DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE | Idm-E NO. [illegible] | DMEA NO. 4901

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

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

Folder No. 1:

Left Side

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

Right Side

- [x] Project summary (final)
- [x] Work Completed analysis (final)

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

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

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

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

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

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

17963

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/2	Anderson	600
3/2	Houk	600
3-2	Chambers	800
	Long	140
	Hollowell	140
3/6	Jeffrey	130
		~~100~~
3/9	C	220
Mich Inc.		600

600

MAR 9 1959

Mitchell Lumber Company, Inc.
c/o Mr. Frank W. Phillips
Spruce Pine, North Carolina

INTERIOR DEPT.
MAR 3 - 1959
SOLICITOR

Re: Docket No. DMEA-4901-Mich
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina
Contract No. Idm-E1202

3/6 Garrison (130
3/6 Nelson (130

Gentlemen:

Enclosed is a certification of discovery or development under Contract No. Idm-E1202 on the Banner Mine, Mitchell County, North Carolina.

By the terms of the Exploration Project Contract, all minerals mined or produced from June 10, 1958, to June 10, 1968, are subject to the Government's percentage royalty as set forth in the contract until the sum of $1,739.25 is repaid to the Government.

As the royalty has been paid in full, the Government no longer has a claim upon production from the property. Your interest in the former DMEA program and participation therein are fully appreciated.

Sincerely yours,

Frank E. Johnson (for)

Acting Director

Enclosure

WCAnderson:gad 3/2/59
Copy to: Dir. R. File
Operating Committee
Mr. Johnson
Mr. Chambers
Mr. Kiilsgaard, USGS
Mr. Lamb, USBM
Field Team, Region V
Mr. Houk

RECEIVED
MAR 3 1959
ASSOC. SOLICITOR
MINERAL RESOURCES

8623

Date of expiration of royalty payments 6/10/68

8623

DMIA Form 7
(12-56)

OPTIONAL FILE COPY

Date	Subject	Code
		000
		100
		200
		300
		400
		500
		600
		700
		800

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/2	Anderson	600
3/2	Houk	600
3-2	Chamb	800
	Long	140
	[illegible]	140
3/6	Selfridge	130
		110
		220

3/6 Duncan (130
3/6 Nelson (130

600

CERTIFICATION BY THE UNITED STATES OF AMERICA
OF A DISCOVERY OR DEVELOPMENT UNDER
AN EXPLORATION PROJECT CONTRACT

To: Mitchell Lumber Company, Inc.

Spruce Pine, North Carolina

Pursuant to the provisions of Exploration Project Contract No. Lim-22208, dated June 10, 1958, Docket No. DMEA-4901, hereinafter called the "contract", between the Mitchell Lumber Company, Inc., and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

The nature of said discovery or development is described broadly or indicated as follows:

Shaft sinking exposed mica in a thick, tabular pegmatite conformably emplaced in an interlayered mica and hornblende gneiss. Sufficient data were obtained to calculate indicated and inferred reserves of strategic mica.

THE UNITED STATES OF AMERICA

By Frank E. Johnson
Acting Director, Office of
Minerals Exploration

Dated MAR 6 1959

WCAnderson:gad 2/27/59

cc: Dir. R. File
Operating Committee
Mr. Chambers
Mr. Johnson
Mr. Clarence A. Fredell, GSA
Mr. and Mrs. Bryan Robinson
Mr. and Mrs. E. L. Silver
Field Team, Region V
Finance Officer
Mr. Kiilsgaard, USGS
Mr. Lamb, USBM
Mr. Houk

Paid in full

Amt. of Govern. participation $1,739.25

Date of expiration of royalty payments 6/10/68

8623

DNA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Time

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

MEMORANDUM

I have reviewed the monthly reports of:

Mitchell Timber Company, Inc.
Spruce Pine, North Carolina

pertaining to Exploration Project Contract No. 14-2-[illegible], [illegible] No. [illegible], for July [illegible] and August 1978, covering a mica project at the Hunter Mine, Mitchell County, North Carolina.

My review included an consideration of the monthly reports (Form [illegible]) and supporting documents, compliance of the claimed work with the contract and pertinent regulations, verification of work performed by reference to Field Team reports and communications, 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 period cited.

All of the costs were within a contract provision for reimbursement by the Government on the basis of direct cost plus fixed fee work performed.

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

Total cost billed by Operator		$2,[illegible].00
Exceptions:		
Prior to this review	$ [illegible]	
Recently	[illegible]	[illegible]
Allowable cost		[illegible]

The statement calls for a 75 percent contribution of the allowable costs by the Government. Therefore, if the project is otherwise accepted as being on the terms of the contract, payment of billed cost would and payment

Payable on audited claim	$1,[illegible]
Paid to date	1,[illegible]
Balance due Operator	[illegible]

E. V. Talbert Jr.
E. V. Talbert, Auditor

January 16, 1979

Government's copy

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 15 1959

DATE	INITIALS	CODE

Long
Metzger
Anderson
Hoch
Chambers
Martin
Selfridge

TERMINATION AGREEMENT

It is agreed this 5th day of January, 1959, between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereinafter called the "Government," and Mitchell Lumber Company, Inc., hereinafter called the "Operator," parties to that certain Exploration Project Contract Idm-E1202, Docket No. DMEA-4901, dated June 10, 1958, hereinafter called the "Contract," that:

1. Effective October 22, 1958, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.

2. The Government shall contribute only to the fixed unit costs of work performed prior to said effective date.

3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including the rendering of the final report and final account.

4. All rights of the Government respecting certification of discovery or development, percentage royalty and liens to secure payment thereof, reports (including preservation of Operator's records), accounts, audits, and the right to recover any overpayment, are hereby preserved.

5. The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of said Contract, except as otherwise provided in this termination agreement.

IN WITNESS WHEREOF, these parties have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By George C. Selfridge
Acting Director, Office of Minerals Exploration

MITCHELL LUMBER COMPANY, INCORPORATED

By Frank W. Mitchell

Title President

Government's copy

DMEA
RECEIVED JUN 27 1958
CODE

MF-200A
(Rev. April 1956)

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

DMEA No.	Commodity	Contract No. Idm-E	County	State
4901	Mica	1202	Mitchell	North Carolina

It is agreed 10 JUN 1958, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Mitchell Lumber Company, Inc., a North Carolina corporation

whose mailing address is Spruce Pine, North Carolina

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority and project.*—(a) This contract is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Annex I (land description), Exhibit A (work and costs), and the maps and documents listed therein. The project work is a search for indicated or undeveloped deposits of the commodity designated above. The Operator shall begin the work on or before JUN 27 1958, and, subject to the provisions of Article 7 and Exhibit A, shall complete the work within 8 months from the date of the contract.

(b) The description of the work and the fixed cost for each unit of work to be performed (per foot of drilling, per foot of drifting, per hour of operations, etc.) are hereby agreed upon as specified in Exhibit A. The estimated total cost of the project work is $9,864.00. The Government will contribute 75 percent of the fixed unit cost of the work performed, not exceeding $7,398.00, in accordance with the provisions of Articles 4 and 5.

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

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

(b) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.) are attached, as follows: Consents to Lien and Subordination Agreements of Lessors, See Annex I

(c) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. The Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing

in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. Two copies of such instrument shall be furnished to the Government. If the Government's rights to royalty as provided in Article 6 have been terminated, the provisions of this paragraph (c) shall become inapplicable.

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

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

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

ARTICLE 5. *Reports, accounts, audits.*—(a) Operator's records.—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine all pertinent books, documents, papers, and records of the Operator.

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

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

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

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

ARTICLE 6. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after the Operator has rendered a sufficient final report (see Article 5), may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

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

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

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

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

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

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

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

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

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

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

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

ARTICLE 7. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The Government may also avail itself of any other remedy the law may provide for breach of contract, including the right to rescind the contract and to demand repayment of all moneys contributed by the Government under the contract.

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

ARTICLE 8. *Notices to be given by the Government* may be delivered to the Operator or may be sent by registered mail addressed to the Operator at the mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 9. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 10. *Changes and added provisions.*—

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C O Mitchell
Administrator, Defense Minerals
Exploration Administration

App'd. Sol. Dept.
Anderson
Hook

MITCHELL LUMBER COMPANY, INC.
(Operator)

By Frank W. Phillips

Title President

I, Sam W. Cherrington, certify that I am the secretary of the corporation named as Operator herein; that Frank W. Phillips, who signed this contract on behalf of the Operator, was then President of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

Mitchell Lumber Co. Inc.

[CORPORATE SEAL]

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

Chambers
Selfridge
Johnson

EXPLORATION PROJECT CONTRACT
MITCHELL LUMBER COMPANY, INC.
DOCKET NO. DMEA-4901

ANNEX I

The land referred to in Article 2 of the Contract consists of two contigous tracts known as the Banner Mine, situated on the southeast slope of a low hill 0.5 miles N. 35 degrees E. from the Bandana Post Office, Mitchell County, North Carolina, and is described as follows:

Silver Tract

Beginning on a sourwood stump, an old corner, and runs S. 45 degrees W. 862 feet to an old cherry wood corner; thence S. 37 degrees 30 minutes E. 380 feet to a stake; thence N. 56 degrees 30 minutes E. 80 feet to a stake; thence N. 50 degrees 55 minutes E. 205.5 feet to a stake in W. A. Robinson's line; thence N. 21 degrees E. 275 feet to a stake; thence N. 30 degrees 30 minutes E. 191 feet to a stake; thence N. 38 degrees 45 minutes E. 171 feet to a sourwood; thence N. 38 degrees 50 minutes W. 237 feet to the Beginning, consisting of 6.4 acres.

Robinson Tract

Beginning on a stake 347 feet N. 15 degrees E. from the apple tree corner in Erastus Silver line; thence N. 15 degrees E. 643 feet with said line to a Spanish oak corner now down; thence S. 54 degrees E. 24 poles to a bunch of chestnut trees; thence S. 62 degrees 30 minutes W. 573 feet to the Beginning.

The Operator has possession of the property by virtue of leases from the respective owners: L. E. Silver and wife, Hurtha Silver, dated July 24, 1957; and Bryan Robinson and wife, Grace Robinson, dated April 23, 1958. The terms of both the leases are for five years, renewable.

The Silver property is shown on Map No. 2, entitled "Map of Mining Lease Lands".

Attached are copies of Consents to Lien and Subordination Agreements, signed by the owners of the two described properties.

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

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA- 4901
Contract No. Idm-E
Contract Date 10 JUN 1958

RECEIVED
APR 30 1958
DMEA

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

Referring to that certain land in the County of Mitchell, State of North Carolina, described as follows: 2/

Beginning on a stake 347 ft. N. 15 E. from the apple tree corner in Erastus Silver line, thence N. 15 E. 643 ft. with said line to a Spanish oak corner now down, thence S-54 E 24 poles to a bunch of chestnut trees, thence S 62 degrees 30 minutes West 573 ft. to the beginning.

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

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

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

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

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

None

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

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

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

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

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

Dated this 2nd day of April, 195[illegible]

Bryan Robinson	[Seal]	Rt. 3, Bakersville No. Car.	[Address]
Grace Robinson	[Seal]	" " "	[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]

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

_____

[Corporate Seal]

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

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E
Contract Date 10 JUN 1958

RECEIVED
DEC 23 1957
D.M.E.A.

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

Referring to that certain land in the County of Mitchell State of North Carolina, described as follows: 2/ BEGINNING on a Sourwood stump, an old corner, and runs south 45 degrees W 862 ft. to an old Cherry corner; thence S 37 degrees 30 mim. E 380 ft. to a stake; thence N 56 degrees 30 min. E 80 ft. to a stake; thence N 50 degrees 55 min. E 205½ ft. to a stake in W A Robinson's line; thence N 21 degrees E 275 ft. to a stake; thence N 30 deg. 30 min. E 191 ft. to a stake; thence N 38 degrees 45 min. E 171 ft. to a Sourwood; thence N 38 degrees 50 min. W 237 ft. to the beginning.
With the right to follow and work the mica vein under his adjoining lands.

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

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

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

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

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

none

1/ Mining or production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.
2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in Book _____, Page _____, official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

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

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

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

Dated this _____ day of _____, 195__.

E L Silver	[Seal]	Rt. 3, Bakersville, No. Car.	[Address]
Martha M. Silver	[Seal]	" " " "	[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]
	[Seal]		[Address]

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

_____

[Corporate Seal]

EXPLORATION PROJECT CONTRACT
MITCHELL LUMBER COMPANY, INC.
DOCKET NO. DMEA-4901

EXHIBIT "A"

Description of the Work

Exploration for concentration of strategic mica shall be performed in the area indicated on the attached map No. 1, entitled "Banner Mine, Mitchell County, North Carolina, DMEA-4901,(mica)", as follows:

1. Construct:

(a) A toolhouse, minimum dimensions 7 feet by 8 feet by 10 feet.

(b) A powder storage magazine, minimum dimensions 4 feet by 3 feet by 2½ feet.

(c) An exploder storage magazine, minimum dimensions 2 feet by 1½ feet by 1 foot.

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

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

2. Sink from the bottom of the existing Banner shaft, shown on the attached map No. 1, a vertical shaft to the foot wall of the Banner zone for a distance not to exceed 100 feet.

3. Explore the pegmatite by driving from or near the bottom of the shaft, drifts and/or crosscuts not to exceed an aggregate of 150 feet.

The shaft and the drifts and/or crosscuts shall be timbered as necessary and shall be not less than 5 feet by 7 feet in the clear in cross-section.

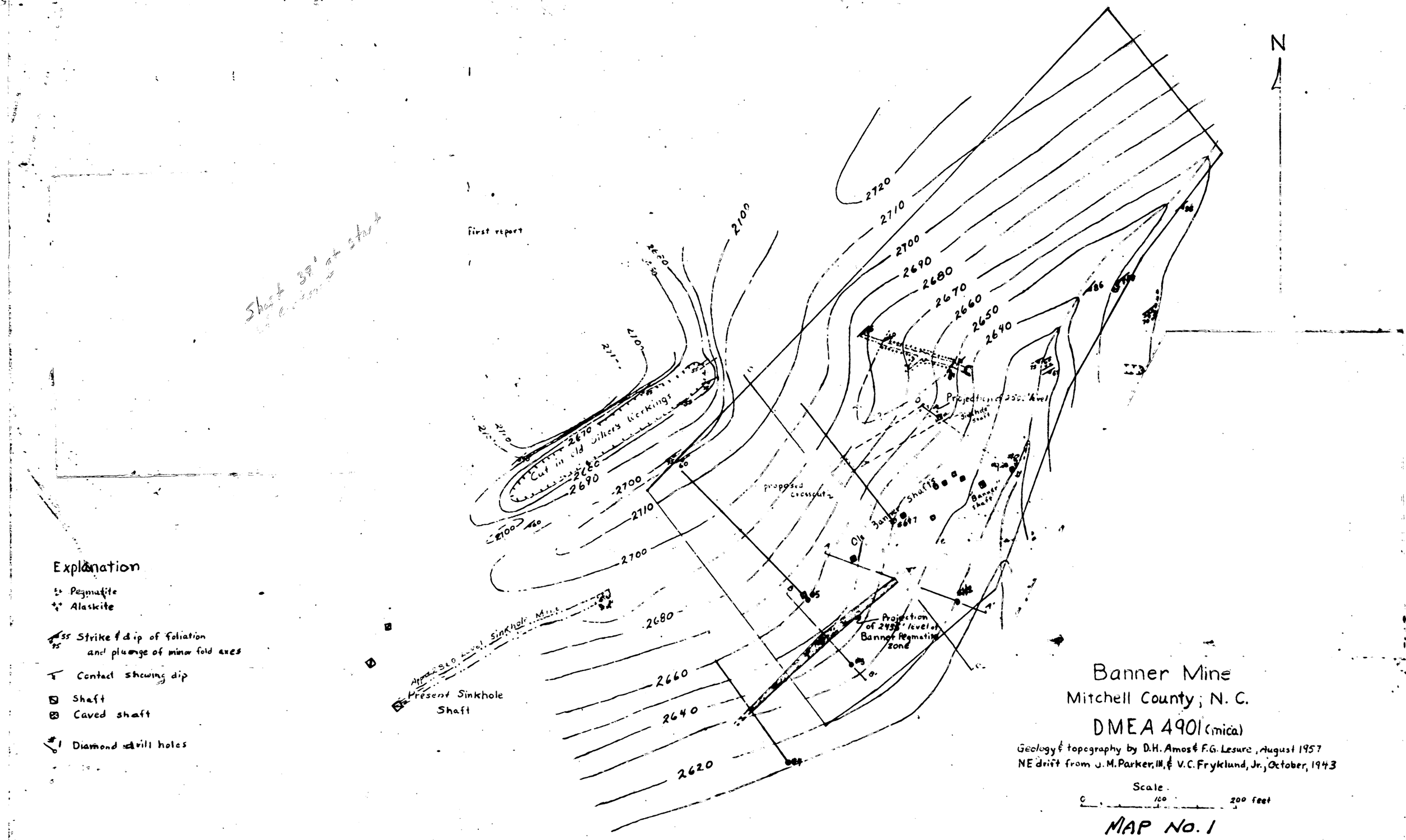
All of the work shall be performed on the pegmatite or in as close proximity thereto as possible.

The locations, inclinations, directions, and extent of all work are subject to the approval of the Government.

Fixed Unit Costs

1. Construct		
Toolhouse 1/	$75.00	
Powder magazine 1/	25.00	
Exploder magazine 1/	14.00	$ 114.00
2. Sink 100 feet of shaft @$45.00/ft.		$4,500.00
3. Drive 150 feet of drifts and/or crosscuts @$35.00/ft.		$5,250.00
Estimated total cost of project		$9,864.00
Government participation @75%		$7,398.00

1/ The completed work constitutes the unit.



Banner Mine

Mitchell County; N. C.

DMEA 4901 (mica)

Geology & topography by D.H. Amos & F.G. Lesure, August 1957
NE drift from J.M. Parker, III, & V.C. Fryklund, Jr., October, 1943

Scale.
0 100 200 feet

MAP No. 1

FGL 2/58
2 rev. 5/58

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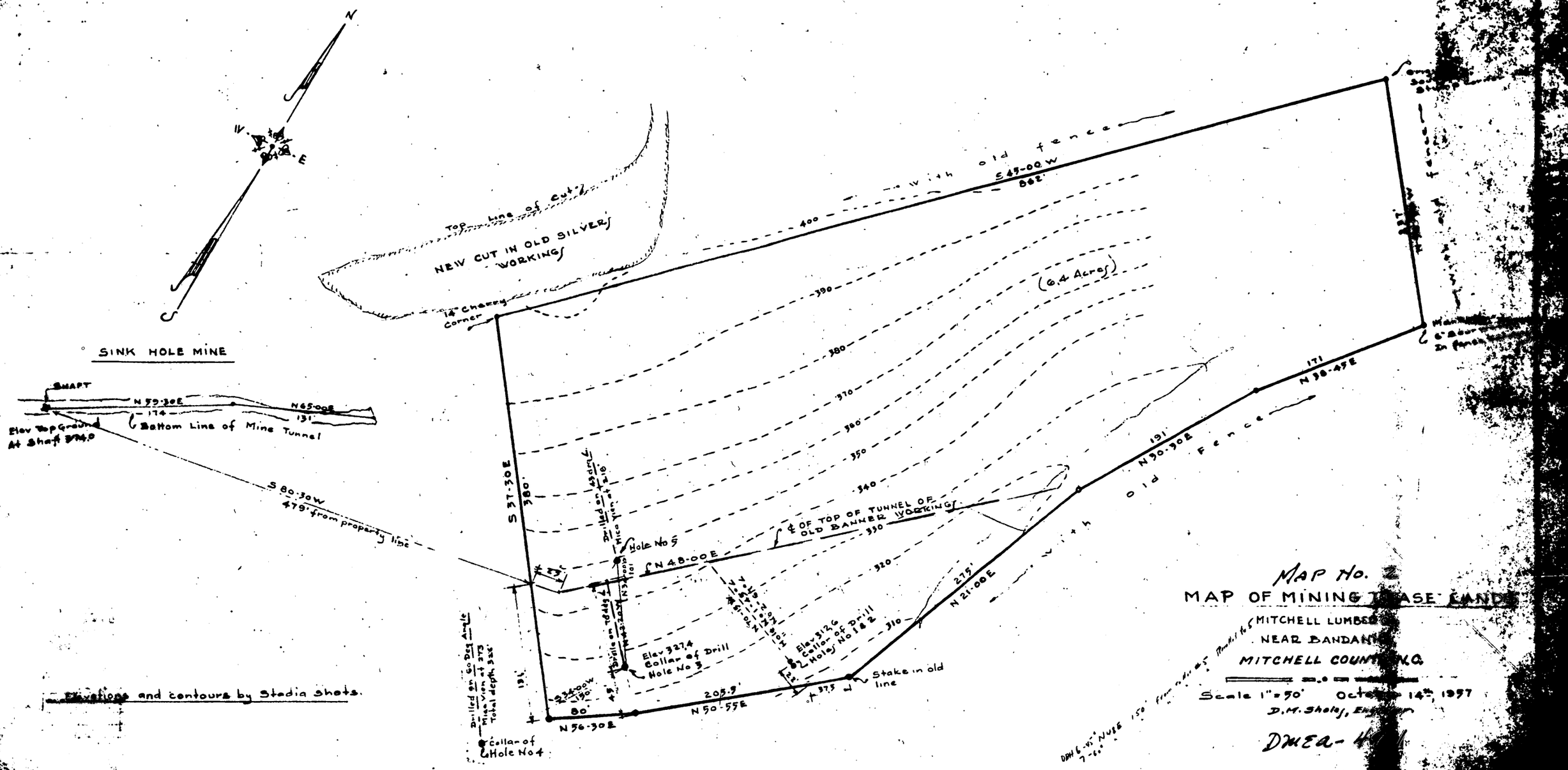
DMEA
RECEIVED JUN 27 1953

DATE	INITIALS	OFFICE


N
W
E
S
Top Line of cut
NEW CUT IN OLD SILVER WORKINGS
14" Cherry Corner
SINK HOLE MINE
SHAFT
N 79-30E
N65-00E
174
131
Elev Top Ground At Shaft 374.0
Bottom Line of Mine Tunnel
S 80-30W
479' from property line
S 37-30E
380'
Drilled on 45 Dip Angle Mica Vein at 410
Hole No 5
N 48-00E
℄ OF TOP OF TUNNEL OF OLD BANNER WORKING
Drilled on 45 Dip Angle Mica Vein at 273 Total depth 355'
Elev 327.4 Collar of Drill Hole No 3
Elev 312.6 Collar of Drill Holes No 1 & 2
Stake in old line
S 34-00W
80'
205.9'
N 50-55E
N 56-30E
Collar of Hole No 4
Elevations and contours by Stadia Shots.
400
390
380
370
360
350
340
330
320
310
S 49-00 W
882'
with old fence
(6.4 Acres)
171
N 38-45E
191
N 30-30E
275'
N 21-00E
with old Fence
MAP No. 2
MAP OF MINING LEASE LANDS
MITCHELL LUMBER
NEAR BANDANA
MITCHELL COUNTY, N.C.
Scale 1" = 50'
October 14th 1937
D.M. Sholes, Engr.
DMEa-4

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

April 28, 1958

Memorandum

To: Operating Committee - DMEA - Washington

From: Executive Officer, DMEA - Region V - Knoxville

Subject: Supplementment to DMEA-4901 (mica)
Mitchell Lumber Company, Spruce Pine, N.C.
Banner Mine, Mitchell County, N.C.

Enclosed are three copies of a letter from Frank W. Phillips, 5 copies of the Owner's Consent to Lien and 3 copies of the Mining Lease pertaining to the subject application, including a log of Hole No.8.

The mining lease and Consent to Lien is for a tract of land to be added to the proposed exploration area.

Robert A. Laurence

VJL/sm
cc
Opr. Com.-3
Lynch
Files

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April 25, 1958

Mr. Robert A. Laurence, Executive Officer
U. S. Department of the Interior
Defense Minerals Exploration Administration
Knoxville 2, Tennessee

Dear Mr. Laurence:

Re: Banner Mine, Hole # 8

I am enclosing additional lease and consent to lein which we have obtained from Mr. Bryan Robinson. You will note that it joins the E. R. Silvers property on the Northwest end of the Banner Vein.

In Hole No. 8 we drilled through what we think to both the Banner and the Sink Hole veins, and they were two of the best cores we have gotten. In the Banner vein we drilled through one (1) 13" block, two (2) 9" blocks, one (1) 7" block, and one (1) 4" block in addition to all the small pieces of mica we cut. The Sink Hole vein also was very rich and contains garnets and other minerals exactly like the Sink Hole mine is taking out.
Hole no. 8 was ~~drilled~~ collared N. 23 E. 185 ft. from the collar of holes Nos. 1 and 2, and was drilled N. 56 W. direction. Following is the log of this hole:

0.0	-	40.5	Surface
40.5	-	70.5	Vein
70.5	-	74.5	Slate
74.5	-	80.0	Vein
80.0	-	151.4	Slate
151.4	-	152.8	Vein
152.8	-	153.8	Slate
153.8	-	154.4	Vein
154.4	-	158.0	Slate
158.0	-	198.7	Vein
198.7	-	202.0	Slate

Thank you very much for your consideration and further attention to our application for assistance in connection with Banner Mine.

Very truly yours,

MITCHELL LUMBER COMPANY, INC.

Frank W. Phillips

Frank W. Phillips, President

FWP/bm

RECEIVED
APR 28 1958
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

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DMEA
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DATE | INITIALS | CODE

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U. S. Department of the Interior
Defense Minerals Exploration Administration
Knoxville 2, Tennessee

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Hole no. 8 was ~~[illegible]~~ collared N. 23 E. 185 ft. from the collar of holes Nos. 1 and 2, and was drilled N. 56 W. direction. Following is the log of this hole:

0.0 -	40.5	Surface
40.5 -	70.5	Vein
70.5 -	74.5	Slate
74.5 -	80.0	Vein
80.0 -	151.4	Slate
151.4 -	152.8	Vein
152.8 -	153.8	Slate
153.8 -	154.4	Vein
154.4 -	158.0	Slate
158.0 -	198.7	Vein
198.7 -	202.0	Slate

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Very truly yours,

MITCHELL LUMBER COMPANY, INC.

Frank W. Phillips

Frank W. Phillips, President

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U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

FWP/bm

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DATE	INITIALS	CODE

April 28, 1958

Mr. Robert A. Laurence, Executive Officer
U. S. Department of the Interior
Defense Minerals Exploration Administration
Knoxville 2, Tennessee

Dear Mr. Laurence:

Re: Banner Mine, Hole # 8

I am enclosing additional lease and consent to lein which we have obtained from Mr. Bryan Robinson. You will note that it joins the E. R. Silvers property on the Northwest end of the Banner Vein.

In Hole No. 8 we drilled through what we think to both the Banner and the Sink Hole veins, and they were two of the best cores we have gotten. In the Banner vein we drilled through one (1) 15" block, two (2) 9" blocks, one (1) 7" block, and one (1) 4" block in addition to all the small pieces of mica we cut. The Sink Hole vein also was very rich and contains garnets and other minerals exactly like the Sink Hole mine is taking out.
Hole no. 8 was drilled cellared N. 23 E. 155 ft. from the cellar of holes Non. 1 and 2, and was drilled N. 58 W. direction. Following is the log of this hole:

0.0	-	40.5	Surface
40.5	-	70.5	Vein
70.5	-	74.5	Slate
74.5	-	80.0	Vein
80.0	-	151.4	Slate
151.4	-	152.8	Vein
152.8	-	153.8	Slate
153.8	-	154.4	Vein
154.4	-	158.0	Slate
158.0	-	198.7	Vein
198.7	-	202.0	Slate

Thank you very much for your consideration and further attention to our application for assistance in connection with Banner Mine.

Very truly yours,

MITCHELL LUMBER COMPANY, INC.

Frank W. Phillips

Frank W. Phillips, President

FWP/hm

RECEIVED
APR 28 1958
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

DMA
RECEIVED 30

STATE OF NORTH CAROLINA

COUNTY OF MITCHELL

THIS MINING LEASE, Made this the 23rd day of April, 195[illegible], between BRYAN ROBINSON and wife, GRACE ROBINSON, parties of the first part and hereinafter called LESSORS, to MITCHELL LUMBER COMPANY, INC., a corporation chartered under and by virtue of the laws of the State of North Carolina, with its principal office at Spruce Pine, Mitchell County, North Carolina, party of the second part and hereinafter called LESSEE:

W I T N E S S E T H :

That the said Lessors, for and consideration of the performance of the conditions and agreements and the payment of royalty as hereinafter set forth by the Lessee, have bargained and leased and by these presents do bargain and lease to the Lessee for a period of FIVE YEARS from the date hereof, for mining purposes a certain tract or parcel of land in Mitchell County, North Carolina, more particularly described as follows:

643
347
990

Beginning on a stake 347 ft. N. 15 E from the apple tree corner in Erastus Silver line, thence N. 15 ~~#~~. E 643 ft. with said line to a Spanish oak corner now down, thence S. 54 E. 24 poles to a bunch of chestnut trees, thence S. 62 degrees 30 minutes West 573 ft. to the beginning.

With the right to follow and work the mica vein under his adjoining lands.

TO HAVE AND TO HOLD said minerals in said lands unto the said Lessee, for mining purposes, for the aforesaid period of FIVE YEARS from the date hereof, upon compliance with the following terms and conditions:

1. The rental or royalty under the terms of this lease shall be as follows:

(a) One-eight royalty of the gross sale price of all mica mined and sold from said lands;

(b) Seventy-five ($.75) per ton of 2240 pounds for all feldspar mined and removed from said lands; and

(c) One-tenth of the gross sale price of all other minerals that may be mined and sold from said lands by the Lessee.

2. That the Lessee shall upon the signing and delivery of this lease pay to the Lessors the sum of $50.00 and a like sum of $50.00 on 1 June 1958, and $50.00 on the first day of each month thereafter during the life of this lease and such payments shall be treated as minimum royalty and credited as a credit on the aforesaid regular royalty for minerals mined and sold from said lands during the month following each of said payments with the understanding that said payments are not accumulative but shall be charged as a credit against regular royalty on minerals sold during each 30 day period following each of said payments.

3. That the Lessee shall furnish to the Lessors with each royalty payments the shipping weights, sale weights and sale price invoices, which shall determine the weights and prices on which royalty payments are made.

4. That the payment of rental or royalty, except minimum royalty, shall be made onthe 10th day of each month for any minerals mined and sold from said lands during the previous calendar month; that the minimum royalty hereinabove provided shall be made in advance as hereinabove provided under paragraph 2.

5. That the Lessee shall keep the mines operated by it on the leased lands free from all such muck or waste as it may blast or dig loose in said mine or mines, ther being no back-filling unless agreed to by the lessors in writing.

6. That the Lessee shall not dump any waste from any shaft or mine operated by it upon cleared lands; that the Lessee shall, if it becomes necessary to cut any timber on lands covered by this lease, cut and remove said timber in a manner agreeable with the Lessors; That the Lessee shall surrender all right to said muck and waste; and the same shall become the property of the Lessors with the right to reclaim and process from same any and all minerals; That the Lessors shall have the right for a trucking road over said lands from the mine to proper dumping grounds over which waste can be hauled.

7. That the Lessee shall not permit water pumped from any mining operation upon said lands to overflow upon said lands so as to run over and wash over the lands of the Lessors, but shall convey said water through pipe lines buried under the ground so as to not bother cultivation from said mines over the above described property.

8. That the Lessee shall take care of the water lined over the above described lands conveying water to the residence of the Lessors and that they shall immediately repair any damage it may do to said water line in its mining operation and at the expense of the Lessee.

9. That the Lessee shall sheet or work all mica mined from the above described lands upon said lands unless the Lessors give their consent in writing to work and sheet said mica at some other place and wherever said mica is worked, the Lessors shall have the right to inspect said mica and the books of the Lessee as to the sale of all mica, from said lands.

10. None

11. That the Lessee shall not sublet, sub-lease or attempt to sub-lease or make assignment, of any interest in said mining lease without the written consent of the Lessors and any assignment or attempted assignment or sub-lease of same without the said written consent of the Lessors shall be void and of no effect.

12. That the Lessee shall carry on the mining and working of said lands in an orderly manner and accepts this lease with the understanding that there will be no drinking or intixicant licquors or the unlawful use of said property in any way by the Lessee.

13. That the failure of the Lessee, or its agents or servants and employees to make the mimimum monthly payments or payments of regular royalties as herein set our or failure to perform any of the provisions hereinabove provided shall render this lease null and void at the option of the Lessors.

14. That the Lessors shall not be liable for wages, personal injuries or in any manner to the employees of the Lessee, or for any damage to adjoining land owners caused by the mining operation of the said Lessee.

AND THE LESSORS AGREE THAT THE LESSEE SHALL:

1. Have a right to dig, quarry, or in any other manner search for and obtain mica, feldspar, or any other minersla on said lands.

2. Have a right, in the case of core drilling on said lands by the Lessee, for a water line over said lands.

3. Have a right or ingress and egress to such minerals on said lands, by using the present roads, or by making and maintaining roads over the above described lands in such location or locations as may be agreeable with the Lessors.

4. Have a right to construct buildings or machinery and equipment on said lands reasonably necessary for operations under the terms of this lease and for the right to remove the same from the lands at any time provided all royalty has been paid including minimum royalty.

5. Have a right for power lines and telephone lines and water lines over said lands reasonably necessary for said operation.

6. Have a right to renew this lease for an additional five years at the end of the first five year period on the same terms and conditions as herein set forth by giving written notice to the Lessors 30 days immediately before the ending of the first five year period, provided that the Lessee has complied with all the terms and conditions of this lease.

7. Have a right to cancel this lease upon 90 days written notice to the Lessors provided all royalties, including minimum royalties, are paid in full during the 90 day period and on further condition that all the terms and provisions of this lease have been fully complied with by the Lessee.

IN TESTIMONY WHEREOF, Bryan Robinson and wife, Grace Robinson as Lessors, have hereunto set their hands and affixed their seals the day and year first above written, and Mitchell Lumber Company, Inc., as Lessee, has caused these presents to be signed by its persident and attested to by its secretary and its corporate seal to be placed hereon in attestation hereof, all by order of its board of directors in regular session duly given as of the day and year first above written.

Bryan Robinson (SEAL)
Bryan Robinson

Grace Robinson (SEAL)
Grace Robinson

LESSORS

MITCHELL LUMBER COMPANY, INC.,

By Franklin Mitchell (SEAL)
President

(Corporate Seal Here)

ATTEST:

Sam U. Thompson
Secretary

OFFICE
DATA
RECEIVED APR 30
DATE

STATE OF NORTH CAROLINA

COUNTY OF MITCHELL

I, William C. McKinney, Jr., Notary Public in and for the aforesaid State and County, do hereby certify that Bryan Robinson and wife Grace Robinson, named as Lessors, personally appeared before me and acknowledged the due execution of the foregoing Mining Lease for the purposes therein expressed.

Witness my hand and Notarial Seal this 23rd day of April, 1958.

William C. McKinney Jr.
Notary Public

My commission expires 9/17/59

STATE OF NORTH CAROLINA

COUNTY OF MITCHELL

This 23rd day of April, 1958, personally came before me, William C. McKinney, a Notary Public in and for said County and State, Sam W. Thompson, who, being by me duly sworn, says that he knows the common seal of Mitchell Lumber Company, Inc., and is acquainted with Frank W. Phillips, who is president of said corporation and that he, the said Sam W. Thompson, is secretary of the said corporation and saw the said common seal of said corporation affixed to said instrument by said president, and saw the said president of the corporation sign the foregoing instrument, and that he, the said secretary, signed his name in attestation of the execution of the said instrument in the presence of said president of said corporation.

Witness my hand and Notarial Seal, this 23rd day of April, 1958

William C. McKinney Jr.
Notary Public

My commission expires 9/17/59

DMNA
RECEIVED 30 1958
DATE | CODE

STATE OF NORTH CAROLINA

COUNTY OF MITCHELL

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W I T N E S S E T H

That the said Lessors, for and in consideration of the performance of the conditions and agreements and the payment of royalty as hereinafter set forth by the Lessee, have bargained and leased and by these presents do bargain and lease to the Lessee for a period of FIVE YEARS from the date hereof, for mining purposes a certain tract or parcel of land in Mitchell County, North Carolina, more particularly described as follows:

> Beginning on a stake 347 ft. N. 16 E. from the apple tree corner in Erastus Silver line, thence N. 15 E. 643 ft. with said line to a Spanish oak corner now down, thence S. 64 E. 24 poles to a bunch of chestnut trees, thence S. 62 degrees 30 minutes West 575 ft. to the beginning.
>
> With the right to follow and work the mica vein under his adjoining lands.

TO HAVE AND TO HOLD said minerals in said lands unto the said Lessee, for mining purposes, for the aforesaid period of FIVE YEARS from the date hereof, upon compliance with the following terms and conditions:

1. The rental or royalty under the terms of this lease shall be as follows:

(a) One-eigth royalty of the gross sale price of all mica mined and sold from said lands;

(b) Seventy-five ($.75) per ton of 2240 pounds for all feldspar mined and removed from said lands; and

(c) One-tenth of the gross sale price of all other minerals that may be mined and sold from said lands by the Lessee.

2. That the Lessee shall upon the signing and delivery of this lease pay to the Lessors the sum of $50.00 and a like sum of $50.00 on 1 June 1958, and $50.00 on the first day of each month thereafter during the life of this lease and such payments shall be treated as minimum royalty and credited as a credit on the aforesaid regular royalty for minerals mined and sold from said lands during the month following each of said payments with the understanding that said payments are not accumulative but shall be charged as a credit against regular royalty on minerals sold during each 30 day period following each of said payments.

3. That the Lessee shall furnish to the Lessors with each royalty payment the shipping weights, sale weights and sale price invoices, which shall determine the weights and prices on which royalty payments are made.

4. That the payment of rental or royalty, except minimum royalty, shall be made on the 10th day of each month for any minerals mined and sold from said lands during the previous calendar month; that the minimum royalty hereinabove provided shall be made in advance as hereinabove provided under paragraph 2.

5. That the Lessee shall keep the mines operated by it on the leased lands free from all such muck or waste as it may blast of dig loose in said mine or mines, there being no back-filling unless agreed to by the Lessors in writing.

6. That the Lessee shall not dump any waste from any shaft or mine operated by it upon cleared lands; that the Lessee shall, if it becomes necessary to cut any timber on lands covered by this lease, cut and remove said timber in a manner agreeable with the Lessors; that the Lessee shall surrender all right to said muck and waste, and the same shall become the property of the Lessors with the right to reclaim and process from same any and all minerals; That the Lessors shall have the right for a trucking road over said lands from the mine to a proper dumping grounds over which waste can be hauled.

7. That the Lessee shall not permit water pumped from any mining operation upon said lands to overflow upon said lands so as to run over and wash over the lands of the Lessors, but shall convey said water through pipe lines buried under the ground so as to not bother cultivation from said mines over the above described property.

8. That the Lessee shall take care of the water lines over the above described lands conveying water to theresidence of the Lessors and that they shall immediately repair any damage it may do to said water line in its mining operation and at the expense of the Lessee.

9. That the Lessee shall sheet or work all mica mined from the above described lands upon said lands unless the Lessors give their consent in writing to work and sheet said mica at some other place and wherever said mica is worked, the Lessors shall have the right to inspect said mica and the books of the Lessee as to the sale of all mica, from said lands.

10. None

11. That the Lessee shall not sublet, sub-lease or attempt to sub-lease or make assignment, of any interest in said mining lease without the written consent of the Lessors and any assignment or attempted assignment or sub-lease of same without the said written consent of the Lessors shall be void and of no effect.

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13. That the failure of the Lessee, or its agents or servants and employees to make the minimum monthly payments or payments of regular royalties as herein set out or failure to perform any of the provisions hereinabove provided shall render this lease null and void at the option of the Lessors.

14. That the Lessors shall not be liable for wages, personal injuries or in any manner to the employees of the Lessee, or for any damage to adjoining land owners caused by the mining operation of the said Lessee.

AND THE LESSORS AGREE THAT THE LESSEE SHALL:

1. Have a right to dig, quarry, or in any other manner search for and obtain mica, feldspar, or any other minerals on said lands.

2. Have a right, in the case of core drilling on said lands by the Lessee, for a water line over said lands.

3. Have a right of ingress and egress to such minerals on said lands, by using the present roads, or by making and maintaining roads over the above described lands in such location or locations as may be agreeable with the Lessors.

4. Have a right to construct buildings or machinery and equipment on said lands reasonably necessary for operations under the terms of this lease and for the right to remove the same from the lands at any time provided all royalty has been paid including minimum royalty.

5. Have a right for power lines and telephone lines and water lines over said lands reasonably necessary for said operation.

6. Have a right to renew this lease for an additional five years at the end of the first five year period on the same terms and conditions as herein set forth by giving written notice to the Lessors 30 days immediately before the ending of the first five year period, provided that the Lessee has complied with all the terms and conditions of this lease.

7. Have a right to cancel this lease upon 90 days written notice to the Lessors provided all royalties, including minimum royalties, are paid in full during the 90 day period and on further condition that all the terms and provisions of this lease have been fully complied with by the Lessee.

