☑ Audited R&R 6/9/54 WORK ANALYSIS SHEET – DMEA PROJECT ☐ Actual Cost

☐ Certified Analysis as of 12/2/54 ☑ Agreed Unit Costs
Incl. Voucher for April 1954

Name Bom Guy Docket No. 2892

State NC. Commodity Mica. Idn-E No. 642

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	40	1200	40	$1200	$1200
Raising					
Shafts	35	1400	27	$1080	$1080
Winzes					
Drilling (Specify)					
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify)					
Totals		$2600		$2280	$2280

Prepared by L G H.

No. 201 DMEA-2692
4-10-53 Misc
Region VII

EARL-GAY MINING COMPANY, GAFFNEY, SOUTH CAROLINA. Humphries
Property, Cleveland County, North Carolina.
Field Report recommending approval. The report was re-
ferred to the Formality Group.

DMEA-2692
Misc
Region VII

Field Referral - Application

EARL-GAY MINING COMPANY, GAFFNEY, SOUTH CAROLINA. Humphries
Property, Cleveland County, North Carolina.
Letter to the Field Requesting an examination and report
and letter to the applicant requesting a copy of a report made by the Bureau of Mines and
the Geological Survey. Letter to the applicant with copy of
Humphries's report. Letter to the applicant with copy of
Dunbell and Bauer's report. Letter to the applicant to advise whether the
[illegible] the applicant to advise whether the

#190
3-16-53

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

H. F. Barnhill and W. A. Gay
d/b/a Barn-Gay Mining Company
Gaffney, South Carolina

pertaining to Exploration Project Contract No. Idm-E642, Docket No. DMEA-2892, for the months of January, 1954 to April, 1954, inclusive, covering a project for the exploration of mica on property, known as the Humphries Property, located in Cleveland County, North Carolina.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, verification of work performed by reference to the Final Report of the DMEA Field Team, 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 following reason:

all of the costs incurred were under a contract provision for payment by the Government on the basis of agreed estimated costs of units of work actually performed.

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

Total cost as billed by Contractor		$2,280.00
Exceptions:		
By DMEA Finance Officer	$ -0-	
Herewith	-0-	-0-
Total Accepted Cost		$2,280.00

The contract calls for a 90 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Two thousand fifty-two and no/100 Dollars,

$2,052.00

is considered valid and proper, provided that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

B. J. Brekhus, Auditor

June 9, 1954

MF-200 (A)
(February 1952)

DOCKET NO. DMEA 232

COMMODITY Mica

Division Copy
IDM-E 642

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

EXPLORATION PROJECT CONTRACT[1]

(Short Form)

IT IS AGREED this 19th day of November, 195 3, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] C. F. Lamell and W. A. Gay, Partners, doing business as Lam-Gay Mining Company
200 West Pinnie Street
Gaffney, South Carolina

hereinafter called the "Operator," as follows: and as set forth in Annexes I and II attached hereto and made a part hereof

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of North Carolina, County of Cleveland, described as follows[3] as set forth in Annex I and indicated on the map attached hereto and made a part hereof and entitled Sketch of Mapnites Property, Cleveland County, N. C., leased to Lam-Gay Mining Co.

the Operator represents and undertakes:[4]

~~(a) That the Operator is the owner in possession and entitled to possession, and that the property is subject only to the following claims, liens or encumbrances, each of which the subordination agreement of the holder is attached:~~

(b) That the Operator is a lessee, in possession and entitled to possession, and the Owner's Consent to Lien is attached.

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for[5] Mica

in or upon the described land; and shall bring the project to completion within a period of six (6) months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 50 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $2,500.00, which is 50 percent of $2,500.00, the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or 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 ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(a) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

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

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations. See Amen II, substituted for Article 6.

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided,* that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 8. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if, in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* _____

_____

_____

_____

_____

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. Mittendorf
Administrator, Defense Minerals Exploration Administration

BANGAY MILLING COMPANY
(Operator)

By H. E. Bangsberg, Partner

By W. W. Gay, Partner

Approved
Butler
Hoch
Talbert

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]

EXPLORATION PROJECT CONTRACT
BARN-GAY MINING COMPANY
DOCKET NO. DMEA-2892

ANNEX I

The right to mine, dig, mill, process and remove all mica on the land referred to in Article 2 of the contract form was obtained by the Operator under a mining lease dated February 3, 1953, from Mrs. Beulah Humphries. The land is known as that of A. G. Humphries, is in No. 1 Township, and is described in the deeds recorded in the Registry for Cleveland County, N. C., in Book of Deeds 6-B at pages 633 and 635.

ANNEX II

The following provisions are in lieu of Article 6 :

Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(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 of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by this contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production (including any bonuses), in whatever form disposed of, including ore, concentrates, or metal, as follows:

(a) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(b) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts, plus one-half ($\frac{1}{2}$) per cent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half ($1\frac{1}{2}$) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half ($3\frac{1}{2}$) per cent.)

c. Definitions.--As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

d. Lien for Payment.--To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

EXPLORATION PROJECT CONTRACT
BARN-GAY MINING COMPANY
DOCKET NO. DMEA-2892

EXHIBIT "A"

Description of the Work

Exploration for concentrations of strategic mica is to be accomplished by the work indicated on the attached map entitled, 'Sketch of Humphries Prospect Cleveland Co., N. C. - DMEA 2892 (mica),' and as described below.

1. Sink on the pegmatite not more than 35 feet of a two-compartment test pit 5 feet by 7 feet in cross section and equipped with approved ladders. If the pit is steeper than 50 degrees, it shall have a partition between the compartments.

2. Drive drifts 5 feet by 7 feet in cross section 40 feet on the pegmatite from the bottom of the shaft.

The location, direction and extent of all work shall have prior approval of the Government.

Agreed Unit Costs

35-foot test shaft @ $40.00/ft.	$1,400.00	
40 feet of drifts @ $30.00/ft.	1,200.00	
Total Agreed Unit Costs		$2,600.00
Government Participation @ 90%		$2,340.00

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of North Carolina, County of Cleveland described as follows:1/

Lands, lying and being in Number One Township, Cleveland County, N. C., and being the lands described in those deed of Records in the Registry for Cleveland County, N. C. in Book of Deeds 6-B at page 633 and 6-B at page 635

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ H. F. Barnhill and W. A. Gay, trading as Barn-Gay Mining Company

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof, there is hereby granted to the Government a lien upon the land above referred to and upon any production of minerals therefrom, until said royalty is fully paid or ten years have elapsed from the date of the contract, whichever occurs first.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions _____

Dated this 12 day of February, 195 3.

