Division C[illegible]

MF-200A
(Rev. April 1956)

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT
(Short Form)

DMEA No.	*Commodity*	*Contract No. Idm–E*	*County*	*State*
4463	Mica	1040	Yancey	North Carolina

It is agreed NOV 21 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Jeter Boone

whose mailing address is Route #3
Bakersville, North Carolina
hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority and project.*—(a) This contract is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF–200A), the attached Annex I (land description), Exhibit A (work and costs), and the maps and documents listed therein. The project work is a search for indicated or undeveloped deposits of the commodity designated above. The Operator shall begin the work on or before Jan 31, 1957, and, subject to the provisions of Article 7 and Exhibit A, shall complete the work within seven months from the date of the contract.

(b) The description of the work and the fixed cost for each unit of work to be performed (per foot of drilling, per foot of drifting, per hour of operations, etc.) are hereby agreed upon as specified in Exhibit A. The estimated total cost of the project work is $5,472.00. The Government will contribute 75 percent of the fixed unit cost of the work performed, not exceeding $4,104.00, in accordance with the provisions of Articles 4 and 5.

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

ARTICLE 2. *Operator's property rights.*—(a) The Operator represents and undertakes that Annex I correctly describes the land which is the subject of this contract and the nature of the Operator's rights of property and possession therein (whether as owner, lessee, or otherwise), and that such right, title, or interest is subject only to the following claims, liens, or encumbrances:
Owner's Consent to Lien and Subordination Agreement of J. G. Riddle

(b) 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 of the land (lessor, seller, optionor, etc.) are attached, as follows:

(c) 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. 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

RECEIVED DEC 24 1956 DMEA

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. Two copies of such instrument shall be furnished to the Government. If the Government's rights to royalty as provided in Article 6 have been terminated, the provisions of this paragraph (c) shall become inapplicable.

ARTICLE 3. *Performance of the work.*—(a) Operator's responsibility.—The work shall be performed diligently, efficiently, expertly, in a workmanlike manner, and in accordance with good mining standards and State regulations governing health, safety, and liability insurance covering employment. The Operator shall provide suitable and adequate equipment, facilities, materials, supplies, and labor to complete the work, as specified in Article 1 (a).

(b) *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 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 4. *Contribution by the Government.*—The Government will make its contribution on the basis of the monthly vouchers referred to in Article 5 (b); but all payments by the Government are provisional only, subject to audit, and until the account between the Operator and the Government is finally audited and settled and the Operator's final report has been rendered, the Government may withhold such sums as it sees fit but not in excess of 10 percent of the estimated total cost of the work. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government will not contribute to the cost of any work performed prior to the date of this contract. The Government may make payments for the account of the Operator directly to independent contractors and suppliers rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(a) Operator's records.—The Operator shall keep suitable records and accounts of the units of 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. 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 all pertinent books, documents, papers, and records of the Operator.

(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 a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit 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 the unit costs thereof.

(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 6. *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 the Operator has rendered a sufficient final report (see Article 5), 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 (for example, if the Operator either transfers or fails to retain his interest in the land), 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, for 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, 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, but excluding fabricating or manufacturing) applied to the crude ore or other production after it is extracted from the ground to put it into a commercially marketable form.

(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 thereof in the form in which and at the time 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 7. *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 the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further 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 the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and 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 Government may also avail itself of any other remedy the law may provide for breach of contract, including the right to rescind the contract and to demand repayment of all moneys contributed by the Government under the contract.

(c) The giving of any notice by the Government under the provisions of this Article 7 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and liens to secure the payment thereof, and such rights shall be fully preserved.

ARTICLE 8. *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 the mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 9. *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 10. *Changes and added provisions.*—

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Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

JETER BOONE
(Operator)

By C. Mittendorf
Administrator, Defense Minerals
Exploration Administration

By Jeter Boone

I, ..., certify that I am the ..... secretary of the corporation named as Operator herein; that ....., who signed this contract on behalf of the Operator, was then ..... 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.

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE : 1956—O-383069

Indretz 11/13/56
Lawyer
"Appd. Sol. Off."
Hopkins
Horne
Talbot
Selfridge

EXPLORATION PROJECT CONTRACT
JETER BOOKE
DOCKET NO. ~~[illegible]~~-4463

ANNEX I

The land referred to in Article 2 of the Contract is situated near the crest of Mine Knob on Green Mountain, at an elevation of approximately 4,060 feet, 3.43 airline miles N. 19° W. from Micaville, in Yancey County, North Carolina, and is more particularly described as follows:

Beginning on an iron stake in the center of what is known as the Riddle Prospect #2, which is located 728' ~~West 16 degrees North~~ N 74° W to a White Oak tree, this being a corner in the property line between J. G. Riddle and J. Y. Riddle, as recorded in Register of Deeds Office in Burnsville, N. C., Book #114, Page #385, and running 500' North; thence 500' East; thence 1000' South; thence 1000' West; thence 1000' North; thence 500' East to a point of closing. This property located three miles west of Double Island Church.

J.B. Rat

The Operator is in possession of the land pursuant to a lease dated September 6, 1956, from J. G. Riddle, running for a term of five years, renewable.

MF-205
(Combines and supercedes MF-201 and MF-203)
June 1956

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E 1040
Contract Date NOV 21 1956

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SEP 13 1956

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

Referring to that certain land in the County of Yancey, State of North Carolina, described as follows: 2/ Beginning on an iron stake in the center of what is known as the Riddle Prospect #2, which is located 728' West 16 degrees North to a White Oak tree, this being a corner in the property line between J.G. Riddle and J.Y. Riddle, as recorded in Register of Deeds Office in Burnsville, N.C., Book #114, Page #385, and running 500' North; thence 500' East; thence 1000' South; thence 1000' West; thence 1000' North; thence 500' East to a point of closing. This property located three miles west of Double Island Church.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom, to secure the payment to the Government of a percentage royalty on production as may be provided for by the Contract;

3. Subordinates the undersigned's right, title, claim, or interest in or against the land and in any production therefrom to the rights of the Government under the contract with respect to royalty on production and liens to secure same;

4. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none." Do not leave lines blank.)

None

1/ Mining or production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in Book _____, Page _____, official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

5. Undertakes and agrees (a) neither to commit an act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this Agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land, or any production therefrom furnishing the Government with two copies of such notice; and

6. Consents to all amendments (including an agreement of termination) and assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: _____ (State "None" or "See Annex No.____")

Dated this 6th. day of September, 195[illegible]

J. G. Riddle	[Seal]	Route 1, Box 187 Green Mountain, N. C.	[Address]
_____	[Seal]	_____	[Address]
_____	[Seal]	_____	[Address]
_____	[Seal]	_____	[Address]
_____	[Seal]	_____	[Address]
_____	[Seal]	_____	[Address]

I, _____ certify that I am the _____ _____ (Secretary, etc.) of the corporation named herein; that _____ _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

EXPLORATION PROJECT CONTRACT
JETER BOONE
DOCKET NO. DMEA-4463

EXHIBIT A

Description of the Work

The approximate location of the work is shown on the maps entitled, "Riddles Prospect, Yancey County, North Carolina, DMEA-4463 (Mica)" and "Map No. 2 Riddle Prospect DMEA-4463" attached hereto and made a part hereof.

The work shall be performed in two stages. The Operator shall perform the work in Stage I and as much of Stage II as is approved in writing by the Government.

Work shall be as follows:

Stage I

Excavate a trench approximately 180 feet by 15 feet by 10 feet deep along projected strike of the pegmatite.

Stage II

1. Bulldoze 2,000 feet of access road having the approximate dimensions of 2,000 feet by 12 feet.

2. Construct:

(a) A toolhouse, minimum dimensions 7 feet by 8 feet by 10 feet.
(b) A powder storage magazine, minimum dimensions 4 feet by 3 feet by 2½ feet.
(c) An exploder storage magazine, minimum dimensions 2 feet by 1½ feet by 1 foot.

The toolhouse may be unflooored; shall be made from unfinished lumber, with protective roof covering; and shall be equipped with lock and key.

The powder and exploder magazines shall be boxed on all sides; shall be made from 2-inch hardwood or 3-inch softwood lumber; and shall be braced at the corners. No metal shall be exposed; and the doors shall be equipped with the equivalent of a 5-tumbler jar-proof lock.