STATE OF NORTH CAROLINA

COUNTY OF MITCHELL

THIS MINING LEASE, Made this the 23rd day of April, 1958, between BRYAN ROBINSON and wife, GRACE ROBINSON, parties of the first part and hereinafter called LESSORS, to MITCHELL LUMBER COMPANY, INC., a corporation chartered under and by virtue of the laws of the State of North Carolina, with its principal office at Spruce Pine, Mitchell County, North Carolina, party of the second part and hereinafter called LESSEE:

W I T N E S S E T H

That the said Lessors, for and in consideration of the performance of the conditions and agreements and the payment of royalty as hereinafter set forth by the Lessee, have bargained and leased and by these presents do bargain and lease to the Lessee for a period of FIVE YEARS from the date hereof, for mining purposes a certain tract or parcel of land in Mitchell County, North Carolina, more particularly described as follows:

> Beginning on a stake 347 ft. N. 15 E. from the apple tree corner in Erastus Silver line, thence N. 15 E. 643 ft. with said line to a Spanish oak corner now down, thence S. 54 E. 24 poles to a bunch of chestnut trees, thence S. 62 degrees 30 minutes West 573 ft. to the beginning.
>
> With the right to follow and work the mica vein under his adjoining lands.

TO HAVE AND TO HOLD said minerals in said lands unto the said Lessee, for mining purposes, for the aforesaid period of FIVE YEARS from the date hereof, upon compliance with the following terms and conditions:

1. The rental or royalty under the terms of this lease shall be as follows:

(a) One-eigth royalty of the gross sale price of all mica mined and sold from said lands;

(b) Seventy-five ($.75) per ton of 2240 pounds for all feldspar mined and removed from said lands; and

(c) One-tenth of the gross sale price of all other minerals that may be mined and sold from said lands by the Lessee.

2. That the Lessee shall upon the signing and delivery of this lease pay to the Lessors the sum of $50.00 and a like sum of $50.00 on 1 June 1958, and $50.00 on the first day of each month thereafter during the life of this lease and such payments shall be treated as minimum royalty and credited as a credit on the aforesaid regular royalty for minerals mined and sold from said lands during the month following each of said payments with the understanding that said payments are not accumulative but shall be charged as a credit against regular royalty on minersla sold during each 30 day period following each of said payments.

3. That the Lessee shall furnish to the Lessors with each royalty payment the shipping weights, sale weights and sale price invoices, which shall determine the weights and prices on which royalty payments are made.

4. That the payment of rental or royalty, except minimum royalty, shall be made on the 10th day of each month for any minerals mined and sold from said lands during the previous calendar month; that the minimum royalty hereinabove provided shall be made in advance as hereinabove provided under paragraph 2.

5. That the Lessee shall keep the mines operated by it on the leased lands free from all such muck or waste as it may blast of dig loose in said mine or mines, there being no back-filling unless agreed to by the Lessors in writing.

6. That the Lessee shall mot dump any waste from any shaft or mine operated by it upon cleared lands; that the Lessee shall, if it becomes necessary to cut any timber on lands covered by this lease, cut and remove said timber in a manner agreeable with the Lessors; that the Lessee shall surrender all right to said muck and waste, and the same shall become the property of the Lessors with the right to reclaim and process from same any and all minerals; That the Lessors shall have the right for a trucking road over said lands from the mine to a proper dumping grounds over which waste can be hauled.

7. That the Lessee shall not permit water pumped from any mining operation upon said lands to overflow upon said lands so as to run over and wash over the lands of the Lessors, but shall convey said water through pipe lines buried under the ground so as to not bother cultivation from said mines over the above described property.

8. That the Lessee shall taek care of the water lines over the above described lands conveying water to theresidence of the Lessors and that they shall immediately repair any damage it may do to said water line in its mining operation and at the expense of the Lessee.

9. That the Lessee shall sheet or work all mica mined from the above described lands upon said lands unless the Lessors give their consent in writing to work and sheet said mica at some other place and wherever said mica is worked, the Lessors shall have the right to inspect said mica and the books of the Lessee as to the sale of all mica, from said lands.

10. None

11. That the Lessee shall not sublet, sub-lease or attempt to sub-lease or make assignment, of any interest in said mining lease without the written consent of the Lessors and any assignment or attempted assignment or sub-lease of same without the said written consent of the Lessors shall be void and of no effect.

12. That the Lessee shall carry on the mining and working of sakd lands in an orderly manner and accepts this lease with the understanding that there will be no drinking of intoxicant licquors or the unlawful use of said property in any way by the Lessee.

13. That the failure of the Lessee, or its agents or servants and employees to make the minimum monthly payments or payments of regular royalties as herein set out or failure to perform any of the provisions hereinabove provided shall render this lease null and void at the option of the Lessors.

14. That the Lessors shall not be liable for wages, personal injuries or in any manner to the employees of the Lessee, or for any damage to adjoining land owners caused by the mining operation of the said Lessee.

AND THE LESSORS AGREE THAT THE LESSEE SHALL:

1. Have a right to dig, quarry, or in any other manner search for and obtain mica, feldspar, or any other minerals on said lands.

2. Have a right, in the case of core drilling on said lands by the Lessee, for a water line over said lands.

3. Have a right of ingress and egress to such minerals on said lands, by using the present roads, or by making and maintaining roads over the above described lands in such location or locations as may be agreeable with the Lessors.

4. Have a right to construct buildings or machinery and equipment on said lands reasonably necessary for operations under the terms of this lease and for the right to remove the same from the lands at any time provided all royalty has been paid including minimum royalty.

5. Have a right for power lines and telephone lines and water lines over said lands reasonably necessary for said operation.

6. Have a right to renew this lease for an additional five years at the end of the first five year period on the same terms and conditions as herein set forth by giving written notice to the Lessors 30 days immediately before the ending of the first five year period, provided that the Lessee has complied with all the terms and conditions of this lease.

7. Have a right to cancel this lease upon 90 days written notice to the Lessors provided all royalties, including minimum royalties, are paid in full during the 90 day period and on further condition that all the terms and provisions of this lease have been fully complied with by the Lessee.

RECEIVED APR 30 1958

DATE	INITIALS	CODE

April 28, 1958

Mr. Robert A. Lawrence, Executive Officer
U. S. Department of the Interior
Defense Minerals Exploration Administration
Knoxville 2, Tennessee

Dear Mr. Lawrence:

Re: Banner Mine, Hole # 8

I am enclosing additional lease and consent to join which we have obtained from Mr. Bryan Robinson. You will note that it joins the E. E. Silvers property on the Northeast end of the Banner Vein.

In Hole No. 8 we drilled through what we think to be both the Banner and the Sink Hole veins, and they were two of the best ones we have gotten. In the Banner vein we drilled through one (1) 13" block, two (2) 8" blocks, one (1) 7" block, and one (1) 4" block in addition to all the small pieces of mica we got. The Sink Hole vein also was very rich and contains garnets and other minerals exactly like the Sink Hole mine is taking out.
Hole no. 8 was drilled collared N. 25 E. 12ft. ft. from the collar of holes Noe. 1 and 2, and was drilled N. 50 W. direction. Following is the log of this hole:

0.0	-	40.5	Surface
40.5	-	70.5	Vein
70.5	-	74.5	Slate
74.5	-	80.0	Vein
80.0	-	151.6	Slate
151.6	-	152.8	Vein
152.8	-	155.5	Slate
155.5	-	154.4	Vein
154.4	-	158.0	Slate
158.0	-	198.7	Vein
198.7	-	202.0	Slate

Thank you very much for your consideration and further attention to our application for assistance in connection with Banner Mine.

Very truly yours,

MITCHELL MINER COMPANY, INC.

Frank W. Phillips

Frank W. Phillips, President

FWP/km

W. B. Ellis' line; thence North 17° East with Ellis' line 16 poles to the Beginning. Containing 7 acres more or less.

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Page-169

30

STATE OF NORTH CAROLINA

COUNTY OF MITCHELL

THIS MINING LEASE, Made this the 23rd day of April, 1987, between BRYAN ROBINSON and wife, GRACE ROBINSON, parties of the first part and hereinafter called LESSORS, to MITCHELL LUMBER COMPANY, INC., a corporation chartered under and by virtue of the laws of the State of North Carolina, with its principal office at Spruce Pine, Mitchell County, North Carolina, party of the second part and hereinafter called LESSEE:

W I T N E S S E T H :

That the said Lessors, for and consideration of the performance of the conditions and agree ents and the payment of royalty as hereinafter set forth by the Lessee, have bargained and leased and by these presents do bargain and lease to the Lessee for a period of FIVE YEARS from the date hereof, for mining purposes a certain tract or parcel of land in Mitchell County, North Carolina, more particularly described as follows:

> Beginning on a stake 347 ft. N. 16 E from the apple tree corner in Erastus Silver line, thence N. 15 E. 643 ft. with said line to a Spanish oak corner new down, thence S. 54 E. 24 poles to a bunch of chestnut trees, thence S. 62 degrees 30 minutes West 573 ft. to the beginning.
>
> With the right to fol ow and work the mica vein under his adjoining lands.

TO HAVE AND TO HOLD said minerals in said lands unto the said Lessee, for mining purposes, for the aforesaid period of FIVE YEARS from the date hereof, upon compliance with the following terms and conditions:

1. The rental or royalty under the terms of this lease shall be as follows:

(a) One-eight royalty of the gross sale price of all mica mined and sold from said lands;

(b) Seventy-five ($.75) per ton of 2240 pounds for all feldspar mined and removed from said lands; and

(c) One-tenth of the gross sale price of all other minerals that may be mined and sold from said lands by the Lessee.

2. That the Lessee shall upon the signing and delivery of this lease pay to the Lessors the sum of $50.00 and a like sum of $50.00 on 1 June 1958, and $50.00 on the first day of each month thereafter during the life of this lease and such payments shall be treated as minimum royalty and credited as a credit on the aforesaid regular royalty for minerals mined and sold from said lands during the month following each of said payments with the understanding that said payments are not accumulative but shall be charged as a credit against regular royalty on minerals sold during each 30 day period following each of said payments.

3. That the Lessee shall furnish to the Lessors with each royalty payments the shipping weights, sale weights and sale price invoices, which shall determine the weights and prices on which royalty payments are made.

4. That the payment of rental or royalty, except minimum royalty, shall be made on the 10th day of each month for any minerals mined and sold from said lands during the previous calendar month; that the minimum royalty hereinabove provided shall be made in advance as hereinabove provided under paragraph 2.

5. That the Lessee shall keep the mines operated by it on the leased lands free from all such muck or waste as it may blast or dig loose in said mine or mines, ther being no back-filling unless agreed to by the lessors in writing.

6. That the Lessee shall not dump any waste from any shaft or mine operated by it upon cleared lands; that the Lessee shall, if it becomes necessary to cut any timber on lands covered by this lease, cut and remove said timber in a manner agreeable with the Lessors; That the Lessee shall surrender all right to said muck and wastog and the same shall become the property of the Lessors with the right to reclaim and process from same any and all minerals; That the Lessors shall have the right for a trucking road over said lands from the mine to proper dumping grounds over which waste can be hauled.

7. That the Lessee shall not permit water pumped from any mining operation upon said lands to overflow upon said lands so as to run over and wash over the lands of the Lessors, but shall convey said water through pipe lines buried under the ground so as to not bother cultivation from said mines over the above described property.

8. That the Lessee shall take care of the water lined over the above described lands conveying water to the residence of the Lessors and that they shall immediately repair any damage it may do to said water line in its mining operation and at the expense of the Lessee.

9. That the Lessee shall sheet or work all mica mined from the above described lands upon said lands unless the Lessors give their consent in writing to work and sheet said mica at some other place and wherever said mica is worked, the Lessors shall have the right to inspect said mica and the books of the Lessee as to the sale of all mica, from said lands.

10. None

11. That the Lessee shall not sublet, sub-lease or attempt to sub-lease or make assignment, of any interest in said mining lease without the written consent of the Lessors and any assignment or attempted assignment or sub-lease of same without the said written consent of the Lessors shall be void and of no effect.

12. That the Lessee shall carry on the mining and working of said lands in an orderly manner and accepts this lease with the understanding that there will be no drinking or intixicant liequors or the unlawful use of said property in any way by the Lessee.

13. That the failure of the Lessee, or its agents or servants and employees to make the minimum monthly payments or payments of regular royalties as herein set our or failure to perform any of the provisions hereinabove provided shall render this lease null and void at the option of the Lessors.

14. That the Lessors shall not be liable for wages, personal injuries or in any manner to the employees of the Lessee, or for any damage to adjoining land owners caused by the mining operation of the said Lessee.

AND THE LESSORS AGREE THAT THE LESSEE SHALL:

1. Have a right to dig, quarry, or in any other manner search for and obtain mica, feldspar, or any other minerals on said lands.

2. Have a right, in the case of core drilling on said lands by the Lessee, for a water line over said lands.

3. Have a right or ingress and egress to such minerals on said lands, by using the present roads, or by making add maintaining roads over the above described lands in such location or locations as may be agreeable with the Lessors.

4. Have a right to construct buildings or machinery and equipment on said lands reasonably necessary for operations under the terms of this lease and for the right to remove the same from the lands at any time provided all royalty has been paid including minimum royalty.

5. Have a right for power lines and telephone lines and water lines over said lands reasonably necessary for said operation.

6. Have a right to renew this lease for an additional five years at the end of the first five year period on the same terms and conditions as herein set forth by giving written notice to the Lessors 30 days immediately before the ending of the first five year period, provided that the Lessee has complied with all the terms and conditions of this lease.

7. Have a right to cancel this lease upon 90 days written notice to the Lessors provided all royalties, including minimum royalties, are paid in full during the 90 day period and on further condition that all the terms and provisions of this lease have been fully complied with by the Lessee.

IN TESTIMONY WHEREOF, Bryan Robinson and wife, Grace Robinson as Lessors, have hereunto set their hands and affixed their seals the day and year first above written, and Mitchell Lumber Company, Inc., as Lessee, has caused these presents to be signed by its president and attested to by its secretary and its corporate seal to be placed hereon in attestation hereof, all by order of its board of directors in regular session duly given as of the day and year first above written.

Bryan Robinson (SEAL)
Bryan Robinson

Grace Robinson (SEAL)
Grace Robinson

LESSORS

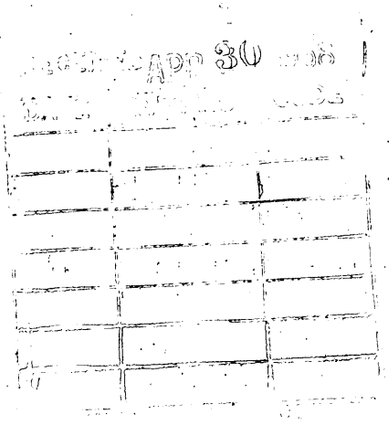
MITCHELL LUMBER COMPANY, INC.,

By Frank W. Phillips (SEAL)
President

(Corporate Seal Here)

ATTEST:

Sam W. Thompson
Secretary



STATE OF NORTH CAROLINA

COUNTY OF MITCHELL

I, William C. McKinney, Jr., Notary Public in and for the aforesaid State and County, do hereby certify that Bryan Robinson and wife Grace Robinson, named as Lessors, personally appeared before me and acknowledged the due execution of the foregoing Mining Lease for the purposes therein expressed.

Witness my hand and Notarial Seal this 23rd day of April, 1958.

William C. McKinney Jr.
Notary Public

My commission expires 9/17/59

STATE OF NORTH CAROLINA

COUNTY OF MITCHELL

This 23rd day of April, 1958, personally came before me, William C. McKinney, a Notary Public in and for said County and State, Sam W. Thompson, who, being by me duly sworn, says that he knows the common seal of Mitchell Lumber Company, Inc., and is acquainted with Frank W. Phillips, who is president of said corporation and that he, the said Sam W. Thompson, is secretary of the said corporation and saw the said common seal of said corporation affixed to said instrument by said president, and saw the said president of the corporation sign the foregoing instrument, and that he, the said secretary, signed his name in attestation of the execution of the said instrument in the presence of said president of said corporation.

Witness my hand and Notarial Seal, this 23rd day of April, 1958

STATE OF NORTH CAROLINA Mitchell County.

The foregoing certificate of William C. McKinney, Jr.

a Notary Public of Mitchell County, State of North Carolina, is adjudged to be correct. Let the instrument, with the certificates, be registered.

Witness my hand and official seal, this 28 day of April, A. D. 1958

L. B. Greene
Clerk Superior Court.

and being in _____ County aforesaid, and more particularly described and defined as follows: Lying and being in Snow Creek Township, Mitchell County, North Carolina, adjoining the lands of Fred Silvers, Rass Silvers and others and described as follows: BEGINNING on a hickory and poplar on a branch an old corner and runs South 45 West with the old line 17 1/2 poles to a spanish oak stump; thence South 26 West 26 poles to an appletree at a ditch;; thence South 58 West 12 1/2 poles to an appletree; thence South 20 West 13 poles to a stake in the road; thence South 52 West 13 poles to a stake at the bridge; thence up and with the branch and Clyde Robinson's line North 82 East 12 poles; South 36 East 12 poles; South 82 East 9 poles to a stake at Clyde Robinson's corner; thence with said line North 23 East 83 poles to a stake in the old line; thence North 67°30'West with the old line 33 poles to the beginning, containing 12 1/4 acres more or less.

Book 96 Page 212

Filed for Registration on the 28 day of April 19 58 at 2:30 o'clock P.M., and Registered in the office of the Register of Deeds for Mitchell County, N. C. this 28 day of April 19 58 at 4:00 o'clock P M., in Book 86 of Deeds, on Page 561 etc.

Edna G. Masters
Register of Deeds
Dep.

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

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 23 1957
DATE | INITIALS | CODE

December 20, 1957

Memorandum

To: Operating Committee, DMEA - Washington

From: Acting Executive Officer, DMEA - Region V -

Subject: DMEA Application - Frank W. Phillips, Spruce Pine, N.C.
Banner Mine (mica) Yancey County, N.C.

Transmitted are three copies of the subject application together with:

1 copy of the mining lease
6 copies of the Consent to Lien
3 copies of the property map

One copy has been retained by this office for our use.

V. J. Lynch

V. J. Lynch

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

RECEIVED DEC 23 1957 DMEA

Not to be filled in by applicant

Docket No. DMEA-4901
Metal or Mineral Mica
Date Received 12/23/57
Estimated Cost $30,316.00
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Banner Mine, Spruce Pine, N. C.
Mitchell Lumber Co., Inc. (incorporated in state of N. C.) Spruce Pine, N. C.
Frank W. Phillips, president, Spruce Pine, N. C.
Sam W. Thompson, sec. & treas., Spruce Pine, N. C.

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

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

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

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

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

(*b*) State any mine name by which the property is known. Banner Mine

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

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

(*e*) If you own the land, describe any liens or encumbrances on it.

RECEIVED DEC 20 1957

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

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

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

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

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. 12 miles from Spruce Pine, N. C., 200 ft. from graveled road

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

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

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

(*c*) The work will start within 10 days and be completed within 24 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated 12-18, 1957

Mitchell Lumber Co. Inc.
(Applicant)
By Frank W. Phillips, Pres.
Spruce Pine
N.C.

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

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

The Banner Mine c/o Frank W. Phillips, Spruce Pine, N. C.

Patterson Howell found the Banner vein of the Sink Hole Mine in 1890. He was sledding mine timbers to be used in the old workings of the Sink Hole Mine when his sled runner caught and pulled from the ground a large block of mica. He sold his finding or discovery to Jim Tolley for $5.00.

Jim Tolley then gave Morgan Pittman and Sam Silver (who owned an interest in the land and minerals) an interest in the mine to get them to help him work it. As soon as they started digging a hole the water began rising. This water problem frightened Jim Tolley and he sold his one third interest to his two partners for $25.00.

Morgan Pittman and Sam Silver worked this mine until 1894. They had a small mica house where they rifted the mica. There was very little trimming to do at that time. During this year, according to several of the old miners and citizens now living, they stacked the mica along the side od the small mica house as they would stck wood, and at one time they remembered seeing as much as eight cords of mica by this house.

Morgan Pittman sold his one-half interest to R. M. Banner (from whom the mine got its name) for $2500.00. Later Sam Silver sold his half interest to Banner for $4000.00.

Banner came here from New York and shipped his mica back to New York in the block. The large amount of royalty he paid is unknown. However four large families lived on this income for several yaers. Banner had so much water trouble in a number of shafts he tried to sink below a depth of 35 feet taht he sold out to J. C. Abernathy in 1900.

Abernathy sold his mica to Asheville Mica Company. He paid to Mrs. Harmon Hensley (the former Mrs. Billy Silver, mother of Sam Silver and Will Silver) between $1200.00 and $1400.00 royalty before the wtaer ran him out of the mine.

There was no more work done until Colonial Mica Company was buying mica. During this period L. E. Silver, from whom we obtained our lease, decided to try working the mine by sinking a shaft farther on the North-East end of the old workings. He worked three men for 28 days, sunk a shaft 20 feet and sold $4200.00 worth of mica. Water and mud was about to bluff him when the mica buying program closed.

The country rock which underlies this soil and soft mica chist, according to our four diamond core drill holes, seems to be as flat as a table top and holds this lake of chist and water over it.

In drilling all four holes for the Banner vein we found them all the same. When we got to within about 30 feet of the country rock our fish-tail bit would sink as fast as the hydraulic cylinders on the core drill would let it. In hole No. 1 when we put in the casing, the water flowed out the top for over 24 hours and continues to stand within 7 feet of the top.

The reason for this mine not having been leased and worked earlier under the Government Mica Program was due to the fact that Will Silver (father of L. E. Silver) who owned an interest in this land and mineral, has been mentally sick for many years and L. E. Silver was unable to own a clear title to the property until July of this year.

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BANNER MINE c/o Frank W. Phillips, Spruce Pine, NC

We believe there is a possibility that the Banner Mine vein will produce more mica than the Sink Hole vein, due to the fact that it has never been worked to an average depth of more than 35 feet and the Sink Hole vein was worked 170 feet. Proof in addition to the core drill log on the four holes, is that the Banner vein has been worked over 300 feet N-E of core drill holes No. 1 and 2. It also shows, in perfect line, in the Sink Hole creek approximately 400 feet S-W from hole No. 4.

The reasons for not drilling hole No. 4 any deeper are : (1) At a depth of 300 feet in the Sink Hole there are places the vein is 20 feet wide and so nearly vertical that it would be possible for a 60 degree hole to stay in the vein 50 or 60 feet. (2) Longyear Diamond Coredrill Company sent one of their men with a box of diamond bits to try to learn what kind of bits would cut this rock the best, especially the vein. He used four bits in the 54 feet of vein, all were worn down to the point where they would not cut another inch under high pressure. Longyear is now having bits made especially to try again.

Figures from the U. S. Government Mica Purchasing Depot in Spruce Pine, N. C., show that they have bought from Sink Hole Mine, between the periods of August 11, 1952 and November 27, 1957, $663,847.29 worth of mica. This does not include a few thousand dollars worth of punch and scrap mica sold.

We are now working at a depth of 300 feet and approximately 325 feet in each direction from the shaft in the Sink Hole Mine. The old workings extend 160 feet further S-W and 150 feet over our present level. Coredrill hole No. 5 is 480 feet from our shaft in the N-E end. No old workings show over our tunnel after a distance of 200 feet N-E of our shaft. Our water hole is 25 feet deeper (325 feet) than our working level, and still contains a good vein.

Our Sink Hole loan was to cover 90% of the cost. Instaed we spent almost as much other money as we did of the DMEA loan in sinking the shaft. One of our partners (Roy Grindstaff) gave it up and we others came very nearly doing the same. This is a big, continous and regular producing mine, but is what is called a poor one. An average of twenty men work on two shifts per day and have obtained an average of 2500 pounds of block mica per week from the beginning of operations until the present time.

In the Banner Mine we need to install a better head-frame, shaft and slide; car track with car and electric hoists that we have in the Sink Hole Mine. That is if we expect to get all of the mica from this mine during this program and make a living for ourselves.

6. Estimate of costs:

Bulldozing and leveling off for shaft site, head frame, hoist house, tool house and road to dumping ground	$ 200.00
Tool house, powder magazine, explosive house	116.00
Building high head frame with attached hoist house, dumping bin and chute connected	2,000.00
Sinking shaft 250 feet @ $80.00 (size 5' x 8')	20,000.00
Crosscutting and/or drifting @ $40.00 (size 5' x 7') 200 feet	8,000.00
Total costs	$30,316.00

Reasons for asking for the above amount:

We want to get through approximately 70 feet of water and mud to solid slate when we begin, without being "run out of this hole broke". We have had experience sinking shafts, including the shaft at Sink Hole Mine, but from old miners reports about the number of men who were driven from this Banner Mine by water and mud, and what we have learned by coredrilling -- we have not, (and I would say, very few miners have), ever succeeded in sinking a shaft through anything exactly like this.

We intend to use 2 inch tongued and grooved oak for cribbing down to solid slate, and install rails and slide as we go down. Shaft is to be 5' x 8' including man-way, with 8 foot side being parallel with the vein. We would like to cross the vein at approximately 250 feet deep.

From what we have learned about the quanity of water we will need to install a 3 inch screw pump, (same type being used successfully in Sink Hole Mine -- which we installed at a cost of $2300.00, after losing several thousand dollars experimenting to find the right type of pump) As we go down with the shaft, this pump will be lowered by adding on ten-foot sections of pipe, bearings and shaft. It will operated by a ten horsepower electric motor, and will pull water from a large barrel which will swing in shaft and into which water will be discharged from a small self-priming pump from bottom of workings. After we reach the required depth, the screw pump will pull water from a water hole under the floor at the bottom of the shaft.

LOGS FOR HOLES DRILLED FOR [illegible] BANNER VEIN

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Hole No. 1 was drilled on a 45 degree angle:

0 -- 88	feet	surface
88 -- 143	"	slate
143 -- 146	"	pegmatite
146 -- 147	"	slate
147 -- 152	"	pegmatite
152 -- 162	"	slate

Hole No. 2 was drilled on a 67 degree angle:

0 --- 70	feet	surface
70 -- 207.5	"	slate
207.5 -- 211	"	pegmatite
211 -- 214	"	slate
214 -- 220.5	"	pegmatite
220.5 -- 225	"	slate

Hole No. 3 was drilled on a 70 degree angle;

0 -- 110	feet	surface
110 -- 117	"	slate
117 -- 118	"	pegmatite
118 -- 152	"	slate
152 -- 152'[illegible]"		pegmatite
153'3" - 157'[illegible]"		slate
157'[illegible]" - 162'2"		pegmatite
162'2" - 164'8"		slate
164'8" - 173'8"		pegmatite
173'8" - 182	feet	slate

Hole No. 4 was drilled on a 60 degree angle; and collared S 34 degrees W 150 feet from collar of hole No. 3

0 -- 80	feet	surface
80 -- 176	"	slate
176 -- 180	"	pegmatite
180 -- 271'8"		slate
271'8" - 327	feet	pegmatite

327 feet quit hole in good pegmatite. Bit cost too high and we were satisfied

Hole No. 5 was drilled on a 43 degree angle, for Sink Hole vein was collared N 34 degrees W 101 feet from collar of Hole No. 3, drilled North 43 degrees W

0 -- 142	feet	surface
142 -- 172	"	slate
172 -- 173	"	vein
173 -- 218	"	slate
218 -- 225	"	vein
225 -- 319	"	slate

I certify that the above information is correct.

Frank W. Phillips

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STATE OF NORTH CAROLINA

COUNTY OF MITCHELL

THIS MINING LEASE, Made this the 24th day of July, 1957, between L. E. SILVER and wife, HUNTHA SILVER, parties of the first part and hereinafter called LESSORS, to MITCHELL LUMBER COMPANY, INC., a corporation chartered under and by virtue of the laws of the State of North Carolina, with its principal office at Spruce Pine, Mitchell County, North Carolina, party of the second part and hereinafter called LESSEE;

W I T N E S S E T H:

That the said Lessors, for and in consideration of the performance of the conditions and agreements and the payment of royalty as hereinafter set forth by the Lessee, have bargained and leased and by these presents do bargain and lease to the Lessee for a period of FIVE YEARS from the date hereof, for mining purposes a certain tract or parcel of land in Mitchell County, North Carolina, more particularly described as follows:

> BEGINNING on a Sourwood stump, an old corner, and runs south 45 degrees west 462 feet to an old Cherry corner; thence south 37 degrees 30 minutes east 360 feet to a stake; thence north 56 degrees 30 minutes east 80 feet to a stake; thence north 50 degrees 55 minutes east 205½ feet to a stake in W. A. Robinson's line; thence north 21 degrees east 275 feet to a stake; thence north 30 degrees 30 minutes east 191 feet to a stake; thence north 38 degrees 45 minutes east 171 feet to a Sourwood; thence north 38 degrees 50 minutes west 237 feet to the beginning.
>
> With the right to follow and work the mica vein under his adjoining lands.

TO HAVE AND TO HOLD said minerals in said lands unto the said Lessee, for mining purposes, for the aforesaid period of FIVE YEARS from the date hereof, upon compliance with the following terms and conditions:

1. The rental or royalty under the terms of this lease shall be as follows:

(a) One-eighth royalty of the gross sale price of all mica mined and sold from said lands;

(b) Seventy-five ($ .75) per ton of 2240 pounds for all feldspar mined and removed from said lands; and

(c) One-tenth of the gross sale price of all other minerals that may be mined and sold from said lands by the Lessee.

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2. That the Lessee shall upon the signing and delivery of this lease pay to the Lessors the sum of $50.00 and a like sum of $50.00 on 1 September 1957, and $50.00 on the first day of each month thereafter during the life of this lease and such payments shall be treated as minimum royalty and credited as a credit on the aforesaid regular royalty for minerals mined and sold from said lands during the month following each of said payments with the understanding that said payments are not accumulative but shall be charged as a credit against regular royalty on minerals sold during each 30 day period following each of said payments.

3. That the Lessee shall furnish to the Lessors with each royalty payment the shipping weights, sale weights and sale price invoices, which shall determine the weights and prices on which royalty payments are made.

4. That the payment of rental or royalty, except minimum royalty, shall be made on the 10th day of each month for any minerals mined and sold from said lands during the previous calendar month; that the minimum royalty hereinabove provided shall be made in advance as hereinabove provided under paragraph 2.

5. That the Lessee shall keep the mines operated by it on the leased lands free from all such muck or waste as it may blast or dig loose in said mine or mines, there being no back-filling unless agreed to by the Lessors in writing.

6. That the Lessee shall not dump any waste from any shaft or mine operated by it upon said lands except same may be deposited in a hollow above the barn of the Lessors on said lands, said dumping ground being agreed upon between the parties hereto; that all muck and waste from any mine upon said lands shall be hauled by truck or other conveyance to said designated dumping ground and after said waste or muck is dumped in said designated spot in the hollow above the barn, the Lessee shall surrender all right to said muck and waste and the same shall become the property of the Lessors with the right to reclaim and process from same any and all minerals; That the Lessors shall have the right for a trucking road over said lands from the mine to said dumping ground over which said waste can be hauled.

7. That the Lessee shall not permit water pumped from any mining operation upon said lands to overflow upon said lands so as to run over and wash over the lands of the Lessors, but shall convey said water through pipe lines buried under the ground so as to not bother cultivation from said mines over the above described property.

8. That the Lessee shall take care of the water lines over the above described lands conveying water to the residence of the Lessors and that they shall immediately repair any damage it may do to said water line in its mining operation and at its own expense.

9. That the Lessee shall carry on said mining operation in a workmanlike manner and shall do no unnecessary damage to the lands and shall do no damage to the buildings of the Lessors located upon or near said lands; that the barn of the Lessors is located upon the above tract and the residence on an adjoining tract and the Lessee shall be liable for any damage that it may do by blasting or otherwise to the residents of the Lessors and any damage that it may do to the barn of the Lessors located upon said lands.

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10. That the Lessee shall sheet or work all mica mined from the above described lands upon said lands unless the Lessors give their consent in writing to work and sheet said mica at some other place and wherever said mica is worked, the Lessors shall have the right to inspect said mica and the books of the Lessee as to the sale of all mica, from said lands.

11. That the Lessee shall not sublet, sub-lease or attempt to sub-lease or make assignment of any interest in said mining lease without the written consent of the Lessors and any assignment or or attempted assignment or sub-lease of same without the said written consent of the Lessors shall be void and of no effect.

12. That the Lessee shall carry on the mining and working of said lands in an orderly manner and accepts this lease with the understanding that there will be no drinking of intoxicant liquors or the unlawful use of said property in any way by the Lessee.

13. That the failure of the Lessee, its agents or servants and employees to make the minimum monthly payments or payments of regular royalties as herein set out or failure to perform any of the provisions hereinabove provided shall render this lease null and void at the option of the Lessors.

14. That the Lessors shall not be liable for wages, personal injuries or in any manner to the employees of the Lessee, or for any damage to adjoining land owners caused by the mining operation of the said Lessee.

15. That the Lessors reserve the right to cultivate and use the above described lands and use the barn located upon same so long as such use shall not interfere with mining operations upon said lands and should the Lessee in carrying on the mining operation tear down the barn and remove same, then it shall be responsible for said barn and shall negotiate with the Lessors before actually removing said barn from its present foundation.

AND THE LESSORS AGREE THAT THE LESSEE SHALL:

1. Have a right to dig, quarry, or in any other manner search for and obtain mica, feldspar, or any other minerals on said lands.

2. Have a right, in the case or core drilling on said lands by the Lessee, for a water line over said lands.

3. Have a right of ingress and egress to such minerals on said lands, by using the present road below the residence of E. L. Silver, to and from the above described lands with the right as hereinabove provided to make and maintain a road over said lands in hauling the waste and muck to the designated dumping ground on said lands.

4. Have a right to construct buildings or machinery and equipment on said lands reasonably necessary for operations under the terms of this lease and for the right to remove same from the lands at any time provided all royalty has been paid including minimum royalty.

LEL
H.S.

5. Have a right for power lines and telephone lines and water lines over said lands reasonably necessary for said operation.

6. Have a right to renew this lease for an additional five years at the end of the first five year period on the same terms and conditions as herein set forth by giving written notice to the Lessors 30 days immediately before the ending of the first five year period, provided that the Lessee has complied with all the terms and conditions of this lease.

7. Have a right to cancel this lease upon 90 days written notice to the Lessors provided all royalties, including minimum royalties, are paid in full during the 90 day period and on further condition that all the terms and provisions of this lease have been fully complied with by the Lessee.

IN TESTIMONY WHEREOF, L. E. Silver and wife, Hurtha Silver, as Lessors, have hereunto set their hands and affixed their seals the day and year first above written, and Mitchell Lumber Company, Inc., as Lessee, has caused these presents to be signed by its president and attested to by its secretary and its corporate seal to be placed hereon in attestation hereof, all by order of its board of directors in regular session duly given as of the day and year first above written.

L E Silver (SEAL)
L. E. Silver

Hurtha Silver (SEAL)
Hurtha Silver

LESSORS

MITCHELL LUMBER COMPANY, INC.,

By Frank W. Phillips (SEAL)
President

(Corporate Seal here)

ATTEST:
Sam W. Thompson
Secretary

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STATE OF NORTH CAROLINA,

COUNTY OF Yancey.

I, Norris R. Deyton, Notary Public in and for the aforesaid State and County, do hereby certify that L. E. Silver and his wife, Hurtha Silver, named as Lessors, personally appeared before me and acknowledged the due execution of the foregoing Mining Lease for the purposes therein expressed.

Witness my hand and Notarial Seal, this 19th day of Oct. 1957.

Norris R. Deyton
NOTARY PUBLIC

My commission expires:

11-2-58

(Notarial Seal impressed here)

#6

6

FILE COPY
DEED

NORTH CAROLINA,

MITCHELL COUNTY.

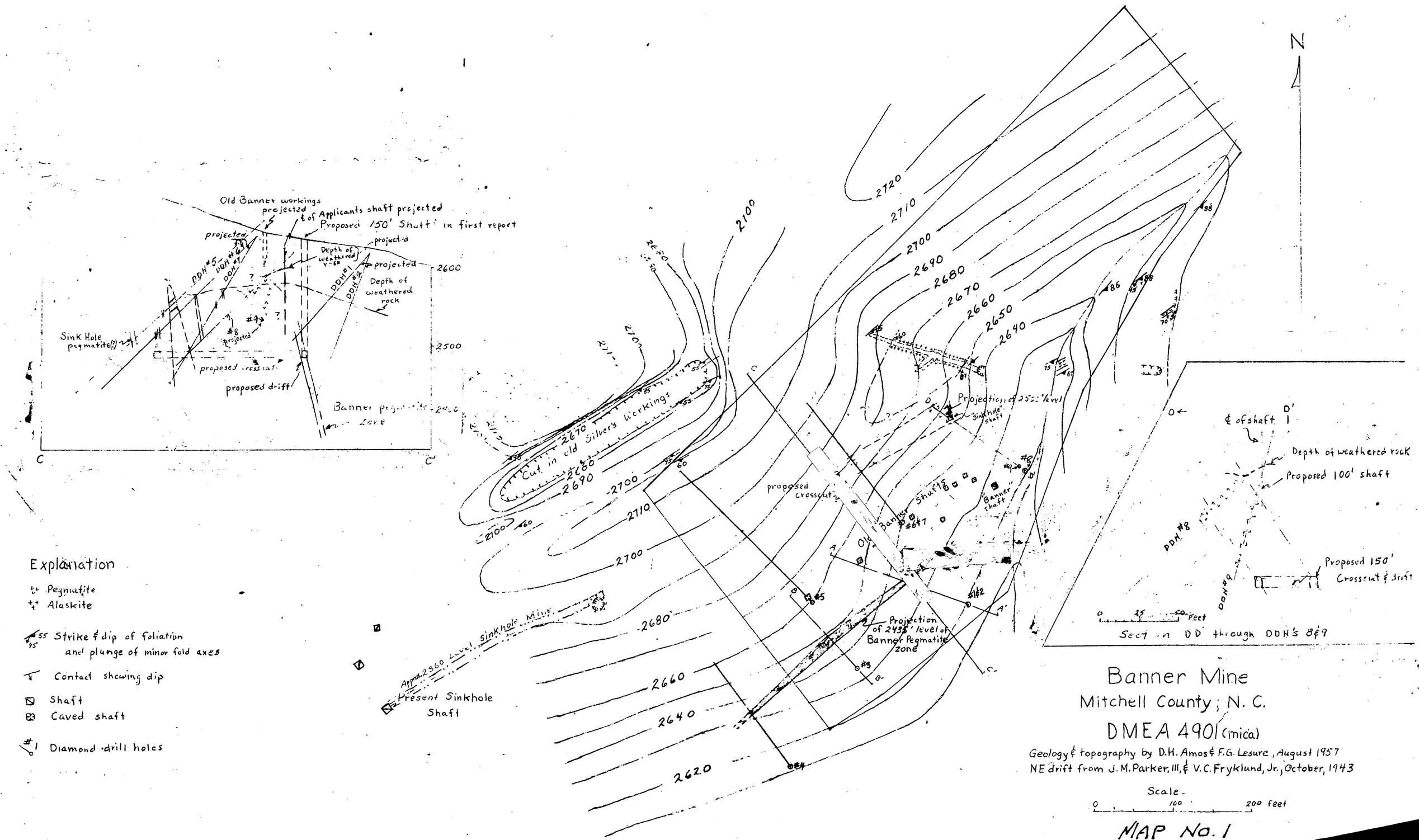
This 17 day of Oct, 1957, personally came before me, Kenneth R McKinney, a Notary Public in and for said County and State, ~~Frank Phillips~~ North Carolina who, being by me duly sworn, says that he knows the common seal of Mitchell Lumber Company, Inc., and is acquainted with Frank Phillips who is president of said corporation and that he, the said Sam Thingpen is secretary of the said corporation and saw the said president sign the foregoing instrument and saw the said common seal of said corporation affixed to said instrument by said president and that he, the said Secretary, signed his name in attestation of the execution of the said instrument in the presence of said president of said corporation.

Witness my hand and Notarial Seal, this 17 day of Oct 1957.