Mrs Beulah Humphries [Seal]

_____ [Seal]

_____ [Seal]

1/ 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.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

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

Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(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 of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, as follows:

(a) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(b) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

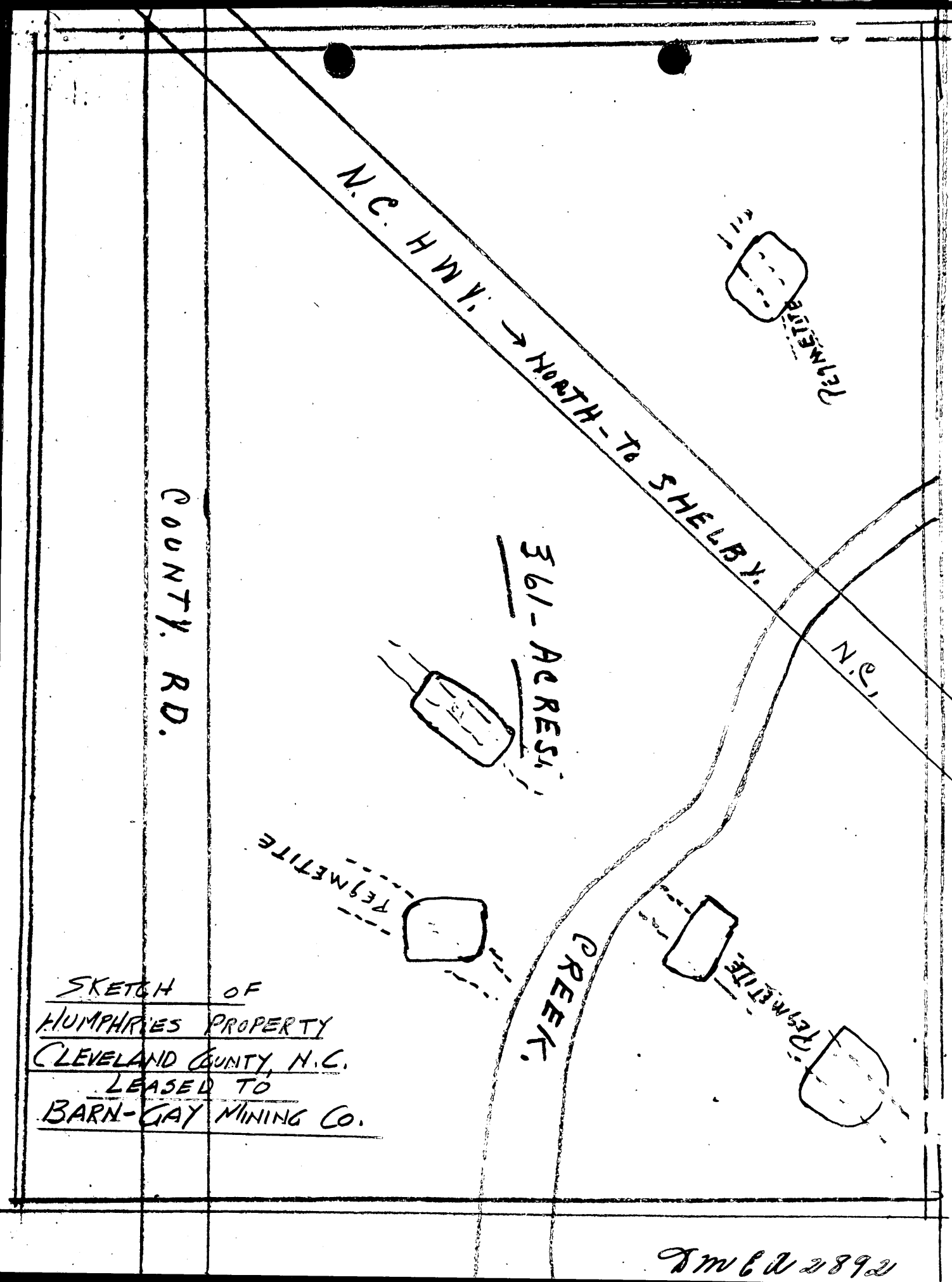
(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

c. Definitions.--As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

d. Lien for Payment.--To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.



SKETCH OF
HUMPHRIES PROPERTY
CLEVELAND COUNTY, N.C.
LEASED TO
BARN-GAY MINING CO.

DMEA 2892

Project Summary Report

By: Walter C. Anderson June 21, 1954

1. Docket No. DMEA-2892 - Mica
   Contract No. Idm-E642
   Humphries Prospect
   Cleveland County, North Carolina

   Operator - Barn-Gay Mining Company
   208 West Birnie Street
   Gaffney, South Carolina

   Operator's property rights -
   Five year lease and option - dated February 3, 1953
   Owner's Consent to Lien - dated February 12, 1953

2. Contract - dated November 19, 1953.

Work authorized:	
35 feet of test shaft @ $40.00/ft.	$1,400.00
40 feet of drifting @ $30.00/ft.	1,200.00
Total agreed unit costs	$2,600.00
Government participation @ 90%	$2,340.00

Amendments: None

Work completed:	
27 feet of test shaft @ $40.00/ft.	$1,080.00
40 feet of drifting @ $30.00/ft.	1,200.00
Total accepted cost	$2,280.00
Government participation @ 90%	$2,052.00

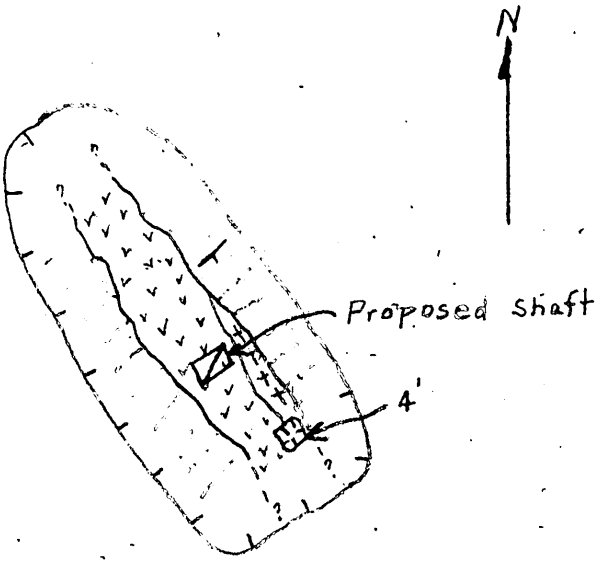
Work began on January 13, 1954, and completed April 21, 1954. About 200 pounds of clay-stained "mine-run" mica was recovered during operation, from which field team estimates would yield only about 1/2 percent trimmed strategic mica.

Final Field Team Report received May 10, 1954.
Operator's Final Report: Field Team waives the necessity of this report.

3. Audit - certificate issued June 9, 1954 (no exceptions).

Accepted cost	$2,280.00
Government participation	$2,052.00

4. Certification of discovery - none issued.



Sketch of
Humphries Prospect
Cleveland Co., N.C.

0 20' 40
Scale

DMEA-2842 (mica)

5. Comments:

How conducted - carried out the work on schedule as authorized in the contract.

Operation - good.

Engineering - reporting by Operator was inadequate.

