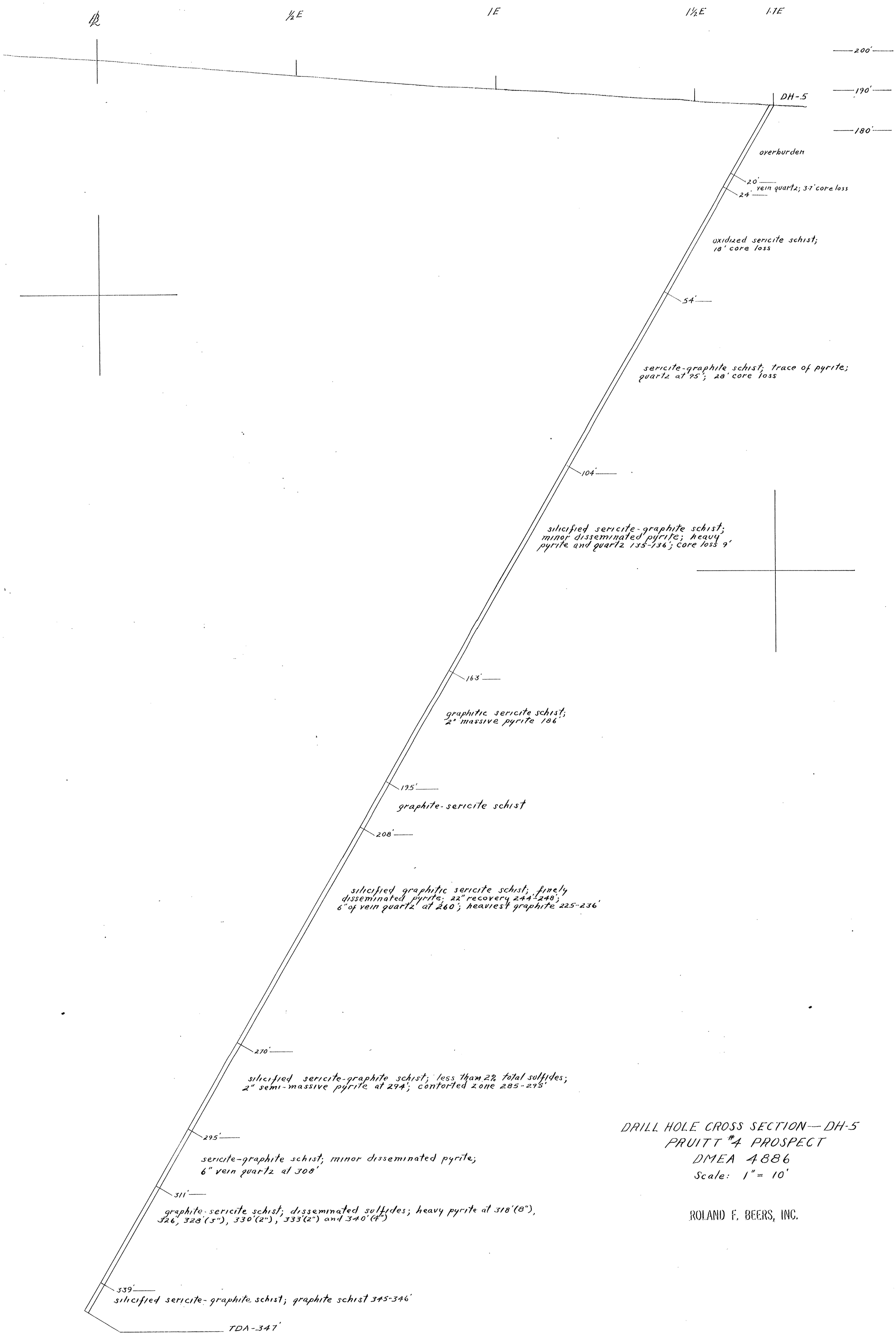
A. D. McMahon
A. D. McMahon

Enclosure

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U. S. G. S.
F. D. Lamb
F i l e s