Kenneth R McKinney
NOTARY PUBLIC

My commission expires:
5/29/59

(Notarial Seal to be impressed here)


N
Old Banner workings projected
℄ of Applicants shaft projected
Proposed 150' Shaft in first report
projected
Depth of weathered rock
DDH #5
DDH #4
DDH #7
DDH #1
DDH #2
#9
#8
Sink Hole pegmatite(?)
proposed crosscut
proposed drift
Banner pegmatite zone
2600
2500
2400
C
C'
2720
2710
2700
2690
2680
2670
2660
2650
2640
2620
2100
Cut in old Silver's workings
Old Banner Shaft
Banner shaft
proposed crosscut
Banner Shaft
Projection of 2555' level
Sinkhole shaft
Approx. 2560 Level, Sinkhole Mine
Present Sinkhole Shaft
Projection of 2435' level of Banner Pegmatite zone
A
A'
B
B'
D
D'
℄ of shaft
Depth of weathered rock
Proposed 100' shaft
Proposed 150' Crosscut & drift
0 25 50 Feet
Section DD' through DDH's 8 & 9
Explanation
Pegmatite
Alaskite
Strike & dip of foliation and plunge of minor fold axes
Contact showing dip
Shaft
Caved shaft
Diamond drill holes
Banner Mine
Mitchell County, N. C.
DMEA 4901 (mica)
Geology & topography by D.H. Amos & F.G. Lesure, August 1957
NE drift from J.M. Parker, III, & V.C. Fryklund, Jr., October, 1943
Scale
0 100 200 feet
MAP No. 1

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FGL 2/55
2 rev. 5/58

Pro
Texture
Channel
Str 250'
width 5'
dth. [illegible]

Cons
No release
[illegible]
50' Hiway [illegible]
water problem
volume of
pegmatite

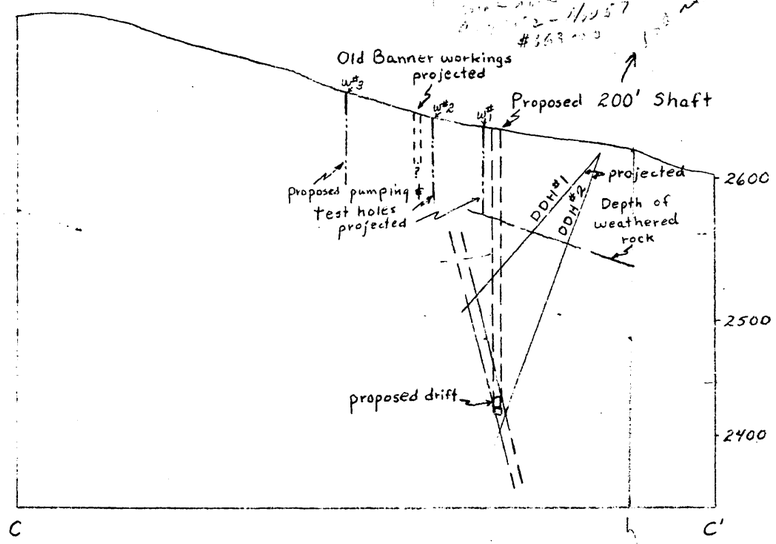
Inter
Compare to
Sink hole
Sinkhole not
known 25 shafts
[illegible]
Where is
[illegible] EW.
Dan'l
1892-1900 —
Dan'l
[illegible] #4200
[illegible] 1/1957
#[illegible]

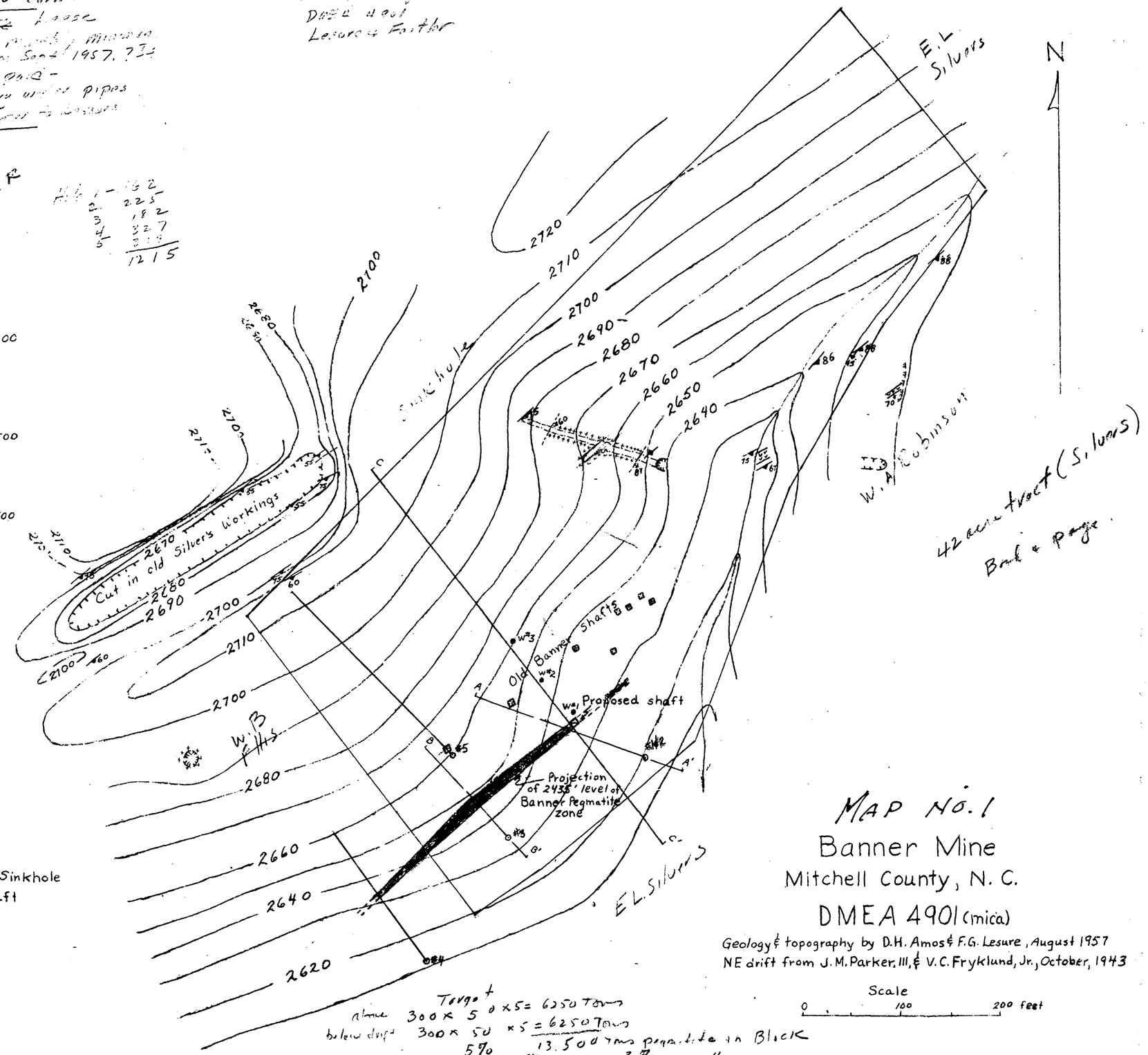
Need
Description of [illegible]
tract - Book + Page
Tie to corner
~~Sinkhole~~ Lease
#50 [illegible] Mineral
from Sept 1957. 73
[illegible]
Bury water pipes
Water + [illegible]

DMEA 3139
Owned by Lawrence
[illegible] + [illegible]
DMEA [illegible]
Lesure + Father

[illegible] FER

[illegible] - 1/2
2 225
3 182
4 327
5 [illegible]
1215





Explanation

- Pegmatite
- Alaskite
- 55 / 45 Strike & dip of foliation and plunge of minor fold axes
- Contact showing dip
- Shaft
- Caved shaft
- #1 Diamond drill holes
- ●w#1 Proposed pumping-test holes

MAP NO. 1

Banner Mine

Mitchell County, N. C.

DMEA 4901 (mica)

Geology & topography by D.H. Amos & F.G. Lesure, August 1957
NE drift from J.M. Parker, III, & V.C. Fryklund, Jr., October, 1943

Scale
0 100 200 feet

Target
above 300 x 50 x 5 = 6250 Tons
below drift 300 x 50 x 5 = 6250 Tons
13,500 Tons pegmatite in Block
5%
675 Tons CpM @ $600
at 5% $20,250
3%
405 @ $600 = $243,000
Royalty $12,150

FGL 2/58

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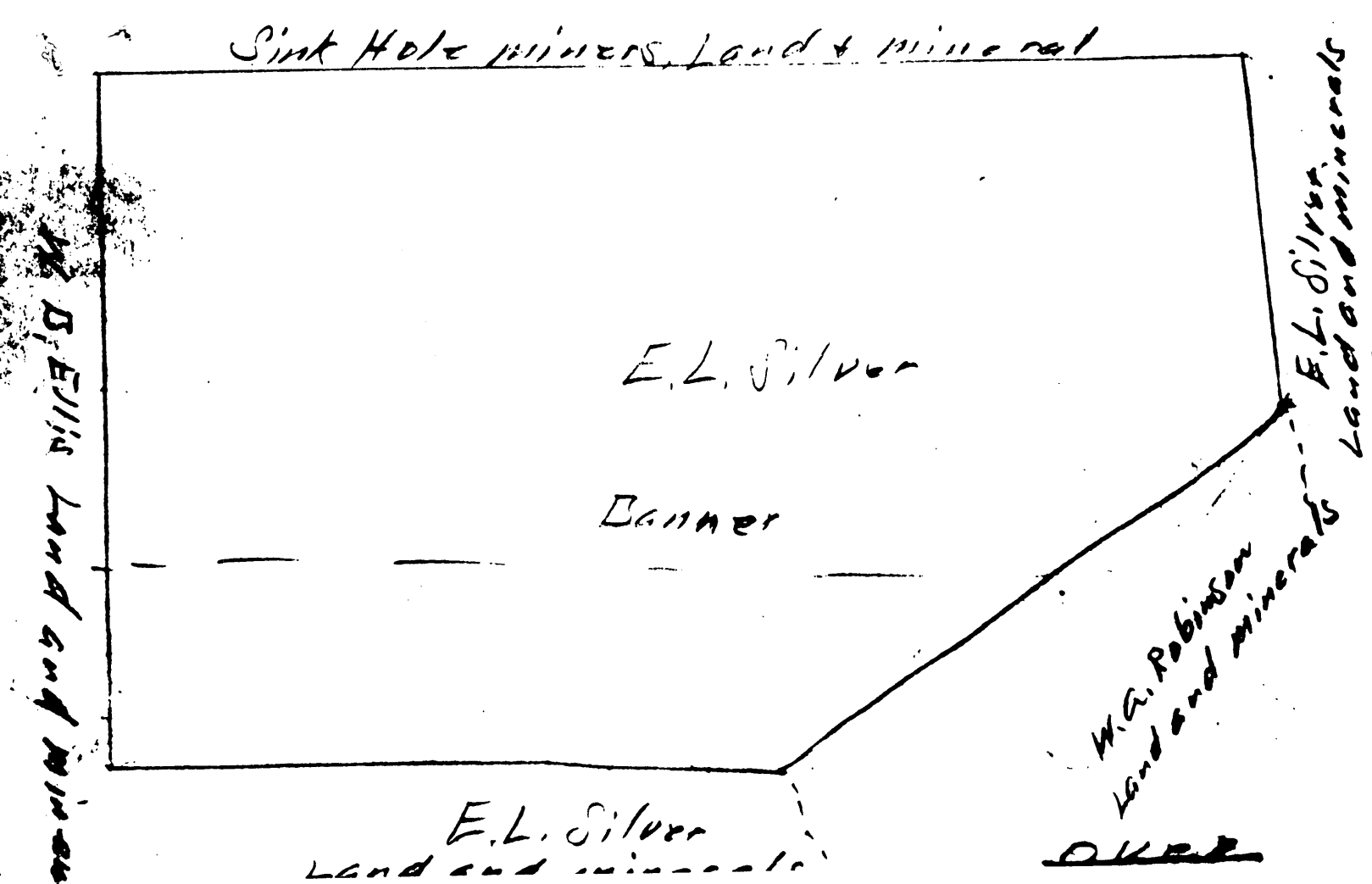
Sink Hole miners Land & mineral
E.L. Silver
Banner
E.L. Silver
Land and minerals
W.G. Robinson
Land and minerals
E.L. Silver
Land and minerals
W.D. Ellis Land and Mineral
Over

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DATE	INITIALS	CODE

Sink Hole mineral, Land & mineral

E.L. Silver

Banner

E.L. Silver Land and Mineral

E.L. Silver Land and minerals

W.A. Robinson Land and minerals

E.L. Silver Land and

OVER

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DATE	INITIALS	CODE

N
W
E
S
SINK HOLE MINE
SHAFT
N 59-30E
174
N 65-00E
131
Elev Top Ground At Shaft 374.0
Bottom Line of Mine Tunnel
S 80-30 W 479' from property line
Top Line of cut
NEW CUT IN OLD SILVER WORKINGS
14" Cherry Corner
with old fence
S 45-00 W
862'
Original Sour-wood Stump Corner
N 36-00 W
152'
Marked 6" Sour-wood In fence corner
171
N 38-45 E
191
N 30-30 E
275'
N 21-00 E
Old Fence
Stake in old line
37.5
310
320
330
340
350
360
370
380
390
400
S 37-30 E
380'
N 48-00 E
℄ OF TOP OF TUNNEL OF OLD BANNER WORKINGS
Hole No 5
Elev 327.4 Collar of Drill Hole No 3
Elev 312.6 Collar of Drill Holes No 1 & 2
205.5'
N 50-55 E
80'
N 56-30 E
Collar of Hole No 4
Elevations and contours by Stadia shots.
MAP No. 2
MAP OF MINING LEASE LANDS
MITCHELL LUMBER CO.
NEAR PANDANIA
MITCHELL COUNTY, N.C.
Scale 1" = 50'
October 14th, 1957
D.M. Sholy, Engineer.
DMEa-4901

[illegible] Mine. DME/-4901

Detail No. 1
Head frame
Material and Labor

Braces	2 oak logs	12" tip x 25'	50 l.f.	
Posts	4 oak logs	12" tip x 30'	120 l.f.	@ $1.00 = $120.00

[illegible]

4 pcs.	4 x 6 x 6'	48	b.f.
4 pcs.	4 x 8 x 6'	64	"

[illegible] Panel:

Diag.	8 pcs.	4 x 6 x 12'	192	"
Girts	4 "	4 x 6 x 8'	64	"

Lower Panel:

Diag.	8 pcs.	4 x 6 x 14'	224	"
Girts	4 "	4 x 6 x 9'	72	"

[illegible]:

Posts	2 "	8 x 8 x 18'	192	"
Frame	2 "	8 x 8 x 6'	64	"
Frame	2 "	8 x 8 x 14'	150	"
Frame	4 "	4 x 6 x 8'	64	"
Bottom		14' x 6' x 4"	336	"
Front		8' x 6' x 3"	144	"
[illegible]		50 sq.ft. x 2" x 2	200	"
			1,814	"

Use 2 M b.f. @ $65/M	$130.00
Dump and door	50.00
Sheave and hardware	50.00
Labor	350.00
Concrete footings (6)	100.00
Total...	850.00

page [illegible] Banner Mine. DMEA-4901.

Detail No. 1
Head frame
Material and Labor

Braces	2 oak logs	12" tip x 25'	50 l.f.	
Posts	4 oak logs	12" tip x 30'	120 l.f. @ $1.00	$120.00
[illegible]				
[illegible]	4 x 6 x 6'		48 b.f.	
[illegible]	4 x 8 x 6'		64 "	
[illegible] Rangil:				
[illegible]	8 pcs.	4 x 6 x 12'	192 "	
[illegible]	4 "	4 x 6 x 8'	64 "	
Lower Rangil:				
[illegible]	8 pcs.	4 x 6 x 14'	224 "	
[illegible]	4 "	4 x 6 x 9'	72 "	
Dump Hopper:				
Posts	2 "	8 x 8 x 18'	192 "	
[illegible]	2 "	8 x 8 x 6'	64 "	
[illegible]	2 "	8 x 8 x 14'	150 "	
[illegible]	4 "	4 x 6 x 8'	64 "	
[illegible]		14' x 6' x 4"	336 "	
[illegible]		8' x 6' x 3"	144 "	
[illegible]		50 sq.ft. x 2" x 2	200 "	
			1,814 "	
		Use 2 M b.f. @ $65/M		$130.00
		Dump and door		50.00
		Sheave and hardware		50.00
		Labor		350.00
		Concrete footings (6)		100.00
		Total		850.00

Banner Mine. DMEA-4901:

Detail No. 1
Head frame
Material and Labor

Braces	2 oak logs	12" tip x 25'	50 l.f.	
Posts	4 oak logs	12" tip x 30'	120 l.f. @ $1.00	$120.00

Top:

4 pcs.	4 x 6 x 6'	48 b.f.
4 pcs.	4 x 8 x 6'	64 "

Upper Panel:

Diag.	8 pcs.	4 x 6 x 12'	192 "
Girts	4 "	4 x 6 x 8'	64 "

Lower Panel:

Diag.	8 pcs.	4 x 6 x 14'	224 "
Girts	4 "	4 x 6 x 9'	72 "

Dump Frame:

Posts	2 "	8 x 8 x 18'	192 "
Frame	2 "	8 x 8 x 6'	64 "
Frame	2 "	8 x 8 x 14'	150 "
Frame	4 "	4 x 6 x 8'	64 "
Bottom		14' x 6' x 4"	336 "
Front		8' x 6' x 3"	144 "
Sides		50 sq.ft. x 2" x 2	200 "
			1,814 "

Use 2 M b.f. @ $65/M	$130.00
Dump and door	50.00
Sheave and hardware	50.00
Labor	350.00
Concrete footings (6)	100.00
Total...	850.00

page [illegible] Banner Mine. DMEA-4901.

Detail No. 1
Head Frame
Material and Labor

Braces	2 oak logs	12" tip x 25'	50 l.f.	
Posts	4 oak logs	12" tip x 30'	120 l.f.	@ $1.00 = $120.00

Top:

4 Posts	4 x 6 x 6'	48 b.f.	
4 Posts	4 x 8 x 6'	64 "	

Upper Panel:

Diag.	8 pcs.	4 x 6 x 12'	192 "
Girts	4 "	4 x 6 x 8'	64 "

Lower Panel:

Diag.	8 pcs.	4 x 6 x 14'	224 "
Girts	4 "	4 x 6 x 9'	72 "

Dump Hopper:

Posts	2 "	8 x 8 x 13'	192 "
Frame	2 "	8 x 8 x 6'	64 "
Frame	2 "	8 x 8 x 14'	150 "
Frame	4 "	4 x 6 x 8'	64 "
Bottom		14' x 6' x 4"	336 "
Front		8' x 6' x 3"	144 "
Sides		50 sq.ft. x 2" x 2	200 "
			1,814 "

Use 2 M b.f. @ $65/M	$130.00
Chute and door	50.00
Sheave and hardware	50.00
Labor	350.00
Concrete footings (6)	100.00
Total...	850.00

page [illegible] Dinner Mine. DMEA-[illegible]

Detail No. 1
Head Frame
Material and Labor

Braces	2 oak logs	12" tip x 25'	50 l.f.	
Posts	4 oak logs	12" tip x 30'	120 l.f. @ $1.00	$120.00

Top:

[illegible]	4 x 6 x 6'	48 b.f.	
[illegible]	4 x 8 x 6'	64 "	

Upper Panel:

Diag.	8 pcs.	4 x 6 x 12'	192 "
Girts	4 "	4 x 6 x 8'	64 "

Lower Panel:

Diag.	8 pcs.	4 x 6 x 14'	224 "
Girts	4 "	4 x 6 x 9'	72 "

Dump Hopper:

Posts	2 "	8 x 8 x 18'	192 "
Frame	2 "	8 x 8 x 6'	64 "
Frame	2 "	8 x 8 x 14'	150 "
Frame	4 "	4 x 6 x 8'	64 "
Bottom		14' x 6' x 4"	336 "
Lower Front		8' x 6' x 3"	144 "
Chute		50 sq.ft. x 2" x 2	200 "
			1,814 "

Use 2 M b.f. @ $65/M	$130.00
Dump and door	50.00
Sheave and hardware	50.00
Labor	350.00
Concrete footings (6)	100.00
Total...	850.00

Detail No. 1
Head frame
Material and Labor

Braces	2 oak logs	12" tip x 25'	50 l.f.	
Posts	4 oak logs	12" tip x 30'	120 l.f. @ $1.00	$120.00

Tower:

4 posts	4 x 6 x 6'	48 b.f.	
4 posts	4 x 8 x 6'	64 "	

Upper Panel:

Posts	8 pcs.	4 x 6 x 12'	192 "
Girts	4 "	4 x 6 x 8'	64 "

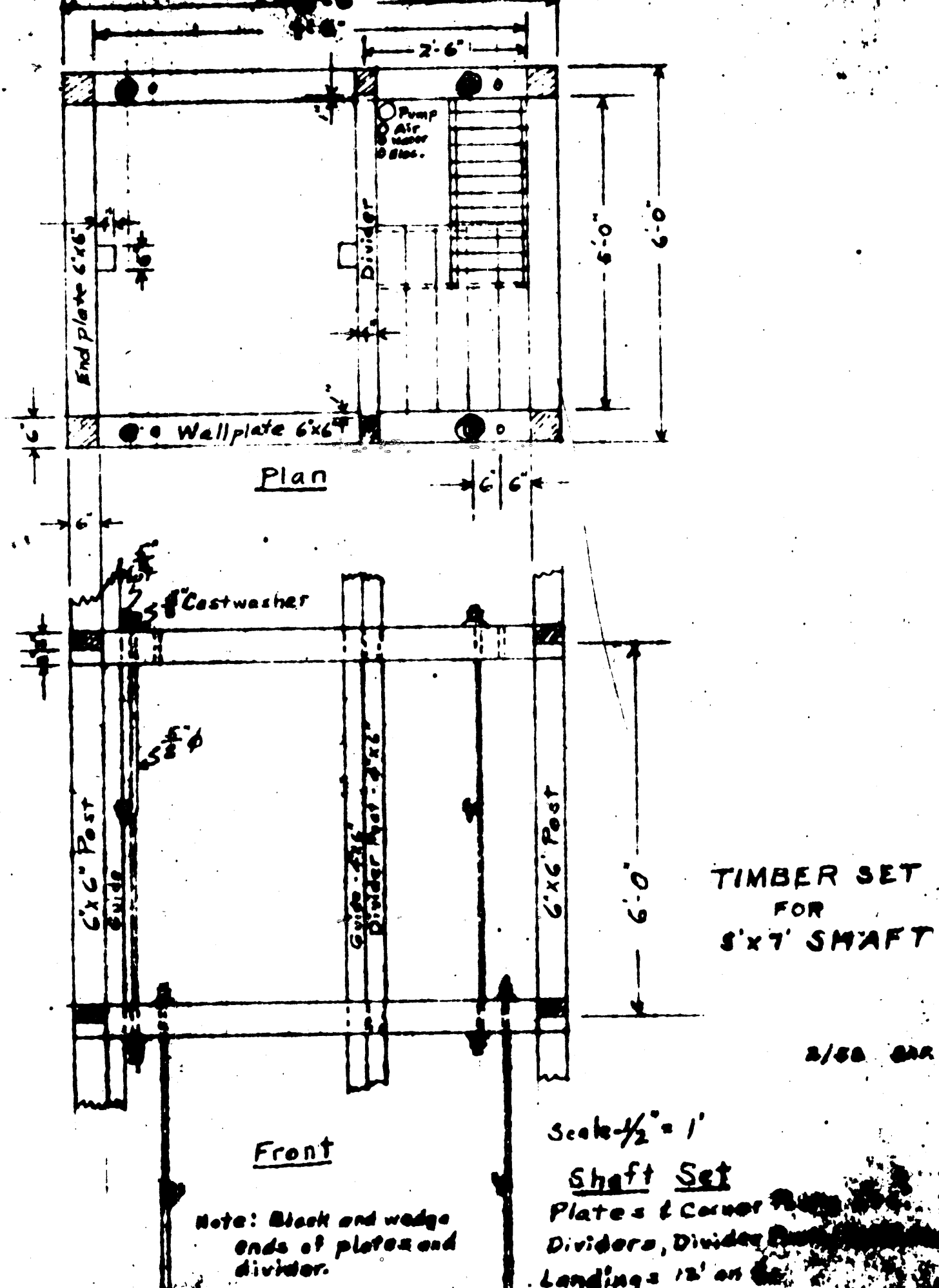
Lower Panel:

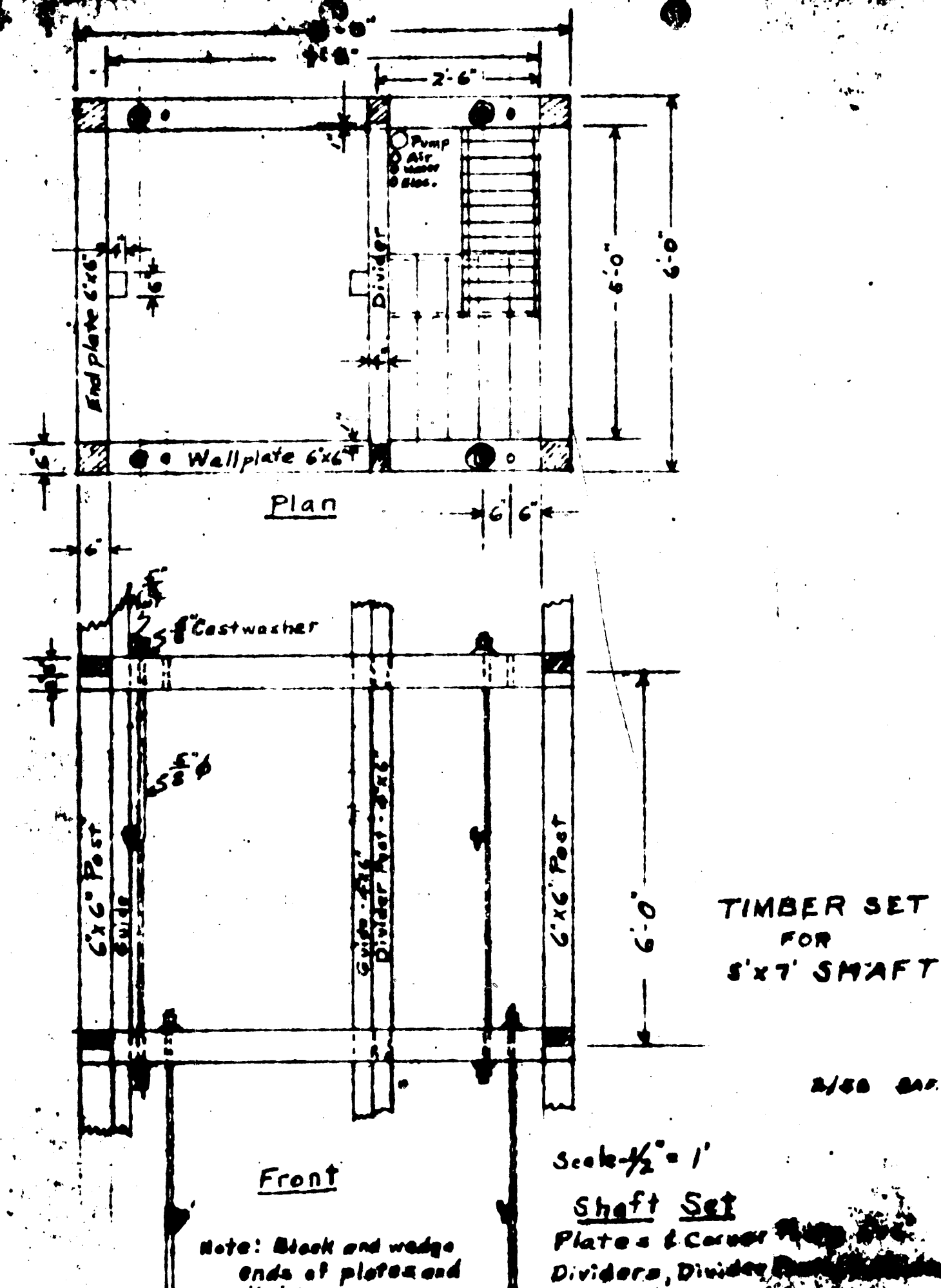
Posts	8 pcs.	4 x 6 x 14'	224 "
Girts	4 "	4 x 6 x 9'	72 "

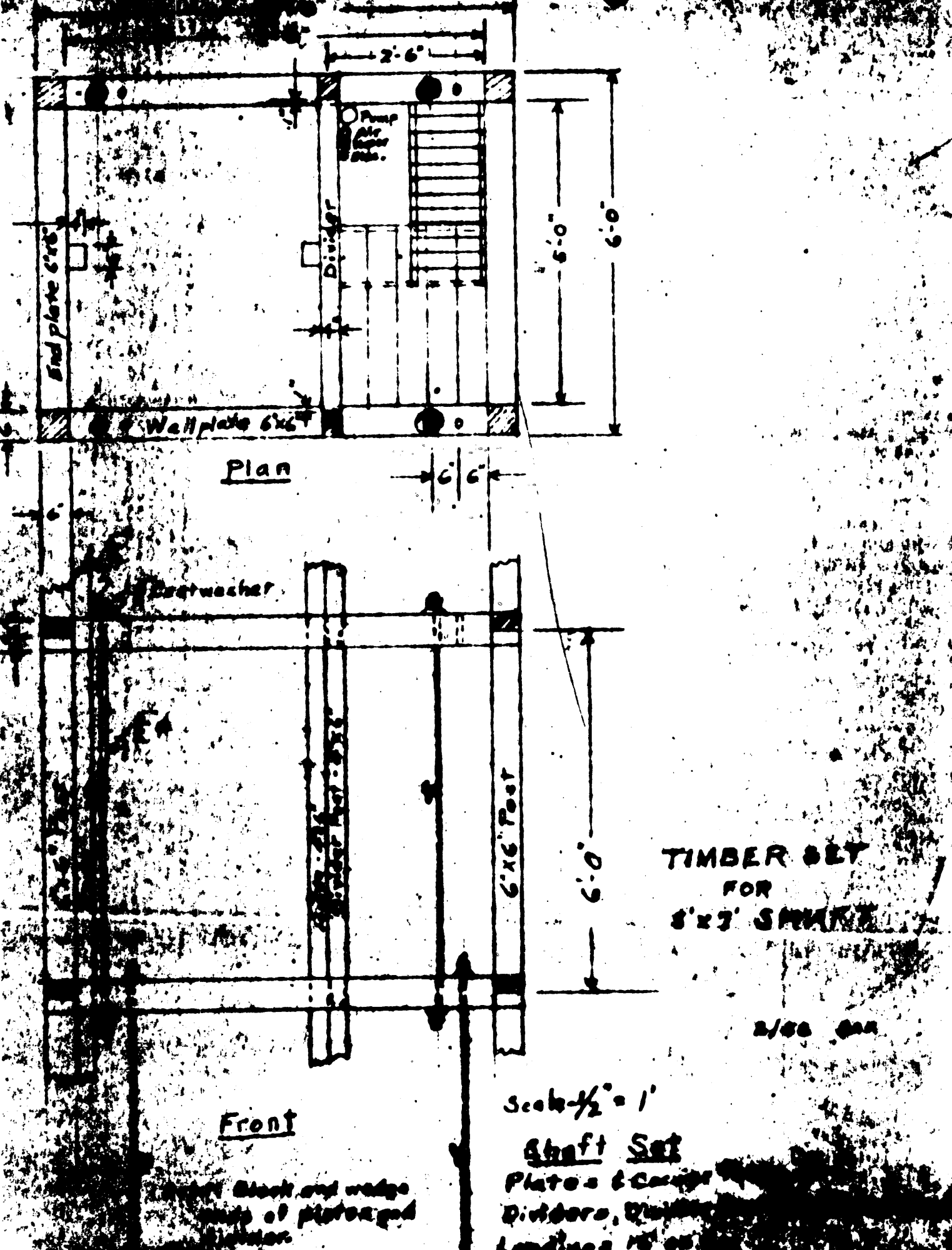
Dump Platform:

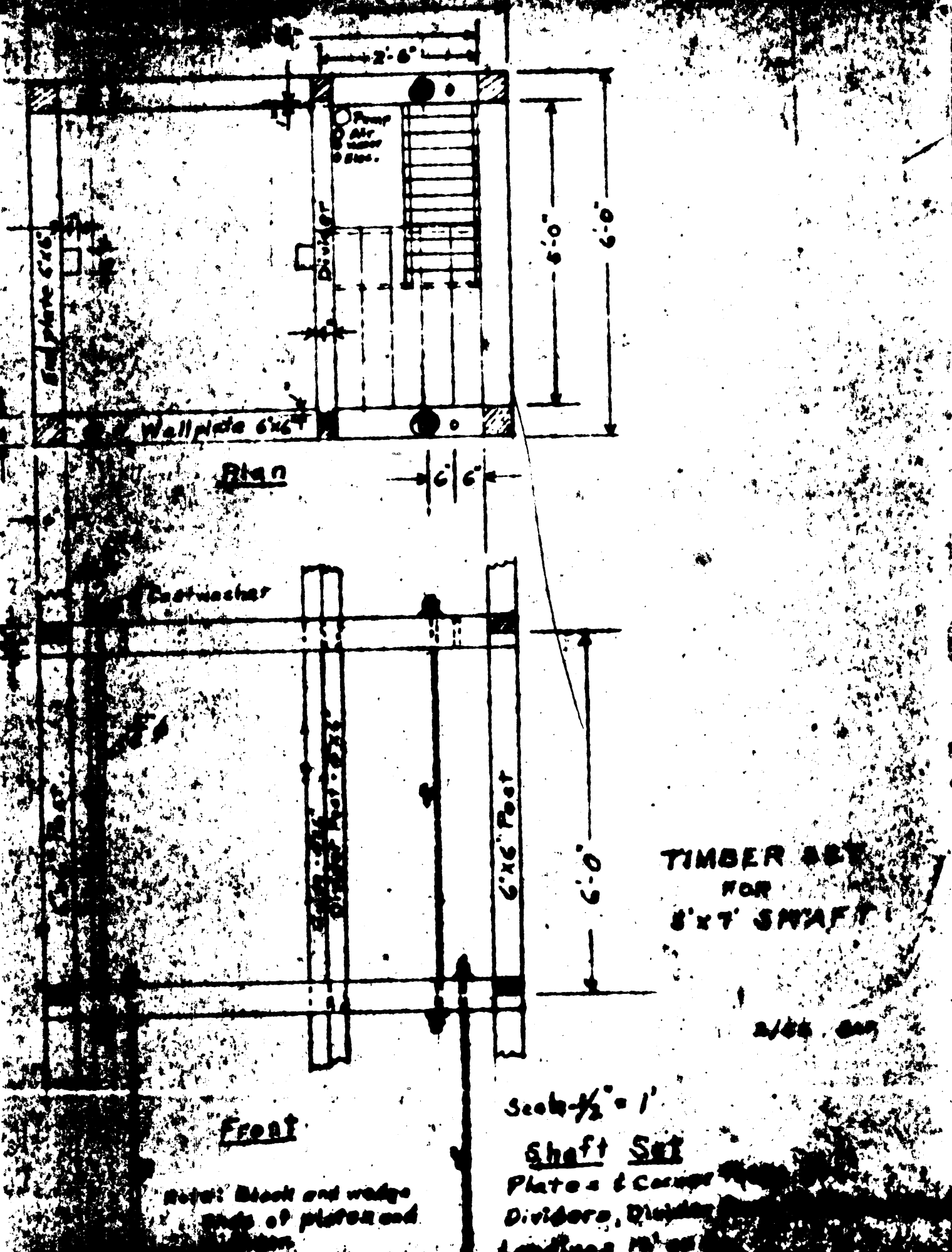
Posts	2 "	8 x 8 x 18'	192 "
[illegible]	2 "	8 x 8 x 6'	64 "
[illegible]	2 "	8 x 8 x 14'	150 "
[illegible]	4 "	4 x 6 x 8'	64 "
Bottom		14' x 6' x 4"	336 "
[illegible]		8' x 6' x 3"	144 "
[illegible]		50 sq.ft. x 2" x 2	200 "
			1,814 "

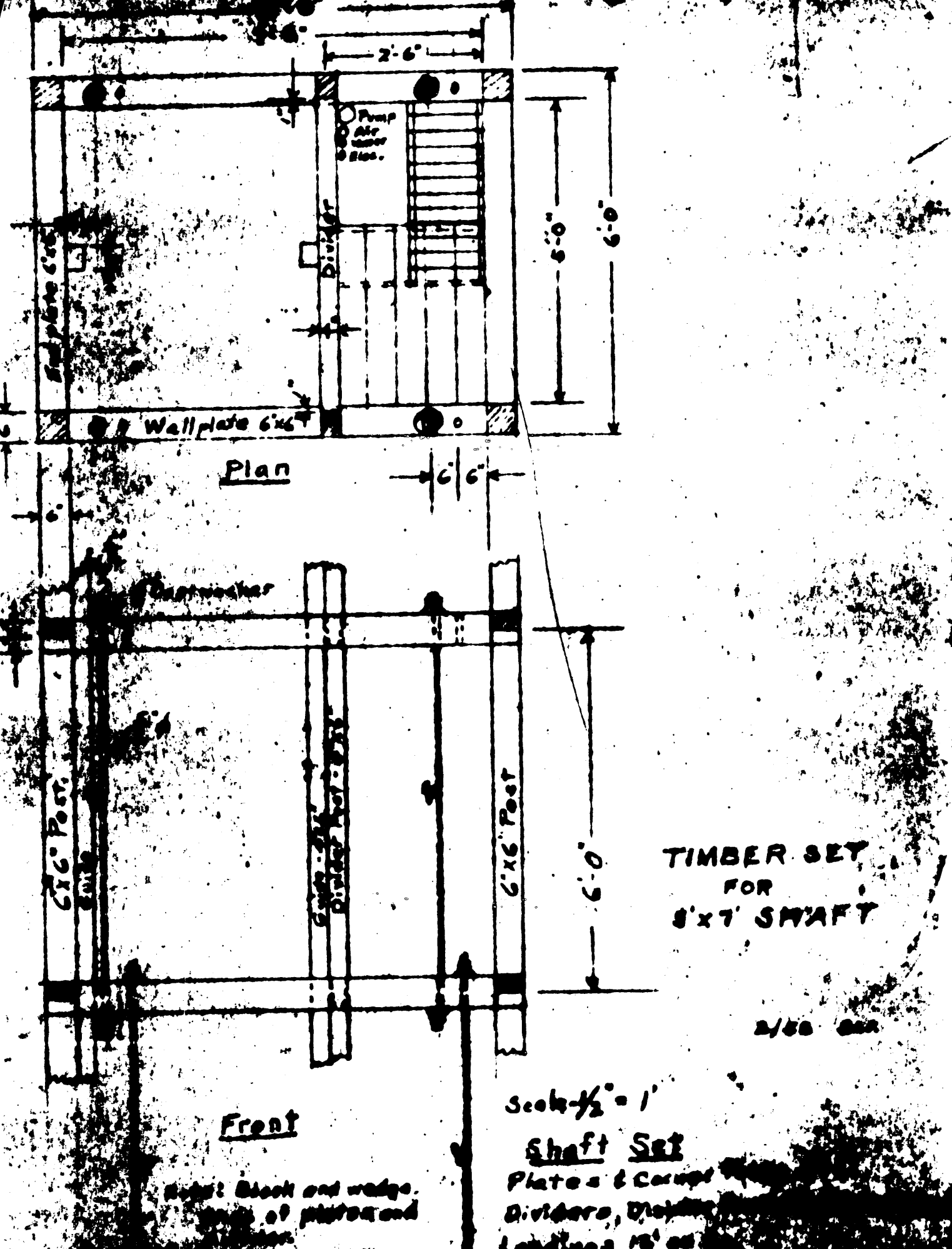
Use 2 M b.f. @ $65/M	$130.00
Dump and door	50.00
Sheave and hardware	50.00
Labor	350.00
Concrete footings (6)	100.00
Total...	850.00

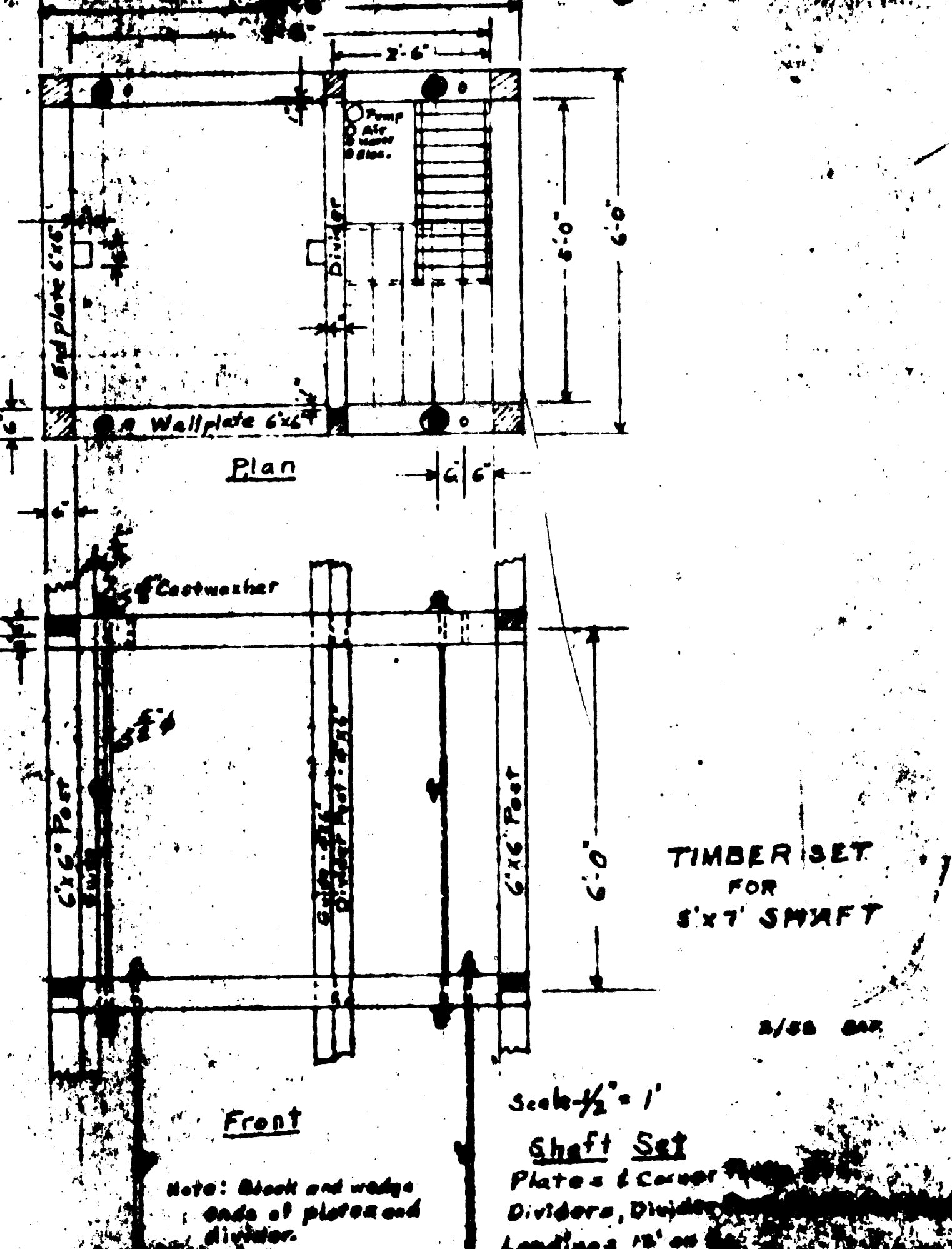

2'-6"
Pump
Air
Water
Elec.
Divider
End plate 6"x6"
6'-0"
6'-0"
Wallplate 6"x6"
Plan
6"
6"
6"
Castwasher
6"x6" Post
End
Guide
Divider Post 6"x6"
6"x6" Post
6'-0"
TIMBER SET
FOR
5'x7' SHAFT
Front
Scale-1/2" = 1'
Shaft Set
Note: Block and wedge ends of plates and divider.
Plates & Corner
Dividers, Divider
Landings 12' on


2'-6"
Pump
Air
Water
Elec.
Divider
End plate 6"x6"
6'-0"
6'-0"
Wallplate 6"x6"
Plan
6"
6"
6"
5/8" Castwasher
5/8" ϕ
6"x6" Post
Guide
Guide 2"x6"
Divider Post 6"x6"
6"x6" Post
6'-0"
TIMBER SET
FOR
5'x7' SHAFT
Front
Scale-1/2" = 1'
Shaft Set
Plates & Corner
Dividers, Divider
Note: Block and wedge
ends of plates and


2'-6"
Pump
Divider
6'-0"
6'-0"
End plate 6"x6"
Wallplate 6"x6"
Plan
6"
6"
6"
Footwacher
6"x6" Post
6'-0"
TIMBER SET
FOR
Scale 1½" = 1'
Front
Shaft Set


2'-6"
Pump
Air
Elev.
Divider
5'-0"
6'-0"
Sill plate 6"x6"
Wallplate 6"x6"
Plan
6" 6"
Crosspieces
6"x6" Post
6'-0"
TIMBER SET
FOR
5'x7' SHAFT
Scale 1/2" = 1'
Front
Shaft Set
Plates & Corner
Dividers, Divider
Landings


2'-6"
Pump
Air
Water
Elec.
Divider
5'-0"
6'-0"
Wallplate 6"x6"
Plan
6"
6"
6"
Crossweather
6"x6" Post
6"x6" Post
6'-0"
TIMBER SET
FOR
5'x7' SHAFT
Front
Scale-1½" = 1'
Shaft Set


2'-6"
Pump
Air
Water
Elev.
Divider
End plate 6"x6"
5'-0"
6'-0"
Wallplate 6"x6"
Plan
6"
6"
6"
6"
Castwasher
6"x6" Post
6"x6" Post
6'-0"
TIMBER SET
FOR
5'x7' SHAFT
Front
Scale-1½" = 1'
Shaft Set
Plates & Corner
Dividers, Divider
Landings 12' on
Note: Block and wedge
ends of plates and
divider.