Geological premise - the premise that the pegmatite would continue was incorrect, as it suddenly bottomed at from 8 to 25 feet from the surface.

Geological criteria upon which work was based:
1. Weathered pegmatite 8 feet thick.
2. Mica occurrence, frozen to a 3 foot thick quartz core.
3. Some strategic mica recovered by prospecting.

Criteria developed during project:
1. Disconformable pegmatite which bottoms abruptly.
2. Clay stained "mine-run" mica which will yield only about 1/2 percent strategic mica.

Future possibilities: Are remote for production of strategic mica.

Recommendations: The Nonmetallic Minerals Division agrees with the field team that a certification of discovery should not be issued since the work indicated that reserves of mica are insignificant. The Geological Survey and the Bureau of Mines concur.

WCAnderson:gad 6/21/54
Copy to: Admr. R. File
Mr. Houk

JUN 22 1954

Barr-Coy Mining Company
208 West Ninth Street
Gaffney, South Carolina

Re: Docket No. DMA-2892 - Mica
Humphries Prospect
Cleveland County, North Carolina
Contract No. DMA-2412

Gentlemen:

We are pleased to advise you that your performance of exploration work under the subject contract has been acceptable to the Government, and the account relating thereto has been closed. The final audited and settled account shows:

Total claimed for units of work performed	$2,280.00
Total Government contribution at 90 percent	$2,052.00

Your attention is called to the provision of the contract which requires you to keep and preserve your records and documents of this transaction for a period of three years for possible future reference.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the exploration contract. In the absence of such certification, the Government retains no claim or lien against the property or any production therefrom except with respect to any production between the date of the contract and the end of the period within which the Government might make such certification.

The Government is grateful for your participation in the exploration program of the Defense Minerals Exploration Administration.

Sincerely yours,

C. O. Mitteadorf

Administrator

WCAnderson:gmd 6/22/54

Copy to: Admr. R. File
Docket File
Field Team, Region VII
Mrs. Beulah Humphries (attached to Field Team copy for forwarding).
Mr. Chambers
Mr. Dietrich, 3061
Mr. Larrabee, 6-232 GSA Bldg.
Mr. Keck

104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April 1954, 195 Docket No. DMEA 2892 Contract No. B-1 642
Operator's Name Barn Gay Mining Company Minerals Mica
Address 208 West Birnie Street, Gaffney, S.C.
Contract Amount, $ 2,600.00 Government Participation: 90 % Amount, $ 2,340.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting 15ft	450.00	750.00	1,200.00			
Shaft		1,080.00	1,080.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS 15ft	450.00	1,830.00	2,280.00	450.00	1,830.00	2,280.00

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-70

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

Date 31 April 1954 *Payee Barn Gay Mining Company

Per W. B. Gay Title Partners

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

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

(Instructions on reverse)

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

$ 405.00

Signature Cora A. Fraser
(Authorized Certifying Officer)

Date JUN 7 1954 Vou. No. 301
(See other side)

45.00

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E64-2 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M Date May 13, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION VII Date MAY 19 1954

MONTHLY REPORT OF OPERATOR

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

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

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

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1954 Docket No. DMEA 2892 Contract No. E - 642

Operator's Name Barn Gay Mining Company Minerals Mica

Address 208 West Birnie Street, Gaffney, S.C.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft	450.00	15	1,200.00	40	30.00	40	$ 30.00
Crosscutting								
Raising								
Shafts	Ft	0	0	1,080.00	27	40.00	35	$ 40.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		450.00	15	2,280.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		450.00	15	2,280.00				2,280.00

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

Date 31 April 1954 Operator Barn Gay Mining Company

Per H. F. Barnhill Title Partners

W. O. Gay

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

OPERATORS
MONTHLY PROGRESS REPORT
for the
Month of April 1954

DMEA # 2892
Idm E 642

Work Accomplished

Work went very smoothely good progress was made, advanced a total of 7 feet for the first seven days of the month, was visted by field team on 7th April who advised us to stop work on project.

1 April Worked only half day, cleaned out tunnel.

2 April Worked on air compressor.

3 April No work

5 April Had to brace wall of tunnel

6 April Good progress made.

7 April Visted by field team. work on project stopped.

May 19, 1954

Memorandum

To: Cora Piper, Chief, Finance Division - Region VII

From: Wm. A. Beck

Subject: Final Operator's Report & Voucher on DMEA-2892, Idm-E642 (mica)
Barn-Gay Mining Company, Cleveland County, N. C.

Transmitted herewith is the operator's final monthly report and voucher on the subject contract.

The Operator's narrative is in error. The project was actually completed on April 21, 1954 on completion of 40 feet of drifting.

The Field Team waives the necessity of the Operator turning in a final report as it would not be of much value and the Field Examiners report based on frequent examinations contains all significant geological and engineering data.

Wm. A. Beck

WAB/xx
3-Finance Office
Beck
Lynch
Files

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

June 3, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2892

Contract Number: Idm-E 642

Applicant: Barn-Gay Mining Company

Name and Location of Property: Humphries Property
Cleveland County, North Carolina

Date of Final Field Team Report: May 7, 1954

Date Rec'd. by Ceramic & Fertilizer Mtls. Br.: May 13, 1954

Field Team Recommendation:

1. No certification of discovery or development.

Comments:

1. Work began January 13, 1954 and was completed April 21, 1954.
2. Exploration by 27-foot shaft, drifting 24 feet, 8-foot raise, and 17 feet of lateral work.
3. Small quantity of mica recovered.
4. Expenditures - Total approved $2,600
Total cost 2,280
Gov't. share 2,052
Value none

Recommendation:

I concur in the field team's recommendation to deny certification of discovery or development.

Signed

W. F. Dietrich

May 7, 1954

Memorandum

To: Operating Committee, DMEA - Washington

From: Field Team, DMEA - Region VII

Subject: Final Report, DMEA-2092, Idm-K 482 (mica) Humphries Prospect, Cleveland County, N. C. Burn-Day Mining Co. Gaffney, S. C. Oper.

Enclosed are 4 copies of the final report on the subject exploration contract.

We agree with the conclusion that a certificate of discovery should not be issued, as the work indicated the shallow extent of the pegmatite, and reserves are insignificant.

No final report by the Operator has been received. We do not think such a report would be of much value, as the field examiners' report, based on frequent examinations contains all significant geologic and engineering data.

Robert A. Lawrence
EXECUTIVE OFFICER
DMEA REGION VII

Mr. A. Rock, for V. J. Lynch
U. S. Bureau of Mines

RAL/mm
cc:
Rock
Lynch
Division File
Files

Reviewed by
DMEA OPERATING COMMITTEE
5-14-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL REPORT
ON
DMEA-2892, HUMPHRIES PROPERTY, (mica)
Cleveland County, North Carolina

By

Kefton H. Teague, Geologist
U. S. Geological Survey

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

Dewey H. Ames, Geologist
U. S. Geological Survey

May 4, 1954

Reviewed by
DMEA OPERATING COMMITTEE
5-14-54
(date)

FINAL REPORT
On
DMEA-2892, Idm-E 642, HUMPHRIES PROPERTY

Operator: Barn-Gay Mining Co., 208 W. Birnie St. Gaffney, South Carolina
Location: 7.8 airline miles S. 47° W. of Shelby, Cleveland County, N. C.