3. Sink 50 feet of two-compartment shaft.

4. Drive 80 feet of drift and/or crosscut from the shaft.

The shaft and drifts and/or crosscuts shall be timbered as necessary and shall have minimum cross-sectional dimensions of 5 feet by 7 feet in the clear of timber.

The location, direction, inclination and extent of all work are subject to the approval of the Government.

Fixed Unit Costs

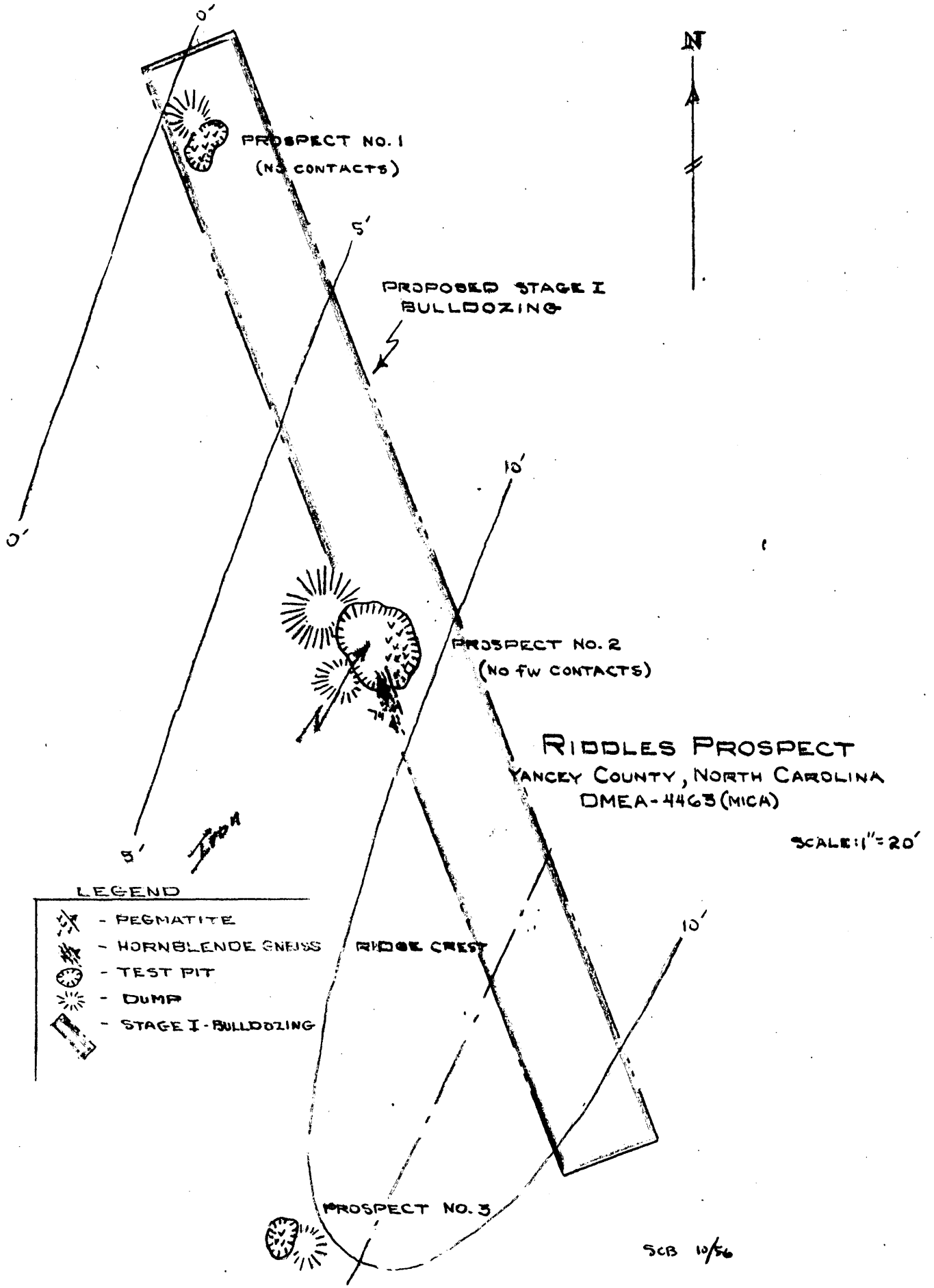
Stage I

Trench excavation 180 feet by 15 feet by 10 feet, 1,000 cubic yards @ $0.25/cu. yd.	$ 250.00	

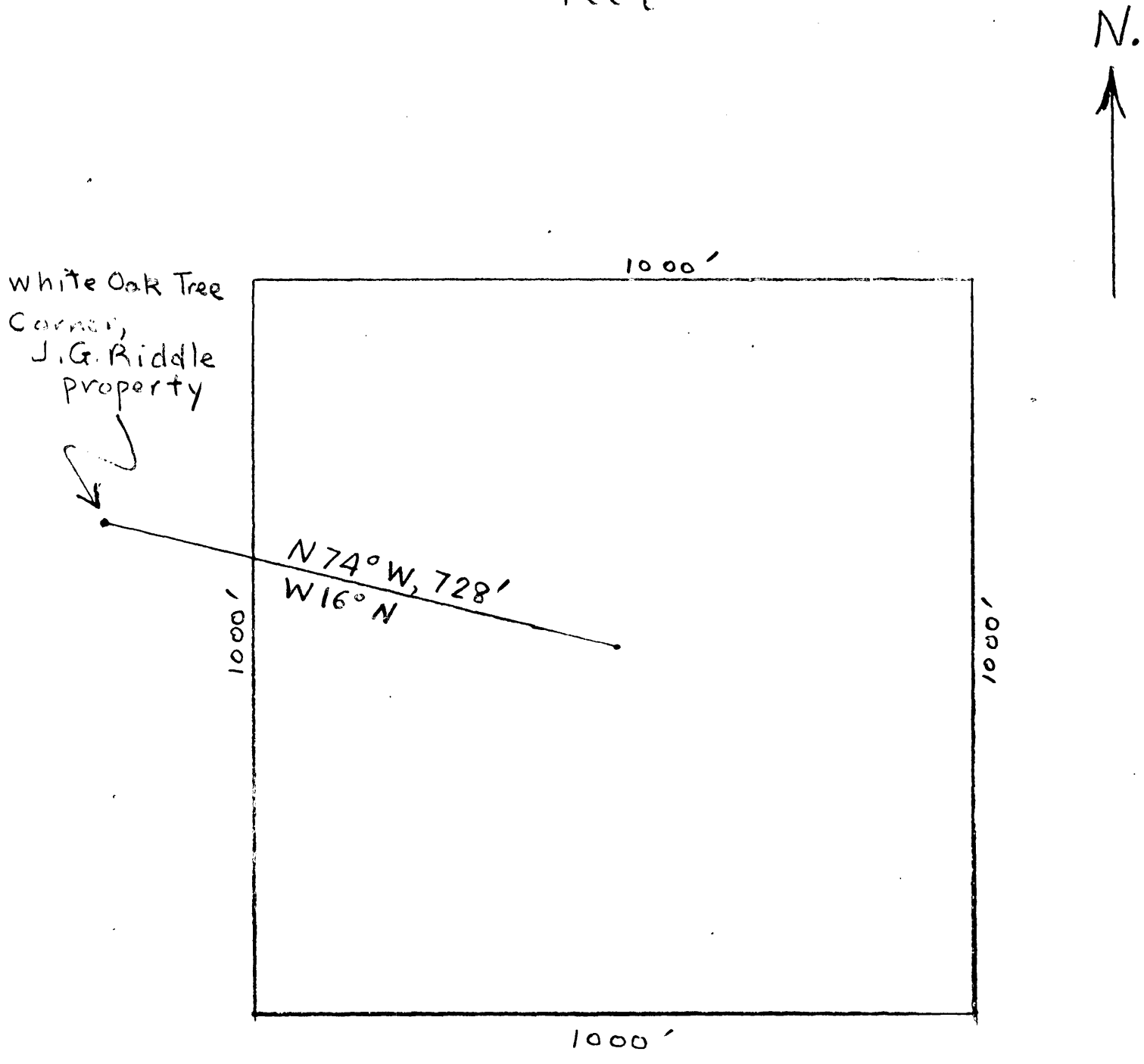
Stage II

1. Bulldoze access road 2,000 feet by 12 feet, 1,777 cubic yards @ $0.15/cu. yd. (rounded to)		266.00	
2. Construct:			
Toolhouse	$75.00 1/		
Powder Magazine	25.00 1/		
Exploder Magazine	16.00 1/	116.00	
3. Sink 50 feet of shaft @ $44.00/ft.		2,200.00	
4. Drive 80 feet of drift @ $33.00/ft.		2,640.00	
Estimated Total Cost of Project			$5,472.00
Government Participation @ 75%			$4,104.00

1/ The completed work constitutes the unit.