[illegible]

Material - [illegible]				Cost / ft.
Wall plates--	2 pc.	6 x [illegible] x 8'	[illegible]	
End plates	2 "	6 x 6 x [illegible]	36	
Divider	1 "	4 x 6 x [illegible]	11	
Guides	2 "	4 x 6 x [illegible]	24	
Corner posts	4 "	6 x 6 x [illegible]	66	
Divider "	2 "	[illegible] x 6 x [illegible]	22	
Blocking	10 "	8 x [illegible] x [illegible]	[illegible]	
Wedges	20 "	1 x [illegible] x [illegible]	10	
		6.56/6'	270	$2.93

Labor- Cutting, framing & drilling [illegible]/6' .67

5/8" hanging rods - [illegible] pcs. [illegible]'x1[illegible] lbs x [illegible]	[illegible]	[illegible]
5/8" cast washers - [illegible] pcs @ 10¢	.20	
5/8" nuts - [illegible]	.40	
Guide bolt - 1/2" x [illegible] w/ [illegible]	.20	
Guide bolt 1/2" x 11" w/nut and washer	.25	
Threading and bending	1.00	
Nails	.05	
	7.56/6'	1.93

Shaft sets..... 5.53

Lagging and cleats [illegible] b.f.		
70% lagged [illegible] b.f.		
Manway partition [illegible] b.f.		
[illegible] b.f. @ 1.065		2.80

Platform & ladder 12' or [illegible]

Sides - 2 x 4 x 32' - 22 b.f.		
Rungs 1 x 4 x 20' - 7 b.f.		
Platform 2" x 24' x 3' - 15 b.f.		
Joists-3pc. 2x4x3' 6 b.f.		
50/6' - [illegible] b.f. @ 1.065		.59
Total est. cost material and fabrication.....		$8.92

Material and Fabrication
Plan attached
SHAFT SETS

Material - Oak @ $65/M			B.F.	Cost / ft.
Wall plates -	2 pc.	6 x 6 x 8'	48	
End plates	2 "	6 x 6 x 6'	36	
Divider	1 "	4 x 6 x 5½'	11	
Guides	2 "	4 x 6 x 6	24	
Corner posts	4 "	6 x 6 x 5½'	66	
Divider "	2 "	4 x 6 x 5½'	22	
Blocking	10 "	8 x 8 x 1'	53	
Wedges	30 "	1 x 4 x 1'	10	
		6.5¢/6'	270	$2.93

Labor - Cutting, framing & drilling 2¢/6' .67

5/8" hanging rods - 8 pcs. 4'x1.04 lbs x .14¢ =	$.66	
5/8" cast washers - 8 pcs @ 10¢	.80	
5/8" nuts - 8 pcs @ 5¢	.40	
Guide bolt - 1/2" x 9" w/nut and washer	.20	
Guide bolt 1/2" x 11" w/nut and washer	.25	
Threading and bending	1.00	
Nails	.05	
	7.56/6'	1.83
Shaft set.....		5.53

Lagging and cleats	53 b.f.	
70% lagged	38 b.f.	
Manway partition	5 b.f.	
	43 b.f. @ $.065	2.80

Platform & ladder 12' or ½

Sides - 2 x 4 x 32' =	22 b.f.	
Rungs 1 x 4 x 20' =	7 b.f.	
Platform 2" x 2½' x 3½'	15 b.f.	
Joists-3pcs 2x4x3'	6 b.f.	
	50/6' = 9 b.f. @ $.065	.59
Total est. cost material and fabrication.....		$8.92

Material and Fabrication
Plan attached
SHAFT SETS

Material - Oak @ $65/M			B.F.	Cost / ft.
Wall plates--	2 pc.	6 x 6 x 8'	48	
End plates	2 "	6 x 6 x 5'	36	
Divider	1 "	4 x 6 x 5½'	11	
Guides	2 "	4 x 6 x 6'	24	
Corner posts	4 "	6 x 6 x 5½'	66	
Divider "	2 "	4 x 6 x 5½'	22	
Blocking	10 "	8 x 8 x 1'	53	
Wedges	30 "	1 x 4 x 1'	10	
		6.5¢/6'	270	$2.93

Labor: Cutting, framing & drilling 34/6' .67

5/8" hanging rods - 8 pcs. 4'x1.04 lbs x .14¢ =	$4.66	
5/8" cast washers - 8 pcs @ 10¢	.80	
5/8" nuts - 8 pcs @ 5¢	.40	
Guide bolt - 1/2" x 9" w/nut and washer	.20	
Guide bolt 1/2" x 11" w/nut and washer	.25	
Threading and bending	1.00	
Nails	.05	
	7.56/6'	1.83
Shaft sets.....		5.53

Lagging and cleats 53 b.f.
70% lagged 38 b.f.
Manway partition 5 b.f.
43 b.f. @ $.065 2.80

Platform & ladder 12' on ℄

Sides - 2 x 4 x 32' = 22 b.f.
Rungs 1 x 4 x 20' = 7 b.f.
Platform 2" x 2½' x 3'15 b.f.
Joists-3pc 2x4x3' 6 b.f
56/6' = 9 b.f. @ $.065 .59

Total est. cost material and fabrication..... $8.92

page [illegible] EMEA-4901, Banner

Material and Fabrication
Plan attached
SHAFT SETS

Material:	Oak @ $65/M	B.F.	Cost / ft.
Wall plates	2 pc. 6 x 6 x 8'	48	
[illegible] posts	2 " 6 x 6 x 6'	36	
Dividing [illegible]	1 " 4 x 6 x 5½'	11	
[illegible]	2 " 4 x 6 x 6'	24	
Center posts	4 " 6 x 6 x 5½'	66	
Dividing [illegible]	2 " 4 x 6 x 5½'	22	
[illegible]	10 " 8 x 8 x 1'	53	
[illegible]	30 " 1 x 4 x 1'	10	
	6.5¢/6'	270	$2.93
Lumber cutting, framing & drilling $4/6'			.67
5/8" hanging rods - 8 pcs. 4'x1.04 lbs x .14¢ =		$4.66	
5/8" [illegible] washers - 8 pcs @ 10¢		.80	
5/8" [illegible] - 8 pcs @ 5¢		.40	
Guide bolts - 1/2" x 9" w/nut and washer		.20	
Guide bolt - 1/2" x 11" w/nut and washer		.25	
Threading and banding		1.00	
Nails [illegible]		.05	
		7.56/6'	[illegible]
Shaft sets....			5.53
[illegible] and cleats 53 b.f.			
[illegible] lagged 38 b.f.			
[illegible] partition 5 b.f.			
43 b.f. @ $.065			2.80
[illegible] & ladder 12' on [illegible]			
[illegible] - 2 x 4 x 32' = 22 b.f.			
[illegible] 1 x 4 x 20' = 7 b.f.			
[illegible] 2" x 2½' x 3' 15 b.f.			
[illegible] 3pcs 2x4x3' 6 b.f.			
50/6' = 9 b.f. @ $.065			.59
[illegible] cost material and fabrication....			$8.92

[illegible] BMKA-4901, Banner

Material and Fabrication
Plan attached
SHAFT SETS

Material:	Oak @ $65/M		B.F.	Cost /c ft.
[illegible] plates--	2 pc.	6 x 6 x 8'	48	
[illegible] plates	2 "	6 x 6 x 6'	36	
[illegible]	1 "	4 x 6 x 5½'	11	
[illegible]	2 "	4 x 6 x 6'	24	
[illegible]	2 "	6 x 6 x 5½'	66	
[illegible]	2 "	4 x 6 x 5½'	22	
[illegible]	10 "	8 x 8 x 1'	53	
[illegible]	30 "	1 x 4 x 1'	10	
		6x5¢/6'	270	$2.93

[illegible] cutting, framing & drilling $4/6'

[illegible] rods - 8 pcs. 4'x1.04 lbs x .14¢ = $4.66

[illegible] washers - 8 pcs @ 10¢ .80

[illegible] 8 pcs @ 5¢ .40

[illegible] x 9" w/nut and washer .20

[illegible] x 11" w/nut and washer .25

[illegible] and bending 1.00

[illegible] 4.95

7.56/6'

Shaft sets [illegible]

[illegible] cleats 53 b.f.
[illegible] 38 b.f.
[illegible] braces 5 b.f.
45 b.f. @ $.065 [illegible]

[illegible] & ladder 12' on [illegible]

[illegible] 2 x 4 x 32' = 22 b.f.
[illegible] 2 x 4 x 20' = 7 b.f.
[illegible] x 24' x [illegible] b.f.
[illegible] 8'x3' 6 b.f.
54 b.f. @ 9 b.f. @ $.065 [illegible]

[illegible] material and fabrication..... $[illegible]

Material and Fabrication
Plan attached
SHAFT SETS

Material : Oak @ $65/M			B.F.	Cost / ft.
Wall plates--	2 pc.	6 x 6 x 8'	48	
End plates	2 "	6 x 6 x 6'	36	
Divider	1 "	4 x 6 x 5½'	11	
Guides	2 "	4 x 6 x 6'	24	
Corner posts	4 "	6 x 6 x 5½'	66	
Divider "	2 "	4 x 6 x 5½'	22	
Blocking	10 "	8 x 8 x 1'	53	
Wedges	30 "	1 x 4 x 1'	10	
		6.5¢/6'	270	$2.93

Labor: Cutting, framing & drilling 74/6' .67

5/8" hanging rods - 8 pcs. 4'x1.04 lbs x .14¢	34.06	
5/8" cut washers - 8 pcs @ 10¢	.80	
5/8" nuts - 8 pcs @ 5¢	.40	
Guide bolt - 1/2" x 9" w/nut and washer	.20	
Guide bolt 1/2" x 11" w/nut and washer	.25	
Threading and bending	1.00	
Nails	.05	
	7.56/6'	1.83
Shaft sets.....		5.53

Lagging and cleats 53 b.f.		
Not lagged 38 b.f.		
Fireproof partition 5 b.f.		
43 b.f. @ $.065		2.80

Platform & ladder 12' on 2

Posts - 2 x 4 x 32' = 22 b.f.		
Braces 1 x 4 x 20' = 7 b.f.		
Platform 2" x 2½' x 3 = 15 b.f.		
Ladder 3pcs 2x4x3' 6 b.f.		
50/6' = 9 b.f. @ $.065		.59
Total est. cost material and fabrication.....		$8.92

U. S. Government Messenger Envelope

Standard Form No. 66 (Rev. 1/40)

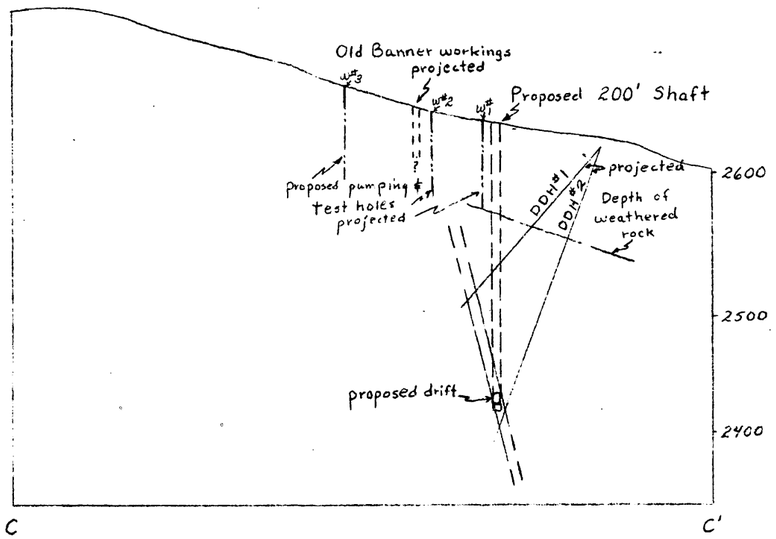
1. Use blocks consecutively, one at a time.
2. Write clearly.

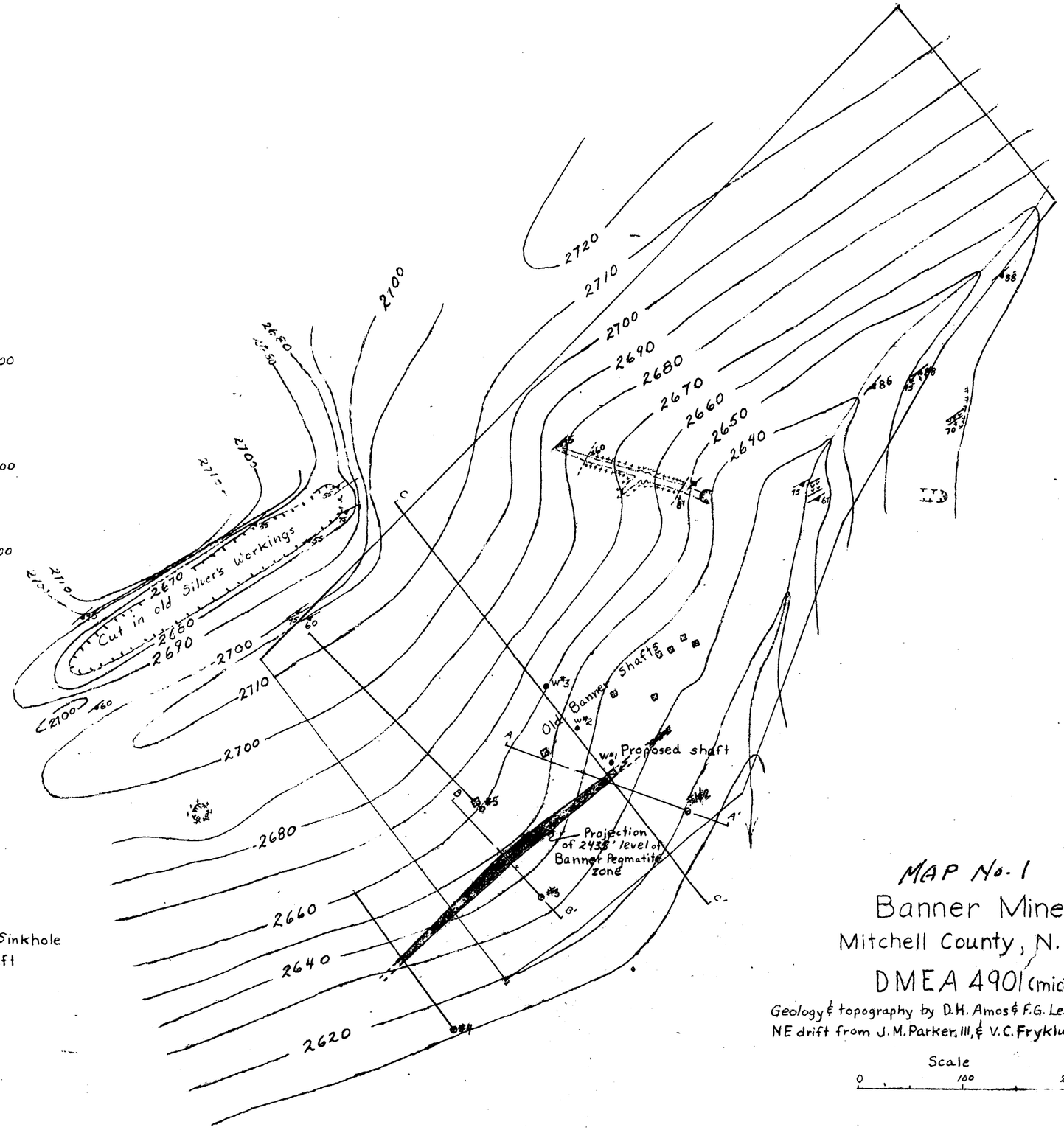
NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
[illegible]	RUN	[illegible]	RUN
	STOP		STOP
[illegible]	RUN	Mr. Waite Consultant	RUN
	STOP		STOP
[illegible]	RUN	Mr. Goldberg Rm. 4[illegible] Ext 132[illegible]	RUN
[illegible]	STOP		STOP
Mr. Hunt Atlanta	RUN	Mr. Sleeper Ext 1228	RUN
	STOP		STOP
Mr. Miller Cincinnati Hall	RUN	Brandy [illegible]	RUN
	STOP		STOP
P. E. Kaufman Department Hall Rm. [illegible]	RUN	Mrs. Grace [illegible]	RUN
	STOP		STOP
[illegible]	RUN	Mr. Ch[illegible] Int Bldg	RUN
	STOP		STOP
[illegible]	RUN		RUN
	STOP		STOP
[illegible]	RUN		RUN
	STOP		STOP
[illegible]	RUN		RUN
	STOP		STOP

Send supplies [illegible] supply room [illegible]

Use other side

Use RUN and STOP only when messenger service between Government buildings is [illegible]
Your mail room has RUN and STOP information.





Explanation

- Pegmatite
- Alaskite
- 55 / 55 Strike & dip of foliation and plunge of minor fold axes
- Contact showing dip
- Shaft
- Caved shaft
- #1 Diamond drill holes
- w#1 Proposed pumping-test holes

MAP No. 1

Banner Mine

Mitchell County, N. C.

DMEA 4901 (mica)

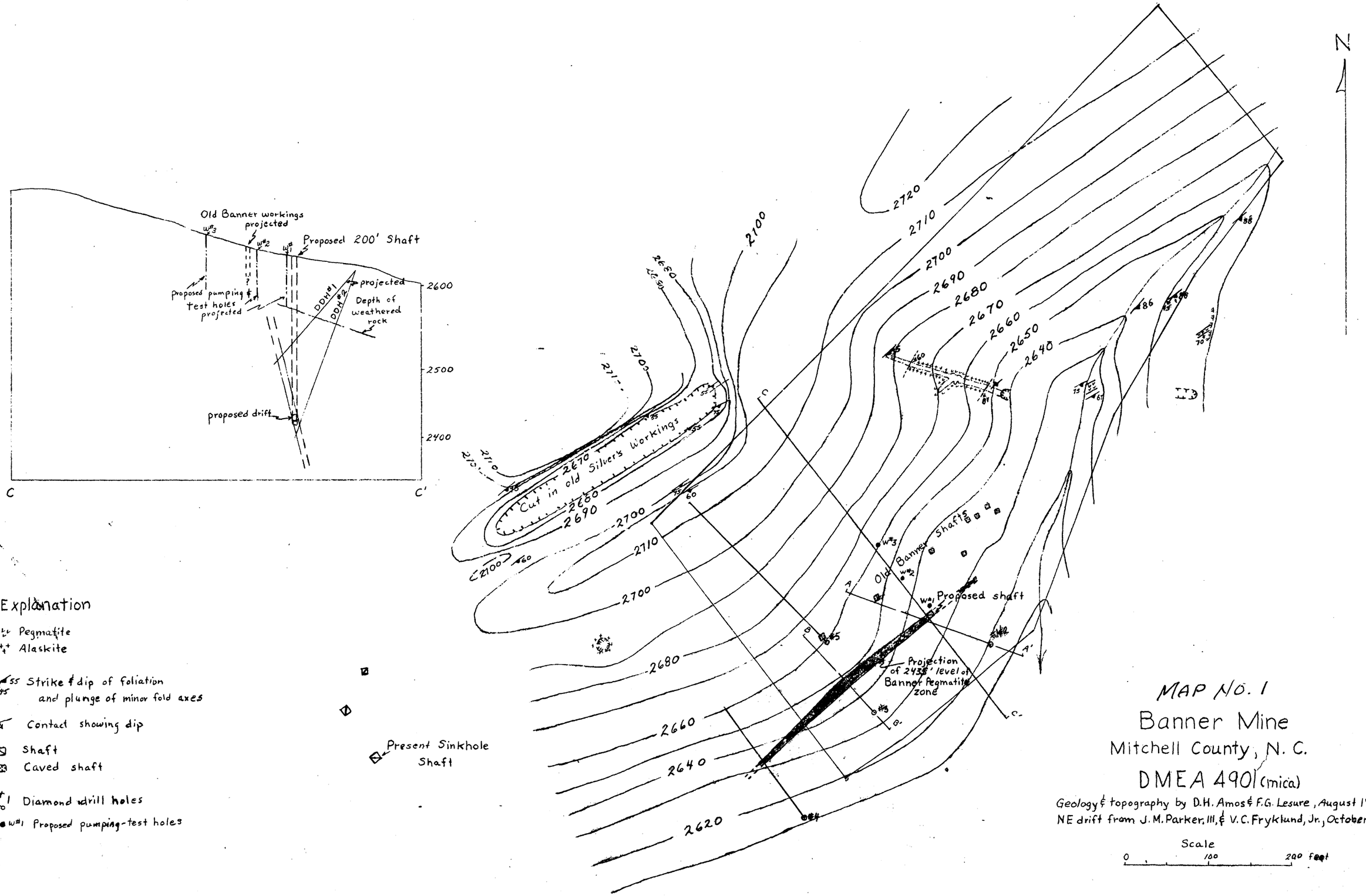
Geology & topography by D.H. Amos & F.G. Lesure, August 1957
NE drift from J.M. Parker, III, & V.C. Fryklund, Jr., October, 1943

Scale
0 100 200 feet

FGL 2/58

EXTRA COPY
DMEA
RECEIVED MAR 31 1958

DATE	INITIALS	CODE



MAP NO. 1

Banner Mine

Mitchell County, N. C.

DMEA 4901 (mica)

Geology & topography by D.H. Amos & F.G. Lesure, August 1957

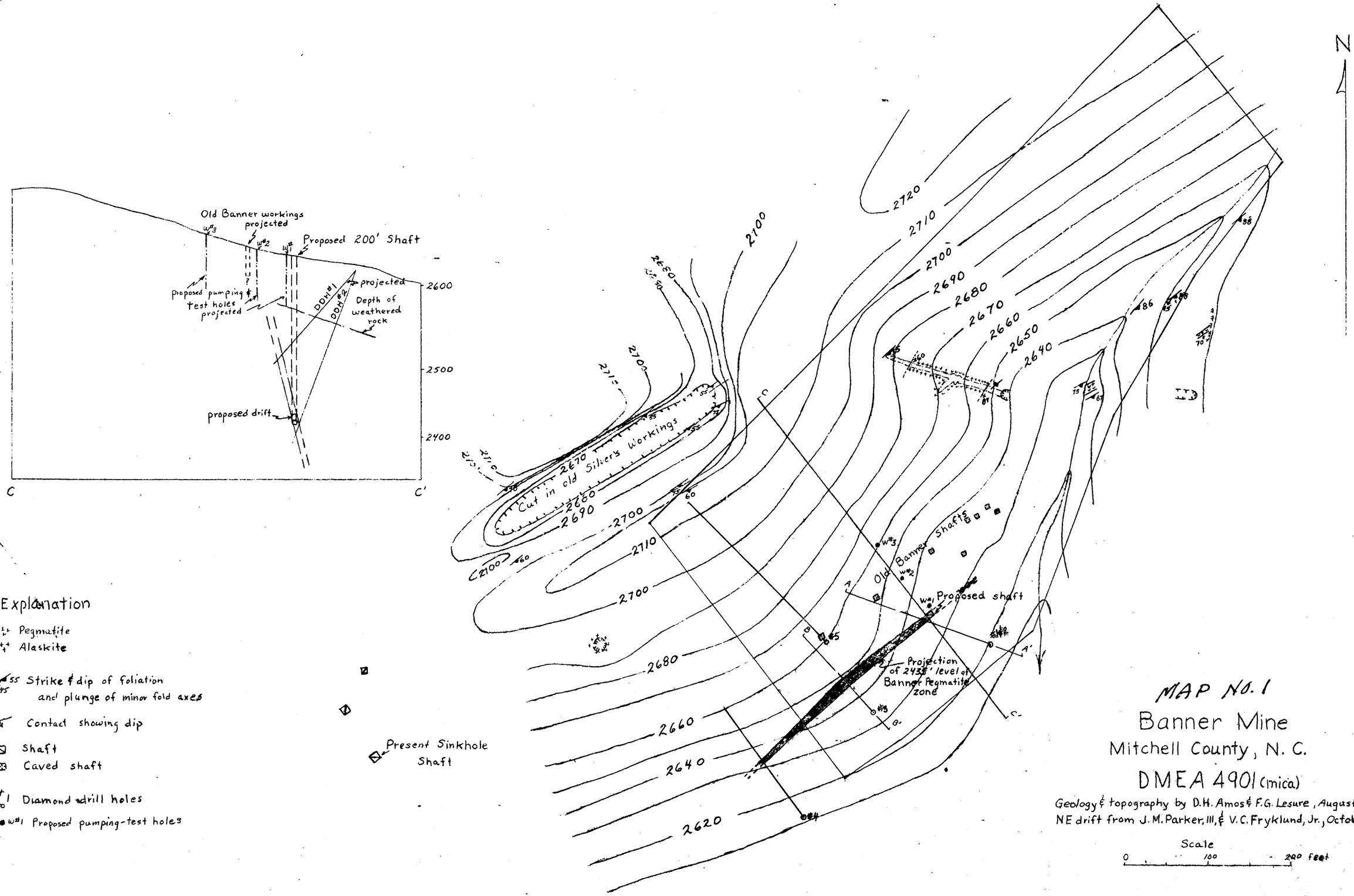
NE drift from J.M. Parker, III, & V.C. Fryklund, Jr., October, 1943

FGL 2/58

15

EXTRA COPY
D M E A
RECEIVED MAR 31 1958

DATE	INITIALS	CODE



Explanation

- Pegmatite
- Alaskite
- 55 / 15 Strike & dip of foliation and plunge of minor fold axes
- Contact showing dip
- Shaft
- Caved shaft
- #1 Diamond drill holes
- w#1 Proposed pumping-test holes

MAP NO. 1

Banner Mine

Mitchell County, N. C.

DMEA 4901 (mica)

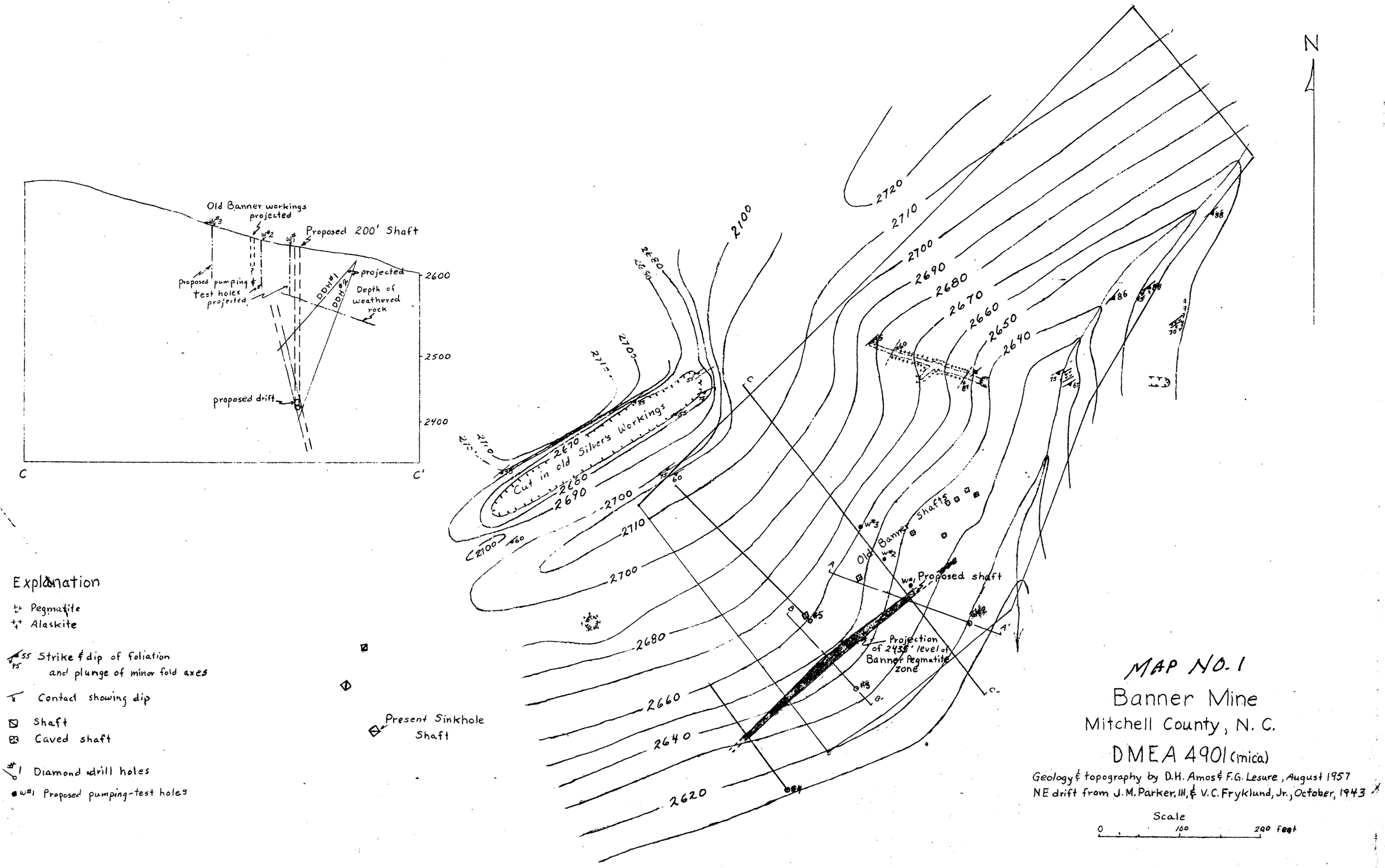
Geology & topography by D.H. Amos & F.G. Lesure, August 1957
NE drift from J.M. Parker, III, & V.C. Fryklund, Jr., October, 1943

Scale
0 100 200 feet

FGL 2/58

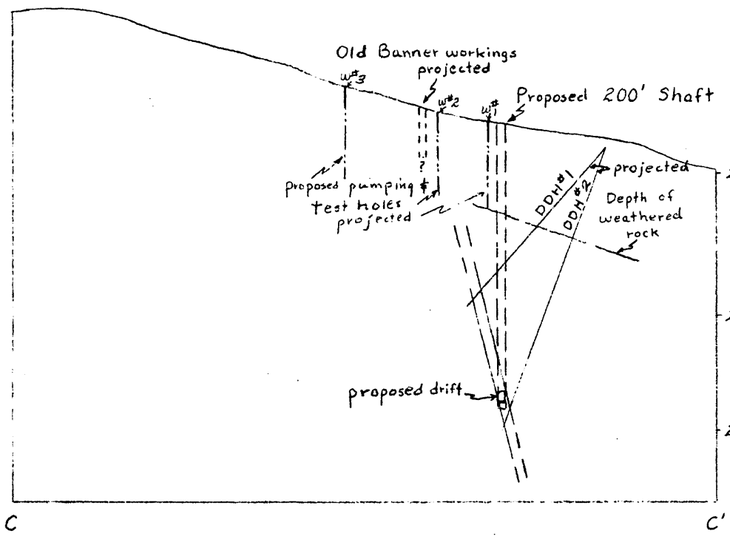
EXTRA COPY
D M E A
RECEIVED MAR 31 1958

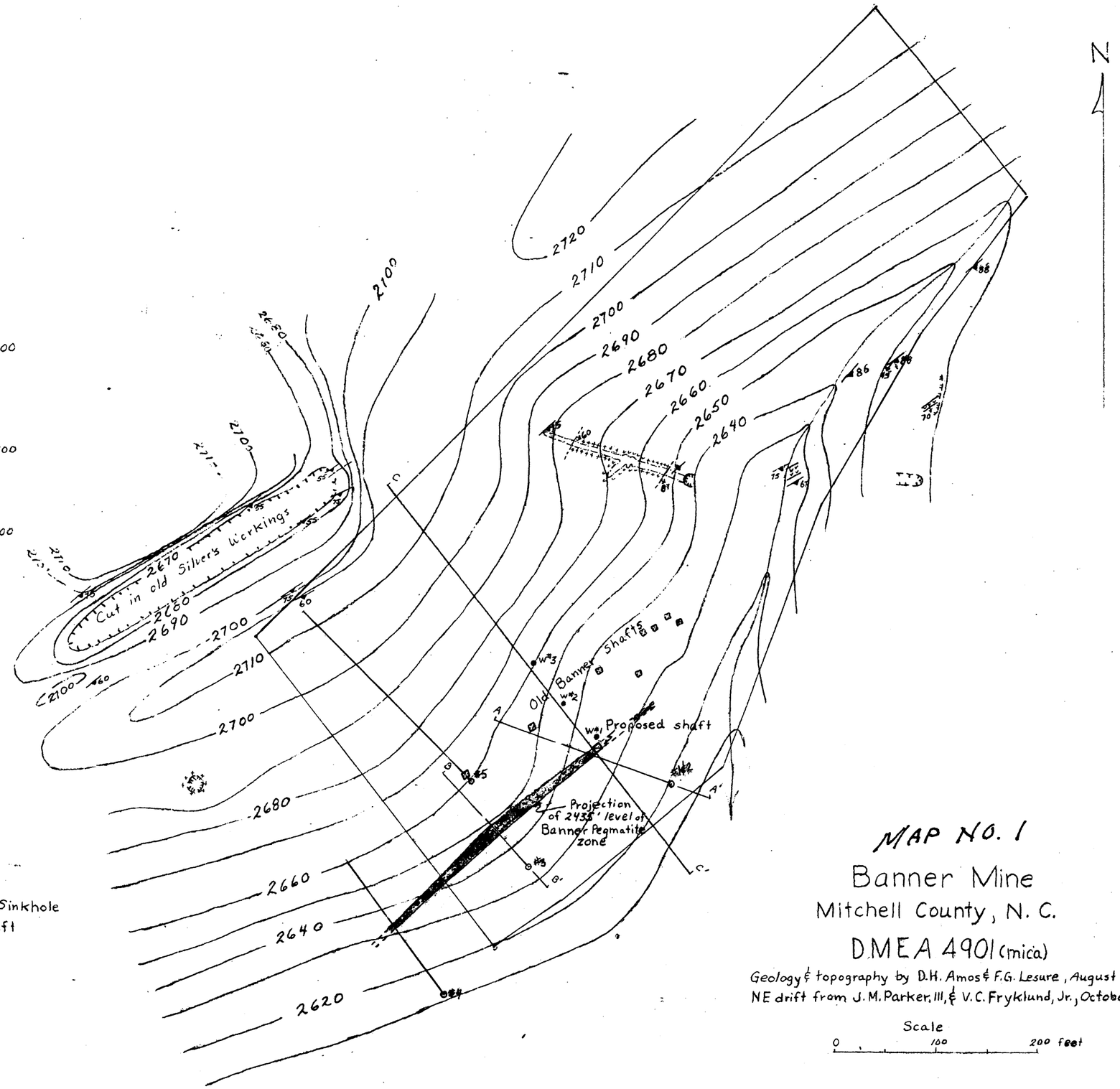
DATE	INITIALS	CODE


N
Old Banner workings projected
Proposed 200' Shaft
Proposed pumping test holes projected
DDH#1
DDH#2
projected
Depth of weathered rock
2600
2500
2400
proposed drift
C
C'
Cut in old Silver's Workings
Old Banner Shafts
Proposed shaft
Projection of 2435' level of Banner Pegmatite zone
Present Sinkhole Shaft
A
A'
B
B'
C
C'
2720
2710
2700
2690
2680
2670
2660
2650
2640
2620
2100
Explanation
Pegmatite
Alaskite
Strike & dip of foliation and plunge of minor fold axes
Contact showing dip
Shaft
Caved shaft
Diamond drill holes
Proposed pumping-test holes
MAP NO. 1
Banner Mine
Mitchell County, N. C.
DMEA 4901 (mica)
Geology & topography by D.H. Amos & F.G. Lesure, August 1957
NE drift from J.M. Parker, III, & V.C. Fryklund, Jr., October, 1943
Scale
0
100
200 feet
FGL 2/58

15

EXTRA COPY
D M E A
RECEIVED 1958
DATE CODE





Explanation

- Pegmatite
- Alaskite
- 55 / 45 Strike & dip of foliation and plunge of minor fold axes
- Contact showing dip
- Shaft
- Caved shaft
- #1 Diamond drill holes
- w#1 Proposed pumping-test holes

MAP NO. 1

Banner Mine

Mitchell County, N. C.

DMEA 4901 (mica)

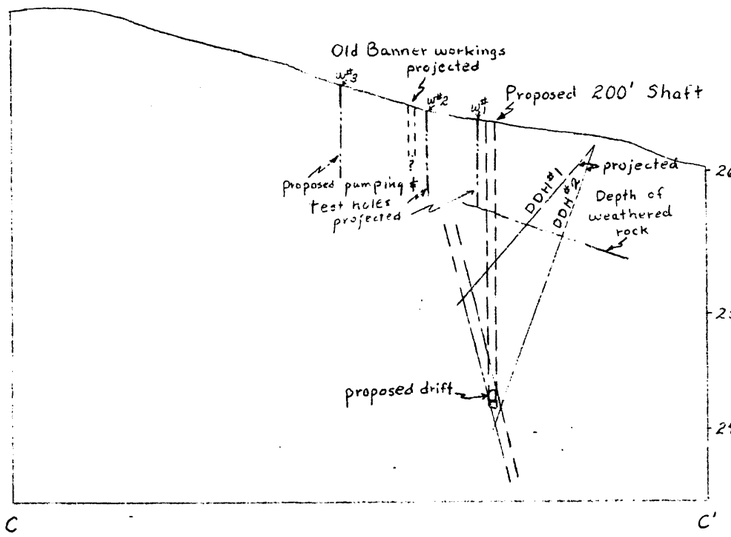
Geology & topography by D.H. Amos & F.G. Lesure, August 1957
NE drift from J.M. Parker, III, & V.C. Fryklund, Jr., October, 1943

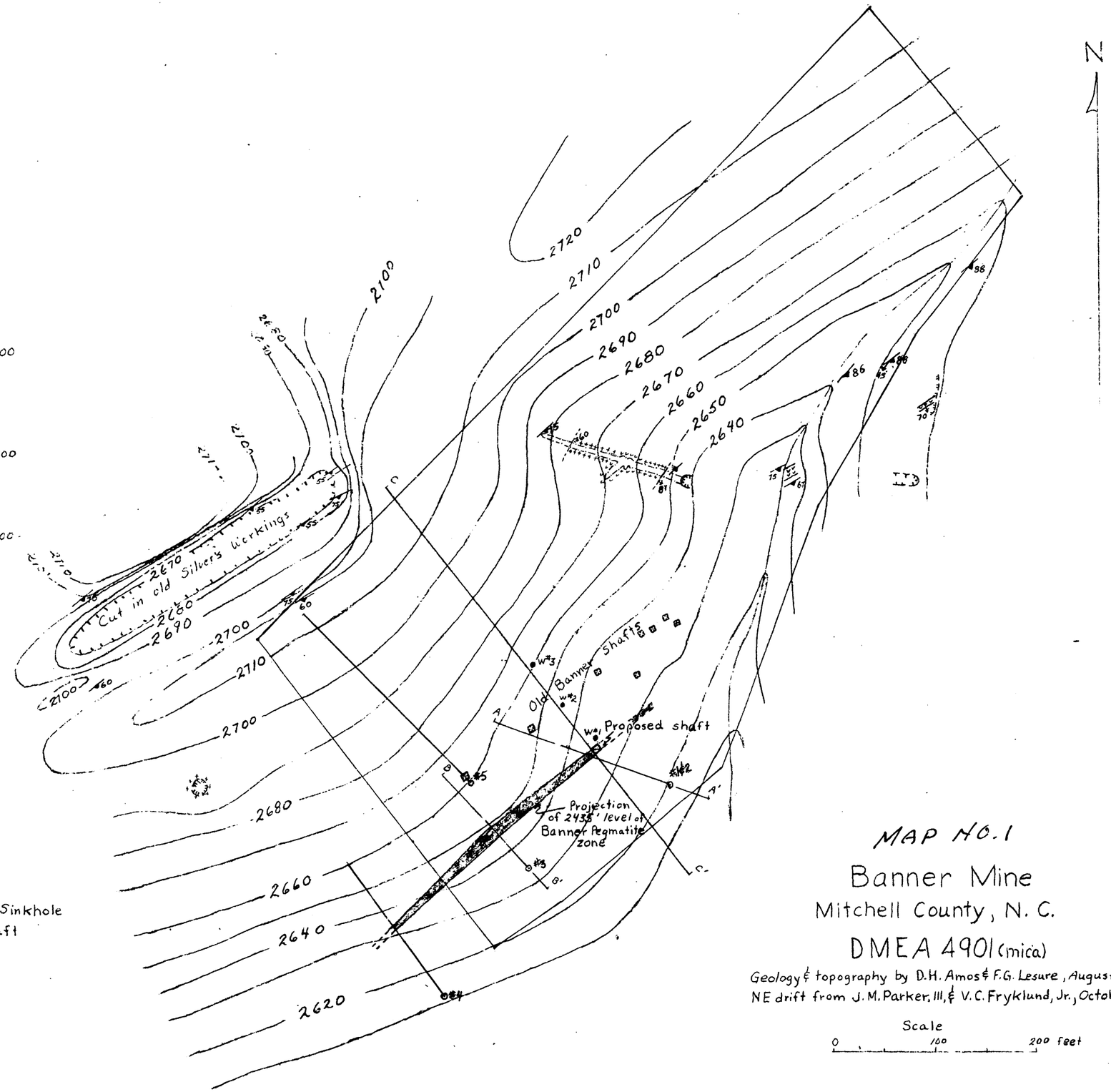
Scale
0 100 200 feet

FGL 2/58

EXTRA COPY
DMEA
RECEIVED MAR 31 1958

DATE	INITIALS	CODE





Explanation

- Pegmatite
- Alaskite
- Strike & dip of foliation and plunge of minor fold axes
- Contact showing dip
- Shaft
- Caved shaft
- Diamond drill holes
- Proposed pumping-test holes

MAP NO. 1

Banner Mine

Mitchell County, N. C.