Work completed under the contract consisted of a 27-foot vertical test pit and 40 linear feet of laterals. As the pegmatite explored bottomed at about 25 feet a certification of discovery should not be issued. No additional exploratory work is warranted.

Work began on January 13, 1954 and was completed April 21, 1954. A 27-foot vertical test pit, 5' x 7' in cross-section was sunk in pegmatite. As the pegmatite bottomed abruptly at 25 feet, a drift was driven along the southwest wall for 24 feet in an N. 60° W. direction. The bottom of the pegmatite rose gradually in this direction so the floor of the level was raised about 8 feet and a lateral driven in a northeast direction for 17 feet. No drift was made to the southeast because as observed near the bottom of the pit the pegmatite thins and its bottom rises rapidly in this direction.

The work conducted revealed a "canoe-shaped" disconformable pegmatite which bottoms abruptly. It is poorly zoned with an irregular and discontinuous quartz core and has irregular and transitional contact with the country rock, pegmatitic biotite sillimanite schist. The pegmatite, striking N. 65° W., and dipping vertical, is 8 - 15 feet thick and consists of kaolinized feldspar, quartz, and muscovite. The mica is flat, hard, ruby-colored and splits well, but it is heavily clay stained. It tends to be concentrated in small "pockets" with no apparent systematic distribution or location.

About 200 pounds of clay-stained "mine-run" mica was recovered during the project but no attempt has been made by the Operators to trim it. The field team estimates it would yield only about 1-2 percent trimmed strategic mica.

Reserves are negligible.

Expenditures:	(a)	Total approved	$2,600.00
	(b)	Total cost of project	2,280.00
	(c)	Government's share of cost	2,052.00
	(d)	Government's share unexpended	288.00
	(e)	Value of production during operation	??

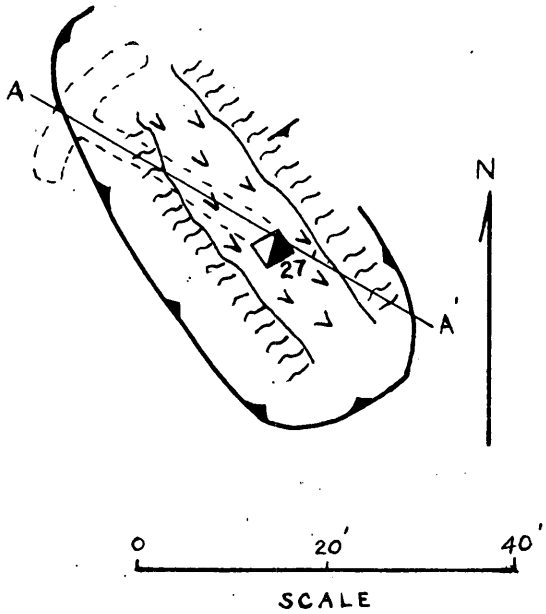
The work was conducted in an efficient and satisfactory manner. No equipment was purchased under the contract.

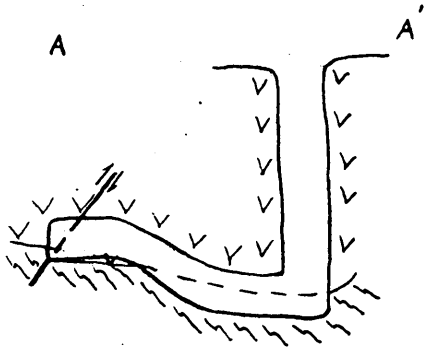
May 4, 1954.

K. H. Teague and Dew H. Amos, Geologists
U. S. Geological Survey

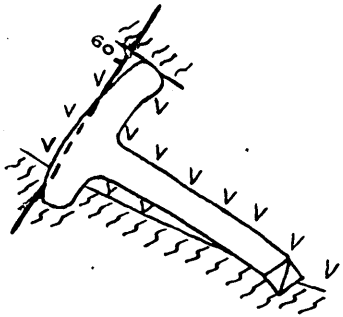
L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

sm





SECTION A-A'



PLAN OF LEVELS

HUMPHRIES PROS.

CLEVELAND CO., N.C.

DMEA-2892

IN REPLY REFER TO:

G-MD-CMM

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

May 13, 1954

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2892 (mica)

To: L. G. Henk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Barn-Gay Mining Co., Gaffney, South Carolina.
Name of property: Humphries Prospect.
Location of property: Cleveland County, North Carolina
Date of field team report: May 4, 1954.
Authorship of field team report: K. H. Teague, L. E. Shirley, and D. H. Amos.
Field team's recommendation:

1. Termination
2. No certification.
3. No further work.

Comments: Peg bottomed, and mica H. G.
No reserves.

ACTION RECOMMENDED: Follow field team's recommendation.

D. M. Larrabee

Larrabee:jeh
5/13/54
cc: Director's reading 4212
Branch reading 4212
DMEA 3
Larrabee G-230

[illegible]

[illegible]A-2592 [illegible]-142 (rico) [illegible] [illegible]

[illegible]: [illegible] Mining Company, 200 [illegible] Street, [illegible], N. C.

[illegible]: 7.3 airline miles [illegible] 47° [illegible] of [illegible], Cleveland County, North Carolina.

[illegible]rifting continued on this contract and is now at 54 feet. Very little pegmatite material is showing in the present face and all additional work will be driven in pegmatite at a higher shaft level and along the present wall.

[illegible]aterial encountered in the last work has consisted of both pegmatite and biotite schist and country rock. The pegmatite is composed of massive quartz, clay stained kaolinized feldspar and scattered small blocks of muscovite mica of poor quality.

Suggestions were made concerning scaffolding and timber removal for stoping and for safer operations. Progress on this contract is satisfactory.