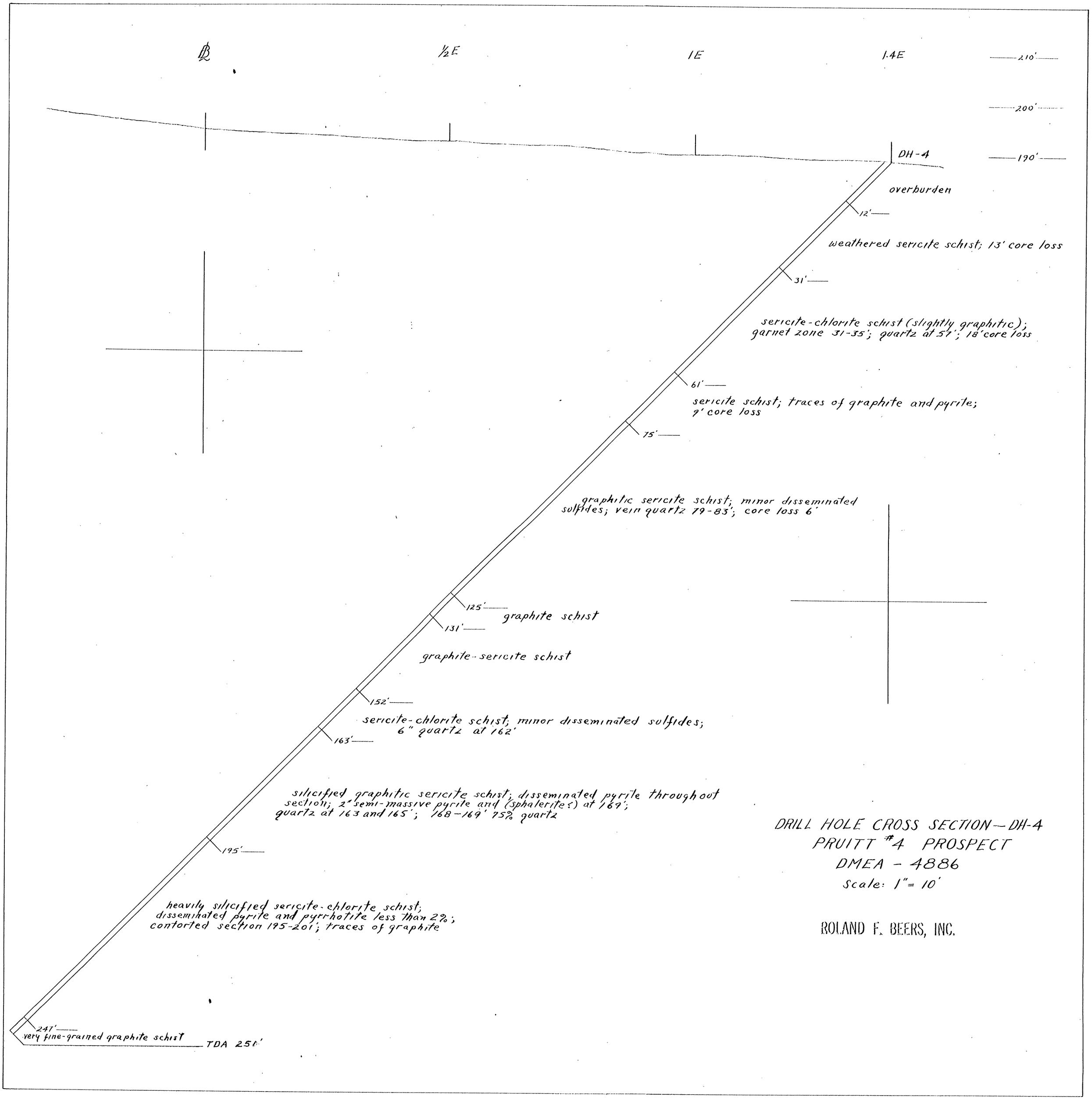
OFFICIAL FILE COPY
DMEA
RECEIVED DEC 2 1957