DMEA 4901 (mica)

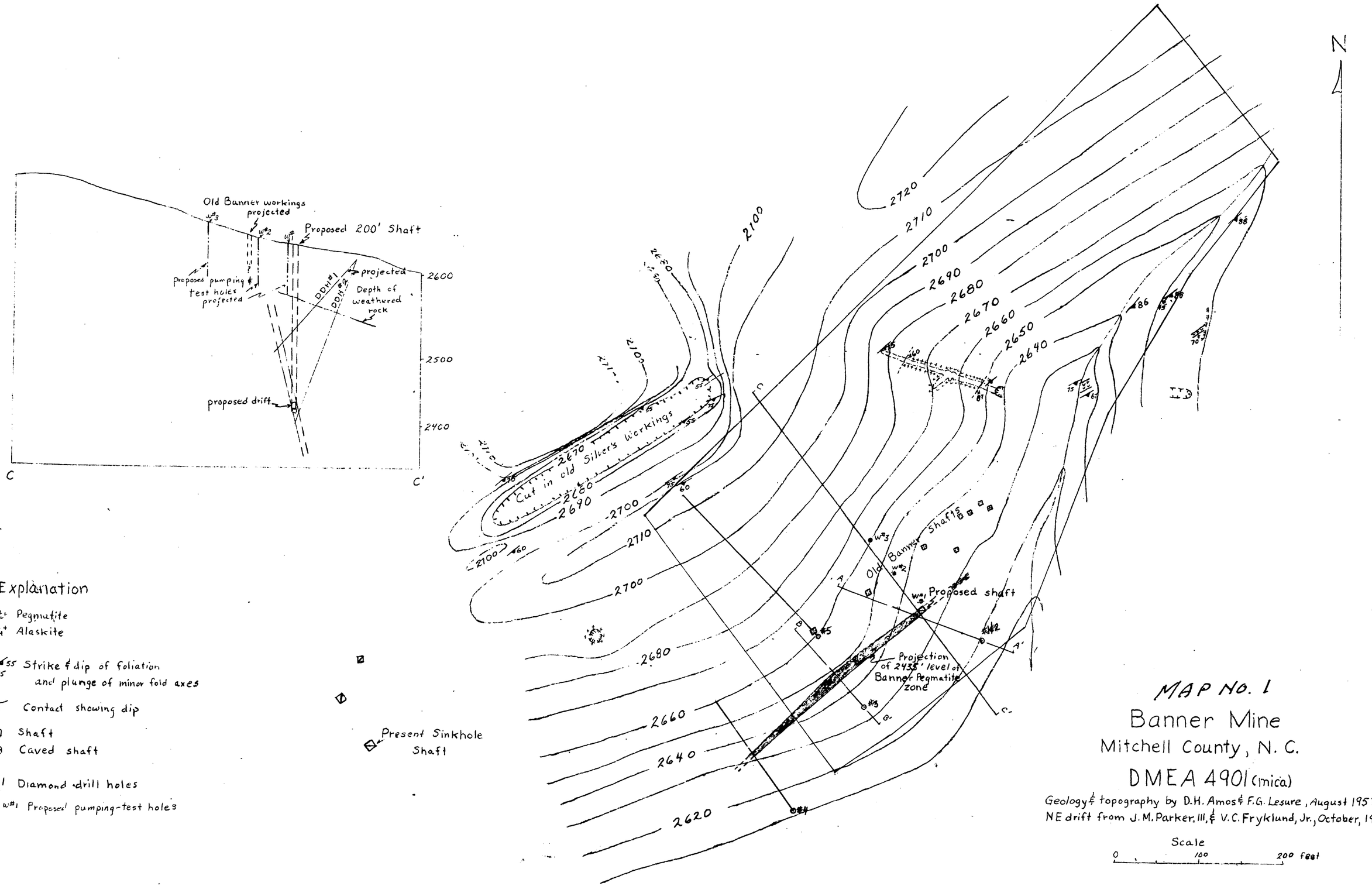
Geology & topography by D.H. Amos & F.G. Lesure, August 1957
NE drift from J.M. Parker, III, & V.C. Fryklund, Jr., October, 1943

Scale
0 100 200 feet

FGL 2/58

DATE	SERIALS	CODE

RECEIVED MAR 31 1958
SERIAL DIV.



MAP NO. 1

Banner Mine

Mitchell County, N. C.

DMEA 4901 (mica)

Geology & topography by D.H. Amos & F.G. Lesure, August 1957

NE drift from J.M. Parker, III, & V.C. Fryklund, Jr., October, 1943

FGL 2/58

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/2	Anderson	600
3/2	Frank	600
		220

600

Project Summary Report

By: Walter C. Anderson February 27, 1959

1. Docket No. DMEA-4901-Mica
Contract No. Idm-E1202
Banner Mine
Mitchell County, North Carolina

Application: Form MF-103 (April 1952) received December 23, 1957.

Work proposed by Applicant:

Bulldozing	$200.00
Toolhouse, powder & exploder magazines	116.00
Headframe	2,000.00
250 ft. of shaft @ $80/ft.	20,000.00
200 ft. of drifts and/or crosscuts @ $40/ft.	8,000.00
Total requested	$30,316.00

Operator: Mitchell Lumber Company, Inc.
Spruce Pine, North Carolina

Operator's property rights: Five year mining lease on the L. E. Silver property consisting of 6.4 acres, dated July 24, 1957. Consent to Lien and Subordination Agreement undated.

2. Contract: Form MF-200A (April 1956), dated June 10, 1958.

Work authorized:

Construction - Toolhouse, powder and exploder magazines	$114.00
100 ft. of shaft @ $45/ft.	4,500.00
150 ft. of drifts and/or crosscuts @ $35/ft.	5,250.00
Estimated total cost of project	$9,864.00
Government participation @ 75%	$7,398.00

Amendments: None

Work completed:

Construction - Toolhouse, powder and exploder magazines	$114.00
49 ft. of shaft @ $45/ft.	2,205.00
Total accepted cost	$2,319.00
Government participation	$1,739.25

Exploration work began June 18, 1958, and was stopped by the Operator before completion early the following August. Terminated by mutual agreement, effective October 22, 1958. Field Team final report received January 26, 1959. Operator's final report not yet received. No equipment purchased under contract.

3. Audit - Report of Review issued January 16, 1959.

Total accepted cost	$2,319.00
Government participation	$1,739.25

4. Certification of discovery, dated _____.
   Production during contract up to date of final Field Team examination -- 170 tons of mine-run mica valued in excess of $200,000.00.

Ore reserves:	Tons of mine-run mica	Value
Indicated --	about 90 tons	$54,000.00
Inferred --	125 tons	75,000.00
Total	215 tons	$129,000.00

5. Comments:

   How conducted: All of the work in which the Government participated was acceptable. Although the exploration at the Banner Mine has been very productive, the Operator did not perform diligently to complete the contract within the time limit set in the contract. Progress in shaft sinking was very slow, and the costs were excessive. Operator did not cooperate very well with the Examiners. Because of financial difficulties, the Operator for most of the contract period concentrated on stoping to produce mica, rather than fulfill contract obligations.
   Operation: The operation of shaft sinking was slow and expensive.
   Engineering: The Operator did not give enough attention to reporting. His final report has not yet been submitted.
   Geological premise: The exploration work justified the inferred potential of the pegmatite.
   Geological criteria upon which work was based:
   1. Pegmatite - Ranges from 3 to 5 feet in thickness. Consists of plagioclase, quartz, and muscovite. Country rock is a feldspathic muscovite-biotite schist. Both schist and pegmatite are deeply

weathered to a depth of approximately 80 feet. Data indicates a strike length of at least 250 feet and a dip continuity of more than 150 feet below the old workings.

2. Mica - Similar to that produced at the adjacent Sink Hole Mine, which was of good strategic quality.
3. Past production.

Geological criteria developed during project:

1. Pegmatite - Thick tabular body generally concordant with interlayered mica and hornblende gneiss country rock. Varies from 7 to 30 feet in thickness and is mica-rich along a strike length of more than 100 feet. Composed of very coarse-grained perthite, plagioclase, quartz and muscovite, with accessory minerals consisting of fine-to medium-grained biotite, beryl, garnet, and iron sulphides.
2. Mica - Ruby, of average to good quality, much of it in large books, much is stained. Bending, ruling, and edge cracking are common.

Future possibilities: As has been done since the contract period, mining of mica should continue for some time. Royalty has already been paid in full. Additional reserves may be present in parallel pegmatites which are not yet fully explored.

Recommendation: The Division of Nonmetallic Minerals concurs in the Field Team's recommendation to certify the project.

Walter C. Anderson

Walter C. Anderson
Division of Nonmetallic Minerals

WCAnderson:gad 2/27/59
Copy to: Dir. R. File
Mr. Johnson
Mr. Houk

Audited 1/16/59

Certified

WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of 8/28/1958

Incl. Voucher for Aug. 1958

☐ Actual Cost

☑ Agreed Unit Costs

Name Mitchell Lumber Co.

State No. Carolina

Commodity Mica

Docket No. 4901

Idm-E No. 1202

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	150 Ft.	$5250.00			
Raising					
Shafts	100 Ft.	$4,500.00	49	$ 2205.00	2205.00
Winzes					
Drilling (Specify)					
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.		114.00		114.00	114.00
Other (Specify)					
Totals		$9,864.00		2319.00	2319.00

Prepared by Walter C. [illegible]

71626

OFFICIAL FILE COPY

Date	Surname	Code
3/2	Anderson	600
3/2	Houk	600
3-2	Chambers	800
3/6	Selfridge	130
		~~100~~ 340
		220
3/6	Everson	130
3/6	Nelson	130

600

Mr. Clarence A. Fredell, Director
Technical Research and Development Division
Defense Materials Service
General Services Administration
6018 GSA Building
Washington 25, D. C.

MAR 9 1959

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina
Contract No. Idm-E1202

Dear Mr. Fredell:

I am enclosing one copy of a certification of discovery or development relating to the subject contract.

The exploration contract was signed on June 10, 1958, with the Government participating to the extent of 75 percent of $9,864.00 or $7,398.00. The project was started on June 18, 1958, and was terminated October 22, 1958, after the expenditure of $2,319.00, which is the total accepted cost according to the Audit Division. The Government paid 75 percent of the total accepted cost, or $1,739.25.

Contract work performed on this project consisted of sinking 49 feet of shaft. The work exposed a tabular, concordant, mica-bearing pegmatite. Mining work carried on during the contract period and to the present time has resulted in the production of 170 tons of mine-run mica. The following ore reserves still remaining in the deposit have been calculated:

Indicated - 90 tons of mine-run mica
Inferred -125 tons of mine-run mica.

The OMK concurs in the Field Team's evaluation of the work performed and has, therefore, certified that a discovery or development has resulted from the work under the contract.

Sincerely yours,

Frank E. Johnson (for)

Acting Director

Enclosure

WCAnderson:gad 3/2/59

Copy to: Dir. R. File
Mr. Chambers
Mr. Johnson
Operating Committee
Mr. Lamb, USBM
Mr. Kiilsgaard, USGS
Field Team, Region V
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	On leave	~~600~~
3/6	Houk	600
3-6	Chambers	800
3/6	Selfridge	130
		~~110~~
		~~100~~ 310
		220

3/6 Lucerne 130
3/6 Nelson 130

MAR 9 1959

Mr. and Mrs. E. L. Silver
Route 3
Bakersville, North Carolina

Re: Docket No. DMEA-4901-Misa
Mitchell Lumber Co., Inc.
Bammer Mine
Mitchell County, North Carolina
Contract No. Idm-X1202

Dear Mr. and Mrs. Silver:

Enclosed is a copy of a certification of discovery or development and a self-explanatory letter of today to the Operator under the above-cited contract.

This correspondence relates to the undated Consent to Lien and Subordination Agreement signed by you under the DMEA program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

Frank E. Johnson (for)

Acting Director

Enclosures 2

WCAnderson:gad:esf 3/6/59
Copy to: Dir. R. File
Mr. Chambers
Mr. Lamb, USBM
Mr. Kiilsgaard, USGS
Field Team, Region V
Operating Committee
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/2	Anderson	600
3/2	Smith	600
3-2	Chamb	800
		130
		100
		220

600

Mr. E. L. Silver
Route 3
Bakersville, North Carolina

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina
Contract No. Idm-K1262

Dear Mr. Silver:

Enclosed is a copy of a certification of discovery or development and a self-explanatory letter of today to the Operator under the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you and ~~your wife, Martha Silver,~~ under the DMEA program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

Acting Director

Enclosures 2

WCAnderson:gad 3/2/59
Copy to: Dir. R. File
Mr. Chambers
Mr. Lamb, USBM
Mr. Kiilsgaard, USGS
Field Team, Region V
Operating Committee
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	on leave	~~600~~
3/6	Houk	600
3-6	Chamber	800
3/6	Selfridge	130
		~~110~~
		~~100~~ ~~130~~
		220

3/6 Lurcan (130
3/6 Helgas (130

MAR 9 1959

Mr. and Mrs. Bryan Robinson
Route 3
Bakersville, North Carolina

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina
Contract No. Idm-41202

Dear Mr. and Mrs. Robinson:

Enclosed is a copy of a certification of discovery or development and a self-explanatory letter of today to the Operator under the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on April 23, 1958, under the DMEA program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

Frank E. Johnson (for)

Acting Director

Enclosures 2

WCAnderson:gad:esf 3/6/59
Copy to: Dir. R. File
Mr. Chambers
Mr. Lamb, USBM
Mr. Kiilsgaard, USGS
Field Team, Region V
Operating Committee
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/2	Anderson	600
3/2	Houk	600
3-2	Chambers	800
		130
		100
		220

600

Mr. Bryan Robinson
Route 3
Bakersville, North Carolina

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina
Contract No. Idm-E1202

Dear Mr. Robinson:

Enclosed is a copy of a certification of discovery or development and a self-explanatory letter of today to the Operator under the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you ~~and your wife, Grace Robinson~~, on April 23, 1958, under the DMEA program which has now been succeeded by the Office of Minerals Exploration program.

Sincerely yours,

Acting Director

Enclosures 2

WCAnderson:gad 3/2/59
Copy to: Dir. R. File
Mr. Chambers
Mr. Lamb, USBM
Mr. Kiilsgaard, USGS
Field Team, Region V
Operating Committee
Mr. Houk

8623

[illegible]randum

[illegible] Operating Committee, DMEA - Washington, [illegible]

[illegible] OME Field Team, Region V - Knoxville, [illegible]

[illegible]ject: Mica production of certain DMEA [illegible]

As requested in Mr. Johnson's memorandum [illegible] 13, the best available data on production o[illegible] subjects have been compiled, and are presented [illegible] which accompanies this memorandum.

We would suggest addition of three more [illegible] list, as they made significant contribution[illegible] mica purchased by GSA. They are:

[illegible]ine	Trimmed Mica Pounds	Value	[illegible]
[illegible]stail	9820.28	$1[illegible].57	—
[illegible] Self	1814.10	36,19[illegible]	65,493.[illegible]
[illegible] Core	3764.52	6[illegible]	—
[illegible]	3689.30	6[illegible]	—

[illegible] included with trimmed mica; not available [illegible]

[illegible]
[illegible]
Executive [illegible]

[illegible]
[illegible]
Bureau of Mines

						REMARKS
	[illegible]	[illegible]	$20,377	553,[illegible]	[illegible],72[illegible]	Not operating
	[illegible]	18,622	$437,004	---	---	Not a certified project. No hand cobbed mica sales reported.
	[illegible]	73,[illegible]	$1,144,881	19,266	---	Mine still operating
35	Elk	8,132	$1[illegible],628	14,461	$19,694	Not operating.
87	Ionia Powers	20,595	$207,101	---	---	No hand cobbed mica reported
1	Rev. Thaddeus Parsons	2,257	$ 37,947	2,000	---	Value of hand cobbed mica included in trimmed mica.
	Engle Cope	4,691	$ 62,961	14,930	$1,118	Not operating
	Chas. Robinson	11,506	$136,087	180,932	$152,946	Not operating
22	R. W. Phillips	48,868	$841,104	145,169	---	Value of hand cobbed included in with trimmed.
25	Geo. Howell	14,750	$240,667	56,214	$176,772	Not operating
74	Dynus	5,018	$ 67,678	96,114	$ 25,055	Not operating
	Martin	15,039	$192,878	8,240	1,475	Not operating
34	Taylor	9,281	$116,254	158,717	---	Still operating. Value of hand cobbed included with trimmed.
1	Ranger	38,540	$624,7[illegible]	---	---	Still operating. Only trimmed mica [illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 26 1959

DATE		
1/26	C	220
1/22		130
1/30		130
1-30	C	220
2/3		600

January 23, 1959

Memorandum

To: Operating Committee, OME - Washington, D. C.

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

Subject: Field Team Final Report, DMEA-4901, Idm-E1202-mica.
Mitchell Lumber Company, Spruce Pine, N.C.
Banner mine, Mitchell County, N.C.

Enclosed are the original and two copies of the Field Team final report on the subject project. Although the Operator has already repaid the entire amount of the Government's 75% contribution, we recommend certification.

It is interesting to note that an earlier application by a different Applicant (DMEA-3139) on this same property was denied, because the Applicant submitted no reliable evidence in support of the proposal, and was unwilling to contribute the required 10% of a suggested 3-drillhole project under a DMEA contract. The present Operator, five years later, spent about $11,000 of its own money in diamond drilling before requesting DMEA aid.

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

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

Reviewed by
OME OPERATING COMMITTEE
1-30-59
(date)

OFFICIAL FILE COPY
RECEIVED JAN 2 1959
DATE | INITIAL
1/30 | JHB | 130
220

UNITED STATES
DEPARTMENT OF THE INTERIOR

OFFICE OF MINERALS EXPLORATION

~~FINAL~~-REPORT
FIELD TEAM- REGION V

F.T. Final Rpt.

DMEA-4901, Idm-E1202 (mica) BANNER MINE

Frank G. Lesure, Geologist
Geological Survey

Wm. A. Beck, Mining Engineer
Bureau of Mines

S. A. Feitler, Mining Engineer
Bureau of Mines

Reviewed by
OME OPERATING COMMITTEE
1-30-59
(date)

DMEA EXPLORATION PROJECT

FINAL REPORT

DMEA-4901, Idm-E1202(mica) BANNER MINE
Mitchell County, North Carolina

Operator: Mitchell Lumber Company, Inc., Spruce Pine, N.C.

SUMMARY

The Banner mine is the most successful recent discovery of strategic mica in the Spruce Pine Mica District. Although only 52 feet of a 90-foot shaft were sunk under DMEA contract the mica pegmatite intersected by this shaft has yielded 170 tons of mine-run mica. Sales of trimmed mica worth about $200,000 have already been made. The indicated reserves are about 90 tons of mine-run mica and the inferred reserves 125 tons. We recommend that a certification of discovery be made. Royalty payments paid in full the Government's share of the contract in November. The Operator is continuing mining and exploration.

Location: The Banner mine is on the southeast slope of a low hill 0.5 miles N35°E of the Bandana Post Office, Mitchell County, North Carolina (Micaville, N.C. Quad., TVA 1:24,000). The Banner shaft is about 800 feet northeast of the main Sinkhole mine shaft and 90 feet southeast of the Suzy Belle shaft. Access to the mine is good at all times.

History: According to Mr. Frank Phillips the Banner pegmatite was found by Patterson Howell in 1890. Morgan Pittman and Sam Silver worked the mine in several shallow shafts until 1894. The mine was sold to R. M. Banner of New York, who worked it until 1900 when he sold it to J. C. Abernathy. L. E. Silver worked the mine in a shallow shaft during the Colonial Mica Program. All this work was in

weathered pegmatite to a depth of 35 to 80 feet. The large amount of ground water was a serious problem and forced the abandonment of the shallow shafts. In 1957 Frank Phillips started core drilling in the area. A total of nine drill holes was completed before the DMEA contract was let. At least two additional drill holes were drilled in December 1958, northeast of the Banner shaft. In May 1958 Mr. Phillips started sinking two shafts, the Banner and the Suzy Belle (see fig). Both are vertical 5' x 7' shafts with timbered manway. Both shafts have a headframe. The Banner shaft has wire rope guides.

CONTRACT WORK

Work on DMEA-4901, Idm-E1202 began June 18, 1958 and was stopped by the Operator early in August so that mining could be carried on. At the start of the contract the Banner shaft had been sunk 38 feet. Between June 18 and August 10 the Operator sank an additional 52 feet for a total of 90 feet. Only 49 feet of shaft was claimed, however, in the three monthly vouchers submitted. On August 10, 1958 the Operator turned off at the 86-foot level and started a crosscut at his own expense in order to see what the pegmatite looked like. A rich deposit of strategic mica was found. From this crosscut the Operator has opened a large stope and is continuing mining operations.

While the contract shaft was being sunk a second shaft, which was intended to intersect the "Sinkhole vein," was

was started 90 feet to the northwest. This second shaft, the Suzy Belle, has been sunk 180 feet. A crosscut connects this shaft with the 86-level workings of the Banner mine, and a second crosscut is now being driven toward the Banner pegmatite 60 feet below the first.

During the contract work shaft sinking went slowly, partly because of hard wet ground and partly because of a lack of supervision. The Operator did not cooperate very well with the Examiners. Only after repeated warnings of the dangers involved was the manway completed to the bottom of the Banner shaft.

GEOLOGY

The Banner pegmatite is a thick tabular body more or less concordant with the interlayered mica and hornblende gneiss country rock. This pegmatite is one of many pegmatite bodies in a rich pegmatite zone that includes the Sinkhole and Silvers pegmatites. Pegmatite bodies in this zone trend northeast and dip steeply southeast. Both the hanging wall and the footwall of the Banner pegmatite contain numerous small rolls. Near the shaft the Banner pegmatite is 15 to 30 feet thick but it pinches to about five feet at the face of the northeast drift and to seven feet in the face of the southwest stope. About 100 feet southwest of the present stope heading DDH# 1 cut a pegmatite zone eight feet thick with a septum of gneiss one foot thick near the hanging wall.

The Banner pegmatite is composed of very coarse-grained perthite, plagioclase, quartz and muscovite. Fine-to medium-grained biotite, beryl, garnet, and iron sulfides are the principal accessory minerals. Large books of muscovite one to four feet long, and one-half to two feet wide and up to one-half foot thick are concentrated near the footwall in a mica zone one to eight feet thick. The mica is associated with coarse-grained perthite and quartz and minor amounts of medium-grained plagioclase. Although the pegmatite is not well zoned, it contains more plagioclase near the hanging wall and more mica and perthite near the footwall. Plagioclase becomes more abundant throughout the pegmatite towards both the southwest and the northeast of the stoped area. The mica-rich zone has been mined along strike for over 100 feet and stoped above the 86-level for 15 to 35 feet. According to the miners the mica is in shoots that plunge steeply to the southwest. Locally mica is concentrated in rolls along the footwall. The entire mica zone contains an estimated 15 to 20 percent muscovite; the individual shoots within the zone would contain more. The mica zone appears to be pinching towards the southwest and has pinched entirely out northeast of DDH No.9 intersection. Mica is present for 60 feet along the roof of the southwest stope and for 110 feet along the floor of the stope from near the intersection of DDH No.9 to the southwest face.

The mica is ruby and of average to good quality. Much of it is in large books, but much is also air stained. Post--pegmatite deformation has deformed many of the books; bending, ruling and edge cracking are common.

At least one large and five small pegmatite bodies were also cut by the crosscut to the northwest between the Banner and Suzy Belle shafts. These parallel pegmatite bodies are medium-to coarse-grained and consist mostly of plagioclase and quartz with minor perthite and muscovite. Little or no strategic mica has been found in them. A thick pegmatite cut at depth in DDH No.8 has been intersected by the Suzy Belle shaft, but no strategic mica has yet been found in it.

PRODUCTION AND RESERVES

Production from the Banner mine between August 1958 and January 1959 has amounted to about 170 tons of mine-run mica. Sales amounting to over $200,000 have been made to date and as of the middle of January about 100 tons of mine-run mica were on hand to be processed. Approximately 100 persons are now employed in mining and processing Banner mica.

The following sales have been made to date:

	Pounds	Value
Sheet mica	12,123.28*	$154,149.50
Punch mica	48,564.00	1,993.32
Scrap mica	94,000.00	1,453.50
	154,687.28	$157,596.32

* Includes 14 sales amounting to 6,176.43 pounds on which final settlement has not yet been received.

157596.32

In the same period 85.157 long tons of feldspar have been sold for $659.98.

Mica reserves are probably present to the southwest beyond the present stope face and above and below the stoped area. Taking an average of 15 percent mine-run mica in the mica zone and projecting the zone 10 feet above the stope, 20 feet in advance of the stope and 10 feet below the stope the indicated reserves are 90 tons of mine-run mica. The projection of the mica zone can be inferred an additional 10 to 15 feet and the inferred reserves are calculated to be 125 tons of mine-run mica. Additional reserves may be present in the parallel pegmatite bodies which are not yet fully explored.

RECOMMENDATIONS AND CONCLUSIONS

We recommend that a certification of discovery be made. Production to date is about 170 tons of mine-run mica. Indicated reserves of 90 tons and inferred reserves of 125 tons can be calculated from the exposures in the mine.

The excellent results show that large deposits of good quality mica are still present in the Spruce Pine Mica District. A combination of knowledge of the area, wildcat drilling and luck seem to have aided the Operator in the present discovery. Continued exploration near other large former producers would seem to be warranted.

EXPENDITURES

Total approved	$9,864.00
Total cost	2,319.00
Government share of cost	1,739.25
Government's share unexpended	5,658.75
Value of production- in excess	200,000.00
Royalty (paid in full 11/14/58)	1,739.25

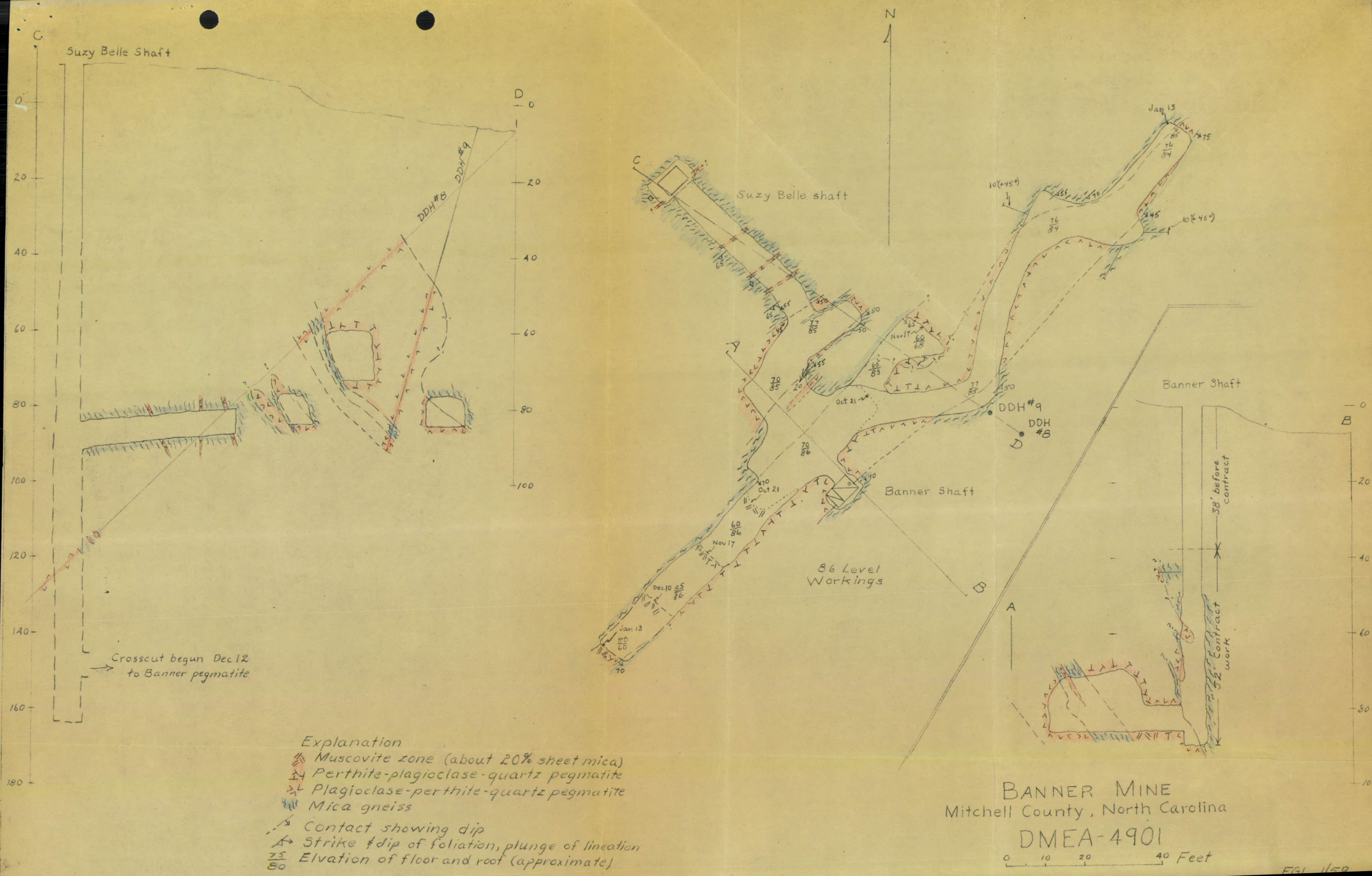
January 1959.

Frank G. Lesure, Geologist
Geological Survey

Wm. A. Beck, Mining Engineer
Bureau of Mines

S. A. Feitler, Mining Engineer
Bureau of Mines

z


Suzy Belle Shaft
C
D
DDH #8
DDH #9
Crosscut begun Dec 12
to Banner pegmatite
Suzy Belle shaft
N
Banner Shaft
86 Level
Workings
A
B
Jan 13
Nov 17
Oct 21
Dec 10
10 (+45°)
38' before contract
52' Contract work
Explanation
Muscovite zone (about 20% sheet mica)
Perthite-plagioclase-quartz pegmatite
Plagioclase-perthite-quartz pegmatite
Mica gneiss
Contact showing dip
Strike & dip of foliation, plunge of lineation
Elvation of floor and roof (approximate)
BANNER MINE
Mitchell County, North Carolina
DMEA-4901
0 10 20 40 Feet

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 3 1959

DATE	INITIALS	CODE
2/2	C	220
		600

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

January 30, 1959

Memorandum

To: Nonmetallic Minerals Division
Office of Minerals Exploration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA - 4901 (mica)

Applicant: Mitchell Lumber Co.

Name and Location of Property: Banner Mine
Mitchell County, N. C.

Contract Number: Idm-E 1202

Date of Field Team Final Report: January 23, 1959

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: January 29, 1959

Field Team Recommendation: Recommend that certification of discovery be made.

Comments:

1. Fifty-two feet of a 90-foot shaft were sunk under DMEA contract.
2. Mica pegmatite intersected by DMEA financed shaft has yielded 170 tons of mine-run mica.
3. Indicated reserves of mine-run mica are 90 tons and inferred reserves are 125 tons.
4. Government's share has been paid in full.
5. Expenditures -

Total approved	$9,864.00
Total cost	2,319.00
Gov't. share of the cost	1,739.25
Value of production - over	200,000.00
Royalty (paid in full 11/14/58)	1,739.25

Recommendation:

I concur with the recommendation of the field team that certification be made.

W. F. Dietrich

W. F. Dietrich

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

January 26, 1959

OFFICIAL FILE COPY O. M. E. RECEIVED JAN 28 1959		
DATE	INITIALS	CODE
1/28	C	220
1/28	[illegible]	600

Memorandum

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

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

Subject: DMEA-4901, Idm-E1202 (Mica)
Mitchell Lumber Co., Spruce Pine, N. C.
Banner Mine, Mitchell County, North Carolina

Reference is made to your letter of January 20, 1959:

Both E. L. Silver and Bryan Robinson have the same mailing address, Route 3, Bakersville, North Carolina.

Robert A. Laurence
Robert A. Laurence
Executive Officer

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

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 19 1959

DATE	INITIALS	CODE
1-19	C	220
"		110
1/19		800
		600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4901, Idm-E1202 (mica) BANNER MINE
Mitchell County, N.C.

Operator: Mitchell Lumber Co., Spruce Pine, N.C.

Location: On the SE slope of a low hill, 0.5 mile N35°E from the Bandana Post Office, Mitchell County, N.C.

Termination Agreement has been signed on this contract.

Mining is continuing in the southwest stope where from 3 to 5 tons of "mine-run" mica is produced daily. From December 9, 1958 through January 12, 1959, 181,932 pounds of mine run mica was recovered. Sales amounting to over $200,000.00 have been made to date and over 200 tons of mine-run mica is on hand awaiting to be processed.

The Suzy Belle shaft has been sunk to a depth of 174-feet. A cross cut is being turned off to the southeast and northwest at the 162-foot level. The southeast crosscut to intersect the Banner pegmatite and the northwest cross cut in the hopes of picking up the Sinkhole pegmatite. A raise will be driven up to intersect the present Banner shaft.

Inspected: January 13, 1959

Wm. A. Beck, Mining Engineer
Bureau of Mines (OME)

Frank G. Lesure, Geologist
Geological Survey (OME)

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OFFICIAL FILE COPY

Date	Surname	Code
1/14	Anderson	600
1/19	Houk	600
1/20	[illegible]	130
"	Johnson	110
1/20	[illegible]	220
		600

600

Mr. Robert A. Laurence
Executive Officer, OME
Field Team, Region V
Room 2-B, Post Office Bldg.
Knoxville 2, Tennessee

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina
Contract No. Idr-E1202

Dear Mr. Laurence:

The Consents to Lien and Subordination Agreements attached to the subject contract were signed by Bryan Robinson and Grace Robinson for the Robinson Tract, and by E. L. Silver and Martha M. Silver for the Silver Tract.

We are lacking the addresses of the above lessors and request that you furnish them at your earliest convenience.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Approved:

C. T. BAROCH (JHB)

Member, Bureau of Mines

N. E. Nelson (JHB)

Member, Geological Survey

WCAnderson:gad 1/14/59
Copy to: Dir. R. File
Operating Committee
Mr. Kiilsgaard
Mr. Dietrich
Mr. Houk

8623

Form 7
(56)

OFFICIAL FILE COPY

Date	Surname	Code
1/16	G. McCarthy	800
1/16	Talbert	800
1/19	C	220
		6cc

JAN 16 1959

Mr. Robert A. Lawrence
Executive Officer
OME Field Team, Region V
Room 2-B, Post Office Building
Knoxville 2, Tennessee

Re: Docket No. DMEA-4901 (Miss)
Mitchell Lumber Company, Inc.
Contract No. Idm-E1202

Dear Mr. Lawrence:

Enclosed are the original and three copies of a Report of Review, as requested by Mr. Lynch's December 17 memorandum.

If you concur with the facts as stated in this report, please make the usual distribution. If for any reason you do not concur, please return the original and all copies with your comments to this Division.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers
Contract Administration
and Audit Division

Enclosures

GMcCarthy/GMcC
January 16, 1959

cc: Docket
Director's Reading File
Mr. Chambers
Mrs. Helen R. Miller

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

January 13, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 15 1959

DATE	INITIALS	CODE
1-15	C	220
		600

Memorandum

To: Operating Committee, OME - Washington

From: Executive Officer, OME - Region V - Knoxville,

Subject: Termination Agreement - DMEA-4901, Idm-E1202-mica
Banner Mine, Mitchell County, N.C.

Attached are the original and audit copy of the subject termination agreement signed by the President of the Mitchell Lumber Company, operator of the project.

Robert A. Laurence

Robert A. Laurence

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/19	Anderson	600
11/19	Houk	600
11-20	Chambers	800
11/25	Martin	130
	On leave	110
1/5	Gilfordge	200
1/5		220
		600

JAN 5 1959 600

Mr. Robert A. Laurence
Executive Officer, OME
Field Team, Region V
Room 2-B, Post Office Bldg.
Knoxville 2, Tennessee

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina
Contract No. Idm-K1202

Dear Mr. Laurence:

Pursuant to the Field Team's recommendation in memorandum of October 29, 1958, we have prepared the enclosed original and four copies of a proposed termination agreement signed by the Acting Director for the Government. Two extra copies are enclosed for the use of the Field Team.

If the proposed termination agreement meets with your approval, present it to the Operator for execution. If any part of this agreement 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 are to be returned to this office, together with the proposed changes for consideration.

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

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (JHB)

Approved:

C. T. BAROCH (JHB)
Member, Bureau of Mines

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

Enclosures 7

WCAnderson:gad 11/19/58
Copy to: Dir. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 17 1958

DATE	INITIALS	CODE
12/11	J.S.G.	225
"	JG	110
12/18	[illegible]	800
	[illegible]	600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4901, Idm-E1202 (mica) BANNER MINE
Mitchell County, North Carolina

Operator: Mitchell Lumber Co., Spruce Pine, North Carolina

Location: On the SE slope of a low hill, 0.5 mile N35°E from the Bandana Post Office, Mitchell County, N.C.

No work has been done on the contract since the August 11 inspection. The southwest stope has been advanced 18 feet. In the northeast stope a drift has also been driven 30 feet northeast along the hanging wall from the heading as of October 21 in order to leave a pillar around D.D.H. No.9. Production from November 17 through December 8 was 43,270 lbs. of mine-run muscovite. Total production through December 8 is 104,663 pounds.

The Suzy Belle shaft has been sunk about 60 feet below the 86-foot level and is now about 145 feet deep. According to the mine foreman, the Operator now plans to deepen the Suzy Belle shaft another 40 feet and then crosscut to the Banner pegmatite.

In the southwest stope the footwall mica zone is two to four feet wide. Exceptionally large books of muscovite are concentrated above large irregular rolls in the footwall. One book measured 2.3 feet long, 1.5 feet wide and 0.5 feet thick. Many of the books are badly ruled and some are badly bent. Air staining is very common and has kept the average

price about $15.00 a pound. Sixty-two trimmers and twenty rifters are employed in Spruce Pine to process the Banner mica. About 200 pounds of full trim are produced each day.

Mr. Frank Phillips was not at the mine or at his office in Spruce Pine at the time of the inspection.

Mr. R. A. Laurence, Executive Officer, Region V, OME accompanied the Examiner.

Inspected:
December 10, 1958

F. G. Lesure, Geologist
Geological Survey-OME

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OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 21 1958

DATE	INITIALS	CODE
11/21	C	220
"	[illegible]	110
11/21	[illegible]	800
11/24	Hash	600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4901, Idm-E1202(mica) BANNER MINE
Mitchell County, North Carolina

Operator: Mitchell Lumber Co., Spruce Pine, North Carolina

Location: On the SE slope of a low hill, 0.5 mile N35°E from the Bandana Post Office, Mitchell County, N.C.

No work has been done on the contract since the August 11 interim. Stoping has been continued on both headings in the Banner pegmatite from the 86-foot level crosscut. The southwest heading has been advanced about 18 feet; the northeast heading about 23 feet. The southeast stope has been mined about 20 feet above the crosscut level; the northeast heading is benched and is about 25 feet high.

At the time of the examination the southeast face contained a mica zone along the footwall. This zone was about 4 feet wide and contained about 15% muscovite in books 1 to 2 feet in diameter. Many of the books are ruled and a few are bent. Much of the mica is air stained.

Above the footwall zone the pegmatite is a coarse-grained mixture of perthite and quartz with minor plagioclase. Plagioclase becomes more abundant near the hanging wall. Garnet, biotite, and iron sulfides are accessory minerals.