[illegible] [illegible] Shirley, Mining Engineer
[illegible] [illegible] Bureau of Mines

[illegible] [illegible] League and [illegible] [illegible] Arons, Geologists
[illegible] [illegible] Geological Survey

April 7, 1954

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

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

PAID ON VOUCHER OF PAYMENTS K- 60 SCHEDULE 269

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March 1954 Docket No. DMEA 2892 Contract No. E-642
Operator's Name Barn-Gay Mining Company Minerals Mica
Address 208 West Birnie Street, Gaffney, S.C.
Contract Amount, $ 2,600.00 Government Participation: 90 % Amount, $ 2,340.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting	25 Ft 750.00	0	750.00			
Shaft	7 Ft 280.00	800.00	1,080.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	32 Ft. 1,030.00	800.00	1,830.00	1,030.00	800.00	1,830.00

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

Date March 1954 Barn-Gay Mining Company
A. Gay Partners
Per A. Gay Title

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

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

(Instructions on reverse)

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

$ 927.00

Signature Cora A. Piper
(Authorized Certifying Officer)

Date APR 14 1954 Vou. No. 269
(See other side)

3 103.00

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E640 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M. Date April 7, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Beck ACTING Title EXECUTIVE OFFICER DMEA REGION VII Date APR 9 1954

MONTHLY REPORT OF OPERATOR

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

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1954 Docket No. DMEA 2892 Contract No. E-642

Operator's Name Barn-Gay Mining Company Minerals Mica

Address 208 West Birnie Street, Gaffney, S.C.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft	750.00	25	750.00	25	30.00	45 Ft	30.00
Crosscutting								
Raising								
Shafts	Ft	280.00	7	1,080.00	27	40.00	35 Ft	40.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1,030.00	32	1,830.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1,030.00	32	1,830.00				1,830.00

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

Date 31 March 1954 Operator Barn-Gay Mining Co.

W A Gay
H F Barnhill Per H F Barnhill Title Partners

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

OPERATORS MONTHLY PROGRESS REPORT
for the
Month of March 1954

DMEA #2892
Idm-E 642

Work Accomplished

Work has been going very smoothly this month. Have had men working almost every day. We advanced a total of 32 feet for the month; 7 feet in the shaft and 25 feet drifting. Have had to brace the shaft wall down about 20 feet. Also put a heavy brace at door of tunnel, continueing to brace every three or four feet. Hit the floor of the shaft at a depth of 27 feet. A few books of mica have been taken out of tunnel since starting to drift.

March 1	No work
March 2	Repairs made to air compressor
March 3	Work resumed
March 4	Drilling through heavy rock formation
March 5	Unable to work because of rain
March 6	Worked only half day
March 8	Cleaned out shaft, started drilling again
March 9	Still in very hard rock formation
March 10	Visited by field team who suggested that we stop work on shaft at 27 feet and begin drifting
March 11	Put heavy brace on East wall of shaft
March 12	Put frame on door in tunnel
March 13	No work
March 15	Brought compressor to Caffney for repairs
March 16	Men made very little progress without compressor
March 17	Compressor repaired, work on tunnel resumed
March 18	Changed direction in tunnel, as vein direction running Southeast
March 19	Three or four books of mica approximately 3" to 5" in diameter found in North wall today.
March 20	Worked only half day
March 22	Put second brace in tunnel
March 23	Braces completed - unable to resume work because of rain
March 24	Visited by field team
March 25	Extra man hired to speed up drilling
March 26	Drilling stopped because of heavy rain
March 27	Worked only half day
March 29	Worked on air compressor
March 30	Worked on brace in shaft
March 31	Drilling resumed, good progress made

RECEIVED
DMEA
U.S. Bureau of Mines
DEC 20 1954
Morgantown, Pennsylvania

RECEIVED
APR 9 1954
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

A

INTERIM REPORT

MDA-2892 Idm-E642 (mica) HUPHRIES PROPERTY

OPERATOR: Barn-Gay Mining Company, 208 West Birnie Street, Gaffney, South Carolina.

LOCATION: 7.8 airline miles S 47° W of Grover, Cleveland Co., N. C.

Drifting is underway on this contract and has advanced about fifteen feet in a N 50° W direction from the 25 foot shaft level. Drifting will continue in this general direction for the present.

Material encountered consists of heavily clay stained quartz, feldspar and scattered small blocks of clear muscovite mica. Directions were given for driving the drift more to the north in order to intersect more of the quartz material observed in previous work. It was suggested that the drift areas be scaled thoroughly each day. Workers were warned against using Coleman Gasoline Lanterns in the drift and the advisability of wearing safety hats in all underground work. Progress on this contract is satisfactory.

J. [illegible] Shirley, Mining Engineer
U. S. Bureau of Mines

A. M. Teague, Geologist
U. S. Geological Survey

March 24, 1954

[illegible]

[illegible]-2892 [illegible]-7542 (mica) [illegible]

[illegible]: Barn-Hoy Mining Company, 208 East Birnie Street, Gaffney, South Carolina.

[illegible]: 7.8 airline miles S 47° [illegible] of Shelby, Cleveland County, N. C.

Shaft sinking has been completed to a total depth of 27 feet. The pegmatite was visible on the southeast side during shafting, and appeared to bottom at about 25 ft. The owners believe that additional shafting is not necessary and it was suggested that turnoff be made from the 25 ft. level in the shaft and a drift driven to the southwest. Material encountered during shafting consisted of pegmatite and sillimanite schist. The pegmatite was composed of massive and stringer quartz, kaolinized feldspar, inclusions of fresh to weathered schist and scattered small blocks of muscovite mica.

It was suggested that, as soon as the drift is advanced sufficiently, additional cribbing and a separated manway with landing and ladders be installed. No temporary ladder exists to the bottom at present. Recent progress on this contract is satisfactory.

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

M. H. Teague & [illegible] H. Amos, Geologists
U. S. Geological Survey

March 10, 1954

RECEIVED
1 0 1954

[illegible]

[illegible]-2392 Idr-2642 (mica) [illegible]

OPERATOR: Barn-Cay Mining Company, 208 West Birnie Street, Gaffney, South Carolina.

LOCATION: 7.3 airline miles S 47° W of Shelby, Cleveland County, N. C.

Shaft sinking continues slowly on this contract. No visible progress has been made on shaft sinking. The operator stated that it was necessary to discontinue work for a few days until the contractor could obtain and repair necessary equipment. A small air compressor, hand windlass and hand tools comprises most of the equipment observed on the job.

F. [illegible] Cook, member of the [illegible] field team, Region VII, accompanied the examiners on this visit to the mine.

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

H. H. Teague & [illegible] Jones, Geologists
U. S. Geological Survey

February 24, 1954

Mr. Andrews

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

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

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

Month of Feb., 1954 Docket No. DMEA 2892 Contract No. E-642
Operator's Name Barn-Gay Mining Company Minerals Mica
Address 208 West Birnie Street, Gaffney, S.C.
Contract Amount, $ 2,600.00 Government Participation: 90% Amount, $ 2,340.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
Shaft 4ft	160.00	640.00	800.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	160.00	640.00	800.00	160.00	640.00	800.00

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-33

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 27 Feb. 1954 *Payee Barn-Gay Mining Company
Per H. J. Barnhill Title Partners

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

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

(Instructions on reverse)

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

$ 144.00

Signature Cora A. Piper
(Authorized Certifying Officer)
Date MAR 8 1954 Vou. No. 231
(See other side)

2

16.00

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E642 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M. Date March 1, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION VII Date MAR 3 1954

MONTHLY REPORT OF OPERATOR

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

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

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

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Feb. 1954 Docket No. DMEA 2892 Contract No. E-642
Operator's Name Barn-Gay Mining Company Minerals Mica
Address 208 West Birnie Street, Gaffney, S.C.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting							40ft	30.00 ft
Crosscutting								
Raising								
Shafts	Ft	160.00	4	800.00	20	40.00	35ft	40.00 ft
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		160.00	4	800.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		160.00	4	800.00				800.00

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

Date 27 Feb. 1954 Operator Barn-Gay Mining Co.
Per [signature] Title Partners

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

OPERATORS
MONTHLY PROGRESS REPORT
for the
Month of February 1954

DMEA No. 2892
Idm - E 642

Work Accomplished

Was unable to start with power equipment until Feb. 23rd. Repair parts needed for equipment were unavailable until then. Did no work on shaft from the 2nd to the 23rd. Have new crew to sink shaft - working only in daylight. Due to our late start this month, have only four feet of progress to report.