N
0'
PROSPECT NO. 1
(NO CONTACTS)
5'
PROPOSED STAGE I
BULLDOZING
10'
0'
PROSPECT NO. 2
(NO fw CONTACTS)
RIDDLES PROSPECT
YANCEY COUNTY, NORTH CAROLINA
DMEA-4463 (MICA)
SCALE: 1" = 20'
5'
LEGEND
- PEGMATITE
- HORNBLENDE GNEISS
- TEST PIT
- DUMP
- STAGE I - BULLDOZING
RIDGE CREST
10'
PROSPECT NO. 3
SCB 10/56

Map No. 2
Location Map DMEA 4463
Riddle prospect
1" = 200 feet



JUL - 2 1957

Mr. Peter Evans
Route 3
Kernersville, North Carolina

[illegible]

Dear Mr. Evans:

[illegible] your letter of [illegible] with the enclosure.

[illegible] sincerely regret that [illegible] be a certification of clearance on [illegible] under the terms of the contract. In the absence of such certification, the [illegible] not [illegible] property subject to the terms of any future relocation [illegible]. [illegible] to the [illegible] of the project. [illegible] to the provisions of the contract which [illegible] and [illegible] for the period [illegible].

[illegible] the [illegible] partial [illegible] be duly [illegible].

Sincerely yours,

G. O. Mittendorf

[illegible]

Enclosure [illegible]
Copy to: Mr. A. Ellis
Mr. Chambers
[illegible] Field Team, Region V
Mr. Gillispie, [illegible]
Mr. Metrick, [illegible]
J. G. Middle
Mr. [illegible]

JUL 2 1957

[illegible]
[illegible], Box 1[illegible]
[illegible]

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

Dear [illegible]

Enclosed [illegible] copy of a multi-[illegible] letter of [illegible] [illegible] under the [illegible] contract.

[illegible] correspondence relates to the [illegible] [illegible] [illegible] approved by you on [illegible], 1 [illegible].

Sincerely yours,

C. O. Mittenderf

Administrator

Enclosures

[illegible] 7/2/57
Copy to: Mr. [illegible]
Mr. Chambers
[illegible]
Mr. [illegible]
Mr. [illegible]
Operating Committee
Mr. [illegible]

June 28, 1957

Project Summary Report

By: Walter C. Anderson

1. Docket No. DMEA-4463-Mica
Contract No. Idm-E1040
Riddle Prospects 1, 2, and 3
Yancey County, North Carolina

Application: Form MF-103 (April 1952) received September 13, 1956.

Work Proposed by Applicant:

Bulldozing	$250.00
40 feet of shaft @ $50.00/ft.	2,000.00
40 feet of drift @ $35.00/ft.	1,400.00
Amount requested	$3,650.00

Operator: Jeter Boone
Route 3, Bakersville, North Carolina

Operator's Property Rights: Five year mining lease on the J. G. Riddle property consisting of 25 acres, dated September 6, 1956. Consent to Lien and Subordination Agreement of Lessors, dated September 6, 1956.

2. Contract: Form MF-200A (April 1956), dated November 21, 1956.

Work Authorized:

Stage I	
Excavate trench	$250.00
Stage II	
Construct access road	266.00
Construct toolhouse, powder & exploder magazine	116.00
50 feet of shaft @ $44.00/ft.	2,200.00
80 feet of drift @ $33.00/ft.	2,640.00
Estimated total cost of project	$5,472.00
Government participation @ 75%	$4,104.00

Amendments: None

Work Completed:

Stage I	
Trench excavation	$250.00
Total accepted cost	$250.00
Government participation @ 75%	$187.50

Only the work of Stage I was completed, which was accomplished in one day, November 21., 1956.
Terminated by letter of January 9, 1957.
Field Team Final Report received June 17, 1957. Operator's Final Report received December 17, 1956. No mica produced during operation. No equipment purchased under contract.

3. Audit: Report of Review issued January 28, 1957.

Total accepted cost	$250.00
Government participation @ 75%	$187.50

4. Certification of Discovery - none issued.

5. Comments:

How Conducted: All of the work in which the Government participated was acceptable.

Operation: Very little work done.

Engineering: Only as much work was done as was necessary to establish that no strategic mica existed.

Geologic Premise: The work proved that the indicated potential of pegmatite and mica did not exist.

Geologic Criteria Upon Which Work Was Based:

1. Pegmatite: Two prospect pits exposed an unzoned, concordant pegmatite 6 feet thick; composed of a mixture of weathered plagioclase, perthite, and considerable quartz.

2. Mica: Mica found on dump is gfeenish-brown, in small books, and free from cracks or mineral stain.

3. No past production.

Geologic Criteria Developed During Project:

1. Pegmatite: Two pinching and swelling lenticular pegmatites, badly weathered, and concordantly emplaced in a badly weathered hornblendic and micaceous gneiss and schist. One is 60 feet long by 12 feet thick, the other 45 feet long by 5 feet thick.

2. Mica: Nonstrategic quality, green, wedge to flat A, badly cracked, bent and intergrown with iron oxides. Books from 4 to 15 inches across.

Future Possibilities: None for the production of strategic mica.

Recommendations: Because of the very small productive areas outlined and the poor quality of the mica, the Field Team recommended termination of the project at the end of State I without certification. The Division of Nonmetallic Minerals and the Commodity Members of the Geological Survey and Bureau of Mines concur.

Walter C. Anderson
Division of Nonmetallic Minerals

WCAnderson:rsi 6/28/57
Copy to: Admr. R. File
Mr. Houk

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

EXTRA COPY
D M E A
RECEIVED JAN 11 1957

DATE	INITIALS	CODE
		600
		600
January 9, 1957		

Mr. Jeter Boone
Route 3
Bakersville, North Carolina

Re: DMEA-4463, Idm-K1040
Middles Prospect
Yancey County, North Carolina

Dear Mr. Boone:

The dozer trenching completed in Stage I of the subject contract did not expose a pegmatite of sufficient promise to continue the project. Therefore, Stage II of the contract is not authorized.

Very truly yours,

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

VJL/mg
cc
Operating Committee (3)
Mrs. Helen Miller
Mr. V. J. LYnch
Mr. L. E. Shirley
Mr. R. A. Laurence

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
ROOM 2 POST OFFICE BLDG.
KNOXVILLE 2 TENN.

REC	
DATE	

June 11, 1957

Memorandum

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

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

Subject: Final Report, DMEA-1463, Idm-E1040 (Mica)
Jeter Boone, Route 3, Bakersville, North Carolina
Riddles Prospect, Yancey County, North Carolina

Enclosed are the original and three copies of the subject report. This project was terminated by non-approval of Stage II.

We do not recommend certification.

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

Helmuth Wedow, Jr.
Geologist
U. S. Geological Survey

mg
Enclosures 4
cc - Operating Committee (3)
Mr. V. J. Lynch
Mr. L. E. Shirley
File

Reviewed by
DMEA OPERATING COMMITTEE
6-17-57
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

EXPLORATION DIV.
RECEIVED
DATE
130
220

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD TEAM FINAL REPORT, REGION V

On

DMEA-4463, Idm-E1040, RIDDLES PROSPECT (Mica)
Yancey County, North Carolina

By

S. C. Bergman, Geologist
U. S. Geological Survey

and

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
6-17-57
(date)

June 10, 1957

FINAL REPORT

On

DMEA-4463, RIDDLES PROSPECT
Contract Idm-E1040 (mica)
Yancey County, N. C.

EXTRA COPY
DMEA
RECEIVED

Operator: Jeter Boone, Route 3, Bakersville, North Carolina

SUMMARY

Two discontinuous trenches were excavated by bulldozer as part of Stage I of the contract. Two lenticular pegmatites were exposed in their entirety, along strike and across their width. Only a single small zone was exposed in each structure that could be called mica-bearing and the recovered mica was of such poor indicated quality, that it could not be called strategic. Because of the negative criteria exposed by Stage I, Stage II could not be authorized by the examiners and the project was considered terminated at that time. No certification can be recommended by the field examiners.