The northeast face did not contain much mica. It is in the coarse-grained perthite-quartz zone. The miners reported, however, that mica was encountered in drill holes in the face

and in the bench below. This is near the end of DDH#9 which cut large books of mica.

The mica is present in shoots along the footwall. These may plunge steeply to the southwest and are separated by areas with little mica. Between October 24 and November 17, the production from the Banner pegmatite was 61,393 pounds of mine-run muscovite. This was about 6 percent of the total rock mined. The individual shoots probably contain 15 to 20 percent muscovite.

During the interim the Suzy Belle shaft was deepened to about 135 feet. A large air compressor is being installed and the Operator reports that this will enable them to run at least 4 headings at once. Shaft sinking at the Banner shaft is supposed to begin again in the near future.

Inspected: November 17, 1958

Frank G. Lesure, Geologist
Geological Survey (OME)

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7
56)

OFFICIAL FILE COPY

Date	Surname	Code
11/21	Houk	600
11/21	Selfridge	1200
		~~220~~
11/21	C	220
		600

600

NOV 21 1958

Mitchell Lumber Co., Inc.
c/o Mr. Frank W. Phillips
Spruce Pine, North Carolina

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina
Contract No. Idm-E1202

Gentlemen:

Reference is made to the subject contract and to the suspension of the contract work since early in August.

We are not in a position to authorize indefinite suspension of the contract work. Please advise this office, immediately, if you intend to resume the contract work or if you desire to terminate the contract by mutual agreement. The contract completion date is February 27, 1959.

We are pleased that the exploration at the Banner Mine has been so productive; however, the contract requires that the work be performed diligently so as to complete it within the time limit set in the contract.

Sincerely yours,

Frank E. Johnson
Acting Director

LGHouk:gad 11/20/58
Rewritten
FEJohnson/LGHouk:gad 11/21/58
Copy to: Dir. R. File
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

We are pleased that the exploration at the Banner Mine has been so productive, however, the contract requires that the work be performed diligently so as to complete it within the time limit set in the contract.

See rewrite
11-21-58

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/20	Houk	600
		220
		220
		220

600

Mitchell Lumber Co., Inc.
c/o Mr. Frank W. Phillips
Spruce Pine, North Carolina

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina

Gentlemen:

Reference is made to the subject contract and to the ~~unauthorized~~ suspension of the contract work since early August.

We are not in a position to authorize indefinite suspension of the contract work. Please advise this office, immediately, if you ~~will~~ intend to resume the contract work or ~~that~~ if you desire to terminate the contract by mutual agreement. The contract completion date is February 27, 1959.

We are pleased that the exploration at the Banner Mine has been so productive, ~~but it is our wish that the work program as set up in the contract be completed without delay, or the contract terminated.~~ However, the contract requires that the work be performed diligently so as to complete it within the time limit set in the contract.

Sincerely yours,

Acting Director

LGHouk:gad 11/20/58
Copy to: Dir. R. File
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 20 1958

DATE	INITIALS	CODE
11/20	C	220
11/21	[illegible]	600

November 17, 1958

Memorandum

To: Finance Officer, Region V (OME) Morris, Tenn.

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

Subject: Royalty Payment - DMEA-4901, Idm-R1202-mica.
Banner Mine, Mitchell County, N.C.
Mitchell Lumber Co., Operator.

Attached are settlement sheets for mica sold from the subject mine in the amount of $15,041.68, and their check in the amount of $640.21 for royalty.

This check is for the balance of Government participation on the project as of this date.

Robert A. Laurence

RAL
cc
Frank Johnson, OME
Lynch
Laurence

FORM APPROVED BY COMP. GEN., U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [redacted]

PROGRAM: [ ] A [ ] B

DATE PURCHASED: [redacted]

ACCEPTANCE NUMBER: [redacted]

OFFICIAL FILE COPY
O. M. E.

CERTIFICATE AUTHORIZATION NUMBER: [redacted]

LOT NUMBER: [redacted]

VOUCHER NUMBER / SCHEDULE NUMBER

RECEIVED NOV 20 1958

EVALUATION DATA — DATE | INITIALS | CODE

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT	
GOOD STAINED AND BETTER							
GRADES NO. 3 AND LARGER		$	$	5.46	$ 70.00	$ 378.00	378.00
GRADES NO. 4 AND 5				17.62	40.00	705.20	705.20
GRADES NO. 5½ AND 6				21.23	17.70	376.13	376.13
STAINED							
GRADES NO. 3 AND LARGER		12.00		14.45	31.90	460.96	460.96
GRADES NO. 4 AND 5		5.00		25.20	18.25	461.36	461.36
GRADES NO. 5½ AND 6		3.00		79.56	7.55	600.68	600.68
HEAVY STAINED							
GRADES NO. 3 AND LARGER		8.00		1.06	14.80	15.69	15.69
GRADES NO. 4 AND 5		4.00		2.37	6.85	16.23	16.23
GRADES NO. 5½ AND 6		2.00		16.06	4.00	64.24	64.24
TOTALS			$			$	

NONRUBY

GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$
GRADES NO. 4 AND 5					40.00	
GRADES NO. 5½ AND 6					[illegible]	
STAINED						
GRADES NO. 3 AND LARGER		9.[illegible]			25.55	
GRADES NO. 4 AND 5		4.00			14.60	
GRADES NO. 5½ AND 6		2.40			6.55	
HEAVY STAINED						
GRADES NO. 3 AND LARGER		6.40			11.85	
GRADES NO. 4 AND 5		3.20			5.45	
GRADES NO. 5½ AND 6		1.60			4.00	
TOTALS			$			$

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (Half trim plus full trim) 183.06 LBS. $ 3078.49 — 3078.49

ADJUSTED VALUE WHEN LESS THAN 18% OF A & B (ABOVE VALUE $ _____ x _____ ÷ 18) $

FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFFLING AND TRIMMING

FINAL BASIS FOR PAYMENT $ 3078.49 — 3078.49

LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER 1641.45 — 1641.45

BALANCE DUE [X] SELLER [ ] GOVERNMENT $ 1437.04 — 1437.04

NAME AND LOCATION OF MINE

Banner, Mitchell County, N. C.

DMEA-4901

PROCESSED FOR PAYMENT (LBS.)	183.06	183.06
PROCESSED - NO PAYMENT (LBS.) THINS		
BLACK (Dots, Spots, Stained)		
UNDERSIZED		
PROCESSING LOSS	.74	.74
TOTAL POUNDS PURCHASED	183.80	183.80

SELLER'S NAME AND ADDRESS (Type or print)

[redacted]

3,078.49
4,972.97
1,756.37
2,018.73
3,215.12

15,041.68
.05
7520840

APPROVED

DEPOT SUPERINTENDENT

DATE 10-24-58

GSA WASH D C 58-3177

GSA FORM 1013a SEPTEMBER 1957

FORM APPROVED BY
BUREAU OF BUDGET
MAR 25 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [redacted]

ORIGINAL NOT COPY

O. M. E.

RECEIVED NOV 20 1958

PROGRAM	DATE PURCHASED
	[redacted]

DATE	INITIALS	CODE
		[redacted]

CERTIFICATE AUTHORIZATION NUMBER	LOT NUMBER	VOUCHER NUMBER	SCHEDULE NUMBER
[redacted] A	[redacted]		

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT	
GOOD STAINED AND BETTER							
GRADES NO. 3 AND LARGER		$	$	1.84	$ 70.00	$ 128.80	128.80
GRADES NO. 4 AND 5				18.54	40.00	740.00	740.00
GRADES NO. 5½ AND 6				55.53	17.70	982.88	982.88
STAINED							
GRADES NO. 3 AND LARGER		12.00		15.50	31.90	494.45	494.45
GRADES NO. 4 AND 5		5.00		62.72	18.25	1144.64	1144.64
GRADES NO. 5½ AND 6		3.00		175.75	7.55	1326.91	1326.91
HEAVY STAINED							
GRADES NO. 3 AND LARGER		8.00		1.69	14.80	25.01	25.01
GRADES NO. 4 AND 5		4.00		5.64	6.85	40.00	40.00
GRADES NO. 5½ AND 6		2.00		22.54	4.00	90.28	90.28
TOTALS			$			$	

NONRUBY

GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$
GRADES NO. 4 AND 5					40.00	
GRADES NO. 5½ AND 6					17.70	
STAINED						
GRADES NO. 3 AND LARGER		9.60			25.55	
GRADES NO. 4 AND 5		4.00			14.60	
GRADES NO. 5½ AND 6		2.40			6.55	
HEAVY STAINED						
GRADES NO. 3 AND LARGER		6.40			11.85	
GRADES NO. 4 AND 5		3.20			5.45	
GRADES NO. 5½ AND 6		1.60			4.00	
TOTALS			$			$ 4972.97

TOTAL WHOLESALE VALUE ☐ RUBY ☐ NONRUBY (Half trim plus full trim) [redacted] LBS. $

[redacted] VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $ _____ X _____ ÷ 18) $

[redacted] DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING 4972.97

[redacted] PAYMENT [redacted] 2652.26

[redacted] INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER [redacted] 2320.71

[redacted] ☐ SELLER ☐ GOVERNMENT $

[redacted] LOCATION OF MINE

Banner [redacted] Cowell County, [redacted]

[redacted] 21.00

[redacted] NAME AND ADDRESS (Type or print)

[redacted] Cowell Lumber [redacted]
[redacted] Mica, [redacted]

PROCESSED FOR PAYMENT (LBS.)	359.94
PROCESSED - NO PAYMENT (LBS.) [redacted]	
[redacted] Dots, Sp[redacted] Stained)	[redacted] 6.72
UNDERSIZED	.84
PROCESSING LOSS	
TOTAL POUNDS PURCHASED	367.50 367.50

APPROVED

DEPOT SUPERINTENDENT

[redacted]

DATE

GSA FORM 1013a
SEPTEMBER 1957

FORM APPROVED BY COMP. GEN. U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [illegible]

PROGRAM	DATE PURCHASED
[X] A [ ] B	[illegible]
	ACCEPTANCE NUMBER [illegible]

CERTIFICATE AUTHORIZATION NUMBER	LOT NUMBER	VOUCHER NUMBER	SCHEDULE NUMBER
[illegible]	[illegible]		

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT	
GOOD STAINED AND BETTER							
GRADES NO. 3 AND LARGER		$	$	2.18	$ 70.00	$ [illegible]	152.60
GRADES NO. 4 AND 5				11.63	40.00	[illegible]	465.20
GRADES NO. 5½ AND 6				[illegible]	17.70	[illegible]	145.49
STAINED							
GRADES NO. 3 AND LARGER		12.00		[illegible]	31.90	[illegible]	151.21
GRADES NO. 4 AND 5		5.00		26.83	18.25	[illegible]	453.15
GRADES NO. 5½ AND 6		3.00		43.12	7.55	[illegible]	340.73
HEAVY STAINED							
GRADES NO. 3 AND LARGER		8.00		[illegible]	14.80	[illegible]	.89
GRADES NO. 4 AND 5		4.00		[illegible]	6.85	[illegible]	13.70
GRADES NO. 5½ AND 6		2.00		[illegible]	4.00	[illegible]	35.40
TOTALS			$			$	

NONRUBY

GOOD STAINED AND BETTER							
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$	
GRADES NO. 4 AND 5					40.00		
GRADES NO. 5½ AND 6					17.70		
STAINED							
GRADES NO. 3 AND LARGER		9.60			25.55		
GRADES NO. 4 AND 5		4.00			14.60		
GRADES NO. 5½ AND 6		2.40			6.55		
HEAVY STAINED							
GRADES NO. 3 AND LARGER		6.40			11.85		
GRADES NO. 4 AND 5		3.20			5.45		
GRADES NO. 5½ AND 6		1.60			4.00		
TOTALS			$			$	

RECEIVED NOV 20 1958 O. M. E.

DATE	INITIALS	CODE

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (Half trim plus full trim) [illegible] LBS.	$	1758.37
ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $ ____ x ____ = 18)	$	
FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING	$	
FINAL BASIS FOR PAYMENT	$	[illegible] 1758.37
LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER		[illegible] 965.52
BALANCE DUE [X] SELLER [ ] GOVERNMENT	$	[illegible] 792.45

NAME AND LOCATION OF MINE

Banner

[illegible], McDowell County, [illegible]

[illegible] 20.47

PROCESSED FOR PAYMENT (LBS.)	[illegible]	107.64
PROCESSED - NO PAYMENT (LBS.) THINS		
BLACK (Dots, Spots, Stained)		
UNDERSIZED		
PROCESSING LOSS	[illegible]	33
TOTAL POUNDS PURCHASED	[illegible]	107.97

SELLER'S NAME AND ADDRESS (Type or print)

[illegible]

[illegible]

APPROVED

DEPOT SUPERINTENDENT

DATE

GSA WASH D C 56-1177

FORM APPROVED BY COMP. GEN., U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [illegible]

PROGRAM	DATE PURCHASED
[X] A [ ] B	[illegible]
	ACCEPTANCE NUMBER [illegible]

CERTIFICATE AUTHORIZATION NUMBER	LOT NUMBER	VOUCHER NUMBER	SCHEDULE NUMBER
[illegible]	[illegible]		

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$	.82	$ 70.00	$ 57.40
GRADES NO. 4 AND 5				16.65	40.00	666.00
GRADES NO. 5½ AND 6				24.38	17.70	431.53
STAINED						
GRADES NO. 3 AND LARGER		12.00		5.66	31.90	180.55
GRADES NO. 4 AND 5		5.00		61.37	18.55	1129.13
GRADES NO. 5½ AND 6		3.00		77.31	7.55	583.69
HEAVY STAINED						
GRADES NO. 3 AND LARGER		8.00		.59	14.80	8.36
GRADES NO. 4 AND 5		4.00		4.96	6.85	33.98
GRADES NO. 5½ AND 6		2.00		29.62	4.00	118.48
TOTALS			$			$

NONRUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$
GRADES NO. 4 AND 5					40.00	
GRADES NO. 5½ AND 6					17.70	
STAINED						
GRADES NO. 3 AND LARGER		9.60			25.55	
GRADES NO. 4 AND 5		4.00			14.60	
GRADES NO. 5½ AND 6		2.40			6.55	
HEAVY STAINED						
GRADES NO. 3 AND LARGER		6.40			11.85	
GRADES NO. 4 AND 5		3.20			5.45	
GRADES NO. 5½ AND 6		1.60			4.00	
TOTALS			$			$

O. M. E.
RECEIVED NOV 20 1958

DATE	INITIALS	CODE

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (Half trim plus full trim)	222.24 LBS.	$ 3215.12
ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $ X LBS)		$
FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING		
FINAL BASIS FOR PAYMENT		$ 3215.12
LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER		1926.08
BALANCE DUE [ ] SELLER [ ] GOVERNMENT		$ 1289.04

NAME AND LOCATION OF MINE
Banner, [illegible]

SELLER'S NAME AND ADDRESS (Type or print)

PROCESSED FOR PAYMENT (LBS.)	222.24
PROCESSED - NO PAYMENT (LBS.) THINS	
BLACK (Dots, Spots, Stained)	
UNDERSIZED	
PROCESSING LOSS	-.06
TOTAL POUNDS PURCHASED	222.18

APPROVED
[illegible]

DMEA-4901
Banner Mine, Mitchell County, N.C.

FORM APPROVED BY COMP. GEN. U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [illegible]

PROGRAM: [X] A [ ] B

DATE PURCHASED: 10-2-58

ACCEPTANCE NUMBER: [illegible]

CERTIFICATE AUTHORIZATION NUMBER: [illegible]-3-146 A

LOT NUMBER: [illegible]-245 (1)

VOUCHER NUMBER:

SCHEDULE NUMBER:

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$	2.40	$ 70.00	$ 168.00
GRADES NO. 4 AND 5				8.81	40.00	352.40
GRADES NO. 5½ AND 6				14.97	17.70	264.97
STAINED						
GRADES NO. 3 AND LARGER		12.00		5.72	31.90	182.42
GRADES NO. 4 AND 5		5.00		35.31	18.25	644.41
GRADES NO. 5½ AND 6		3.00		46.71	7.55	352.66
HEAVY STAINED						
GRADES NO. 3 AND LARGER		8.00		.76	14.80	11.25
GRADES NO. 4 AND 5		4.00		1.35	6.85	9.45
GRADES NO. 5½ AND 6		2.00		8.28	4.00	33.12
TOTALS			$			$

NONRUBY

GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$
GRADES NO. 4 AND 5					40.00	
GRADES NO. 5½ AND 6					17.70	
STAINED						
GRADES NO. 3 AND LARGER		9.60			25.55	
GRADES NO. 4 AND 5		4.00			14.60	
GRADES NO. 5½ AND 6		2.40			6.55	
HEAVY STAINED						
GRADES NO. 3 AND LARGER		6.40			11.85	
GRADES NO. 4 AND 5		3.20			5.45	
GRADES NO. 5½ AND 6		1.60			4.00	
TOTALS			$	124.34		$

NOV 20 1958

DATE	INITIALS	CODE

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (Half trim plus full trim) [illegible] LBS. $ [illegible] 2618.73

ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $ _____ X _____ ÷ 18) $

FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING

FINAL BASIS FOR PAYMENT $ [illegible] 2618.73

LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER $ [illegible] 1067.71

BALANCE DUE [X] SELLER [ ] GOVERNMENT $ [illegible] 951.02

NAME AND LOCATION OF MINE

[illegible], Mitchell County, N. C.

[illegible] 21.06

SELLER'S NAME AND ADDRESS (Type or print)

Mitchell Lumber Co.
[illegible], N. C.

PROCESSED FOR PAYMENT (LBS.)	124.34
PROCESSED - NO PAYMENT (LBS.) THINS	
BLACK (Dots, Spots, Stained)	
UNDERSIZED	
PROCESSING COST	.15
TOTAL POUNDS PURCHASED	126.19

APPROVED

DEPOT SUPERINTENDENT

DATE 10-24-58

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 12 1958

DATE	INITIALS	CODE
11/12	C	220
11/12	Lynch	600

November 10, 1958

Memorandum

To: Operating Committee, OME - Washington

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

Subject: DMEA-4901, Idm-E1202 (mica) Mitchell Lumber Co., P.O. Box 725, Spruce Pine, North Carolina. Banner Mine, Mitchell County, N.C.

Reference is made to your letter of November 4.

The Operator gave no direct answer when asked if he would be agreeable to a mutual termination agreement but implied that he would sign such an agreement if presented to him.

Robert A. Laurence

Robert A. Laurence
Executive Officer, OME
Region V

Wm. A. Beck

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

Form 7
(2-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/4	Houk	600
11/4	[illegible]	130
"	[illegible]	110 100
11/5	[illegible]	220
		600

600

Mr. Robert A. Laurence
Executive Officer, OME
Field Team, Region V
Room 2-B, Post Office Bldg.
Knoxville 2, Tennessee

NOV 4 1958

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina
Contract No. Idm-E1202

Dear Mr. Laurence:

Reference is made to your memorandum of October 29, 1958, recommending termination by mutual agreement effective October 22, 1958.

We note the Operator is mining to repay a bank loan and that a significant discovery has been made. Please advise if the Operator is agreeable, and we will prepare a termination by mutual agreement in this office.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

Richard H. Mote

Member, Bureau of Mines

N. E. Nelson

Member, Geological Survey

LGHouk:gad 11/4/58
Copy to: Dir. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

ORIGINAL FILE COPY
RECEIVED OCT 31 1958

DATE	INITIALS	CODE
10/31	C	220
"		110
10/31		800
		600

October 29, 1958

Memorandum

To: Operating Committee, OME - Washington, D.C.

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

Subject: DMEA-4901, Imd-E1202 (mica) Mitchell Lumber Co., Inc. Spruce Pine, N.C. Banner Mine, Mitchell County, N.C.

Enclosed herewith are the original and two copies of the latest interim report on this project.

It will be noted that no work authorized by the contract has been done since early August. The Operator has shown no inclination to resume the contract-authorized shaft sinking even though this could be done without interferring with the stoping on the 86-foot level.

Royalties have already returned about 16 per cent of the entire authorized Government contribution, and even if shaft sinking is resumed, it seems likely that monthly royalties due will equal or exceed the Government's 75 percent share of contract expenditures. Unless work on the shaft is resumed soon, it is unlikely that authorized work can be completed by February 10, 1959.

A significant discovery has already been made and certification can be recommended. Therefore, we recommend termination of the contract by mutual agreement effective October 22.

In regular grade

Robert A. Laurence

Robert A. Laurence
Executive Officer, OME
Region V

V. J. Lynch

V. J. Lynch, Member
Bureau of Mines

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 31 1958

DATE	INITIALS	CODE

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4901, Idm-E1202 (mica) BANNER MINE
Mitchell County, North Carolina

Operator: Mitchell Lumber Co., Spruce Pine, North Carolina

Location: On the SE slope of a low hill, 0.5 mile N35°E from the Bandana Post Office, Mitchell County, N.C.

No work has been done on the contract since the August 11, interim. When visited by the Examiners the shaft was measured and found to be 90 feet to the bottom of the sump. Thirty-eight feet of the sinking was done at the Operator's expense before the contract was signed, thus 52 feet is contract work.

A crosscut has been turned off on the 86 foot level and drifting and stoping is being carried on on the footwall in a N45°E and S45°W direction. They have drifted 17 feet NE and 20 feet SW, and have stoped to a height of 16 feet for a distance of 30 feet. About 20 to 25 tons of mine-run mica have been recovered since the start of this work. Government royalty in the amount of $1,218.22 has been paid on the sale of 1346.92 pounds of sheet, 9,718 pounds of punch and 7,205 pounds of scrap mica.

During this interim the Operator has holed through with a crosscut from the Suzie Belle shaft which provides excellent ventilation. He is continuing to sink the Suzie Belle and was down 15 feet below the level when visited.

Frank Phillips a partner in the organization was asked why he did not continue sinking the Banner shaft. He stated the bank was after them for repayment of a loan and they wanted to sell as much mica as possible in order to get money. He also said it cost them $90 per foot to sink. When asked why the costs were so high, he stated they had considerable pump trouble and the rock was exceptionally hard.

Inspected: October 21, 1958

Wm. A. Beck, Mining Engineer
Bureau of Mines (OME)

F. G. Lesure, Geologist
Geological Survey (OME)

z

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY O. M. E. RECEIVED OCT 16 1958		
DATE	INITIALS	CODE
10/16	C	220
10/20	Hoult	600

October 14, 1958

Memorandum

To: Finance Officer, Region V (OME) Morris, Tenn.

From: Executive Officer, OME - Region V - Knoxville

Subject: Royalty Payment - BMEA-4901, Idm-81202-mica.
Banner Mine, Mitchell County, North Carolina
Mitchell Lumber Company, operators.

Transmitted are settlement sheets on the subject contract in the amount of $14804.36 for mica sold, and their check in the amount of $740.22 representing 5% royalty on the sale.

Robert A. Laurence

sm.
cc:
Mittendorf
Lynch
Files
Enc.
ck. No.126,
dated 10-9-58

$740.22

FORM APPROVED BY COMP. GEN. U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [redacted]

PROGRAM	DATE PURCHASED
[X] A [ ] B	[redacted]
	ACCEPTANCE NUMBER [redacted]

CERTIFICATE AUTHORIZATION NUMBER	LOT NUMBER	VOUCHER NUMBER	SCHEDULE NUMBER
[redacted] A	[redacted] (a)		

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT	
GOOD STAINED AND BETTER							
GRADES NO. 3 AND LARGER		$	$	5.28	$ 70.00	$ [redacted]	
GRADES NO. 4 AND 5				[redacted]	40.00	[redacted]	
GRADES NO. 5½ AND 6				[redacted]	17.70	[redacted]	
STAINED							
GRADES NO. 3 AND LARGER		12.00		[redacted]	31.90	[redacted]	
GRADES NO. 4 AND 5		5.00		50.69 [redacted]	18.25	[redacted]	925.09
GRADES NO. 5½ AND 6		3.00		78.69 [redacted]	7.55	[redacted]	594.11
HEAVY STAINED							
GRADES NO. 3 AND LARGER		8.00		38 [redacted]	14.80	5.62 [redacted]	
GRADES NO. 4 AND 5		4.00		[redacted]	6.85	[redacted]	42.61
GRADES NO. 5½ AND 6		2.00		[redacted]	4,00	[redacted]	77.76
TOTALS			$			$	

NONRUBY

GOOD STAINED AND BETTER							
GRADES NO. 3 AND LARGER		$			$ 70.00	$	
GRADES NO. 4 AND 5					40.00		
GRADES NO. 5½ AND 6					17.70		
STAINED							
GRADES NO. 3 AND LARGER		9.60			25.55		
GRADES NO. 4 AND 5		4.00			14.60		
GRADES NO. 5½ AND 6		2.40			6.55		
HEAVY STAINED							
GRADES NO. 3 AND LARGER		6.40			11.85		
GRADES NO. 4 AND 5		3.20			5.45		
GRADES NO. 5½ AND 6		1.60			4.00		
TOTALS			$			$	

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (*Half trim plus full trim*) [redacted] LBS. $ [redacted] 3463.28

ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $ _____ X _____ ÷ 18) $

FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING

FINAL BASIS FOR PAYMENT $ [redacted] 3463.29

LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER [redacted] 1922.48

BALANCE DUE [X] SELLER [ ] GOVERNMENT $ [redacted] 1540.81

NAME AND LOCATION OF MINE

[redacted], Mitchell County, N. C.
[redacted]

PROCESSED FOR PAYMENT (LBS.)	[redacted] 214.07
PROCESSED - NO PAYMENT (LBS.) THINS	
BLACK (*Dots, Spots, Stained*)	
UNDERSIZED	
PROCESSING LOSS	[redacted] 61
TOTAL POUNDS PURCHASED	[redacted] 214.68

SELLER'S NAME AND ADDRESS (*Type or print*)

[redacted]
[redacted]

284.99
2,520.28
3,463.29
1,301.74
2,956.60
4,277.46

14,804.36 M

APPROVED

DEPOT SUPERINTENDENT

DATE 10-7-56

GSA WASH. D. C. 58-9177

GSA FORM 2013c SEPTEMBER 1957

FORM APPROVED BY COMP. GEN. U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [illegible]

PROGRAM: [ ] A [ ] B

DATE PURCHASED: [illegible]

ACCEPTANCE NUMBER: [illegible]

CERTIFICATE AUTHORIZATION NUMBER: [illegible] A

LOT NUMBER: [illegible]

VOUCHER NUMBER:

SCHEDULE NUMBER:

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$	4.78	$ 70.00	$ 334.60
GRADES NO. 4 AND 5				[illegible]	40.00	606.40
GRADES NO. 5½ AND 6				[illegible]	17.70	557.55
STAINED						
GRADES NO. 3 AND LARGER		12.00		[illegible]	31.90	580.90
GRADES NO. 4 AND 5		5.00		[illegible]	18.25	[illegible]
GRADES NO. 5½ AND 6		3.00		[illegible]	7.55	951.00
HEAVY STAINED						
GRADES NO. 3 AND LARGER		8.00		.65	14.80	9.62
GRADES NO. 4 AND 5		4.00		5.81	6.85	46.85
GRADES NO. 5½ AND 6		2.00		[illegible]	4.00	106.24
TOTALS			$			$

NONRUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$
GRADES NO. 4 AND 5					40.00	
GRADES NO. 5½ AND 6					17.70	
STAINED						
GRADES NO. 3 AND LARGER		9.60			25.55	
GRADES NO. 4 AND 5		4.00			14.60	
GRADES NO. 5½ AND 6		2.40			6.55	
HEAVY STAINED						
GRADES NO. 3 AND LARGER		6.40			11.85	
GRADES NO. 4 AND 5		3.20			5.45	
GRADES NO. 5½ AND 6		1.60			4.00	
TOTALS			$			$ 4458.27

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (Half trim plus full trim) [illegible] LBS. $ [illegible]

ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $[illegible] X [illegible] ÷ 18) $ 4277.46

FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING

FINAL BASIS FOR PAYMENT $ 4277.46

LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER 2421.88

BALANCE DUE [X] SELLER [ ] GOVERNMENT 1855.58

NAME AND LOCATION OF MINE

[illegible]

[illegible]

Banner Mine

SELLER'S NAME AND ADDRESS [illegible]

PAYMENT (LBS.) 297.81

PAYMENT (LBS.) TRIMS

.32

298.13

RECEIVED OCT 16 1958
DATE | INITIALS | ACTE

Gold Bond BUILDING PRODUCTS

NATIONAL GYPSUM COMPANY

Oct. 3, 1958

Carpenter + Phillips Mica Co.

Bought from: Banner Mining Co.

5,055 Lbs. Washer

.03½ $176.92 ✓

COPY

WARREN OWEN WHITLOCK, Representative
1 Oak Ridge Rd.
Phone: Alpine 2-6816 Asheville, N.C.

RECEIVED OCT 20 1958

9-27-58, 195

Bought of MITCHELL LUMBER CO
SPRUCE PINE, N.C.

Name of Mine BANNER Located MITCHELL COUNTY

Lbs.	Oz.	Class	Price	Total
		Refuse—#1		
		" #2		
		" #3		
		Punch—Large		
		" Small		
		1½ x 2		
		2 x 2		
		2 x 3		
		3 x 3		
		3 x 4		
		3 x 5		
		4 x 6		
		6 x 8		
7,205 LBS MINE RUN & SHEET MICA SCRAP @$30.00 PER TON				108.07

COPY

Quality

Sacks

Boxes

Bbls.

Total 108.07

Less

Draft/Check 108.07

ASHEVILLE MICA CO.—Buyer.

By Arthur Burleson

The undersigned hereby certifies that in the production of the Mica covered by this bill they have complied with the Fair Labor Standards Act of 1938 and indemnify and hold harmless the Asheville Mica Co. against any claim thereunder.

(Seller)

INLAND 70124

FORM APPROVED BY COMP. GEN. U.S. MARCH 28, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [redacted]

PROGRAM	DATE PURCHASED	ACCEPTANCE NUMBER
[X] A [ ] B	9-10-59 [redacted]	[redacted]

CERTIFICATE AUTHORIZATION NUMBER	LOT NUMBER	VOUCHER NUMBER	SCHEDULE NUMBER
[redacted] A	[redacted]		

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT	
GOOD STAINED AND BETTER							
GRADES NO. 3 AND LARGER		$	$	.44	$ 70.00	$ 30.80 30.00	
GRADES NO. 4 AND 5				8.12 5.12	40.00	[redacted]	324.80
GRADES NO. 5½ AND 6				11.05 11.00	17.70	194.70	
STAINED							
GRADES NO. 3 AND LARGER		12.00		3.44 3.44	31.90	109.74	
GRADES NO. 4 AND 5		5.00		18.84 17.54	18.25	[redacted]	325.58
GRADES NO. 5½ AND 6		3.00		39.25 39.25	7.55	[redacted]	296.34
HEAVY STAINED							
GRADES NO. 3 AND LARGER		8.00		.09 .09	14.80	1.33	1.33
GRADES NO. 4 AND 5		4.00		1.38 1.38	6.85	9.45	9.45
GRADES NO. 5½ AND 6		2.00		2.25 2.25	4.00	9.00	9.00
TOTALS						$	

NONRUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$			$ 70.00	$
GRADES NO. 4 AND 5					40.00	
GRADES NO. 5½ AND 6					17.70	
STAINED						
GRADES NO. 3 AND LARGER		9.60			25.55	
GRADES NO. 4 AND 5		4.00			14.60	
GRADES NO. 5½ AND 6		2.40			6.15	
HEAVY STAINED						
GRADES NO. 3 AND LARGER		6.40			11.85	
GRADES NO. 4 AND 5		3.20			5.45	
GRADES NO. 5½ AND 6		1.60			4.00	
TOTALS						$

RECEIVED OCT 26 1959

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (Half trim plus full trim)	83.81 LBS.	$ 1301.74 1301.74
ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $ ____ X ____ 18)		$
FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFFLING AND TRIMMING		$ [redacted] 1301.74
FINAL BASIS FOR PAYMENT		$ [redacted] 664.78
LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER		$ [redacted] 636.96
BALANCE DUE [X] SELLER [ ] GOVERNMENT		$

NAME AND LOCATION OF MINE

[redacted], Mitchell Co., N. C.
[redacted]

Banner Mine

SELLER'S NAME AND ADDRESS (Type or print)

[redacted]
[redacted]

PROCESSED FOR PAYMENT (LBS.)	83.81 83.81
PROCESSED - NO PAYMENT (LBS.) THINS	
BLACK (Dots, Spots, Stained)	
UNDERSIZED	
PROCESSING LOSS	.31 .31
TOTAL POUNDS PURCHASED	84.12 84.12

APPROVED

10-2-59

STRATEGIC STOCKPILE ACQUISITION - RUBY PURCHASE

GSA PURCHASE DEPOT: [redacted]

CERTIFICATE AUTHORIZATION NUMBER: [redacted]

LOT NUMBER: [redacted]

VOUCHER NUMBER

EVALUATION DATA

QUALITY	RUBY HALF TRIM POUNDS	RUBY HALF TRIM PRICE PER LB.	RUBY HALF TRIM AMOUNT	RUBY FULL TRIM POUNDS	RUBY FULL TRIM PRICE PER LB.	RUBY FULL TRIM AMOUNT
GOOD STAINED AND BETTER		$	$ 4.42	[redacted]	$ 70.00	$ [redacted]
GRADES NO. 3 AND LARGER			9.62	[redacted]	40.00	[redacted]
GRADES NO. 4 AND 5			17.81	[redacted]	17.70	[redacted]
GRADES NO. 5½ AND 6						
STAINED		12.00	11.60	[redacted]	31.90	[redacted]
GRADES NO. 3 AND LARGER		5.00	32.13	[redacted]	18.25	[redacted]
GRADES NO. 4 AND 5		3.00	63.63	[redacted]	7.55	[redacted]
GRADES NO. 5½ AND 6						
HEAVY STAINED		8.00	.28	[redacted]	14.80	[redacted]
GRADES NO. 3 AND LARGER		4.00	3.34	[redacted]	6.85	[redacted]
GRADES NO. 4 AND 5		2.00	11.75	[redacted]	4.00	[redacted]
GRADES NO. 5½ AND 6						
TOTALS			$			$

309.40
384.80
315.24
370.04
586.37
480.41
4.14
22.88
47.00

QUALITY	NONRUBY POUNDS	NONRUBY PRICE PER LB.	NONRUBY AMOUNT		NONRUBY PRICE PER LB.	NONRUBY AMOUNT
GOOD STAINED AND BETTER		$	$		$ 70.00	$
GRADES NO. 3 AND LARGER					40.00	
GRADES NO. 4 AND 5					17.70	
GRADES NO. 5½ AND 6						
STAINED		9.60			25.55	
GRADES NO. 3 AND LARGER		4.00			14.60	
GRADES NO. 4 AND 5		2.40			6.55	
GRADES NO. 5½ AND 6						
HEAVY STAINED		6.40			11.85	
GRADES NO. 3 AND LARGER		3.20			5.45	
GRADES NO. 4 AND 5		1.60			4.00	
GRADES NO. 5½ AND 6				154.88		$ 2520.28
TOTALS			$	[redacted]	LBS.	$ [redacted]

RECEIVED OCT 1 [illegible]
DATE

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (Half trim plus full trim) $ [redacted] 2520.28

ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $ _____ X _____) $ [redacted]

FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING [redacted] 1407.60

FINAL BASIS FOR PAYMENT $ [redacted] 1112.68

LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER

BALANCE DUE [X] SELLER [ ] GOVERNMENT

NAME AND LOCATION OF MINE

[redacted], [redacted] County, [redacted]

[redacted]

Banner Mine

SELLER'S NAME AND ADDRESS (Type or print)

[redacted]
[redacted], [redacted]

PROCESSED FOR PAYMENT (LBS.)	[redacted] 154.58
PROCESSED - NO PAYMENT (LBS.) THINS	
BLACK (Dots, Spots, Stained)	
UNDERSIZED	
PROCESSING LOSS	[redacted] 30
TOTAL POUNDS PURCHASED	[redacted] 154.88

APPROVED

DEPOT SUPERINTENDENT

DATE [redacted]

GSA FORM 1013a
SEPTEMBER 1957

GSA WASH D C 58-3177

FORM APPROVED BY COMP. GEN. U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [redacted]

PROGRAM: [X] A [ ] B

DATE PURCHASED: [redacted]

ACCEPTANCE NUMBER: [redacted]

CERTIFICATE AUTHORIZATION NUMBER	LOT NUMBER	VOUCHER NUMBER	SCHEDULE NUMBER
[redacted]	[redacted]		

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						256.20
GRADES NO. 3 AND LARGER		$	$ 3.66	[redacted]	$ 70.00	$ [redacted]
GRADES NO. 4 AND 5			11.40	[redacted]	40.00	[redacted] 459.60
GRADES NO. 5½ AND 6			22.97	[redacted]	17.70	[redacted] 406.57
STAINED						341.97
GRADES NO. 3 AND LARGER		12.00	10.72	[redacted]	31.90	[redacted]
GRADES NO. 4 AND 5		5.00	38.35	[redacted]	18.25	[redacted] 699.89
GRADES NO. 5½ AND 6		3.00	90.69	[redacted]	7.55	[redacted] 684.71
HEAVY STAINED						
GRADES NO. 3 AND LARGER		8.00	.40	[redacted]	14.80	[redacted] 5.92
GRADES NO. 4 AND 5		4.00	4.19	[redacted]	6.85	[redacted] 28.70
GRADES NO. 5½ AND 6		2.00	18.26	[redacted]	4.00	[redacted] 73.04
TOTALS			$			$

NONRUBY

QUALITY	POUNDS	PRICE PER LB.	AMOUNT	POUNDS	PRICE PER LB.	AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$
GRADES NO. 4 AND 5					40.00	
GRADES NO. 5½ AND 6					17.70	
STAINED						
GRADES NO. 3 AND LARGER		9.60			25.55	
GRADES NO. 4 AND 5		4.00			14.60	
GRADES NO. 5½ AND 6		2.40			6.55	
HEAVY STAINED						
GRADES NO. 3 AND LARGER		6.40			11.85	
GRADES NO. 4 AND 5		3.20			5.45	
GRADES NO. 5½ AND 6		1.60			4.00	
TOTALS			$			$ 2956.60

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (Half [redacted])	[redacted]	LBS.	$ [redacted]
ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE V[redacted])			$
FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING			
FINAL BASIS FOR PAYMENT		2956.60	$ [redacted]
LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER		1625.83	[redacted]
BALANCE DUE [X] SELLER [ ] GOVERNMENT		1330.77	$ [redacted]

NAME AND LOCATION OF MINE

[redacted]

SELLER'S NAME AND ADDRESS (Type or print)

[redacted]

PROCESSED FOR PAYMENT (LBS.)	[redacted]
PROCESSED - NO PAYMENT (LBS.) THINS	
BLACK (Dots, Spots, Stained)	
UNDERSIZED	
PROCESSING LOSS	[redacted]
TOTAL POUNDS PURCHASED	[redacted]

APPROVED

DEPOT SUPERINTENDENT

DATE [redacted]

GSA FORM [illegible]
SEPTEMBER 1957

O. M.
RECEIVED OCT 3 1958
DATE | INITIALS | CODE
10/3 C 220
/6 COM 100
" FEG 110
" E.E.G. 800
10/13 blank 600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4901, Idm-E1202 (mica) BANNER MINE
Mitchell County, N. C.

Applicant: Mitchell Lumber Company, Spruce Pine, N. C.

Location : On the SE slope of a low hill. 0.5 mile N35°E from the Bandana Post Office, Mitchell County, North Carolina.

No work has been done under the contract since the August 11, 1958 interim. Since that time the Operator has been driving a crosscut from naear the bottom of the shaft and stoping mica.

About 1100 pounds of trimmed mica have been sold. Returns on the first lots indicate an average of $18 per pound. On the order of seven tons of mine-run mica have been recovered to date. Only part of this has been trimmed.

The crosscut was inaccessible to the Examiners as the manway ends 14 feet from the bottom and no ladder was available.

The Operator gave the Examiners no estimate of when contract work would be resumed. Abundant available mica is a powerful deterrent to progress in exploration. It was suggested that shaft sinking could be resumed without interfering with the mining.

The companion shaft 80 feet north of the contract shaft is reportedly 105 feet deep.

Inspected: Sept. 22, 1958

S. A. Feitler, Mining Engineer
Bureau of Mines

F. G. Lesure, Geologist
Geological Survey

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UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

September 29, 1958

Memorandum

To: Finance Officer, Region V - OME - Norris, Tennessee

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

Subject: Royalty Payment - DMRA-4901, Idm-K1202-mica
Banner Mine, Mitchell County, N.C.
Mitchell Lumber Company, Operator- Spruce Pine, N.C.

Attached are settlement sheet from the subject mine for mica sold in the amount of $7,176.41. A check for royalty no.177, dated September 25, 1958 in the amount of $358.82 is also attached and is to be credited to the contract.

You will note that $478.00 included in the settlement sheets has been subtracted as it was sold from the Sinkhole mine.

Robert A. Laurence

10/1 C 220
10/1 Hook 600

RM.
cc
Mittendorf
Lynch
Files.

Enc.5

FORM APPROVED BY COMP. GEN., U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - Spruce Pine, N. C.