Feb. 1 Finished putting collar on shaft.

Feb. 2 Had crew dig drain ditches around shaft.

Feb. 3
Feb. 22 No work done due to above listed reasons.

Feb. 23 Started back to work on shaft. Cleaned out loose dirt.

Feb. 24 Drilling with power equipment started. Trying to get walls of shaft even and straight. Had visit from field team.

Feb. 25 Drilled through rock on shaft floor.

Feb. 26 Most of day spent repairing air compressor.

Feb. 27 Worked only half day. Still drilling in rock on shaft floor.

[illegible]

[illegible]-2392 [illegible]-042 (mica) [illegible]

OPERATOR: Sarn-Gay Mining Company, 208 [illegible]est Minnie Street, Gaffney, South Carolina.

LOCATION: 7.8 airline miles [illegible] 47° [illegible] of Shelby, Cleveland County, North Carolina.

Shaft sinking continues slowly on this contract. No change in depth was measured, but some cribbing had been accomplished with 1 inch sawed boards near the surface. No one was present at the mine and operators were not contacted to learn when work would resume.

[illegible] Shirley, Mining Engineer
U. S. Bureau of Mines

[illegible] Teague and [illegible]
Geologists, U. S. Geological Survey

February 10, 1954

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

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

207

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

Month of January 1954 Docket No. DMEA 2892 Contract No. E 642
Operator's Name Barn-Gay Mining Company Minerals Mica
Address 208 West Birnie Street, Gaffney, S.C.
Contract Amount, $ 2,600.00 Government Participation: 90% Amount, $ 2,340.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
SHAFT	640.00	0	640.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	640.00	0	640.00	640.00		640.00

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

Date 30 Jan. 1954 Name Barn-Gay Mining Co.
H F Barnhill, W A Gay Per H F Barnhill Title Partners

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

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

(Instructions on reverse)

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

$ 576.00

Signature Cora A. Piper
(Authorized Certifying Officer)

Date FEB 5 1954 Vou. No. 207
(See other side)

124 S/1-13-54 64.00

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E642 in accordance with the terms of the contract.

Signature Lawrence E. Shirley Title Mining Engr. U.S.B.M. Date Feb. 1, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION VII Date FEB 3 1954

MONTHLY REPORT OF OPERATOR

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

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

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

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Jan 195 4 Docket No. DMEA 2892 Contract No. E-642
Operator's Name Barn-Gay Mining Company Minerals Mica
Address 208 West Birnie Street, Gaffney, S.C.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting							40"	30.00
Crosscutting								
Raising								
Shafts	Ft.	640.00	16	640.00	16	40.00	35"	40.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		640.00	16	640.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		640.00	16	640.00				640.00

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

Date 30 Jan. 1954 Operator Barn-Gay Mining Co.
H F Barbhill H F Barnhill
W A Gay W A Gay Title Partners

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

OPERATORS
MONTHLY PROGRESS REPORT
for the
Month of January 1954

First day of Work
13 Jan. 1954

DMEA No. 2892
Idm-R 642

Work Accomplished

Set up machinery, removed muck from bottom of open shaft, pumped out shaft, hired five workmen, ordered TNT and fuse caps, set up windlass, started shaft sinking, drilled, bla sted for a total of 16 feet for the month of January. All work done on the daylight shift.

Daily Notes

Jan. 13	Assembled workmen, explained purpose of sinking shaft, work started.
Jan. 14	Requested power to be turned on.
Jan. 15	Put floor at mouth of shaft.
Jan. 16	No work.
Jan. 17	Sunday
Jan. 18	Put roof over shaft.
Jan. 19	Drilled and blasted through heavy rock.
Jan. 20	Removed loose rock from shaft, discussed work with visiting field team. Suggested that shaft wall be straightened, and cap be put on shaft wall.
Jan. 21	Worked to straighten wall.
Jan. 22	Drilled and blasted through more heavy rock.
Jan. 23	No work.
Jan. 24	Sunday
Jan. 25	Workers failed to show up. Contacted local contractor to do rest of drilling.
Jan. 26	No work.
Jan. 27	Met visiting field team, who told contractor what was to be done.
Jan. 28	Moved power equipment to location.
Jan. 29	Started building brace at top of shaft.

Mr. Anderson

[illegible]

[illegible]-2[illegible]2 ([illegible]-[illegible]42 (mica)

[illegible]: [illegible]arn-[illegible] [illegible]ining [illegible]ompany, 200 [illegible] [illegible]ittle [illegible]treet, [illegible]aiffey, [illegible]outh [illegible]arolina.

[illegible]: 7.[illegible] [illegible] [illegible] 47° [illegible], [illegible]velin[illegible] [illegible]ounty, [illegible]

[illegible]haft sinking continues on this contract and is now at 14.5 feet. [illegible]aterial encountered has consisted of [illegible]agnetite, sillimanitic schist, inclusions of biotite [illegible]chist and massive quartz. [illegible] few pieces of small, clear muscovite mica have been recovered from a narrow quartz stringer that can be traced vertically from top to bottom on the southeast end of the shaft. [illegible]assive quartz, 2 to 3 feet in thickness, can be observed near the surface on the northwest end of the shaft.

The operators have engaged a local contractor who was present at the mine during this inspection. [illegible]he contractor stated that he has all necessary equipment for sinking the shaft and expects to have it completed before another visit is made.

[illegible] [illegible] Shirley, Mining Engineer
[illegible] [illegible] Bureau of [illegible]ines

[illegible] [illegible] [illegible]eague and [illegible]ewey [illegible]ines, Geologists
[illegible] [illegible] Geological Survey

January 27, 1954

Mr. Anderson

[illegible]

[illegible]

[illegible]-2892 [illegible]-342 (mica) [illegible]

[illegible]: Barn-way Mining Company, 308 [illegible] Clinic Street, Gaffney, S. C.

[illegible]: 7.8 airline miles [illegible] 47° [illegible] of [illegible], Cleveland County, S. C.

The starting date on this contract is January 13, 1954. Very little progress had been made up to the time of this visit, but shafting was underway. Specifications of the shaft and related matters were discussed with the crew of "well diggers", who have been engaged to sink the shaft. Another visit will be made to the mine in the near future.