INTRODUCTION

Location

The prospect is located near the crest of Mine Knob on Green Mountain at an elevation of approximately 4060 feet. It is 3.43 airline miles N. 19° W. of Micaville, Yancey County, North Carolina. The presently productive Green Mountain Mine is 1800 feet N. 83° W. of the prospect site.

Previous Exploration

The only previous work prior to the contract was three shallow test pits lying in a roughly north-south line obliquely across the ridgetop. Each pit exposed a small increment of pegmatite which suggested some continuity between pits and enough of a favorable compositional and textural environment to justify at least a staged exploration project.

Outline of Contract Work

A 2-stage unit cost exploration contract was set up as of November 21, 1956. Actual contract work started and finished on December 10,

1956. Stage II work was not authorized because of the very small favorable area outlined by the bulldozing and the very poor quality of the muscovite recovered.

A trench was excavated by bulldozer which outlined the limits of all showings indicated on the contract map. Although the resultant work was not exactly as outlined, it did accomplish in excess of what was desired in the way of information. The two discontinuous trenches shown on the accompanying map are 140' x 15' x 10' and 110' x 15' x 6' and trend N. 20° W. and N. 13° W. respectively. They aggregate a total of 1144 cubic yards excavated, about 144 cubic yards in excess of that allowed under Stage I of the contract. A trail was cleared out to the nearest access road since the bulldozer had to be moved in anyway, but this work is not allowable under Stage I of the contract.

GEOLOGY

At least two distinct pinching and swelling lenticular pegmatites were outlined by the bulldozing. The most northerly of the two is about 60 feet along strike reaching a maximum thickness of 12 feet near the south end of the exposure. The structure strikes N. 20° W. and dips steeply to the southwest. The other pegmatite is about 45 feet along strike, reaching a maximum thickness of about 5 feet near the midsection of the exposure. It strikes roughly N. 12° W. and dips steeply to the southwest. Both structures are concordantly emplaced in badly weathered hornblendic and micaceous gneiss and schist. The pegmatites are badly weathered and decomposed, but appear to be largely a quartz-muscovite deficient aggregate of potash and soda feldspar. Each structure has a single small plagioclase-quartz-muscovite zone near or at the hangingwall contact and at the point of maximum pegmatite thickness.

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

EXTRA COPY
DMEA
RECEIVED JUN 19 1957
DATE | INITIALS | CODE
6/20 | Hirsh | 600

June 18, 1957

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Donald R. Irving, Acting Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4463 (mica)

Applicant: Jeter Boone

Name and Location of Property: Riddles Prospect, Yancey County, N. C.

Contract Number: Idm-E 1040

Date of Field Team Report: 6/10/57

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 6/17/57

Field Team Recommendation: Recommend no certification of discovery.

Comments:

1. A two-staged exploration program was authorized after applicant had exposed pegmatite in 3 shallow pits.
2. Stage I, consisting of two discontinuous bulldozed trenches, exposed two lenticular pegmatites in their entirety.
3. Only a small mica-bearing zone was exposed in each structure and this was of very poor quality.
4. Expenditures -

Total approved	$5,472.00
Total cost	250.00
Gov't. share of cost	187.50
Value of production during operation	Unknown
Royalty	None

5. Under expenditures on field team report, item (d) should be $3,916.50 ($4,104.00 minus $187.50) instead of $5,222.00.

Recommendation:

I concur with the recommendation of the field team that no certification be granted.

Signed

Ronald M. Irving

EXTRA COPY
DMEA
RECEIVED JUN 19 1957

DATE	INITIALS	CODE
6/19	[illegible]	600

June 18, 1957
Re: DMEA 4463 Lm-K1040
Jeter Boone
Riddles Prospect
Yancey County, North Carolina
Mica

Memorandum

To: L. G. Houk, Defense Minerals Exploration Administration

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

Subject: Review of Field Team Final Report

The contract awarded November 21, 1956, approved the expenditure of $5,472.00 on a 2-stage work program.

Only the Stage I work, bulldozing, was done. Two distinct pinching and swelling lenticular pegmatites were outlined by the bulldozing. One pegmatite is about 60 feet long and 12 feet wide. The second is 45 feet long and 5 feet wide. Both have narrow muscovite zones near their widest parts, but little of the mica is of strategic quality.

Because of the small size of the muscovite zones and the quality of the mica, the examiners and the Field Team recommended termination of the contract at completion of the Stage I work at a cost of $250.00.

Certification is not recommended. I concur with the recommendations.

N. E. Nelson

N. E. Nelson

Copy to: W. F. Dietrich, 3061
Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
Chron. file

NENelson:pbb
G: 6/18/57

600

MAY 31 1957

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

Re: Docket No. DMA-403-Tenn
Jeter Rooms
Riddle Prospects 1, 2, and 3
Yancey County, North Carolina
Contract No. 14-104C

Dear Mr. Laurence:

Reference is made to the subject contract which was terminated after completion of the work under Stage 1.

We have received the Operator's Final Report, dated December 17, 1956, but have not received the Field Team's Final Report. In order to close out this contract, it will be appreciated if this report is forwarded when convenient.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

A. D. McMahon

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

Enclosures 2

WAnderson:rsi 5/27/57
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 2505 C. BLDG.
KNOXVILLE 2, TENNESSEE

RECEIVED DEC 28 1956 D.M.E.A.

December 27, 1956

Memorandum

To: Operating Committee, DMEA - Washington

From: Acting Executive Officer, DMEA - Region V - Knoxville

Subject: Operator's Final Report - DMEA-4463, Km-21040-Mica
Middle Prospects, 2,3, and 1, Yancey County, N.C.

Attached are four copies of the subject final report.

The Field Teams final report is in preparation.

V. J. Lynch

cc
Lynch
Shirley
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
R. CLEAVER-INSTRUMENTS BLDG.
KNOXVILLE 2, TENNESSEE

Spruce Pine, North Carolina
December 17, 1956

Mr. Robert A. Laurence, Executive Officer
D.M.E.A., Region V
Room 13, P.O. Bldg.
Knoxville, Tennessee

Re: DMEA-4463, Idm-E 1040 - Mica
Riddles Prospect's 1, 2 and 3
Yancey County, North Carolina

We began work on the above Project on December 10, 1956, and stopped work upon termination of the Contract on December 14, 1956.

We moved in a bulldozer and excavated a trench along the strike of the pegmatite. The trench was 180 feet, by 15 feet, by 10 feet. (1000 Cubic Yards). The Contract was terminated at the end of Stage 1, because the prospect did not look promising enough from the geological standpoint.

We wish to thank the field team for their assistance on the Riddle Prospect's 1, 2 and 3. If further details are necessary, please contact us.