CERTIFICATE AUTHORIZATION NUMBER: [illegible]	LOT NUMBER: [illegible]-175 (6)	PROGRAM: [X] A [ ] B	DATE PURCHASED: 2-5-58
		VOUCHER NUMBER:	ACCEPTANCE NUMBER: [illegible]-175 (6)
			SCHEDULE NUMBER:

EVALUATION DATA

QUALITY	RUBY HALF TRIM POUNDS	RUBY HALF TRIM PRICE PER LB.	RUBY HALF TRIM AMOUNT	RUBY FULL TRIM POUNDS	RUBY FULL TRIM PRICE PER LB.	RUBY FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$			
GRADES NO. 4 AND 5				5.87	$ 70.00	$ 410.90
GRADES NO. 5½ AND 6				16.53	40.00	661.20
STAINED				24.84	17.70	439.67
GRADES NO. 3 AND LARGER						
GRADES NO. 4 AND 5		12.00		18.21	31.90	580.90
GRADES NO. 5½ AND 6		5.00		67.56	18.25	1232.97
HEAVY STAINED		3.00		95.31	7.55	719.50
GRADES NO. 3 AND LARGER						
GRADES NO. 4 AND 5		8.00		.66	14.80	9.77
GRADES NO. 5½ AND 6		4.00		4.00	6.85	27.40
TOTALS		2.00	$ 14.97	14.97	4.00	59.88

59.88

QUALITY	NONRUBY HALF TRIM POUNDS	NONRUBY HALF TRIM PRICE PER LB.	NONRUBY HALF TRIM AMOUNT	NONRUBY FULL TRIM POUNDS	NONRUBY FULL TRIM PRICE PER LB.	NONRUBY FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$			
GRADES NO. 4 AND 5					$ 70.00	$
GRADES NO. 5½ AND 6					40.00	
STAINED					17.70	
GRADES NO. 3 AND LARGER						
GRADES NO. 4 AND 5		9.60			25.55	
GRADES NO. 5½ AND 6		4.00			14.60	
HEAVY STAINED		2.40			6.55	
GRADES NO. 3 AND LARGER						
GRADES NO. 4 AND 5		6.40			11.85	
GRADES NO. 5½ AND 6		3.20			5.45	
TOTALS		1.60	$		4.00	

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (Half trim plus full trim)	247.95		$ 4142.28
ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $ _____ X _____ ÷ 18)		LBS.	$ [redacted]
FOR PROGRAM B. DEDUCT $4.00 PER POUND FOR RIFTING AND TRIMMING			$
FINAL BASIS FOR PAYMENT			4142.28
LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER			$ [redacted]
BALANCE DUE [X] SELLER [ ] GOVERNMENT			[redacted]
			$ [redacted]

2434.60
1707.68

NAME AND LOCATION OF MINE

Beaver, Mitchell County, N. C.

2 GS & B 19.03

SELLER'S NAME AND ADDRESS (Type or print)

Mitchell Lumber Company
Spruce Pine, N. C.

163.91
3,348.22
4,142.28
Timber mine 478.00-
7,176.41

PROCESSED FOR PAYMENT (LBS.)	247.95
PROCESSED - NO PAYMENT (LBS.) THINS	
BLACK (Dots, Spots, Stained)	
UNDERSIZED	
PROCESSING LOSS	.55
TOTAL POUNDS PURCHASED	248.50

APPROVED

DEPOT SUPERINTENDENT

DATE 9-24-58

GSA WASH D C 58-3177

GSA FORM 1013a
SEPTEMBER 1957

FORM APPROVED BY COMP. GEN., U.S. MARCH 25, 1957

GENERAL SERVICES ADMINISTRATION

FINAL SETTLEMENT - MICA PURCHASE

MICA PURCHASE DEPOT - [illegible]

PROGRAM: [X] A [ ] B

DATE PURCHASED: [illegible]

ACCEPTANCE NUMBER: [illegible]

CERTIFICATE AUTHORIZATION NUMBER: [illegible]

LOT NUMBER: [illegible]

VOUCHER NUMBER:

SCHEDULE NUMBER:

EVALUATION DATA

RUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$	7.00	$ 70.00	$ 490.00
GRADES NO. 4 AND 5				13.13	40.00	525.20
GRADES NO. 5½ AND 6				11.75	17.70	207.98
STAINED						
GRADES NO. 3 AND LARGER		12.00		20.91	31.90	667.03
GRADES NO. 4 AND 5		5.00		5.08	18.25	92.66
GRADES NO. 5½ AND 6		3.00		2.41	7.55	18.19
HEAVY STAINED						
GRADES NO. 3 AND LARGER		8.00		.37	14.80	5.48
GRADES NO. 4 AND 5		4.00		1.75	6.85	11.99
GRADES NO. 5½ AND 6		2.00		7.34	4.00	29.36
TOTALS			$			$

NONRUBY

QUALITY	HALF TRIM POUNDS	HALF TRIM PRICE PER LB.	HALF TRIM AMOUNT	FULL TRIM POUNDS	FULL TRIM PRICE PER LB.	FULL TRIM AMOUNT
GOOD STAINED AND BETTER						
GRADES NO. 3 AND LARGER		$	$		$ 70.00	$
GRADES NO. 4 AND 5					40.00	
GRADES NO. 5½ AND 6					17.70	
STAINED						
GRADES NO. 3 AND LARGER		9.60			25.55	
GRADES NO. 4 AND 5		4.00			14.60	
GRADES NO. 5½ AND 6		2.40			6.55	
HEAVY STAINED						
GRADES NO. 3 AND LARGER		6.40			11.85	
GRADES NO. 4 AND 5		3.20			5.45	
GRADES NO. 5½ AND 6		1.60			4.00	
TOTALS			$			$

TOTAL YIELD AND VALUE [X] RUBY [ ] NONRUBY (*Half trim plus full trim*) 172.76 LBS. $ 3346.22

ADJUSTED VALUE WHEN LESS THAN 18% GS & B (ABOVE VALUE $ _____ X _____ ÷ 18) $

FOR PROGRAM B, DEDUCT $4.00 PER POUND FOR RIFFLING AND TRIMMING $ 3346.22

FINAL BASIS FOR PAYMENT 1946.00

LESS: INITIAL PAYMENT VOUCHER NUMBER SCHEDULE NUMBER $ [illegible]

BALANCE DUE [X] SELLER [ ] GOVERNMENT

NAME AND LOCATION OF MINE

Bonner, Mitchell County, N. C.
$ GS & B 20.77

PROCESSED FOR PAYMENT (LBS.)	172.76
PROCESSED - NO PAYMENT (LBS.) THINS	
BLACK (*Dots, Spots, Stained*)	
UNDERSIZED	
PROCESSING LOSS	.74
TOTAL POUNDS PURCHASED	173.50

SELLER'S NAME AND ADDRESS (*Type or print*)

Mitchell Lumber Company
Spruce Pine, N. C.

APPROVED

DEPOT SUPERINTENDENT

DATE 9-25-58

GSA WASH D C 58-3177

GSA FORM 1013a SEPTEMBER 1957

BANNER MINE - SCRAP MICA SALES

September 25, 1958

Date	Purchaser	Lbs.	Price
9/1/58	Charles Benfield	84	$ 2.50
9/8/58	Charles Benfield	106	4.24
9/15/58	Lee Ledford	123	4.92
9/18/58	Carpenter & Phillips Mica Co.	4,350	152.25
			$ 163.91

I certify that this is a complete record of all mica scrap sold as of this date.

Sam W. Thompson

RECEIVED
SEP 29 1958
U. S. Geological Survey
Washington, D. C.
Branch of Lands

MITCHELL LUMBER COMPANY
SPRUCE PINE, N. C.

BANNER MINE LOT NO. SPAR-175 (a)

I certify that the following quantities of mica sold in this lot were from Sink Hole Mine:

Grade No. 4	4.698 lbs.	@ $40.00	187.92
Grade No. 5	5.742 lbs.	@ 18.25	104.79
Grade No. 5½	5.610 lbs.	@ 17.70	99.30
Grade # 6	11.390 lbs.	@ 7.55	85.99
	27.440		478.00

Tom C. Thompson

ORIGINAL FILE COPY
DMEA
RECEIVED SEP 8 1958

DATE	INITIALS	CODE
9-8	C	220
8	[illegible]	100
9	[illegible]	110
9/10	[illegible]	800
9/10	[illegible]	600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4901, Idm-E1202 (mica) BANNER MINE

Mitchell County, North Carolina

Applicant: Mitchell Lumber Co., Spruce Pine, N.C.

Location : On the SE slope of a low hill, 0.5 mile N35°E from the Bandana Post Office, Mitchell County, N.C.

The shaft has not been deepened during the interim. The Operator is driving a crosscut N38°W. It is 14 feet long and exposes coarse muscovite in books at least 18 inches long.

The muscovite is in coarse perthite but is immediately surrounded by fine to medium-grained quartz and plagioclase. The coarse muscovite is in three parallel streaks, striking N35°E from 1 to 2 feet thick and 2 to 3 feet apart. The mica streaks appear to plunge southwest and to be confined to the area of coarse perthite. The latter is overlain by fine-to medium-grained plagioclase, quartz pegmatite with scrap size muscovite.

The Operator was advised to resume contract work and install the manway to provide access to the bottom.

Inspected: August 26, 1958

S. A. Feitler, Mining Engineer
Bureau of Mines (DMEA)

F. G. Lesure, Geologist
Geological Survey (DMEA)

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

RECEIVED 27 1958

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 11

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1958 Docket No. DMEA 4201 Contract No. IDM-E-1202
Operator's Name Mitchell Lumber Company, Inc. Minerals Mica
Address P. O. Box 725, Spruce Pine, N. C.
Contract Amount, $ Government Participation: % Amount, $

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 22 ft. @ 45.00	990.00	1,215.00	2,205.00	990.00	1,215.00	2,205.00
(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.					114.00	114.00
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	990.00	1,215.00	2,205.00	990.00	1,329.00	2,319.00

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

Date Aug. 13, 1958 Payee Mitchell Lumber Co., Inc.

Per Frank W. Phillips Title President

*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:

$ 742.50

Signature Helen R. Miller
(Authorized Certifying Officer)

Date AUG 25 1958 Vou. No.
(See other side)

2

247.50

(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. Tdm. E1202 in accordance with the terms of the contract.

Signature S. Feitler Title MINING ENGINEER U. S. BUREAU OF MINES Date AUG 19 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Laurence Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date AUG 19 1958

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.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1958 Docket No. DMEA 4901 Contract No. IDM-E-1202
Operator's Name Mitchell Lumber Company, Inc. Minerals Mica
Address P. O. Box 725, Spruce Pine, N. 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								
Crosscutting								
Raising								
Shafts	22 ft.	990.00	22	2,205.00	49			
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				114.00				
TOTAL COSTS		990.00	22	2,205.00				

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 August 13, 1958 Operator Mitchell Lumber Co., Inc.
Per Frank M. Phillips Jr. Title President

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)

REMARKS:

(For Government use only)

S A Feider
MINING ENGINEER
U. S. BUREAU OF MINES

Operator failed to enter $114.00 in "Costs to date" Column for "New Buildings" Total costs should be $2,319.00

W A Beck

AUG 19 1958

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 872894

FRANK W. PHILLIPS, Pres. ALBERT L. CANIPE, Vice Pres. SAM W. THOMPSON, Sec'y-Treas.

MITCHELL LUMBER COMPANY
INCORPORATED

SPRUCE PINE, N. C.

August 13, 1958

Docket No. 4901
Contract No. EDM-E-1202
Mitchell Lumber Company, Inc.
Spruce Pine, N. C.

NARRATIVE REPORT

Mining operation has been carried on as fast as possible, using two shifts totaling 64 man-hours per day, six days per week since the last report . We cut a streak of non-mica bearing pegmatite at approx. 68 ft. This streak continued down the shaft, crossing from the north side to the south side. We returned then, to very hard country rock to a depth of approx. 81 ft. when we cut mica bearing pegmatite. This vein yeilded 50 lb. of small blocks of mica of good quality. We have continued to encounter water in increasing quantities during this period. We have had no break-downs, and consider the progress satisfactory under the conditions encountered.

MITCHELL LUMBER COMPANY, INC.

Frank W. Phillips

Frank W. Phillips, President

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 21 1958

DATE	INITIALS	CODE
8/21	J.G.	225
21	CBM	100
"	JEG	110
8/25	EEF	800
8/25	Hrub	600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4901, Idm-E1202(mica) BANNER MINE
Mitchell County, N. C.

Applicant: Mitchell Lumber Company, Spruce Pine, N.C.

Location : On the SE slope of a low hill 0.5 mile N35°E from the Bandana Post Office, Mitchell County, N.C.

The shaft is now 87 feet deep of which 49 feet has been done under the contract. During the 3 weeks interim the advance was 22 feet working two shifts per day, six days per week. Cribbing and manway have been installed for 50 feet.

In the last 20 feet, the shaft has cut pegmatite which is either a succession of lenses or the undulating hanging wall of a steeply dipping body. The pegmatite is medium to coarse-grained and contains plagioclase, perthite, quartz, and scattered muscovite up to 2" x 2".

The Operator reported recovery of 50 pounds of mine-run muscovite in small sizes.

Inspected: August 11, 1958.

S. A. Feitler, Mining Engineer
Bureau of Mines (DMEA)

F. G. Lesure, Geologist
Geological Survey (DMEA)

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION V

ELECTROTECHNICAL
EXPERIMENT STATION

P. O. BOX 217
NORRIS, TENNESSEE

August 1, 1958

Memorandum

To: Jay L. Chambers, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Personal Assistant, Norris, Tennessee

Subject: Monthly reports and vouchers

We are enclosing two copies each of the following monthly reports and vouchers:

Idm-E1202 — Mitchell Lumber Company, Inc.
Docket No. DMEA-4901
1st payment - month of July
Starting Date: 6/18/58
Amount $996.75

Idm-E1215 — B. H. Putnam
Docket No. DMEA-5026
1st payment - month of July
Starting Date: 7/5/58
Amount $1892.41

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 4 1958

DATE	INIT.	CODE
8/4	H.g.	225
"	JEJ	110
8/5	Hank	600

Helen Miller
Helen R. Miller

Attachments
/hbm
Copies to R. A. Laurence
V. J. Lynch
Norris files
Day files

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

RECEIVED AUG 4 1958 D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 5

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of JULY 1958 Docket No. DMEA 4901 Contract No. IDM-E 1202
Operator's Name Mitchell Lumber Company, Inc. Minerals Mica
Address P. O. Box 725 Spruce Pine, N. C.
Contract Amount, $ 9,864.00 Government Participation: 75 % Amount, $

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 Sinking shaft 27 ft. @ $45.00	1,215.00	-	1,215.00			
(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.	114.00	-	114.00			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1,329.00		1,329.00	1329.00	-	1329.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date July 22, 1958 *Payee MITCHELL LUMBER CO., INC.
Per Frank W. Mitchell Title Pres

*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:
$ 996.75
Signature Helen R. Miller
(Authorized Certifying Officer)
Date AUG 1 1958 Vou. No. 12
(See other side)

6/16/58

332.25

(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. E1202 in accordance with the terms of the contract.

Signature S Feitler Title MINING ENGINEER U. S. BUREAU OF MINES Date JUL 31 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Laurence Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date JUL 31 1958

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.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED AUG 4 1958 D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1958 Docket No. DMEA 4901 Contract No. Idm-E 1202
Operator's Name Mitchell Lumber Company, Inc. Minerals Mica
Address P. O. Box 725, Spruce Pine, N. 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								
Crosscutting								
Raising								
Shafts	Ft.	1,215.00	27	1,215.00	27	45.00	100	45.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1,215.00		1,215.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		114.00		114.00				114.00
TOTAL COSTS		1,329.00		1,329.00				

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 July 22, 1958 Operator MITCHELL LUMBER CO., INC.

Per Frank W. Phillips Title PRES.

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)

S Feider

MINING ENGINEER
U. S. BUREAU OF MINES

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 872894

July 22, 1958

NARRATIVE REPORT

DMEA No. 4901 Mica
Contract No. Idm-E 1202
Mitchell Lumber Co., Inc.
Spruce Pine, N. C.

Construction of the tool house, powder storage magazine, and exploder storage magazine has been completed in accordance with the specifications set forth in the contract. A suitable head frame equipped with new type dumping tipple and other mechanical conveniences has been completed. Excavation of the shaft was begun using substantial timbers until solid material was reached; a second shift has been added since timbering was completed. Considerably more water than was originally anticipated, and extremely hard material has held progress down to a low level. It is noted that our costs in sinking the shaft to the present level have averaged more than $90.00 per foot.

Frank W. Phillips, Pres.

RECEIVED
JUL 31 1958
U. S. Geological Survey
Contract Records
Reston, Va.

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 31 1958

DATE	INITIALS	CODE
7/31	C	220
31	Cgm	100
4	JG	110
8/1	EWO	800
8/4	Hook	600

DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4901, Idm-E1202 (mica) BANNER MINE
Mitchell County, N. C.

Applicant: Mitchell Lumber Company, Spruce Pine, N. C.

Location: On the SE slope of a low hill 0.5 mile N35°E from the Bandana Post Office, Mitchell County, N.C.

The shaft is now 65 feet deep of which 27 feet was sunk under the contract (19 ft during the three week interim).

Foliation of the gneiss strikes N55°E and dips 80°SE. Medium-to coarse-grained pegmatite 5 feet long and 4 feet high is cut by the north wall of the shaft. The exposure extends upward from 3 feet above bottom. This may be a roll in the hanging wall pegmatite of the two closely spaced parallel bodies indicated by the drilling. A handful of locky mica up to 2 x 3 inches was recovered. The pegmatite contains plagioclase, perthite, quartz, muscovite, sulfides, and garnet.

Inspected: July 21, 1958

S. A. Feitler, Mining Engineer
U. S. Bureau of Mines (DMEA)

F. G. Lesure, Geologist
Geological Survey (DMEA)

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DMEA EXPLORATION PROJECT

INTERIM REPORT

DMEA-4901, Idm-E1202 (mica) BANNER MINE
Mitchell County, N. C.

Applicant: Mitchell Lumber Company, Spruce Pine, N. C.

Location: On the SE slope of a low hill 0.5 mile N35°E from the Bandana Post Office, Mitchell County, N.C.

The shaft is down 46 feet timbered to 8 feet from the bottom. The depth was measured at 38 feet when the contract was delivered to the Operator's office for his signature on June 17, 1958. Advance between June 17 and June 30 was 8 feet. Work was delayed by repairs to the hoist during the interim.

Two shifts are being worked and good progress is expected. A headframe has been erected and wire rope guides will be used.

A hole drilled 6 feet into the northwest wall of the shaft penetrated pegmatite at 5 feet, 8 inches.

where are old workings?

Inspected: June 30, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED JUL. 14 1958

DATE	INITIALS	CODE
7/14	C	220
14	Com	100
11	[illegible]	110
7/15	[illegible]	800
7/15	[illegible]	600

S. A. Feitler, Mining Engineer
Bureau ofMines (DMEA)

D. H. Amos, Geologist
Geological Survey

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

DMEA
RECEIVED JUN 27 1958

6/27	C	220
6/30	K	215
6/30	Hersh	600

June 25, 1958

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Signed Contract - DMEA-4901, Idm-E1202 (mica)
Mitchell Lumber Co., Inc.
Banner Mine, Mitchell County, North Carolina

Transmitted are the Government and Audit copies of the subject contract.

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

Robert A. Laurence

Robert A. Laurence

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/6	Anderson	600
6/6	Houk	600
6-6	Chamberlain	800
6/9	Johnson	110
10	Stockwell	100
6/11	C O	220
6/9	GCS	130
		600

600

JUN 9 1958

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

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina

Dear Mr. Laurence:

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

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

Copies of memoranda dated April 1 and 7, and May 23, 1958, by Mr. N. E. Nelson, USGS, and Mr. W. F. Dietrich, USBM, respectively, relating to the project are enclosed.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Approved:

Frank D. Lamb
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

WCAnderson:gad 6/6/58
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Enclosures 13

P.S. Please have the Examining Team measure the depth of the Banner shaft before the contract is executed.

8623

OFFICE DMEA
RECEIVED MAY 26 1958
INITIALS CODE
326 C 220
1600

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

May 23, 1958

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4901 (mica)

Applicant: Mitchell Lumber Co.

Name and Location of Property: Banner Mine, Mitchell County, N. C.

Date of Field Team Memorandum: 5/16/58

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 5/21/58

Field Team Recommendation: Recommend approval of contract with revisions.

Comments:

1. Field team had recommended DMEA assistance at this mine.
2. Field team has examined core samples which indicate good mica.
3. Applicant has started work without waiting for contract to be issued.

Recommendation:

I concur with the recommendation of the field team for granting assistance under the revisions outlined in their memorandum of May 16, 1958.

W. F. Dietrich

W. F. Dietrich

May 20, 1958

Mr. L. G. Houk calling Mr. R. A. Laurence in Knoxville, Tenn.
Mr. W. C. Anderson also talked.
Re: Docket No. DMEA-4901-Mica
Banner Mine

Mr. Anderson:

Discussed the shaft location. Discussed the program and decided to sink 100 feet of shaft and we would pay for no headframe. The shaft would be sunk in the location ~~that~~ the ~~applicant~~ applicant has started. The applicant has also started a shaft on the Sinkhole vein.

Mr. Houk:

A contract will be written for not more than 100 feet of sinking and 150 feet of drifting and/or crosscutting on the Banner pegmatite zone. We will participate in the costs of the exploration from the date the contract is signed at the depth on that date to the point where the shaft intersects the foot wall of the Banner vein zone.

DEFENSE MINERALS ADMINISTRATION

97023

PRODUCTION EXPANSION DIVISION

PROCUREMENT APPLICATIONS

Name of Company and Address _____

Name of Mine and Location _____

Docket No. DMA - _____ Date received by P.E.D. _____

Metals or Minerals involved _____

Length of Contract (preproduction plus production) _____

Amount of Metals or Minerals in tons, units or pounds _____

Floor price or Guaranteed price and whether or not escalated _____

Maximum Government Commitment _____

Comments on Contract: _____

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Date sent to Legal Division _____

Date of Recommendation to D.P.A. for Certification _____

Date Certification sent to G.S.A. by D.P.A. _____

Date signed into Contract by G.S.A. _____

Additional Remarks: _____

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NOTE: If application is denied, or if it is recommended for change into exploration, etc., please state under additional remarks.

Signed _____

Interior—Duplicating Section, Washington, D. C.

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

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 19 1958
5/19 C 220
5/19 Tatch 600

Mr. Anderson

May 16, 1958

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: DMEA-4901 (mica). Mitchell Lumber Co., Inc.
Spruce Pine, N. C. Banner Mine, Mitchell County, N.C.

The following information was received from the Applicant today, by telephone:

Hole No.9. -75°; 10 ft N56°W from Hole No.8.

Overburden	0 to 22.4
"Slate"	22.4 to 41.6
"Vein"	41.6 to 81.0
"Slate"	81.0 to 84.6
"Vein"	84.5 to 88.7
Bottom of hole	88.7

The Applicant has alread started sinking two vertical shafts: one to interesect the Banner pegmatite is collared 41 ft. S53°W from the collar of hole 9, and 5 ft higher; another to intersect the supposed Sinkhole vein is 117 ft N56°W from the collar of hole No.8, and 11 ft higher.

****

The following was written by Mr. Feitler and Mr. Lesure, after inspecting some of the drill core last week:

We went to the Mitchell Lumber Company office to log core on Tuesday May 6, 1958. Log of available core from DDH No.8 is attached. Several boxes of core from holes 6 and 7 were available but useless as they were not adequately identified. Some of the pegmatite in these latter boxes is medium- to coarse-grained.

Mr. Phillips informed us he is not waiting for a contract, but is setting up a headframe and starting to sink immediately. However, he is locating the shaft near the collar of DDH 8 which

Revised 7.T. Rpt.

is described below. He stated his reason for locating there was because solid rock is only 12 feet (40 ft according to the log) from the surface.

We logged the pegmatite intersections of DDH No.8 which was drilled at -45°. The collar is 200' N48°E of the proposed shaft site and 186 ft N23°E of the collar of DDH Nos. 1 and 2 near the creek bottom.

Only core containing pegmatite was available for inspection:

40.5 to 66.1 True thickness 22 ft.
Med-coarse - Plag., perth., qtz., musc., biotite, and apatite.

One book greater than 2 x 3 x 1" cored in 3 ft hanging-wall mica zone. In this zone two 9" core losses attributed to mica by driller as cutting were described as "all mica."

66.1 to 70.1 mica schist.
70.1 to 70.6 med.-grain pegmatite
(at 70.8 is musc. greater than 2" diameter x 2" to 3" thick)
71.6 to 72.4 mica schist
72.4 to 75.9, med.-coarse pegmatite, plag., perth., qtz., musc.
75.9 to 83.9 (90.6 by driller) Med-grained peg. plag., perth., qtz., musc.
90.6 - 96.0 mica schist
96.0 to 99.0, fine-med. peg. plag., perth., qtz., musc.
99.0 to 101.9, mica schist
101.9 to 102.4, fine-gr. peg. plag., qtz., mica
102.4 to 107.6, mica schist
107.6 to .19.4, (110.0 by driller), biotite schist interlayered hornblende schist
110.0 to 117.5, mica schist
117.5 to 151.4, "slate" mica schist
151.4 to 152.8, med-gr. peg; plag., perth., qtz., musc., biotite.
152.8 to 156.4, muscovite schist
156.4 to 160 (2' core) fine-med-grained peg. plag., perth., quartz, musc., biotite., garnet.
160.0 to 183.0, fine-medium grained peg., plag., perth., qtz., musc., garnet and biotite.
183.0 to 198.7, log - pegmatite - No core
198.7 to 202, log "slate. No core.

****

This changes the picture somewhat, and necessitates a revision of the recommendations of the examination report. We do not consider two shafts necessary for exploration; a single Banner shaft with crosscuts to explore the Sinkhole and other "veins" would be preferable. The new location of the Banner shaft is acceptable, and we recommend approval of a shaft 100 feet deep with 150 feet of drift and/or crosscuts at that site at estimated unit cost of $45 per foot for sinking. Drifting cost estimate to be unchanged. As the shaft will be only 100 feet deep, a headframe will not be required. Any footage completed before execution of a contract will, of course, be at the Operator's own expense, with DMEA contributing only to the footage required to reach 100 feet at about which point the footwall should be cut.

Accompanying this memorandum is a revision of the examination map, showing the work done since the original examination, and a section showing the proposed Banner shaft.

Robert A. Laurence
Executive Officer, DMEA - Region V

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

May 16, 1958

Mr. Frank Phillips telephoning Mr. Lawrence G. Houk from
Spruce Pine, North Carolina

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina

Mr. Phillips asked if they could go ahead and sink the shaft on their own and we could pick up the sinking from the date of the execution of the contract, if a contract were written. I told him that we did not have the Field Team's recommendation on the modified program and could do nothing until we had their recommendation. I told him if they wished to start on their own they could at their own risk. He is anxious to get started as he has idle crews.

Note: We can write the contract for shaft sinking to begin at the surface or continuation of the shaft being sunk by the applicants.

DEFENSE MINERALS ADMINISTRATION

97023

PRODUCTION EXPANSION DIVISION

PROCUREMENT APPLICATIONS

Name of Company and Address _____

Name of Mine and Location _____

Docket No. DMA - _____ Date received by P.E.D. _____

Metals or Minerals involved _____

Length of Contract (preproduction plus production) _____

Amount of Metals or Minerals in tons, units or pounds _____

Floor price or Guaranteed price and whether or not escalated _____

Maximum Government Commitment _____

Comments on Contract: _____

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Date sent to Legal Division _____

Date of Recommendation to D.P.A. for Certification _____

Date Certification sent to G.S.A. by D.P.A. _____

Date signed into Contract by G.S.A. _____

Additional Remarks: _____

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NOTE: If application is denied, or if it is recommended for change into exploration, etc., please state under additional remarks.

Interior—Duplicating Section, Washington, D. C.

Signed _____

May 16, 1958

Mr. Frank Phillips telephoning Mr. Lawrence G. Houk from Spruce Pine, North Carolina.

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina

Hole 9 drilled

~~Jay~~ -- advance 10' N 56 W from DDH # 8

Drill 75° -- 22.4' surface
22.4 -- 41.6 Slate
41.6 -- 81.6 Vein
81.6 -- 84.6 Slate
84.0 -- 88.9 Vein

for pumping water #9

Feitler and Lesure say ~~maybe~~ ~~not~~ no sinking of two shafts one shaft to approve shaft site preference.
Banner shaft - S 53 W. 41' from collar Hole # 9
~~Hole #9~~

Sinkhole Shaft N 56 W 117' from collar Hole #8

Going to sink 2 shafts -- If loan only on one

(Frank wants Banner) reduced
costs

DEFENSE MINERALS ADMINISTRATION

97023

PRODUCTION EXPANSION DIVISION

PROCUREMENT APPLICATIONS

Name of Company and Address _____

Name of Mine and Location _____

Docket No. DMA - _____ Date received by P.E.D. _____

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Date signed into Contract by G.S.A. _____

Additional Remarks: _____

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NOTE: If application is denied, or if it is recommended for change into exploration, etc., please state under additional remarks.

Interior—Duplicating Section, Washington, D. C.

Signed _____

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

April 28, 1958

OFFICE OF DMEA
RECEIVED 30
DATE
4/30 C 220
5/16 Hah 600

Memorandum

To: Operating Committee - DMEA - Washington

From: Executive Officer, DMEA - Region V - Knoxville

Subject: Supplementment to DMEA-4901 (mica)
Mitchell Lumber Company, Spruce Pine, N.C.
Banner Mine, Mitchell County, N.C.

Enclosed are three copies of a letter from Frank W. Phillips, 5 copies of the Owner's Consent to Lien and 3 copies of the Mining Lease pertaining to the subject application, including a log of Hole No.8.

The mining lease and Consent to Lien is for a tract of land to be added to the proposed exploration area.

Robert A. Laurence

Robert A. Laurence

FRANK W. PHILLIPS, Pres. ALBERT L. CANIPE, Vice Pres. SAM W. THOMPSON, Sec'y-Treas.

MITCHELL LUMBER COMPANY

INCORPORATED

SPRUCE PINE, N. C.

OFFICIAL FILE COPY
DMEA
RECEIVED APR 30 1958

DATE	INITIALS	CODE
4/30	C	220
4/30	Houck	660

April 28, 1958

Mr. Lawrence G. Houk, Director
Division of Nonmetallic Minerals, USDI
Defense Minerals Exlporation Administration
Washington 25, D. C.

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina

Dear Sir:

I am enclosing for your information and files a recorded copy of our lease with Mr. Bryan Robinson in connection with the above referenced application. Also enclosed you will find the calls for two tracts, one of them being the tract from which the leased area is carved, and both covering lands under which we have rights under the lease; and a copy of the log of Hole No. 8.

We appreciate very much your cooperation with us in connection with the subject application. With kindest regards, we remain,

Very truly yours,

MITCHELL LUMBER COMPANY, INC.

Frank W. Phillips

Frank W. Phillips, President

FWP/bm

Enclosures (3)

FRANK W. PHILLIPS, Pres. ALBERT L. CANIPE, Vice Pres. SAM W. THOMPSON, Sec'y-Treas.

MITCHELL LUMBER COMPANY

INCORPORATED

SPRUCE PINE, N. C.

OFFICIAL FILE COPY
DMEA
RECEIVED APR 28 1958
DATE
4/28 C 220
4/28 600

April 26, 1958

Mr. Lawrence G. Houk, Director
Division of Nonmetallic Minerals, USDI
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina

Dear Sir:

Replying to your letter of April 15th, attached you will find a certified copy of the metes and bounds description of the L. E. Silvers property (42.37 acres) from which the leased 6.4 acre tract is carved, and showing the book and page number of the recording.

You will note that in the calls of this tract there seems to be two tract descriptions. I am attaching a roughly scaled plot of the tract which will help to clarify this apparent discrepancy. It appears that an error has been made in copying the metes and bounds from earlier deeds, and that the phrase which I have encircled in red should be deleted since the final two calls are necessary to close the lines. I have checked with Mr. Masters and find that the deed was probated and recorded exactly as shown on this copy of the metes and bounds.

We trust that this information will enable you to continue the processing of the above captioned application.

Very truly yours,

MITCHELL LUMBER COMPANY, INC.

Frank W. Phillips

Frank W. Phillips, President

FWP/bm

Enclosures

Bill Masters
MITCHELL COUNTY REGISTER OF DEEDS
Bakersville, North Carolina

BEGINNING on a stake, the Fred E. Silver corner in the W. A. Robinson line and running N 19-25 E, 1812. 2 ft. with the Fred E. Silver line to a stake; thence N 63-00' W, 561.0 Ft. to a sourwood tree, thence S 00-40' E, 363.0 ft. to a chestnut Tree, thence S 87-00 W, 675.0 ft. to a rock in the Garrett Buchanan line; thence S 3-30' W, 1423.0 ft. to an iron peg, thence S 44-00' W. 852.0 to a Cherry Tree, the W. B. Ellis corner; thence S. 38-00' E. 569.0 ft. to an apple tree; the branch N 15° E 60 poles to the spanish oak the Beginning Corner and W. A. Robinson's corner near a small spring containing 42 2/3 acres more or less; thence N. 45- 30' E. 285.5 ft. to a hickory andpoplar; thenceS 68-40 E., 325. ft. to a stake the beginning corner containing 42.37 acres more or less.

STATE OF NORTH CAROLINA
MITCHELL COUNTY

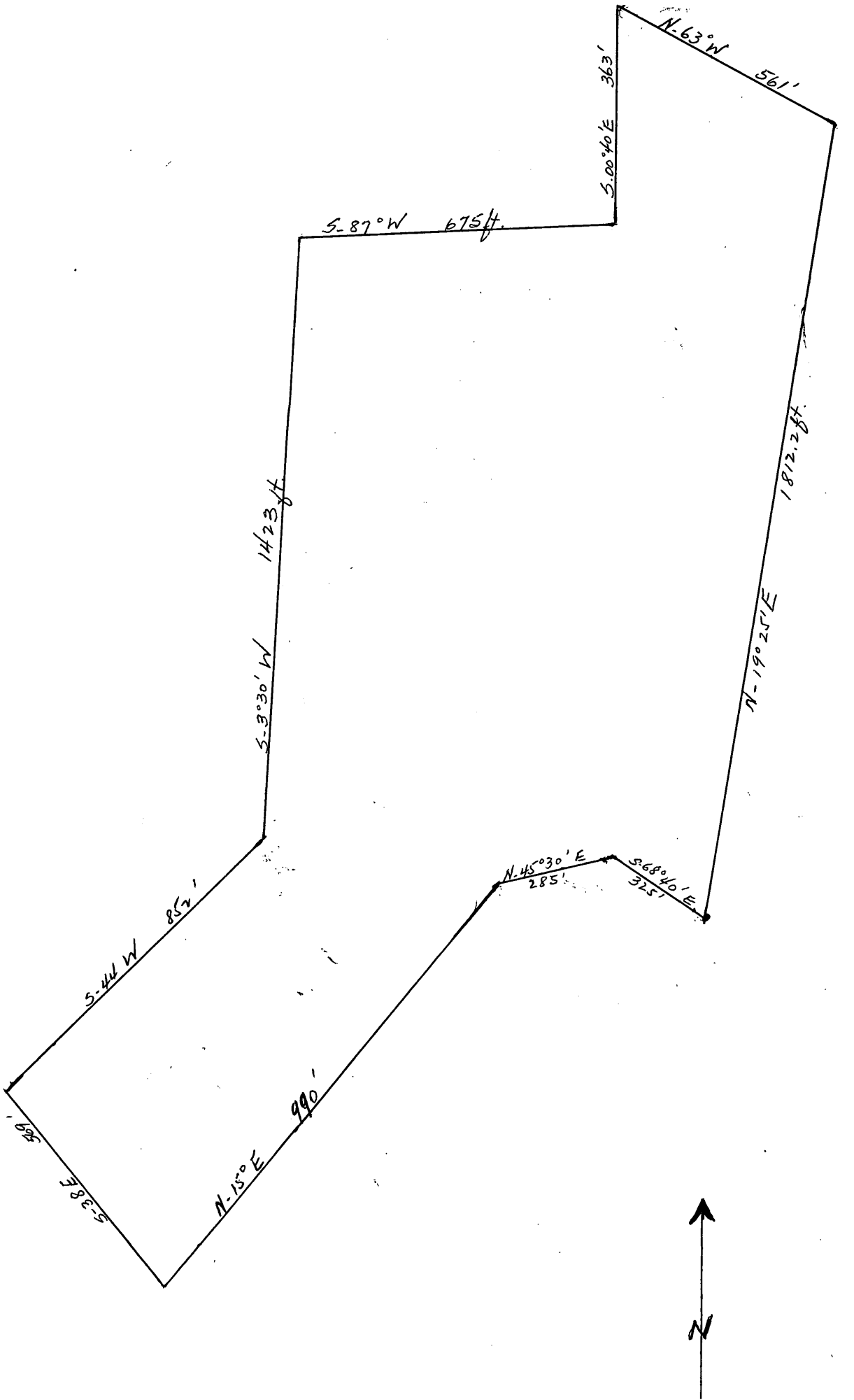
I, Bill Masters, Register of Deeds, for Mitchell County, North Carolina, do hereby certify that this is a true and correct copy of the description of the L. E. Silver Property; recorded in Book #96 at page 422, Mitchell County Registry,

Witness my hand and seal this 22 day of April, 1958

ORIGINAL FILE COPY
DMFA
RECEIVED 28 1958

Bill Masters
Register of Deeds.

166
60
990


N.63°W
561'
363'
S.00°40'E
S.87°W
675ft.
1812.2ft.
N-19°25'E
1423ft.
S.3°30'W
N.45°30'E
285'
S.68°40'E
325'
852'
S.44W
990'
N.15°E
569'
S.38E
N

April 29, 1958

2:30 P. M.

Mr. Frank Phillips of the Mitchell Lumber Co., Inc., telephoned Mr. L. G. Houk from Spruce Pine, N. C.

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina

Mr. Phillips telephoned in regard to modifying his program for exploration assistance and Mr. Houk advised him to contact the Field Team, Region V, in Knoxville, Tenn. Mr. Houk advised Mr. Phillips that we would process his application as quickly as possible.

DEFENSE MINERALS ADMINISTRATION

97023

PRODUCTION EXPANSION DIVISION

PROCUREMENT APPLICATIONS

Name of Company and Address _____

Name of Mine and Location _____

Docket No. DMA - _____ Date received by P.E.D. _____

Metals or Minerals involved _____

Length of Contract (preproduction plus production) _____

Amount of Metals or Minerals in tons, units or pounds _____

Floor price or Guaranteed price and whether or not escalated _____

Maximum Government Commitment _____

Comments on Contract: _____

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Date sent to Legal Division _____

Date of Recommendation to D.P.A. for Certification _____

Date Certification sent to G.S.A. by D.P.A. _____

Date signed into Contract by G.S.A. _____

Additional Remarks: _____

_____

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NOTE: If application is denied, or if it is recommended for change into exploration, etc., please state under additional remarks.

Signed _____

Interior—Duplicating Section, Washington, D. C.

Form 7
-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/16	Anderson	600
4/16	Houk	600
4/16	[illegible]	130
"	[illegible]	110
"	[illegible]	100
4/17	[illegible]	220

APR 16 1958 600

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

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina

Dear Mr. Laurence:

We note in your memorandum of April 10, 1958, that the subject applicant has supplied information from additional drill holes and requested certain changes in the original application.

The information gained from the two additional holes already drilled indicates that the picture may have changed somewhat. Also the two other proposed holes, numbers 8 and 9, may further alter exploration planning.

We will defer further action on the application to the time we receive the information on holes, numbers 8 and 9. Meanwhile, we have requested information from the applicant on the 42.3 acre Silver Property from which the leased area is carved.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

Approved:

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

Thor H. Kiilsgaard (HB)
Member, Geological Survey

WCAnderson:rsi 4/16/58
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

April 16, 1958

DMEA-4901

The Applicant has asked for a delay as he is drilling holes 8 and 9.

The Applicant drilled 1215 ft. in 5 diamond drill holes on the southwest portion of this six acre tract. The Sinkhole adjoins this tract to northwest. Three pegmatites (3' - 5' thick) were encountered and the footwall pegmatite shows good mineralogic and textural environment for mica deposition. The Field Team says the mica encountered in the diamond drill holes is of good quality. This property has a reputation as a good producer but there are no reliable statistics on production. The principal difficulty in the past has been heavy ground and large volume of surface water. The depth to unweathered rock is between 80 to 100 feet. The Field Team believe the heavy ground and water problem will be solved. An application on this property was denied (DMEA-3139). The pegmatite to be explored is not considered a strike extension of the Sinkhole pegmatite but a hanging wall pegmatite. The zone here is not as wide as is the Sinkhole.

The lease states that the pegmatite may be followed into the adjoining ground of the E. L. Silvers tract. We should require the 42 acre tract in its entirety.

The Field Team recommends a 150 foot shaft and 160 feet of drifting for a total cost of $ 15,932.00 .

DEFENSE MINERALS ADMINISTRATION

97023

PRODUCTION EXPANSION DIVISION

PROCUREMENT APPLICATIONS

Name of Company and Address _____

Name of Mine and Location _____

Docket No. DMA - _____ Date received by P.E.D. _____

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Amount of Metals or Minerals in tons, units or pounds _____

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Maximum Government Commitment _____

Comments on Contract: _____

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Date sent to Legal Division _____

Date of Recommendation to D.P.A. for Certification _____

Date Certification sent to G.S.A. by D.P.A. _____

Date signed into Contract by G.S.A. _____

Additional Remarks: _____

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NOTE: If application is denied, or if it is recommended for change into exploration, etc., please state under additional remarks.

Interior—Duplicating Section, Washington, D. C.

Signed _____

Size of target.

Assuming a 5 ft. width - 4% mica recovery.

Block 1 - 50 above drift level with 250 ft. strike

Block 2 - 50 below " " " " "

250x50x5 = 5,200 tons

250x50x5 = 5,200 tons
10,400 tons

10,400x4% = 416 tons of mica

416 tons @ $600.00 = $250,000 value of target

$250,000 x 5% royalty = $12,500 potential royalty return.