DATE	INITIALS	CODE
12/2	G	220
12/2	Klug	500



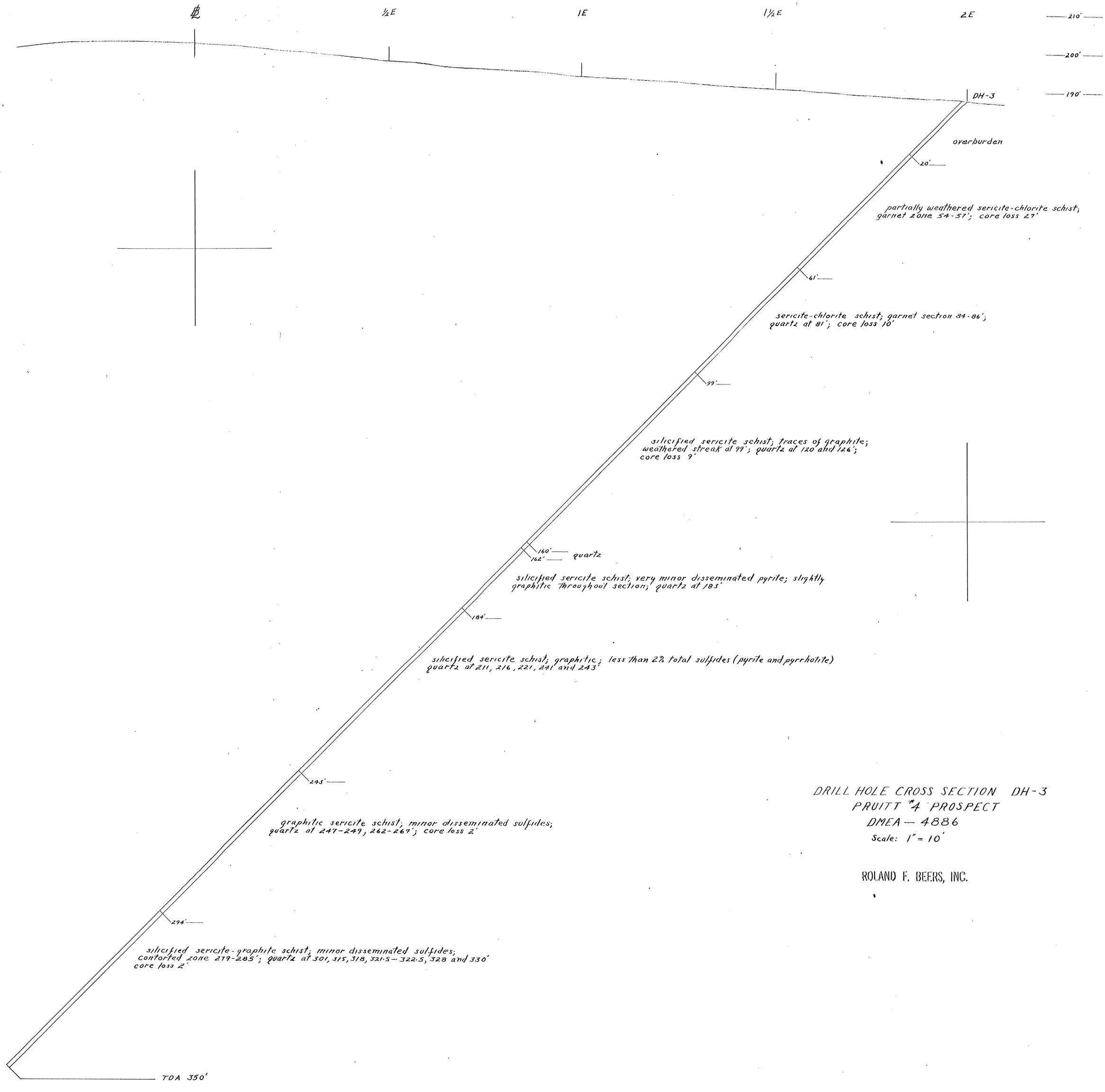
DRILL HOLE CROSS SECTION — DH-5
PRUITT #4 PROSPECT
DMEA 4886
Scale: 1" = 10'

ROLAND F. BEERS, INC.