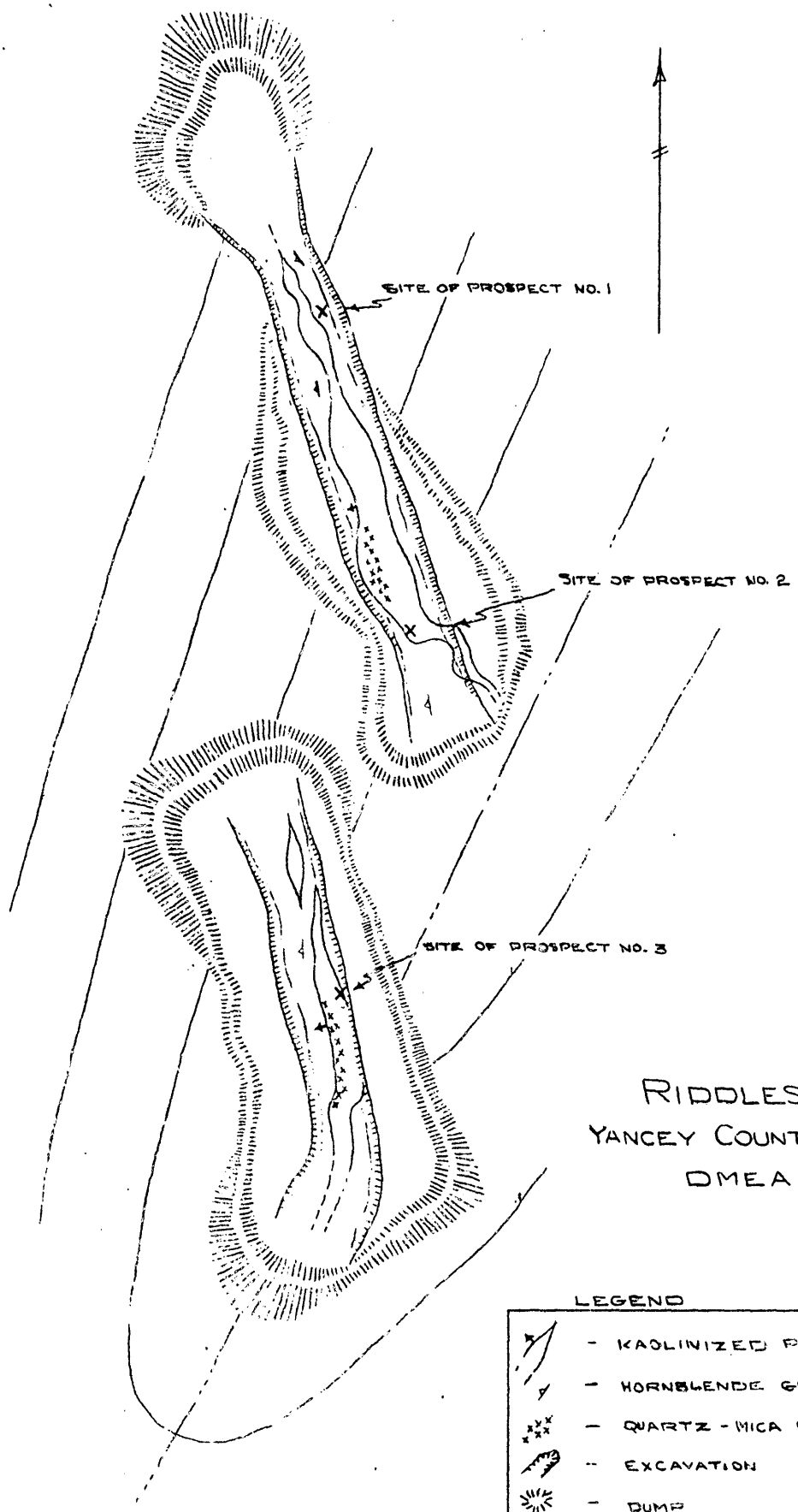
Very truly yours,

Jeter Boone

Jeter Boone

P/j

RECEIVED
DEC 21 1956



RIDDLES PROSPECTS
YANCEY COUNTY NORTH CAROLINA
DMEA - 4463 (MICA)

SCALE: 1" = 40'

LEGEND

- KAOLINIZED PEGMATITE
- HORNBLENDE GNEISS & SCHIST
- QUARTZ - MICA RICH ZONE
- EXCAVATION
- DUMP
- RIDGECREST

INTERIM REPORT

DMEA-4463, Idm-E1040 (mica) THE RIDDLE PROSPECTS

Operator: Jeter Boone, Route 3, Bakersville, North Carolina
Location: 3.43 airline miles N19°W from Micaville, Yancey County, North Carolina

The starting date on this contract is December 10, 1956. Stage I consisting of trench excavation along the strike of a pegmatite body has been completed. The trench is 180 feet long, 15 feet wide and 10 feet deep and followed essentially the trend of the pegmatite. The exposed body is 12 feet thick and is principally feldspathic with little quartz, and occasional blocks of muscovite containing considerable biotite stain, a green mottled stain and clay stain. The enclosing rock is hornblende-biotite gneiss which is highly weathered. The Field Examiners recommend that this contract be terminated at the end of this stage because of the barren nature of the pegmatite and the poor quality of the mica.

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

A. R. Taylor & S. C. Bergman
Geologists, U. S. Geological Survey

December 11, 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1, POST OFFICE BLDG.
WASHINGTON 25, D. C.
KNOXVILLE 2, TENNESSEE

RECEIVED DEC 12 1956 D.M.E.A.

December 5, 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Signed Contract - DMEA-4463, Idm-E1040 (mica)
Jeter Boone, Bakersville, N.C.

Transmitted are three signed copies of the subject contract. The usual distribution of the other copies has been made by this office.

Robert A. Laurence
Executive Officer, DMEA
Region V

ZM
cc
Lynch
Shirley
Files

V. J. LYNCH
MEMBER, BUREAU OF MINES
ROOM 1, POST OFFICE BLDG.
KNOXVILLE 2, TENNESSEE

NOV 21 1956

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

Re: Docket No. DMEA-4463-Mica
Jeter Boone
Riddle Prospects 1, 2 and 3
Yancey County, North Carolina

Dear Mr. Laurence:

Enclosed are the original and five copies of a proposed short-form contract signed by the Administrator for the Government. It consists of the form, Annex I (1 page), one Consent to Lien and Subordination Agreement, Exhibit A (2 pages), and two maps. Also enclosed are two extra copies of Annex I, Exhibit A, and the maps for Field Team use.

If the proposed contract meets with your approval, present it to the Applicant for execution. Please explain to the Applicant that the contract is a firm commitment to complete the work outlined at the agreed cost. Copies of the executed contract are to be distributed in the usual manner.

If any part of this proposed contract does not have either your approval or that of the Applicant and cannot be amended within your delegated authority, then the original and all copies of the contract and the two extra copies of Annex I, Exhibit A, and the maps are to be returned to this office, together with the proposed changes for consideration.

Copies of memoranda dated November 1 and 14, 1956, by Mr. N. E. Nelson, USGS, and Mr. Donald R. Irving, USBM, respectively, relating to the project are enclosed.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

P. F. Yopes

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

Enclosures 12

See P.S. next page

JHopkins:gad 11/15/56
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Docket No. DMEA-4463

P.S. The tie-in bearing given to the Consent to Lien and Subordination Agreement is ambiguous as it can be interpreted No. 16° W. or 16° north of west. Bearings should be given as so many degrees east or west of north or south. Maps should show an arrow indicating the direction to the tie-in point. If Map No. 2 is not based upon a correct interpretation of the bearing description, will you please replace it with a correct map. The applicants should not place the iron stakes where they will be destroyed by the DMEA work.

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

RECEIVED 15 1956 DMEA

November 14, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Donald R. Irving, Acting Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4463 (mica)

Applicant: Jeter Boone

Name and Location of Property: The Riddle Prospects, Yancey County, N. C.

Date of Field Team Report: 10/18/56

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 11/1/56

Field Team Recommendation: Recommend approval of a two-stage, unit-cost contract.

Comments:

1. This is a new prospect and no data available in this office on this property.

2. The field team reports prospect pits have exposed mica-bearing pegmatite.

3. Proposed exploration outlined by the field team is consistent with good engineering practices and estimated costs are in line with other DMEA projects.

Recommendation:

I concur with the recommendation of the field team.

Signed
Donald R. Irving

IN REPLY REFER TO:

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

November 1, 1956

Ref: DMEA 443
Water Canyon
Middle Prospects
Yancey Co., N. C.
Appl. est. $10,955
Rec'd. " 6,055.00
Mica

Memorandum

To: L. E. Houk, Defense Minerals Exploration Administration

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

Subject: Review of Field Team Report.

The applicant requested assistance in exploring 3 'new' pegmatites exposed in 3 pits.

The examiners found that 2 of the pits which were assumed to be on 2 pegmatites might be on the same pegmatite. In one of the 3 pits mica-bearing pegmatite is exposed and the examiners recommend that work be done on that pegmatite only. It is 6 feet wide, concordant and unzoned.

The staged work recommended consists of bulldozing, shaft sinking and drifting.

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

M. E. Nelson

M. E. Nelson

MENelson:btr
C 11/1/56

cc: W. F. Dietrich3061
Director's reading file (4212)
Branch reading file (4212)
DMEA (3)
Chron. file
Docket file

Memorandum:

From: James Hopkins

To: Files

Subject: Review of Application for exploration permit and Field Report

Docket No. 9MLA-4463 Mica

Peter Boone

Little Prospects No. 1, 2 & 3

Yancey County, North Carolina

Assistance to explore segments of pegmatites exposed in three shallow pits was requested by the applicants.

Two pits may be on the same pegmatite while the third is probably on a different pegmatite.

Mica:

Very little was seen in place. Muscovite found on the dump was small flat book books. It is greenish brown in color and free from scratches and stains.

Pegmatite:

Prospect pits 1 and 2 have exposed an unzoned pegmatite at least 6 feet thick. Wall rock of fine grain hornblende gneiss is exposed in pit 2.

It appears concordant and is composed of a mixture of weathered plagioclase and quartz with considerable disseminated garnet.

A strike length of 80 feet exists between pits Nos 1 and 2.