L. [illegible] Murray, Mining Engineer
U. S. Bureau of Mines

R. [illegible] Teague, Geologist
U. S. Geological Survey

January 13, 1954

NOV 1 9 1953 408

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

Subject: Docket No. DMEA-2892 - Mica
Barm-Gay Mining Company
Humphries Property
Cleveland County, North Carolina

Dear Mr. Lawrence:

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

If the contract meets with your approval present it to the Operator for approval and signature. Please explain to the Operator that the contract, when executed, is a firm commitment under the terms of which it is obligated to complete the work outlined at the agreed unit cost. If any part of this contract does not have either your approval or that of the Operator and cannot be amended within your delegated authority, then the original and all copies of the contract are to be returned to this office, together with the proposed changes for consideration.

After execution of the contract, the copies are to be distributed in the usual manner.

Copies of memoranda from the Geological Survey and the Bureau of Mines are enclosed.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

T. P. Thayer

Member, Geological Survey

Enclosures 10

WCAnderson:gad 11/16/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

OCT -2 1953

Mr. H. F. Barnhill, President
Barn-Gay Mining Company
208 West Birnie Street
Gaffney, South Carolina

Re: Docket No. DMEA-2892 - Mica
Humphries Property
Cleveland County, North Carolina

Dear Mr. Barnhill:

We have your letter dated September 25, 1953, concerning the subject exploration application, wherein you state you will operate as a partnership, H. F. Barnhill and W. A. Gay, trading as Barn-Gay Mining Company.

You enclosed the seven copies of Owner's Consent to Lien on the new form but we still lack an acceptable legal description of your property. A legal description of a property is the bounding bearings and distances enclosing the area. The bearings and distances are also called metes and bounds or directions and lengths of each course. The legal description may be obtained from the deed.

Sincerely yours,

SIGNED

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

WCAnderson:gad 10/1/53
Copy to: Admr. R. File
Docket File
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

600

AUG 2 8 1953

Mr. H. F. Barnhill, President
Barn-Gay Mining Company
203 West Birnie Street
Gaffney, South Carolina

Re: Docket No. [illegible]-292 - Mica
Humphries Property
Cleveland County, North Carolina

Dear Mr. Barnhill:

Before we can complete the processing of your application, it is necessary for you to submit additional information.

Your letter dated June 15, 1953, declares the operator is a South Carolina Corporation, but the lease dated February 3, 1953, is to two individuals, H. F. Barnhill and W. A. Gay, doing business as the Barn-Gay Mining Company. Consequently, the Operator does not have the necessary interest in the land for an exploration project contract. To correct this defect, either have the lease assigned to the Operator or have it cancelled and a new lease issued directly to the Operator Corporation.

In either case, you should obtain a new owner's Consent to Lien on the enclosed forms, six copies of which should be returned to this office. The contract should be described as being with the Corporation, the Barn-Gay Mining Company.

At the same time, we would like to have you give a better legal description of the property than a mere reference to two deeds recorded in Cleveland County, North Carolina.

Sincerely yours,

[illegible]

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

Enclosures 7
WCAnderson:gad 8/28/53
Copy to: Admr. R. File
Docket File
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

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

August 27, 1953

Memorandum

To: The Administrator
Through: L. G. Houk

From: Chief Counsel

Subject: Barn-Gay Mining Company - Docket No. DMEA-2892 (Mica)

Because this is a small contract it has been drafted at this time with the exception of Annex I, the information for which must still be supplied.

The Operator declares it is a South Carolina corporation, but the lease dated February 3, 1953, is to two individuals, H F Barnhill and W A Gay, doing business as the Barn-Gay Mining Company. Consequently, the Operator does not have the necessary interest in the land for an exploration project contract. To correct this defect, either the lease must be assigned to the Operator, or it should be cancelled and a new lease issued directly to the Operator corporation. In either case, a new Owner's Consent to Lien on the new form should be obtained, which describes the contract as being with the corporation the Barn-Gay Mining Company.

At the same time, it would be advisable to try and get a better description of the property than a mere reference to two deeds recorded in Cleveland County, N. C. However, if this cannot be obtained, we shall accept this reference because we are attaching a map, such as it is, to the contract.

Albert E. Kane
for J. L. Hofflund
Chief Counsel

Attachments

630

AUG 7 1953

Mr. H. F. Barnhill, President
Barn-Gay Mining Company
208 West Birnie Street
Gaffney, South Carolina

Re: Docket No. DMLA-2892 - Mica
Humphries Property
Cleveland County, North Carolina

Dear Mr. Barnhill:

Reference is made to our letter dated June 8, 1953, requesting additional information necessary to process your application.

Inasmuch as we have received no reply, we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data have not been received by September 15, 1953, we will then consider the docket closed.

Sincerely yours,

C. O. Mittendorf

Administrator

LGHouk:gad 8/6 /53

Copy to: Admr. R. File
Docket File
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

600

JUN 8 1953

Mr. H. F. Barnhill, President
Barn-Gay Mining Company
208 West Birnie Street
Gaffney, South Carolina

Re: Docket No. DMA-2392 - Mica
Humphries Property
Cleveland County, North Carolina

Dear Mr. Barnhill:

Reference is made to your letter dated June 2, 1953, inquiring as to the status of the subject application for exploration assistance.

Enclosed is a copy of our letter dated March 19, 1953, in which you were requested to supply certain information omitted from the application and were notified that a field examination would be made.

In addition to the information referred to above, please submit the metes and bounds descriptions and the names of the grantors and grantees for each tract of the H. H. Humphries lands.

Sincerely yours,

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

Enclosure

SAFeitler:gmd 6/5/53

Copy to: Admr. R. File
Docket File
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

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

April 20, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2892, Mica, Humphries Property, Cleveland County North Carolina

I concur in the field team's recommendation for an exploration program in the amount of $2,600.

Signed

W. F. Dietrich

G-MR-CNM REFER TO:

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

April 13, 1953

Defense Minerals Administration
RECEIVED
APR 14 1953

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2892 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Barn-Gay Mining Co., 208 W. Birnie St., Gaffney, South Carolina.
Name of property: Humphries property.
Location of property: 7.8 miles S. 47° W. of Shelby, North Carolina.
Date of field team report: March 31, 1953.
Authorship of field team report: Teague, Beck, and Shirley.
Field team's recommendation:
35' test pit on southwest side of quartz core.
Up to 40' of drifts along the pegmatite.
Comments: None.
ACTION SUGGESTED: Follow field team's recommendation.

D. M. Larrabee

Larrabee:jeh
G-4/13/53
cc: Director's reading 4212
Branch reading 4212
DMEA 3
Larrabee G-230

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Room 13, P ost Office Building
Knoxville 2, Tennessee

O O
P P
Y

April 1, 1953

Memorandum

To: Operating Committee, D M E A - Washington

From: Field Team, D M E A - Region 7

Subject: Field Team Examination Reports.