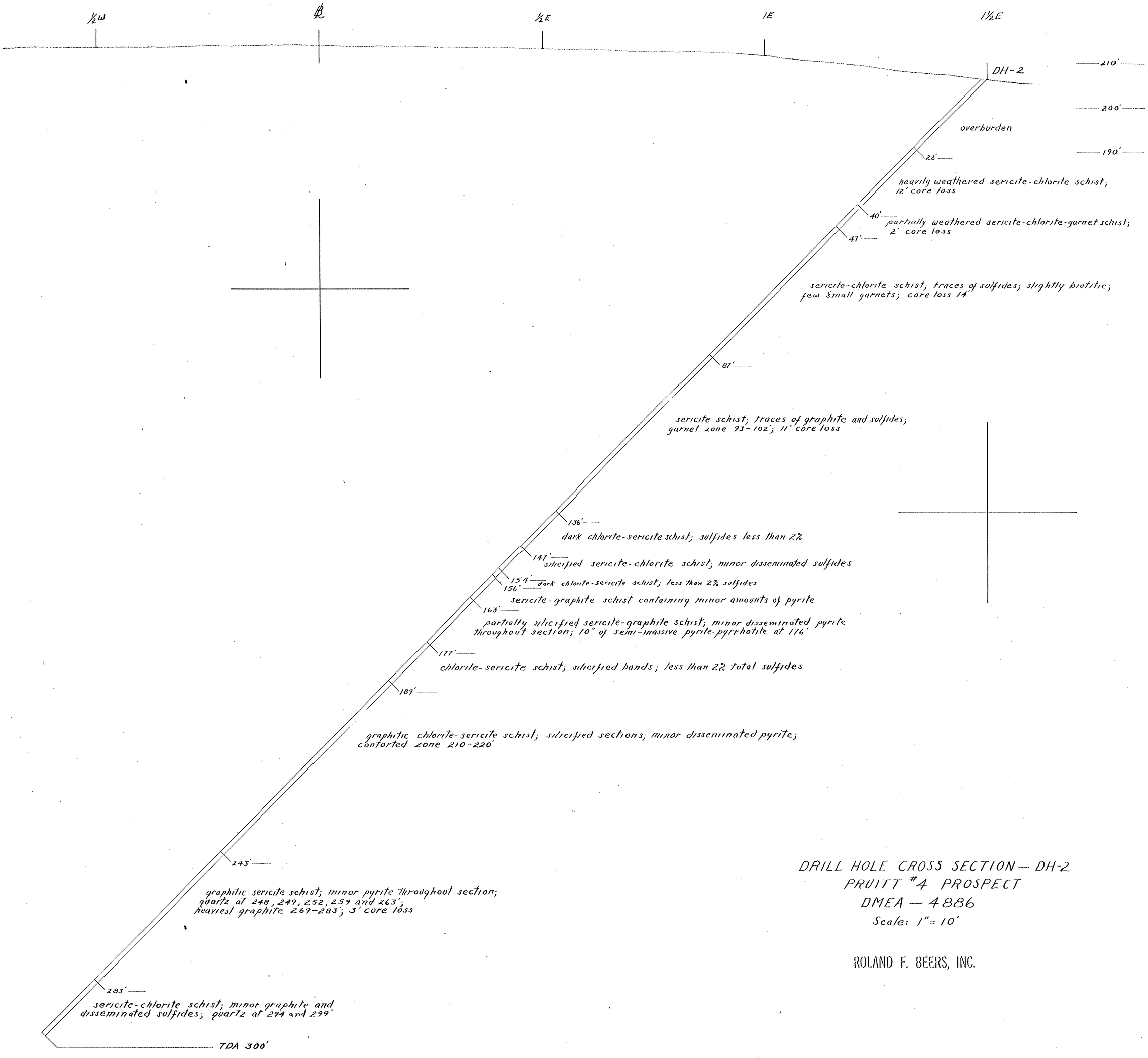
DRILL HOLE CROSS SECTION—DH-4
PRUITT #4 PROSPECT
DMEA - 4886
Scale: 1" = 10'

ROLAND F. BEERS, INC.