Prospect No 3 is seemingly widest from the other exposures

Old Workings:

Prospect #1 is a pit 8'x4'x2' caving in paramite.

Prospect #2 is a caved pit roughly 12' in the shape by 10' deep.

Prospect #3 is a 1 ft diameter depression but barely scratched the surface

Recommendations:

There has been no production

Proposal:

Field examiners recommend the pitting of Prospects Nos 1 and 2: to be done in stages.

Building a strike trench 180'x15'x10'

Sink 50 feet of shaft

Drift 80 feet from bottom of shaft

Total Cost $6,000.00

Recommendations:

The proposal is sound exploration practice and is therefore recommended by the writer.

As the rock appears hard to be in "Mariposa" material, Cost Costs of $40.00/ft for shaft and $30.00/ft for drifting should prevail

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

RECEIVED
OCT 31 1956

October 29, 1956

Memorandum

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

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

Subject: Field Examination Report DMEA-4463 (Mica)
Jeter Boone, Bakersville, North Carolina
The Riddle Prospects, Yancey County, North Carolina

Enclosed are the original and three copies of the subject report, and nine extra copies of the sketch map. The beginning point of the legal description of the leased area is apparently in the center of the nearly-circular pit no. 2, so that it is located within 10 feet. However, no iron stake could be located in this area.

We recommend approval of a contract as outlined in the report. Preferably, it should be a two-stage, unit cost contract.

Robert A. Laurence
Executive Officer

V. J. Lynch
Member, Bureau of Mines

RAL/mg
Enclosures
cc
Operating Committee (3)
Lynch
Shirley
File

Reviewed by
DMEA OPERATING COMMITTEE
11/2/56
(Date)

RECEIVED
OCT 31 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
OCT 31 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION, REGION V

On

DMEA-4463, THE RIDDLE PROSPECTS - Mica
Yancey County, North Carolina

By

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

and

S. C. Bergman, Geologist
U. S. Geological Survey

October 18, 1956

11/2/56

FIELD EXAMINATION REPORT

On

DMEA-4463 (mica) THE RIDDLE PROSPECTS

RECEIVED
OCT 31 1956

Applicant: Jeter Boone, Route 3, Bakersville, North Carolina

Summary

Three shallow prospect pits near the crest of Green Mountain expose segments of pegmatite, two of which may be the same structure. Pegmatite and mica of good indicated potential are exposed in pit number 2. It is recommended that a 2-stage exploration contract be given to further explore the exposures.

Introduction

Location

The prospect is near the crest of Mine Knob on Green Mountain, at an elevation of approximately 4060 ft. It is 3.43 airline miles N. 19° W. from Micaville, Yancey County, North Carolina. The Green Mountain mine, a present producer, is 1800 feet N. 83° W. from the prospect site. (Micaville, N. C. Quadrangle, TVA Ed. 1934, 1:24,000).

Examination

The examiners were accompanied by Mr. John Phillips and Mr. Jeter Boone. The examination was made on October 18, 1956 and required an interval of about 2½ hours. The applicant has always been most cooperative with the examiners and has executed past DMEA contracts in a satisfactory manner.

There has been no past production and only surficial exploration at this group of exposures. They are too close together to be treated as three separate prospects or to be considered for three separate exploration programs. Prospects 1 and 2 are very likely on the same structure and have

some indicated potential. Prospect 3 does not have the same potential and is seemingly isolated from the other two exposures. Work recommended covers Prospects 1 and 2.

The prospects are situated on the open, gently sloping, crestal portion of Green Mountain. There is no access road, equipment, improvements or source of water at the site. Road would have to be bulldozed about 2000 feet from the vicinity of the Green Mountain mine. Prospect 1 is a pit 8' x 4' x 2' deep, entirely in pegmatite. Prospect 2 is 80 feet S. 20° E. from No. 1 and is a caved pit roughly 12 feet in diameter and 4 feet deep. From the amount of dump it may have been 10 feet deep. Prospect 3 is 90 feet S. 10° W. of No. 2 and is a 5-foot diameter depression that barely scratched the surface.

Geology

Prospect pits 1 and 2 have exposed an unzoned pegmatite at least 6 feet thick. Wall rock composed of fine grain hornblende gneiss is exposed in pit number 2. Its attitude is N. 16° W., 74° SW. The pegmatite appears to be concordant with the wall. The attitude of the contact suggests that pegmatite in pits 1 and 2 are the same structure. The pegmatite is composed of a mixture of weathered plagioclase and perthite with considerable disseminated quartz. Some large masses of quartz were found on the dump at pit number 2. Very little mica was seen in place. Muscovite found on the dump was in small flat hard books. It is greenish-brown in color and free from cracks or mineral stain. A small amount of graphic textured material was found on the dump at pit number 1.

Conclusions and Recommendations

Fairly good strike length continuity and potential for the occurrence of strategic muscovite is exposed in test pits 1 and 2. It is proposed that a 2-stage exploration contract be set up. Stage I is recommended as a bulldozer trench 180 x 15 x 10 feet deep (1000 cubic yards @ $0.25/cubic yard), starting at pit 1 and running southwestward through pit 2. Stage II is recommended as 2,000 feet of road, 50 feet of shaft in pegmatite, as determined from the bulldozing results, and 80 feet of drift and/or crosscut.

Estimated Costs:

Stage I

Trench excavation: Bulldoze a trench
180' x 15' x 10' along projected strike of pegmatite.
1,000 cu. yds. @ $0.25/cu.yd. 180 x 15 x 10 = 1000 — $250.00

Stage II

Bulldoze 2,000 feet of access road
2,000' x 12' x 2' = 1777 cubic yards @ $0.15/cu.yd. — 266.00

Toolhouse	$75.00	
Powder Magazine	25.00	
Exploder Magazine	15.00	
		115.00

Sink 50 feet of two-compartment shaft,
5' x 7' in cross-section, with separated
manway (33 shifts)

Labor:

1 - Foreman-Miner @ $1.75/hr.	$467.00	
1 - Hoistman @ $1.50/hr.	400.00	
1 - Laborer @ $1.00/hr.	267.00	
	1134.00	

Equipment Rental:

1 - 105 c.f.m. Air Compressor @ $150/Mo.	247.50	
1 - Rock drill w/air hose @ $50/Mo.	82.50	
1 - Hoist, gasoline-powered @ $50/Mo.	82.50	
1 - Sump Pump @ $85/Mo.	140.50	

Supplies:		
Gasoline and oil	$103.50	
Explosives	162.50	
Drill steel	90.00	
Timber - 2500 b.f. @ $65/M	162.50	
Small tools, pipe, etc.	100.00	
Liability Insurance and Social Security	127.00	
Sales Tax	18.50	
	769.00	
($49.02/ft) Estimated Total Cost of Shaft Sinking		$2,451.00

Drive 80 feet of drift and/or crosscut, 5' x 7' in cross-section and timbered where necessary - 40 shifts.

Labor:		
1 - Foreman-Miner @ $1.75/hr. 14.00/day	$560.00	
1 - Hoistman @ $1.50/hr.	480.00	
1 - Laborer @ $1.00/hr.	320.00	
	1360.00	
Equipment (rental):		
1 - 105 c.f.m. Air Compressor @ $150/Mo.	300.00	
1 - Hoist, gasoline-powered @ $50/Mo.	100.00	
1 - Rock drill w/air hose @ $50/Mo.	100.00	500
1 - Jackleg @ $35/Mo.	70.00	
1 - Air Sump Pump @ $85/Mo.	170.00	
Supplies:		
Gasoline and oil	140.00	
Explosives	220.00	
Drill steel	120.00	
Timber - 2,000 b.f. @ $65/M.	130.00	
Small tools, pipe, etc.	90.00	
Liability Insurance and Social Security	152.00	
Sales Tax	21.00	
	873.00	
($37.16/ft) Estimated Total Cost of Drifting		$2,973.00
Estimated Total Cost of Project		$6,055.00