Transmitted herewith are four copies of the reports, and six extra copies of the map, for the following examination reports:

DMEA-2882, Bowman Mine (Mica)

DMEA-2892, Barn-Gay Mining Co. (Mica)

DMEA-2909, Old Sheep Mountain Mine, (Mica)

DMEA-2910, Davis Property, (Mica)

DMEA-2917, Allman Cove, (Mica)

The Field Team is in agreement with the recommendations set forth in the above reports.

/s/ Robert A. Laurence
Robert A. Laurence, Executive Officer
DMEA Field Team, Region 7

/s/ Wm. A. Beck,
Wm. A. Beck, for V. J. Lynch
U. S. Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
4-10-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 3 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

ON

DMEA-2092, HUMPHRIES PROPERTY (mica)

Cleveland County, N. C.

By

Kefton H. Teague, Geologist
U. S. Geological Survey

Wm. A. Beck, Mining Engineer
U. S. Bureau of Mines

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

RECEIVED BY
DMEA CONTROL OFFICE
4-10-53
(date)

March 31, 1953

Field Examination Report on

DMEA-2892, HUMPHRIES PROPERTY (Mica)
Applicants: Barn-Gay Mining Company, c/o H. F. Barnhill
208 W. Birnie St., Gaffney, S. C.

Only one of the five pegmatite localities appear to have possibilities. Some mica of strategic quality has been recovered by a limited amount of prospecting. The field examiners recommend that a 35-foot test pit be sunk and 40 feet of drifts driven on the pegmatite near the dwelling.

This property was examined on March 26, 1953. Both Mr. H. F. Barnhill and W. A. Gay were present at the examination which required two hours.

The Humphries property is 7.8 airline miles S. 47° W. of Shelby, Cleveland County, North Carolina. It is accessible from Shelby via N. C. Highway 150 and is 3.8 miles south of Boiling Springs and on the west side of the highway. Access to the property is excellent.

The applicants have no mining experience; however, if, exploration aid is granted they plan to employ an experience mica miner to supervise the operation. Both applicants appear to be financially responsible.

There are no surface facilities on the property and none are needed for the proposed exploration project. Past work has consisted of stripping an area 20' x50' to a shallow depth and sinking one 4-foot test pit on the pegmatite. This work has exposed a pegmatite more than 8 feet thick, over a length of about 30 feet. The pegmatite trends N. 40° W, dipping steeply to the southwest. It appears to be emplaced in a joint in the mica-sillimanite schist wall rock. The pegmatite is completely weathered, but the enclosing rock is only semi-weathered.

The pegmatite contains a pronounced quartz core, apparently located near the footwall, which averages about 3 feet thick. Mica which occurs frozen to the quartz core is generally "flat -A," but that in the weathered feldspathic portion does not contain "A" structure although it appears to be mostly in small sizes. The mica is hard, clear, ruby colored, "A" or flat, and splits well. Pattern mica which trimmed 3" x 4" has been obtained. The main defect is a slight clay stain.

Elsewhere on the property 4 other mica prospects were examined, but these do not appear to warrant exploration.

The field examiners believe that the pegmatite described above justifies exploration. We recommend that a 35-foot test pit be sunk on the southwest side of the quartz core and up to 40 feet of drifts be driven along the pegmatite.

Estimated Cost:

35-foot test shaft @ $40/ft.	$1400.00	
40-feet of drifts @ $30/ft.	1200.00	
Estimated Total Cost.....		$2,600.00

Estimated time required - 50 shifts.

March 31, 1953

Kefton H. Teague, USGS

Lawrence E. Shirley, USBM

Wm. A. Beck, USBM

MAR 19 1958

Mr. H. F. Barnhill, President
Barn-Gay Mining Company
[illegible] N. Birnie St.
Gaffney, South Carolina

Re: Docket No. [illegible] - Mica
Humphries Property
Cleveland County, North Carolina

Dear Mr. Barnhill:

Your application for assistance in exploring your property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. Robert A. Lawrence, Executive Officer, DMEA Field Team, Region VII, Room 13, Post Office Building, Knoxville 2, Tennessee, for a field examination.

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you may give the members of the field team in the examination will be appreciated.

The copy of the lease submitted with your application bears only the signature of Mrs. Humphries, the Lessor (Landlord). Please submit either a copy of the lease which has been signed by Mrs. Humphries and you or a statement to the effect that each of you has a copy of the lease signed by the other, if the lease was executed in that manner.

The answer to Item 1 of the application does not make clear whether Barn-Gay Mining Company is a partnership or a corporation. This office should be advised as to which it is. If it is a corporation, the name of the state in which it was formed should be included.

Sincerely yours,

STGNED

Lawrence A. Houk, Chief
Nonmetallic Minerals Division

SAPeitler:gmd 3/24/53
Copy to: Admr. H. File
Docket File
Field Team, Region VII
Operating Committee
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

600

MAR 19 1953

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

Subject: Docket No. DMEA-2392 - Mica
Barn-Gay Mining Company
Humphries Property
Cleveland County, North Carolina

Dear Mr. Lawrence:

Please arrange for a field examination of the subject mine, if the mica is of acceptable quality, and submit a report and your recommendation for the disposition of this application.

Two copies each of memoranda from the Bureau of Mines and the Geological Survey are enclosed for your convenience.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

D. M. Lemmon

Member, Geological Survey

Enclosures 4

SAFeitler:gad 3/13/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3526
Mr. Morton, G-232 GSA Bldg.
Mr. Houk

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

February 27, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch.

Subject: DMEA-2892, Mica, Barn-Gay Mining Company Prospect
Cleveland County, North Carolina

No data are available in this office on subject property. It is located in a general area in which ruby mica is known to be the characteristic variety. On the basis of the applicant's description of present exposures, a field team investigation is recommended.

W. F. Dietrich

IN REPLY REFER TO:
G-MD-CRM

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

February 20, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 20 1953

Memorandum

REVIEW OF APPLICATION DMEA - 2892 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration.
From: R. E. Van Alstine, U. S. Geological Survey.
Applicant: Barn-Gay Mining Company, 208 West Birnie Street, Gaffney, S.C.
Name of property: None
Location of property: 8 miles south of Shelby in Cleveland County, North Carolina.
Estimated cost of project: $12,484.00
Summary of applicant's proposal:
1) Bulldoze at five outcrops of pegmatite containing mica.
2) If strategic mica in sufficient quantity is found, shafts will be sunk and drifting and crosscutting will be done.

Sources of information on applicant's property:
None; no previous production or exploration here other than a few prospect pits.

Comments:
Applicant might be asked to submit sample of sheet mica for testing. Under item 4 C he claims that the pegmatites in several spots show sheet mica.

RECOMMENDATION:
If sample test shows strategic quality mica here, refer application to field team for examination of property and for working out a plan for exploration, if warranted.

R. E. Van Alstine