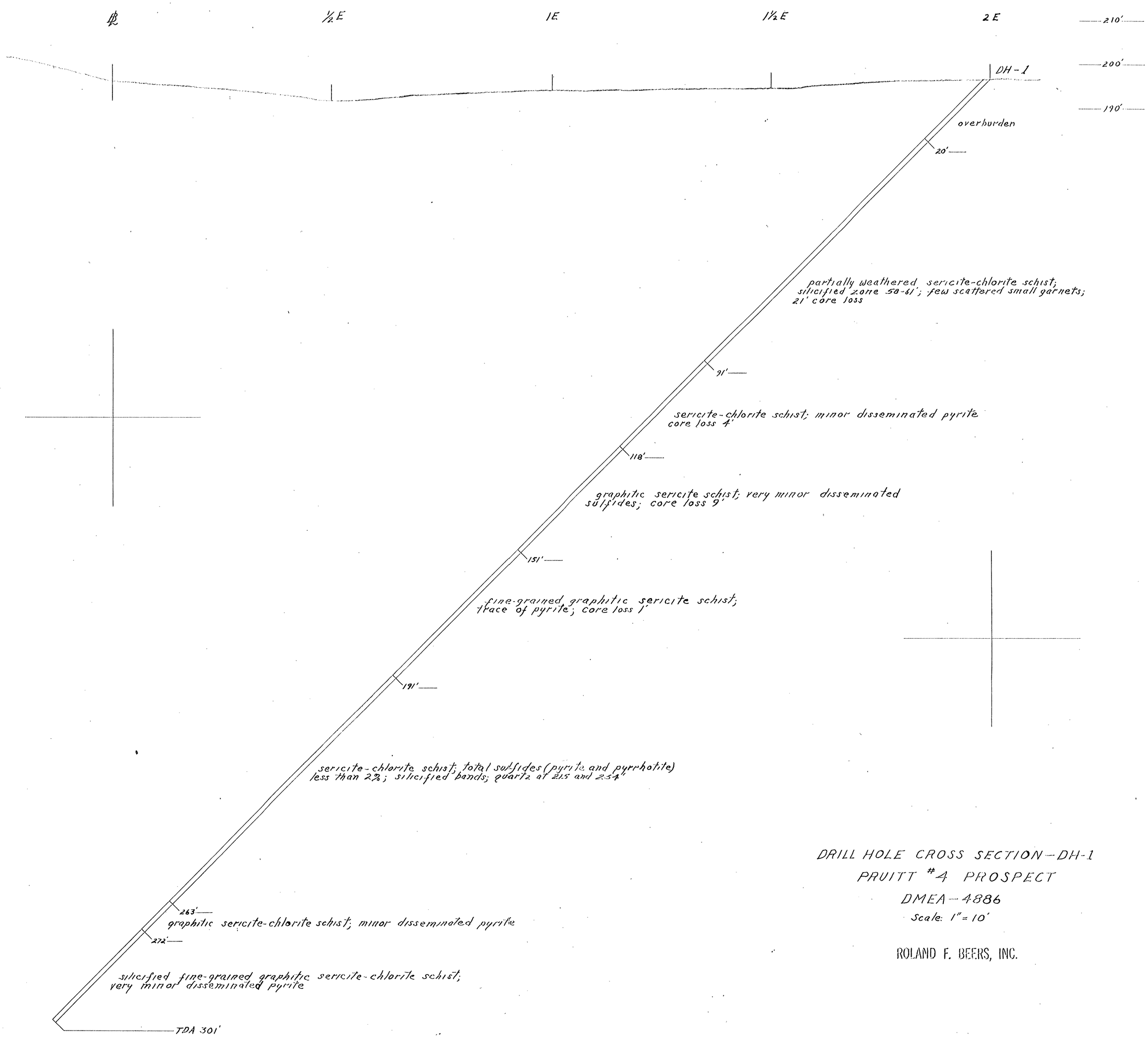
DRILL HOLE CROSS SECTION DH-3
PRUITT #4 PROSPECT
DMEA — 4886
Scale: 1" = 10'

ROLAND F. BEERS, INC.



DRILL HOLE CROSS SECTION — DH-2
PRUITT #4 PROSPECT
DMEA — 4886
Scale: 1" = 10'

ROLAND F. BEERS, INC.