Examined: October 18, 1956

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

S. C. Bergman, Geologist
U. S. Geological Survey

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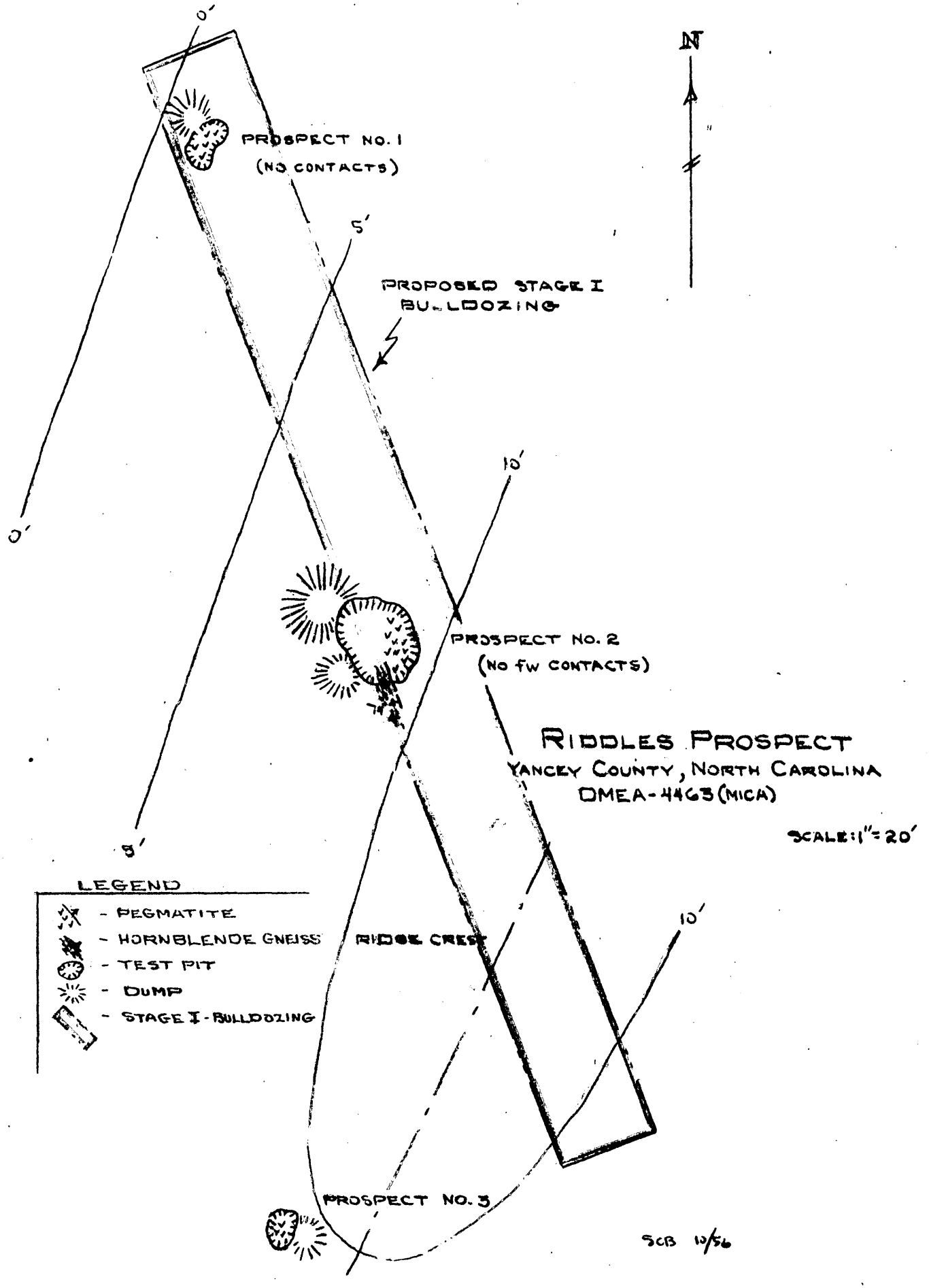
5872
8913.00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0'
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PROSPECT NO. 1
(NO CONTACTS)
PROPOSED STAGE I
BULLDOZING
PROSPECT NO. 2
(NO fw CONTACTS)
RIDDLES PROSPECT
YANCEY COUNTY, NORTH CAROLINA
DMEA-4463 (MICA)
SCALE: 1" = 20'
LEGEND
- PEGMATITE
- HORNBLENDE GNEISS
- TEST PIT
- DUMP
- STAGE I - BULLDOZING
RIDGE CREST
PROSPECT NO. 3
SCB 10/56

600

SEP 28 1956

Mr. Jeter Boone
C/O Mr. Sam Phillips
Spruce Pine, North Carolina

Re: Docket No. DMEA-4463-Mica
Jeter Boone
Riddle Prospects 1, 2 and 3
Yancey County, North Carolina

Dear Mr. Boone:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division 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, for further consideration and possibly a field examination.

The Regional Office will contact you at an early date if an examination is to be made. Any assistance you may give the members of the Field Team during the examination will be appreciated.

Sincerely yours,

C. O. Mitteudorf

Administrator

JHopkins:gad 9/24/56
Copy to: Admr. R. File
Docket
Field Team, Region V
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

600

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

SEP 2 6 1956

Re: Docket No. DMEA4463-Mica
Jeter Boone
Riddle Prospects 1, 2 and 3
Yancey County, North Carolina

Dear Mr. Laurence:

Please review the subject application and arrange for a field examination if you deem it necessary.

Copies of memoranda dated September 18 and 20, 1956, by Mr. W. E. Nelson, USGS and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

Frank D. Lamb

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

Enclosures 4

JHopkins:gad 9/24/56
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

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

September 20, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: W. F. Dietrich, Chief
Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4463 (mica)

Applicant: J. Boone

Name and Location of Property: Riddle Prospects 1, 2, and 3,
Yancey County, N. C.

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 9/13/56

Comments:

1. The applicant states that this is a new prospect and no data available in this office on this property.

2. No relationship is given between the 3 prospects.

3. Although it would be desirable for the applicant to furnish more complete information, it appears that a visit by an examiner would furnish more useful data.

Recommendation:

It is recommended that the field team visit this mine when in that vicinity to ascertain if an exploration project is justified. If so, the field team and applicant should agree on a definite plan of exploration on a unit-cost basis.

Signed
W. F. Dietrich

Attachment

9/13

MI 103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

RECEIVED
SEP 13 1956

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 4463
Metal or Mineral Mica
Date Received 9-13-56
Estimated Cost $10,950
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Jeter Boone
Route 3 c/o Sam L. Phillips
Bakersville, N.C. Spruce Pine, N.C.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Legal description given on attached lease.

(*b*) State any mine name by which the property is known. Riddle Prospects 1, 2 and 3.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. Lease attached.

(*e*) If you own the land, describe any liens or encumbrances on it Do not own land.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. None

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See sheet.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Mica

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc. See sheet.

(*c*) The work will start within 30 days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. Now on file with DMEA.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project: See sheet.

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

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*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes

(*b*) How do you propose to furnish your share of the costs?

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

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.

Dated 9-6-56, 195...

(Applicant)

By Jeter Boone

Jeter Boone

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

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SEP 1 3 1955

MF-103 (Continuation Sheet)

4. (a) This is a new prospect, no previous operations have been conducted.

(b) No past production.

(c) On all three prospects there is an out-cropping of vein which indicated that mica may be found by exploration work.

(d) Project is accessible to roads and shipping.

(e) Manpower, supplies and equipment are available. Power is about 1500 ft. away.

5 (b) We propose to bulldoze a cut 100 ft., 10 ft. deep and 12 ft. wide, then sink a shaft a depth of 40 ft. and drift with vein a distance of 40 ft. The same procedure to be used on each prospect.

6. Estimate of costs:

No. 1

25 hrs. bulldozing @ $10.00 - - - - $ 250.00
(Bulldoze cut 100 ft. 10ft.deep and 12ft. wide)

40 ft. Shaft @ $50.00 per. ft. - - - 2000.00

40' Drift @ $35.00 per.ft. - - - - - 1400.00

Total estimated cost of project: 3650.00

No. 2 Same

No. 3 Same

Total estimated cost of projects 1, 2 and 3. $10,950.00

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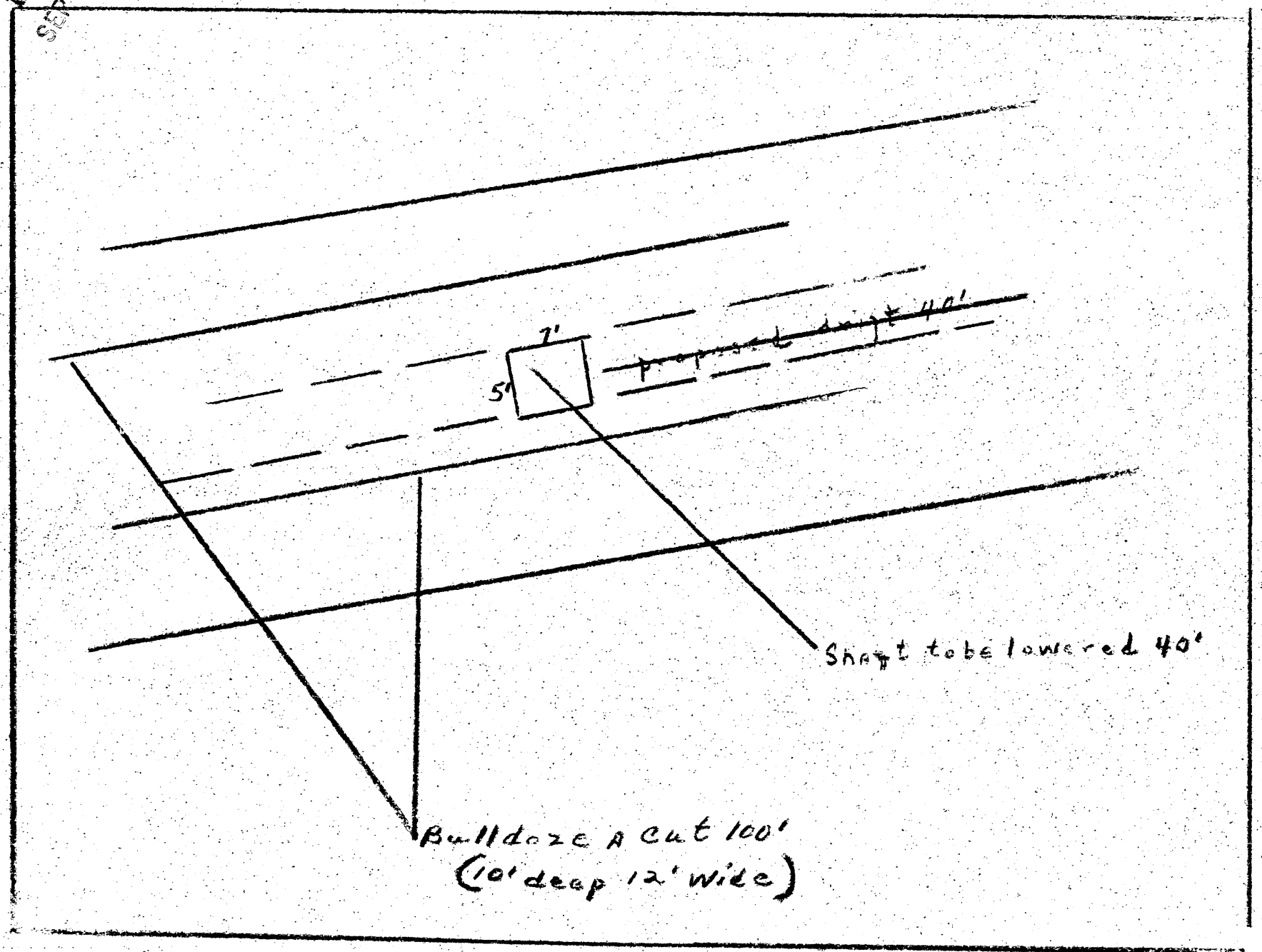
SEP 12 1983

Riddle Prospects - 1, 2 and 3

Yancey County, N.C.



MINING LEASE

RECEIVED
SEP 13 1956

State of North Carolina Yancey County:

This indenture made this 6th. day of September, 1956 ~~19__~~

between J.G. Riddle

of Yancey County and State of North Carolina as party of the first part, and known as lessor__, and Jeter Boone

of Mitchell County and State of North Carolina, party of the second part and known as lessee.

WITNESSETH, That the part__ of the first part in consideration of One Dollar in hand received and hereby acknowledged by the lessor__, and in consideration of the agreements hereinafter contained, on the part of the party of the second part to be performed, hereby bargains, leases and grants to the party of the second part, and his heirs and assigns, for the period of five years from the date of this agreement, the following described real property, for mining purposes, in the County and State first above written to wit:

Beginning on an iron stake in the center of what is known as the Riddle Prospect #2, which is located 728' West 16 degrees North to a White Oak tree, this being a corner in the property line between J.G. Riddle and J.Y. Riddle, as recorded in Register of Deeds Office in Burnsville, N.C. Book #114, Page #385, and running 500' North; thence 500' East; thence 1000' South; ~~thence 1000' West; thence 1000' North; thence 500' East to a point of closing.~~ This property located three miles west of Double Island Church.

TO HAVE AND TO HOLD the said lands to him, for mining purposes, the said lessee and his heirs and assigns for the aforesaid period of five years in compliance with the condition of this instrument, for the purpose and with the right to dig, quarry, search, explore for, obtain, and remove any kind of minerals, metals or fossils, and particularly mica, and to conduct the same to any extent the said party of the second part, the lessee, may desire. And it is hereby agreed between the parties to this agreement that the party of the second part is to have the use of any unoccupied buildings on said lands for mining purposes, and that he shall have the right to erect such buildings as he needs to carry on such mining operatins during the period of this lease, and that the party of the second part shall keep the same in as good condition as when received, unavoidable accidents excepted. And it is also agreed by the party of the second part that no unnecessary damage is to be done to the lands herein leased during the period of this lease and the continuance of said lease, but the said party of the second part shall have the right to take from said lands leased to the party of the second part any wood or timber the party of the second part may need to carry on said mining operations or which may be needed to carry on the addition to existing buildings or to erect new buildings or sheds on said lands. (Timber of high or special market value is excepted and shall not be used by the lessee.) And it is hereby agreed that the party of the second part, the lessee, is to have right-of-way of ingress and egress to said mines or land upon which exploration is being conducted.

AND IT IS FURTHER AGREED That the party of the second part, the lessee hereby agrees to pay to the said part__ of the first part, or his or their heirs or assigns, a rental royalty of 1/8 (One-Eighth)

on the minerals taken and sold from said mines which shall be for the use of the said lands for the aforesaid period of five years. The said amounts shall be payable on the computation of selling bills on the tenth day of each month covering sales made during the previous month. Any minerals other than those set forth above which may be taken and sold shall be paid for and at the usual royalty rate of the minerals taken.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, shall have the option to renew this lease and to extend the period of its running for an additional five years from the date of its present termination. The option shall be exercised by giving formal written notice to the party of the first part or by the continuation of any mining operations then being conducted. The lessor__ reserve the right to use the land, or convey the same not conflicting with this lease, but under any conveyance the terms of this lease must be recognized by the grantee, purchaser, or assigns thereof. And it is agreed that the lessee may assign this mining lease or any part thereof and that he may sublease.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, is hereby given an option to purchase all the right, title and interest, legal and equitable to and in the real estate described and set forth in this lease for a total purchase price of_____, said purchase price to be paid in full within three years from the date of this instrument and it is agreed that all rental royalties paid to the party of the first part shall apply toward and be a part of the total purchase price above set forth, and that at such time that the total purchase price is paid in the form of royalties or a lump sum payment or a combination of both, the party of the first part will execute a special warranty deed to the party of the second part and that a tender of the remaining purchase price at any time within the next three years shall entitle the party of the second part to specific performance of this option contract.

BUT IT IS EXPRESSLY AGREED That unless mineral or fossil material of practical value for mining purposes shall be found within a period of two years from the date of this instrument, the lease may be terminated by the lessee at any time thereafter on thirty days notice to the lessor__. The lessee agrees that during the period of this lease or the continuance of this lease work in said mines or exploration for new mines within the area leased shall not cease longer than ninety days at any one time, unavoidable accidents excepted.

WITNESS our hands and seals the day and year first above written.

Witness: (Signed) J.Y. Riddle (Seal)

(Seal)

Kenneth R. McKinney, Notary Public _____ (Seal)

_____ (Seal)

RECEIVED
SEP 18 1956

September 18, 1956

Re: DMEA 4463
Jeter Boone
Riddle Prospects 1, 2 & 3
Yancey Co., N. C.
$10,950.00 - Mica

Memorandum

To: L. G. Monk, Defense Minerals Exploration Administration

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

Subject: Review of application.

The applicant requests assistance in exploring 3 pegmatites by bulldozing, shaft sinking and drifting. No information is given concerning the pegmatites except that they are 'new' and the outcrops indicate mica may be found by exploration work.

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

N. E. Nelson

N. E. Nelson

NENelson:iml
G-9/18/56

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
W. F. Dietrich, 3061