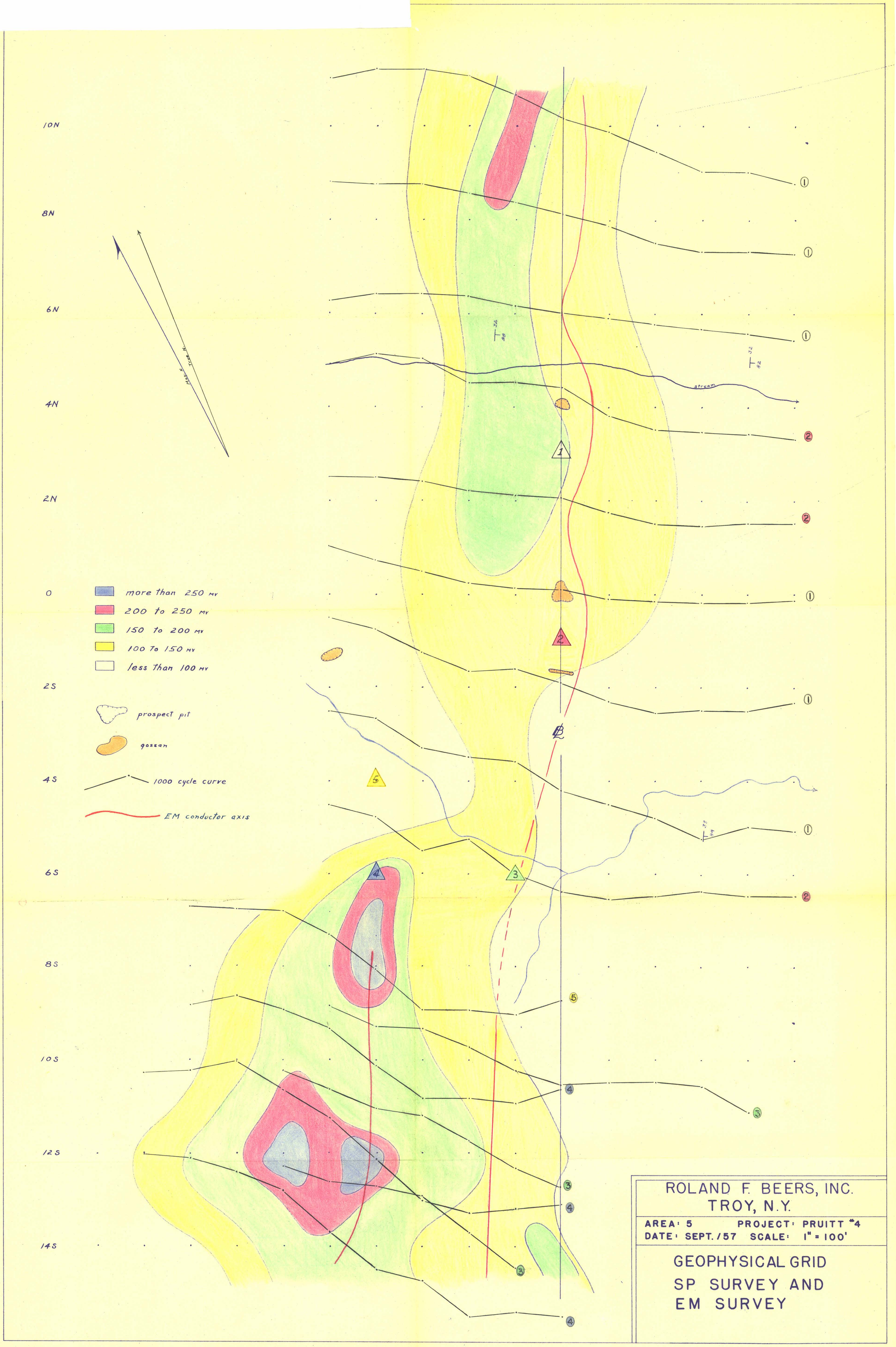
DRILL HOLE CROSS SECTION—DH-1

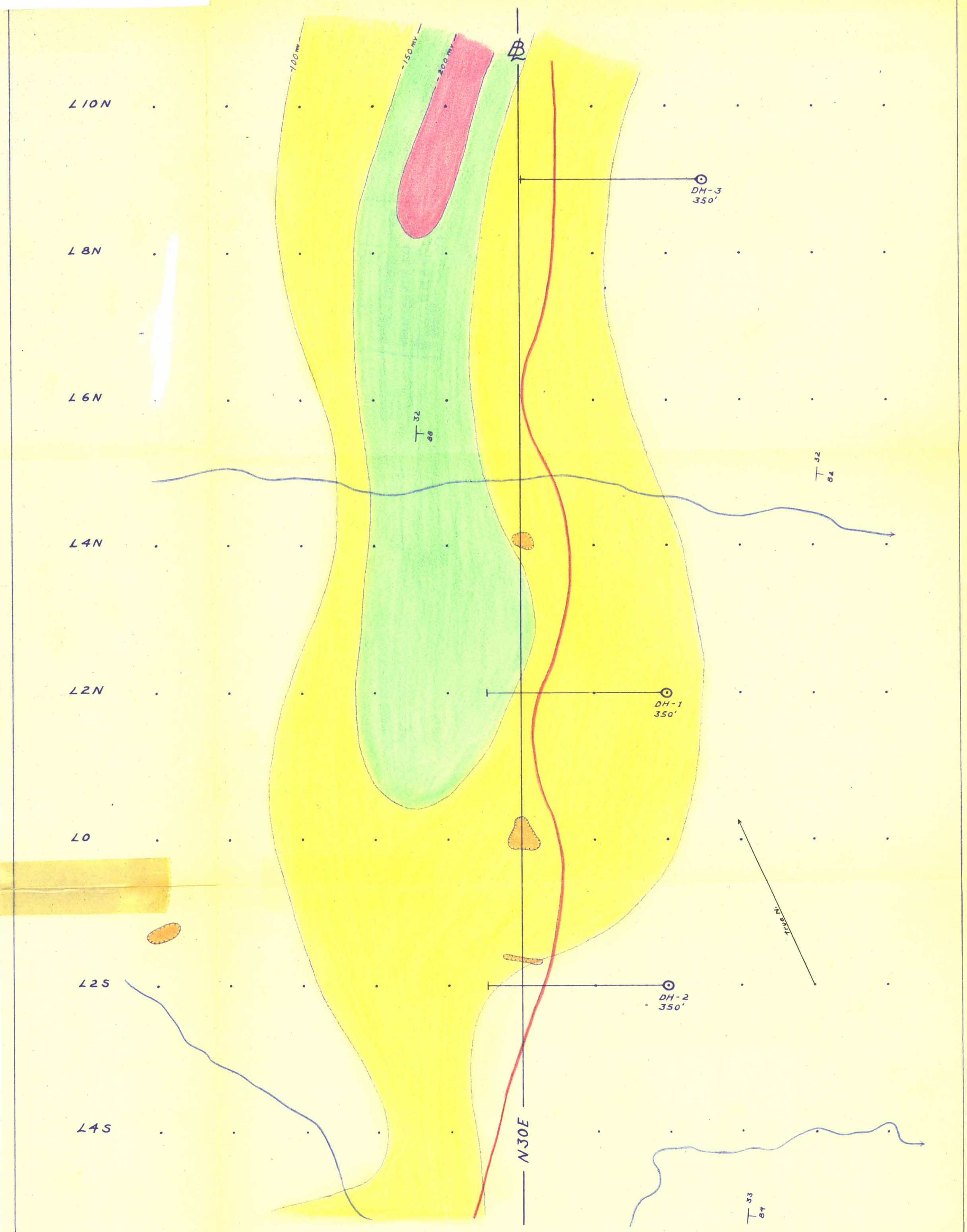
PRUITT #4 PROSPECT

DMEA—4886

Scale: 1" = 10'

ROLAND F. BEERS, INC.


10N
8N
6N
4N
2N
0
2S
4S
6S
8S
10S
12S
14S
Mag. N
True N
more than 250 MV
200 to 250 MV
150 to 200 MV
100 to 150 MV
less than 100 MV
prospect pit
gossan
1000 cycle curve
EM conductor axis
stream
ROLAND F. BEERS, INC.
TROY, N.Y.
AREA: 5
PROJECT: PRUITT #4
DATE: SEPT./57
SCALE: 1" = 100'
GEOPHYSICAL GRID
SP SURVEY AND
EM SURVEY

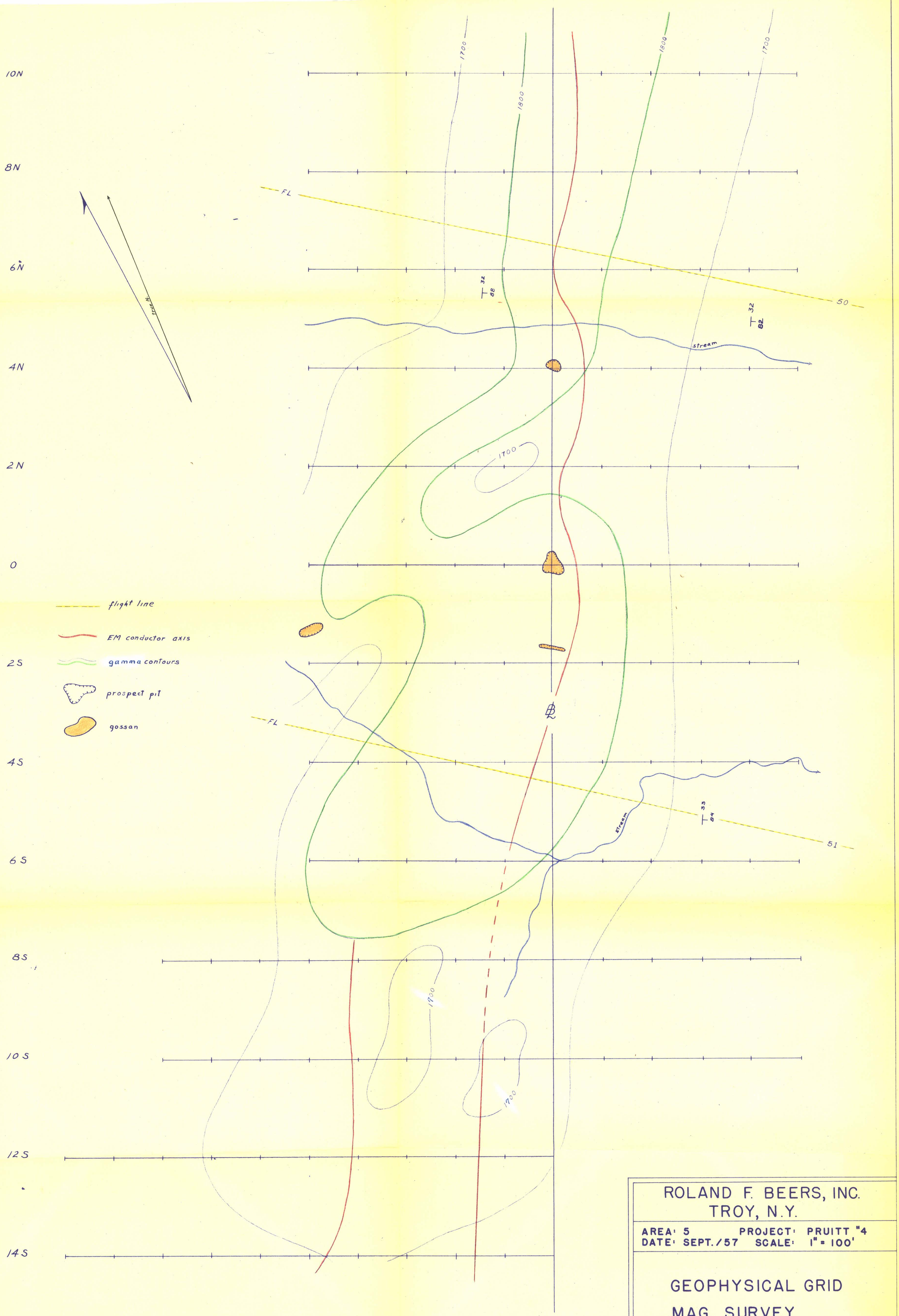


ROLAND F. BEERS, INC.
TROY, N.Y.

AREA: 5 PROJECT: PRUITT #4
DATE: SEPT./57 SCALE: 1" = 100'

GEOPHYSICAL GRID

AND DRILL HOLE LOCATIONS



ROLAND F. BEERS, INC.
TROY, N.Y.

AREA: 5 PROJECT: PRUITT #4
DATE: SEPT./57 SCALE: 1" = 100'

GEOPHYSICAL GRID
MAG. SURVEY

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

November 26, 1957

Roland F. Beers, Inc.
P. O. Box 1019
Troy, New York

Gentlemen:

Subject: DMEA-4886

Your application for exploration assistance, dated November 25, 1957 submitted to our office at Washington, D. C. has been assigned Docket Number DMEA-4886 and referred to the Base Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region V