The applicants drill holes on the property have established the premise of pegmatite of minable width and good environment. Therefore a contract of a 150 ft. hanging wall shaft and 100 feet of drifting is recommended

The 60 g p m pumped by Sinkhole from 300 ft. should aleviate the heavy water inflow. If the shaft proves to be difficult to hold a three shift operation 7 days a week may prove effective.

The applicants request for a delay should be given favorable consideration in view of the good production record from Sinkhole, better environment for shaft possibly in the vein. Cores should be examined and reappraisal made.

DEFENSE MINERALS ADMINISTRATION

97023

PRODUCTION EXPANSION DIVISION

PROCUREMENT APPLICATIONS

Name of Company and Address _____

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Date signed into Contract by G.S.A. _____

Additional Remarks: _____

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NOTE: If application is denied, or if it is recommended for change into exploration, etc., please state under additional remarks.

Signed _____

Interior—Duplicating Section, Washington, D. C.

A Form 7
2-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/15	Anderson	600
4/15	Houk	600
15	Mattendorf	100
16		220

APR 15 1958 600

Mitchell Lumber Company, Inc.
c/o Mr. Frank W. Phillips
Spruce Pine, North Carolina

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina

Gentlemen:

Please be advised that we are unable to continue the processing of the subject application until we receive the following information.

Please submit to this office a metes and bounds description of the L. E. Silver property (42.37 acres) from which the leased 6.4 acre tract is carved. Also state the book and page number of the recording in the County records.

As soon as we receive the requested information, we will continue the processing of your application.

Sincerely yours,

Lawrence G. Houk, Director
Division of Nonmetallic Minerals

WCAnderson:rsi 4/15/58
Copy to: Admr. R. File
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

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

April 10, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED APR 14 1958

4/15	C	226
4/15	Hook	CC

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: DMEA-4901 (mica) Mitchell Lumber Co, Inc., Spruce Pine, N.C
Banner Mine, Mitchell County, North Carolina

Enclosed are the original and two copies of a letter from the Applicant, supplying information from additional drill holes and requesting certain changes in the original application.

Although we have not studied these later cores in detail, we do not consider that the picture changed. We do not consider that a 250-foot shaft is justified. Therefore, we reaffirm the recommendations presented in the original report.

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

Wm. A. Beck
Wm. A. Beck, for V. J. Lynch
Member - Bureau of Mines

FRANK W. PHILLIPS, Pres. ALBERT L. CANIPE, Vice Pres. SAM W. THOMPSON, Sec'y-Treas.

MITCHELL LUMBER COMPANY
INCORPORATED

SPRUCE PINE, N. C.

DMEA
RECEIVED APR 14 1958
DATE | INITIALS | CODE
DMEA-
4901

April 7, 1958

Mr. Robert A. Laurence, Executive Officer
U. S. Department of the Interior
Defense Minerals Exploration Administration
Knoxville 2, Tennessee

Dear Mr. Laurence:

We are enclosing an application for amendment to the Banner Mine application. We would greatly appreciate it if you would consider this and also if you do pass on one or both, delay the shaft locations until we drill two more holes, number 8 and 9.

Since filing our Banner Mine application we have drilled two other holes, numbers 6 and 7 for the Sink Hole vein. These holes were collared 150 ' N 48.00 E of hole No. 5. This hole is shown on your Banner Mine map. Hole No. 6 was drilled on an angle of 45 degrees and in N 38.00 W direction. Following is the log of this hole:

106'		Surface
106'	-108'	Vein
108'	-135'	Slate
135'	-152'	Vein
152'	-170'	Slate
170'	-172'	Vein
172'	-176'	Slate
176'	-177'	Flint and Feldspar
177'	-272'	Slate

Hole No. 7 was drilled on an angle of 60 degrees and in N 38.00 W direction. Following is the log of this hole:

76'		Surface
76'	- 81'	Slate
81'	- 84'	Vein
84'	- 98'6"	Slate
98'6"	-100'	Vein
100'	-135'	Slate
135'	-140'	Vein
140'	-165'	Slate
165'	-205'	Vein
205'	-215'	Slate

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Geologic Division
Knoxville, Tenn.

We believe the vein from 135' to 140' is the side vein that lies above the hanging wall of the old Sink Hole vein as this side vein was always very rich with mica. In the five feet of vein we cut we only pulled three fe feet of short pieces of feldspar full of mica. The balance of the mica did not core. We are pleased and satisfied with the results of our diamond core drilling and would be willing to sink a shaft on either vein, but for the following reasons we are going to drill holes No. 8 and 9:

1. We would like to know if the two veins continue in this direction.

2. If one or both do continue, and we cut the pegmatite, the hole or holes will be reamed for a 4" pump. The pump will then be lowered to the pegmatite. They will be collared 185' N 23.00 E from holes 1 and 2, and drilled on angles of 45 degrees and 75 degrees respectively in N 56.00W direction.

Thanking you for any assistance you may consider giving us, and we will send you the logs on hole No. 8 and 9 as soon as they are available.

Very truly yours,

MITCHELL LUMBER COMPANY, INC.

Frank W. Phillips

Frank W. Phillips, Pres.

FWP/bm

BANNER MINE
MITCHELL LUMBER COMPANY, INC.
SPRUCE PINE, NORTH CAROLINA

ESTIMATE OF COSTS

Estimate of cost, figuring no water, with hard and dry surface.

Bulldozing for shaft site and connecting roads	100.00
High head frame, hoist house, dumping bin with chute, sheave, and cable	2,000.00
Sinking 5' X 8' Shaft 250' @ $50.00	12,500.00
Crosscutting and/or drifting 200' @ $35.00	7,000.00
Total Costs	$ 21,600.00

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U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

Memorandum

To: File

From: Walter C. Anderson

Subject: Evaluation of application and field examination report.
Docket No. DMEA-4901-mica
Mitchell Lumber Company, Inc.
Banner mine, Mitchell County, North Carolina.

A contract is recommended

Mica: Similar to that produced at the adjacent Sinks Hole Mine.

Pegmatite: Down dip, as established by recent diamond drilling by the applicant it ranges from 3 to 5 feet in thickness. Consists of plagioclase, quartz, and muscovite. Country rock is a feldspathic muscovite-biotite schist. Both schist and pegmatite are deeply weathered to a depth of approximately 80 feet, below which they become hard rock. Data indicate that pegmatite has a strike length of at least 250 feet, and a dip continuity below the old workings of more than 150 feet.

Old Workings: Mine has been worked to an average depth of 35 feet, possibly a maximum depth of 80, all in the weathered zone. No work has been done in the unweathered zone, i.e. from the water table or 80 feet in depth down. Old workings [illegible] for at 20 feet along strike. According to reports this mine was at one time a prolific producer of mica.

Method of opening:

1. Proposed by applicant:

Bulldozing for shaft site, etc.	$200.00
Toolhouse, powder & detonator magazines	116.00
Headframe, etc.	2,000.00
250 feet of shaft @ $80.00/ft. (5 x 5 ft.)	20,000.00
200 feet of drifts and/or crosscuts @ $40.00/ft.	8,000.00
Total requested money	$30,316.00

2. Recommended by Field Team -

Construction - Hoist & toolhouse, powder and detonator magazines headframe	$990.00
150 feet of shaft @ $59.31/ft.	8,896.00
160 feet of drift @ $37.75/ft.	6,046.00
Total	$15,932.00

3. Recommended by the Division of Nonmetallic Minerals:

Construction - Hoist and toolhouse powder and detonator magazines and headframe	$566.00
150 feet of shaft @ $57.00/ft.	8,450.00
100 feet of drifts and/or crosscuts @ $36.00/ft	3,600.00
Total estimated cost of project	$12,616.00

Comments: The difference in cost between the Field Team and Div. of Nonmetallic Minerals total estimated cost of the project is obvious, since we reduced the drifting from 150 feet to 100 feet. We feel that 100 feet of drifting is sufficient to prove the merit of the deposit. Unit costs have been reduced from the Field Team's estimate of $59.31/foot for shaft sinking and $37.75/foot for drifting to $57.00 and

and 36.00 respectively. This is due to the fact that we have reduced their estimates of equipment rental for $250 per month, a cost that was mutually agreed to by the field and our office some time ago.

Recommendations: The Division of Nonmetallic Minerals and the Commodity members of the Geological Survey and the Bureau of Mines concur in the Field Team's recommendation that a contract for the apparent is merited.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
[illegible] POST OFFICE BLDG.
KNOXVILLE 2, TENN.

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DATE		CODE
4/8	Hook	LOC

April 3, 1958

Mr. R. Glenn Snipes, C.P.A.
P.O. Box 3015
Asheville, North Carolina

Dear Mr. Snipes:

Mr. Frank W. Phillips of Spruce Pine, North Carolina has requested this office to furnish you a statement showing all moneys loaned, all repayments through royalty and the outstanding balance of such loans for any operations involving Frank W. Phillips, Sam W. Thompson, or Mitchell Lumber Company, Incorporated. DMEA-4901

We wish to point out that the amounts paid by the Government are not loans but the Government's share of the costs of exploration contracts which is repaid by royalty only if there is any production from the properties involved.

On the attached list, Idm-E77, DMEA-1377; Idm-E311, DMEA-2377; Idm-E659, DMEA-3229 and Idm-E831, DMEA-3774, your clients were not the original contractors but acquired the properties after some or all the work had been completed and some of the repayments had been made.

On Idm-E902, DMEA-3908; Idm-E1085, DMEA-4388; Idm-E1077, DMEA-4541 and Idm-E1104, DMEA-4683 the Government did not certify that a Discovery or Development had been made, so no royalty is due other than on production made from the date of the contract until six months after the Operator turned in his final engineering and geological report.

Some royalty is still due on Idm-E1085, DMEA-4388 as the six month period was not up until February 28, 1958, and it is known the mine was in operation during that time. Sales of hand cobbed mica were made on December 6, 1957 and January 17, 1958 on which the final settlement had not been made when last

investigated.

We hope this is the information you need and if there is anything else you require, we will be glad to give it to you.

Very truly yours,

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

WAB/mm
cc
Opr. Com.-2
Finance Office
Frank W. Phillips
Lynch
Files

FRANK W. PHILLIPS, Pres. ALBERT L. CANIPE, Vice Pres. SAM W. THOMPSON, Sec'y-Treas.

MITCHELL LUMBER COMPANY

INCORPORATED

SPRUCE PINE, N. C.

EXTRA COPY
RECEIVED 1958
DATE CODE

March 27, 1958

Mr. Robert A. Lawrence
Executive Officer
DMEA Field Team, Region V
Knoxville 2, Tennessee

Dear Sir:

In connection with an examination of our records and complete audit of all our operations, we request that your office please furnish at your earliest convenience, statements showing all moneys loaned, all repayments through royalty, and the outstanding balance of such loans for any operations involving Frank W. Phillips, Sam W. Thompson, or Mitchell Lumber Company, Inc.

Upon completion of such statements they should be mailed directly to the following address:

Mr. R. Glenn Snipes, C.P.A.
P. O. Box 3015
Asheville, North Carolina

Your usual fine cooperation will be very much appreciated in this instance.. With kindest personal regards, I remain,

Very truly yours,

Frank W. Phillips

Frank W. Phillips

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MAR 28 1958
U. S. Geological Survey
Geologic Division
Knoxville, Tenn

	Amounts paid by Government	Repayments by Operator	Balances
Idm-E77 DMEA-1388 Gaston Strategic Minerals Co., Spruce Pine, North Carolina	$ 5,040.00	$ 5,040.00	0
Idm-E311 DMEA-2377 Piedmont Minerals, Inc., Spruce Pine, North Carolina	6,277.50	1,732.63	4,544.87
Idm-E364 DMEA-2379 Frank W. Phillips, Spruce Pine, North Carolina	23,810.14	23,810.14	0
Idm-E659 DMEA-3229, Willis & Snyder Mining Company, Bostic, North Carolina	5,718.75	1,144.07	4,574.68
Idm-E831 DMEA-3774 John Lewis Biggerstaff, Spruce Pine, North Carolina	1,630.31	1,630.31	0
Idm-E902 DMEA-3908 Stevenson Mine, Frank Phillips, Spruce Pine, North Carolina	3,881.74	26.65	0 ~~3,855.09~~
Idm-E977 DMEA-4337 Hawk Mining Company, c/o Frank Phillips Spruce Pine, North Carolina	4,354.28	511.89	3,842.39
Idm-E1085 DMEA-4388 Arnold Young Mining Co., Spruce Pine, North Carolina	5,286.90	313.25	? ~~4,973.65~~
Idm-E1077 DMEA-4541 - Charlie Blanton Mining Company, c/o Frank Phillips, Spruce Pine, North Carolina	3,742.05	0	0 ~~3,742.05~~
Idm-E1104/ DMEA-4683 Frank W. Phillips and Ramey Beam, Spruce Pine, North Carolina	125.10	0	0 ~~125.10~~

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

April 7, 1958

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4901 (mica)

Applicant: Mitchell Lumber Co.

Name and Location of Property: Banner Mine, Mitchell County, N. C.

Date of Field Team Report: March 28, 1958

Date Rec'd. by Br. of Ceramic & Fertilizer Mtls. April 1, 1958

Field Team Recommendation: Recommend that exploration be granted

Comments:

1. This is an old mine with workings extending at least 35 and possibly 80-100 feet deep.

2. Recent drilling by the applicant has outlined two continuous pegmatite veins 2 to 5 feet thick with a strike length of over 250 feet extending at least 200 feet down dip.

3. Geologic conditions are favorable for the occurrence of good quality mica.

4. This deposit appears to have possibilities for the development of strategic mica.

Recommendation:

I concur with the recommendation of the field team that exploration assistance be granted.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

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

4/2	C	3.26
		6.66

April 1, 1958
Re: DMEA 4901
Mitchell Lumber Co.
Banner Mine
Mitchell County, N. C.
Appl. Est. $30,316.00
Rec'd " 15,932.00
Mica

Memorandum

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

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

Subject: Review of Field Team Report

The applicant requested assistance in exploring by shaft and drifts a pegmatite which, though near the Sinkhole mine, has been but partially explored, due largely to unfavorable topography and water trouble. Diamond drilling has established the probable downward extension of the pegmatite and shown it to carry some strategic mica.

In the opinion of the examiners and the Field Team, the inferred potential of the pegmatite is such as to justify the larger than average expenditure on the comparatively deep exploration and they recommend that a 150-vertical shaft be sunk to the pegmatite and 160-feet of drilling be done.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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

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March 28, 1958

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Field Examination Report - DMEA-4901 (mica)
Mitchell Lumber Co., Spruce Pine, N.C.
Banner Mine, Mitchell County, North Carolina

Transmitted are the original and two copies of the subject examination report with maps attached and (seven) 4 extra copies of the geology and topography map.

The Field Team concurs with the Examiners in recommending exploration aid on this project.

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

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

Reviewed by
DMEA OPERATING COMMITTEE
4-2-58
(date)

RECEIVED MAR 31 1958
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UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT - REGION V

ON

DMEA-4901 (mica) BANNER MINE
Mitchell County, North Carolina

By

F. G. Lesure, Geologist
Geological Survey

and

S. A. Feitler, Mining Engineer
Bureau of Mines

March 28, 1958

Reviewed by
DMEA OPERATING COMMITTEE
4-2-58
(date)

On-Site Exam Rpt

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CODE

D M E A
FIELD EXAMINATION REPORT
ON

DMEA-4901 (mica) BANNER MINE

Applicant: Mitchell Lumber Company, Spruce Pine, North Carolina.

SUMMARY

Drilling by the Applicant has outlined two continuous pegmatite veins 2 to 5 feet thick with a strike length over 250-feet and a dip dimension of 90 feet between drill hole intersections. Mineralogy and texture of the pegmatite core are favorable for the occurrence of strategic muscovite. Surface workings, probably on the same vein, are reported to have been productive. The Field Examiners recommend that exploration assistance be granted.

INTRODUCTION

Location: The Banner Mine is on the southeast slope of a low hill 0.5 mile N35°E from the Bandana Post Office, Mitchell County, North Carolina (Micaville, N.C., Quad.TVA, 1:24,000). Access to the mine is good at all times.

Examination: An examination of part of the drill core of the first four diamond drill holes mentioned in the Application was made February 5, 1958, and several hours were spent discussing the application with Mr. Frank Phillips in his office in Spruce Pine. Because the mine area has few outcrops and is familiar to both Examiners, no on-site examination was made.

Previous history: The Application contains the most extensive history and production data concerning the Banner mine available and is probably about as accurate as any previous reports.

Mr. Phillips does report, however, that the average depth of the old workings was 35 feet, but according to J.M. Parker, III (1943, Sinkhole and Banner mica mines, unpublished U.S.Geol. Survey manuscript) the Banner was reported to have at least one shaft 100-feet deep with 80 feet of drift. In their report of 1953, the DMEA Field Examiners (R. A. Laurence, K. H. Teague, and L. E. Shirley, Report of Examination on DMEA-3139, Banner Mine) give the greatest depth as "about 80 feet." The mine has therefore certainly been worked at least to 35 feet and possibly to 80 to 100-feet. No work was apparently done in unweathered rock. No production figures other than those given in the Application are available.

No buildings or mining equipment were on the property when last visited in August 1957. Both water and electric power are available nearby. At present the Applicant has a 5 H.P. pump in Drill Hole #2 which was reamed out to 4 inches to a depth of 70 feet.

GEOLOGY

The drill hole data supplied by the Applicant has been plotted on a geologic map compiled from mapping done by the Geological Survey in 1943 and 1957. The data indicates that the Banner pegmatite zone has a strike length of more than 250 feet and a dip continuity below the old workings of more than 150 feet. Three point plotting of the footwall of the pegmatite zone shows a strike of N52°E and a dip of 77°SE. The pegmatite zone is generally concordant with the regional strike and dip of the country rock.

The pegmatite exposed in the creek to the east of the Banner workings, mentioned in the 1953 examination report (DMEA-3139), is probably not the same as that intersected by the Mitchell Lumber Company drill holes.

The intersections of the Banner pegmatite zone in drill holes 1, 2, and 3 were examined at the Mitchell Lumber Company office in Spruce Pine (see attached partial logs of Banner Drill Holes). The intersection of the Banner zone in drill Hole No.4, 176' to 180' (see Mitchell Lumber Co., log in Application), was not examined and the large pegmatite intersection, 271.7' to 327', is probably the same or a similar body of alaskite as cut by the adit north of the old Banner shafts and mentioned by Parker (1943 report)(see attached map). Drill hole No.5 was collared near the outcrop of the Banner zone and if it intersected the Banner zone did so in the deeply weathered zone. Drill Holes Nos. 1 and 2 cut two pegmatite veins separated by 1 to 2 feet of schist forming a zone 7 to 8 feet thick. Drill hole No.3 cuts three pegmatite veins separated by 1 to 2 feet of schist forming a pegmatite zone 12 feet wide. The corresponding pegmatites of holes Nos. 1 and 2, and the lower two pegmatites in hole No.3 are similar in mineralogy and grain size suggesting the presence of two continuous pegmatite veins separated by a thin layer of schist or as the mica miners call it a "center slate." Sections A-A' and BB' through drill holes 1 and 2 and 3 indicate that the Banner pegmatite zone is probably the down dip extension of the pegmatite worked in the old Banner shafts.

The upper pegmatite in the Banner zone is fine (less than 1-inch) to medium-(1 to 2 inches) grained. It is composed mostly of plagioclase, quartz and muscovite with some accessory garnet. In drill holes 1 and 2 this pegmatite is about 2 feet thick; in drill hole 3, where it is the middle of veins cut between 152 and 174 feet, it is almost 3 feet thick.

In all three of the cores studied, the lower pegmatite in the Banner zone is the more favorable. Generally this pegmatite is thicker; when corrected for dip and strike it is 3 1/2 feet in hole 1, about 3 feet in hole 2 and 5 feet in hole 3. The pegmatite ranges from medium (2 to 4 inches) to coarse-(more than 4 inches) grained. It consists mainly of plagioclase, quartz, and muscovite. Although no complete intersection of a large book of muscovite was made in any of the drill holes, incomplete intersection of large books contain light brown muscovite of good quality. This mica is very similar to that produced in the nearby Sinkhole Mine.

As shown by the drill logs, the country rock in the area of the Banner Mine is a feldspathic muscovite-biotite schist with some garnet. Foliation of the schist strike generally northeast and dips steeply southeast.

Both schist and pegmatite are deeply weathered in this area. As shown in section C-C' depth to hard rock is about 60 to 70 feet in the mine area. As pointed out by the Applicant and by the previous DMEA Examiners a high water table and a large supply of ground water has prevented previous attempts to explore this pegmatite at a greater depth. The Applicant has installed a pump

in Drill Hole No.2 in an attempt to drain water away from the proposed shaft site. The hole was reamed about 70 feet to solid and 4-inch casing installed. Only the first 5 feet of casing was perforated. A time switch operates the pump one minute every 15-minutes and the Operator reports that about one gallon is pumped each cycle.

It is probable that water percolates slowly through the weathered schist and will give little trouble, if it is not allowed to rise and wash the sides of the shaft. The pegmatite, on the other hand, is probably more permeable, and, being fed by a large area of the weathered schist, would if pumped continuously, draw down the water in the surrounding schist.

RECOMMENDATIONS

The Examiners recommend that exploration assistance be granted. Diamond drilling by the Applicant has established the presence of a pegmatite zone with good continuity down dip from the former Banner workings and with a strike length over 250 feet. Although the pegmatite veins are not thick, good production in the immediate area has come from veins of similar thickness (i.e R. B. Phillips, DMEA-3422). The mineralogy and texture of the lower pegmatite vein are favorable for the occurrence of strategic mica, and muscovite present in the core is of good quality. The volume of pegmatite established by the recent drilling is large enough to justify a program of exploration greater than usual in mica exploration to establish the present of minable quantities of muscovite.

It is proposed that a vertical shaft be sunk 150 feet deep to intersect the pegmatite zone near the intersection made by drill hole No.2. At about this depth it is recommended that 160-feet of drifting be done both northeast and southwest along the pegmatites.

Because of ground water conditions in the area of the proposed shaft the Field Examiners considered the advisability of pumping tests to determine if the level of the water table can be lowered. To do this three holes would have been drilled; hole No.1 (W#1 on map) located near the proposed shaft would have been reamed out, and cased with 4 inch casing. Hole No.2 and 3 (W#2 and 3 on map) would have been located approximately 50 and 100 feet uphill from the proposed shaft and cased with BX casing. The pump would have been in Hole No.1 and the level of the water table measured in holes 2 and 3.

Since the first examination interview, the pump has been in operation and the results (about 1 gallon every 15 minutes) indicate that the volume of water in the weathered schist will not affect shaft sinking. The Operator has agreed to use shaft sets and is aware of the result of periodic flushing when a shaft is in weathered ground.

In the weathered schist, false cribbing outside the sets may be necessary to prevent sloughing until the next set is placed. As this would involve little more material than regular lagging, no special provision has been made.

The schist seems to be a poor aquifer but the pegmatite is apparently permeable. The nearby Sinkhole mine is kept dry by pumping 60 g.p.m. continuously. If a contract is approved, the Operator will be encouraged to drill into the pegmatite below the proposed mine level and pump from there. This will probably have little effect on the water content of the weathered schist, but it would unwater the pegmatite and forestall flooding when the shaft enters it.

COST ESTIMATES

Construct:

Hoist and toolhouse	$100.00	
Powder magazine	25.00	
Detonator magazine	15.00	
Head frame - 30 feet high, with mechanical dump, hopper (see detail)	850.00	
Total construction....		$990.00

Sink 150 feet of two-compartment shaft 5' x 7' inside dimension, timbered with 6" x 6" sets and lagged as required. Timbering is to be essentially as shown on attached drawing titled "timber set for 5' x 7' shaft (110 shifts).

Labor:

1 - foreman-Miner,	$14/shift
1 - hoistman	12/shift
1 - timberman-miner	12/shift
Per 8 hr. shift.....	$38/
Total labor 110 shifts.....	$4,180.00

Equipment (rental)

1 - Compressor @ $150/Mo.	$825.00	
1 - Hoist @ $50/Mo.	275.00	
1 - Rock drill w/hose @ $40/Mo.	220.00	
1 - Sump pump @ $40/Mo.	220.00	
1 - Electric pump @ $20/Mo.	110.00	$1,650.00

@ 250/mo. = 1375.00

Supplies, tax, and Insurance

Gasoline and oil	345.00	
Explosives	375.00	
Drill steel	135.00	
Timber, including framing, hardware, etc.	1,338.00	
Small tools & Misc	300.00	
Sales tax	71.00	
Social Sec. & insurance	502.00	
Total supplies.....		3,066.00
Total estimated cost of shaft....		8,896.00

Est. cost/ft.shaft $59.31. use $57.00/ft 8621.00

Drift 160 feet 5' x 7' in cross section from or near the bottom of shaft (80 shifts)

Equipment (rental)

1 - Compressor @ $150/Mo.	600.00	
1 - Hoist @ $50/Mo.	200.00	
1 - Rock drill w/hose @ $40/Mo.	160.00	
1 - Sump pump @ $40/Mo.	160.00	
1 - Electric pump @ $20/Mo.	80.00	
1 - Jackleg @ $25/Mo.	100.00	
Total equipment rental.....		1,300.00

@ 250/mo = 1,000.00

Labor

1 - Foreman-Miner	$14/shift	
1 - Hoistman	12/shift	
1 - Laborer	8/shift	
Per 8 hr. shift	$34	
Total labor 80 shifts @ $34/shift.....		2,720.00

Supplies, tax & Insurance		
Gasoline and oil	$400.00	
Explosives	600.00	
Drill steel	200.00	
Timber, 2 m.b.m.	130.00	
Small tools and Misc.	320.00	
Sales tax	50.00	
Social Sec. & Ins.	326.00	
Total supplies, etc.....		$2,026.00
Total estimated cost of drift.....		6,046.00
use $36/ft.		5746.00

SUMMARY OF ESTIMATES

Construction	$990.00
Shaft - 150 feet	$8,896.00
Drift - 160 feet	6,046.00
Total.....	$15,932.00

16) 6046 (37.75
48
124
112
120
112
80

Detail No. 1
Head frame
Material and Labor

Braces	2 oak logs	12" tip x 25'	50 l.f.	
Posts	4 oak logs	12" tip x 30'	120 l.f. @ $1.00..	$120.00

Top:

4 pcs.	4 x 6 x 6'	48 b.f.
4 pcs.	4 x 8 x 6'	64 "

Upper Panel:

Diag.	8 pcs.	4 x 6 x 12'	192 "
Girts	4 "	4 x 6 x 8'	64 "

Lower Panel:

Diag.	8 pcs.	4 x 6 x 14'	224 "
Girts.	4 "	4 x 6 x 9'	72 "

Dump hopper:

Posts	2 "	8 x 8 x 18'	192 "
Frame	2 "	8 x 8 x 6'	64 "
Frame	2 "	8 x 8 x 14'	150 "
Frame	4 "	4 x 6 x 8'	64 "
Bottom		14' x 6' x 4"	336 "
Front		8' x 6' x 3"	144 "
Sides		50 sq.ft. x 2" x 2	200 "
			1,814 "

Use 2 M b.f. @ $65/M	$130.00
Dump and door	50.00
Sheave and hardware	50.00
Labor	350.00
Concrete footings (6)	100.00
Total...	850.00

Material and Fabrication
Plan attached
SHAFT SETS

Material - Oak @ $65/M			B.F.	Cost / ft.
Wall plates--	2 pc.	6 x 6 x 8'	48	
End plates	2 "	6 x 6 x 6'	36	
Divider	1 "	4 x 6 x 5½'	11	
Guides	2 "	4 x 6 x 6'	24	
Corner posts	4 "	6 x 6 x 5½'	66	
Divider "	2 "	4 x 6 x 5½'	22	
Blocking	10 "	8 x 8 x 1'	53	
Wedges	30 "	1 x 4 x 1'	10	
		6.5¢/6'	270	$2.93

Labor- Cutting, framing & drilling $4/6' .67

5/8" hanging rods - 8 pcs. 4'x1.04 lbs x .14¢ =	$4.66	
5/8" cast washers - 8 pcs @ 10¢	.80	
5/8" nuts - 8 pcs @ 5¢	.40	
Guide bolt - 1/2" x 9" w/nut and washer	.20	
Guide bolt 1/2" x 11" w/nut and washer	.25	
Threading and bending	1.00	
Nails	.05	
	7.56/6'	1.93

Shaft sets..... 5.53

Lagging and cleats 53 b.f.
70% lagged 38 b.f.
Manway partition 5 b.f.
43 b.f. @ $.065 2.80

Platform & ladder 12' on ℄

Sides - 2 x 4 x 32' = 22 b.f.
Rungs 1 x 4 x 20' = 7 b.f.
Platform 2" x 2½' x 3' = 15 b.f.
Joists-3pc. 2x4x3' 6 b.f
50/6' = 9 b.f. @ $.065 .59

Total est. cost material and fabrication..... $8.92

Partial logs of Banner Drill Holes, February 1958

Hole No.1

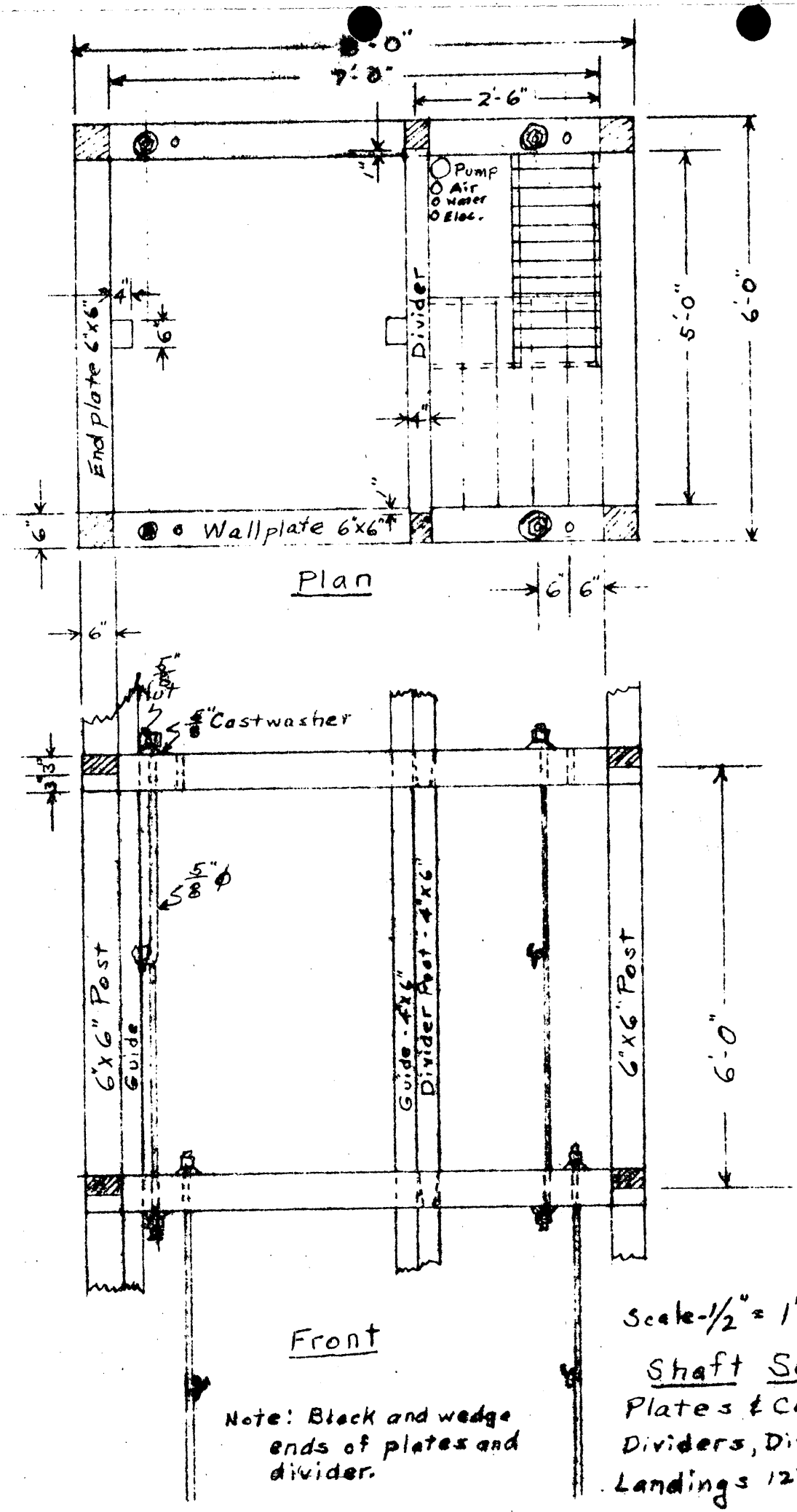
Depth-Feet	Core feet	Description
143 - 146	3	Pegmatite, medium to fine-grained, consists of plagioclase, quartz, muscovite and accessory garnet.
146-147	1	Muscovite-biotite schist, medium-grained feldspathic and garnetiferous.
147-152	5	Pegmatite, coarse-grained, consists of plagioclase, quartz and muscovite with accessory garnet.

Hole No.2 (The intersections were taken from chalk numbers on the core and differ slightly from Mitchell Lumber Co. log).

199-200	1	Pegmatite, fine-to medium-grained, consists of plagioclase, quartz, and muscovite.
200-200.3	0.3	Muscovite-biotite schist.
200.3-203	2.7	Pegmatite, fine to medium-grained, consists of plagioclase, quartz and some muscovite.
203-206.2	3.2	Muscovite-biotite schist, fine-grained.
206.2-211.9	5.7	Pegmatite, medium-to corase-grained, consists of plagioclase, quartz and muscovite with accessory garnet; graphic texture in lower foot

Hole No.3 (Changed slightly from Mitchell Lumber Co. log).

158-159.3	1.3	Pegmatite, fine-to medium-grained, consists of plagioclase, muscovite and some quartz.
159.3 -163.3	4	Pegmatite, fine to medium-grained consists of quartz, plagioclase, and muscovite with accessory biotite.
163.3-165.4	2	Muscovite-biotite schist, medium-grained, feldspathic and garnetiferous.
165.4-167.1	1.7	Pegmatite, medium-grained, consists of plagioclase, muscovite and quartz with accessory ~~granet~~ garnet. Several small muscovite-biotite schist inclusions.
167.1-173.9	6.8	Pegmatite, medium-to corase-grained, consists of plagioclase, quartz, and muscovite.



TIMBER SET
FOR
5'x7' SHAFT

2/58 SAF

Scale-1/2" = 1'

Shaft Set

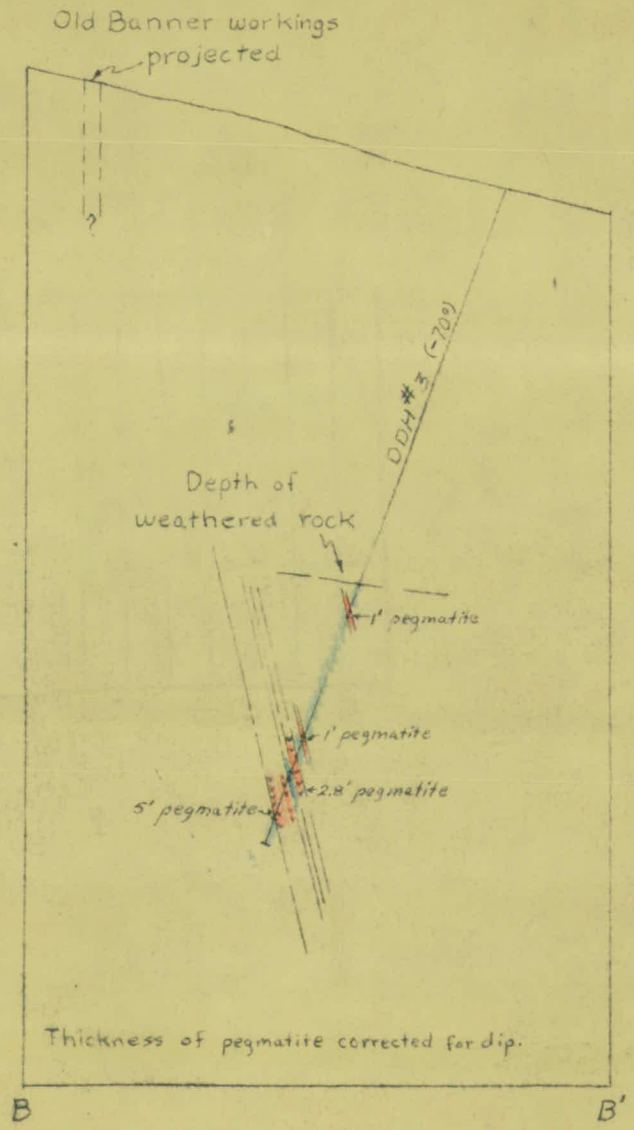
Plates & Corner Posts 6"x6"

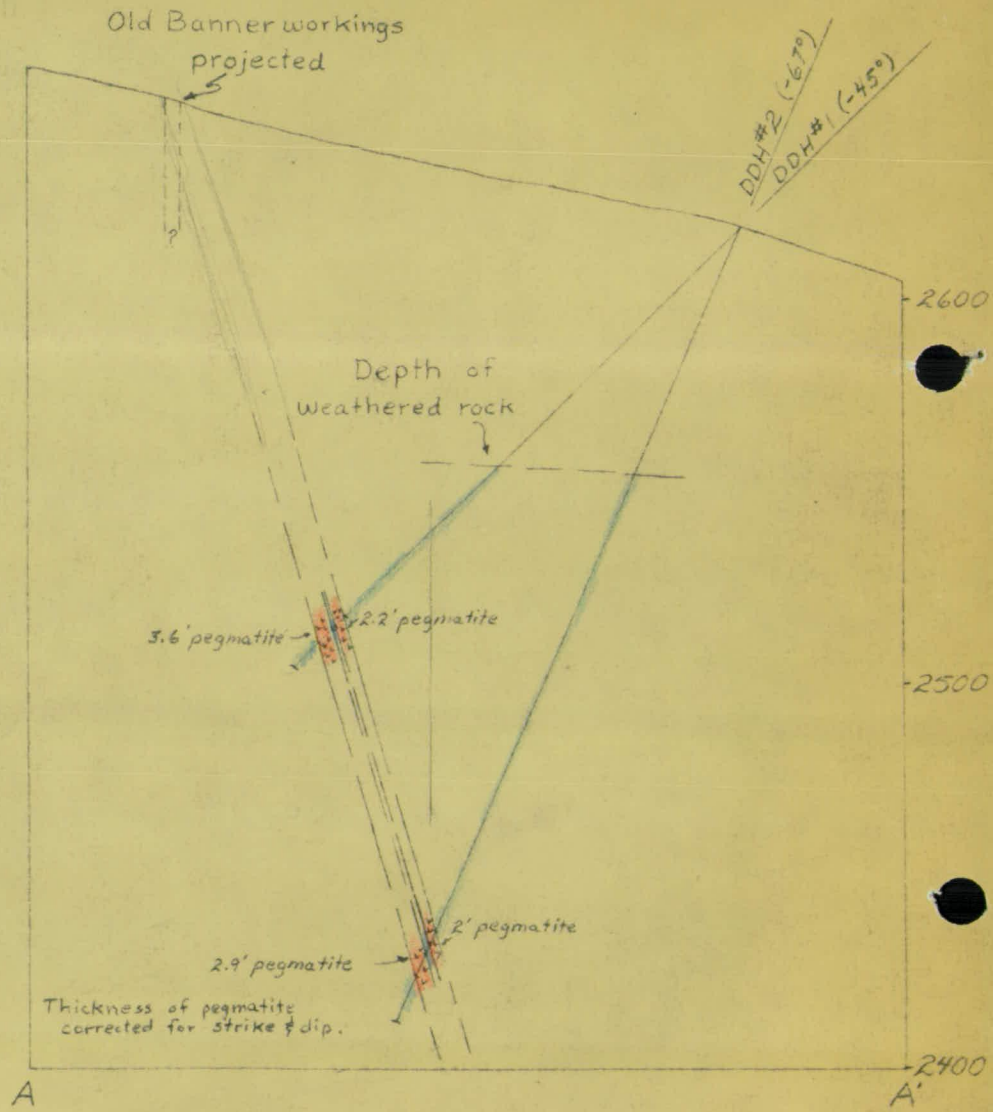
Dividers, Divider Posts [illegible]

Landings 12' on [illegible]

Note: Block and wedge ends of plates and divider.

ORIGINAL FILE COPY
DWEA
DOCUMENT 31 1258
CODE





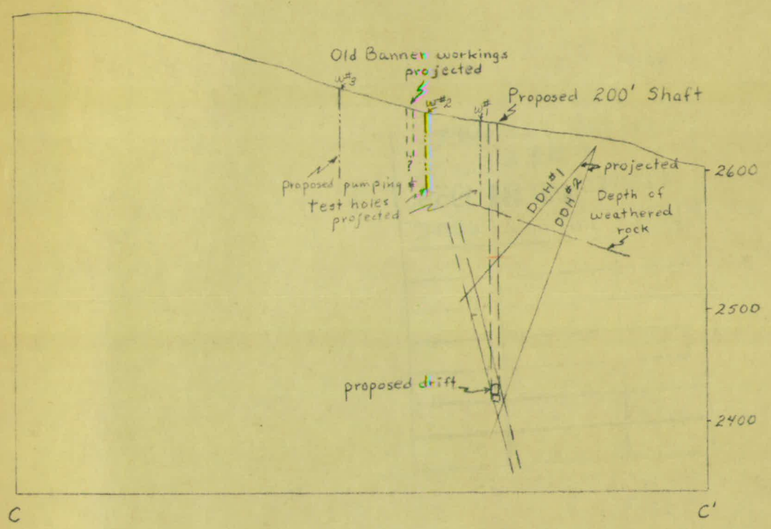
Sections
Banner Mine
DMEA 4901

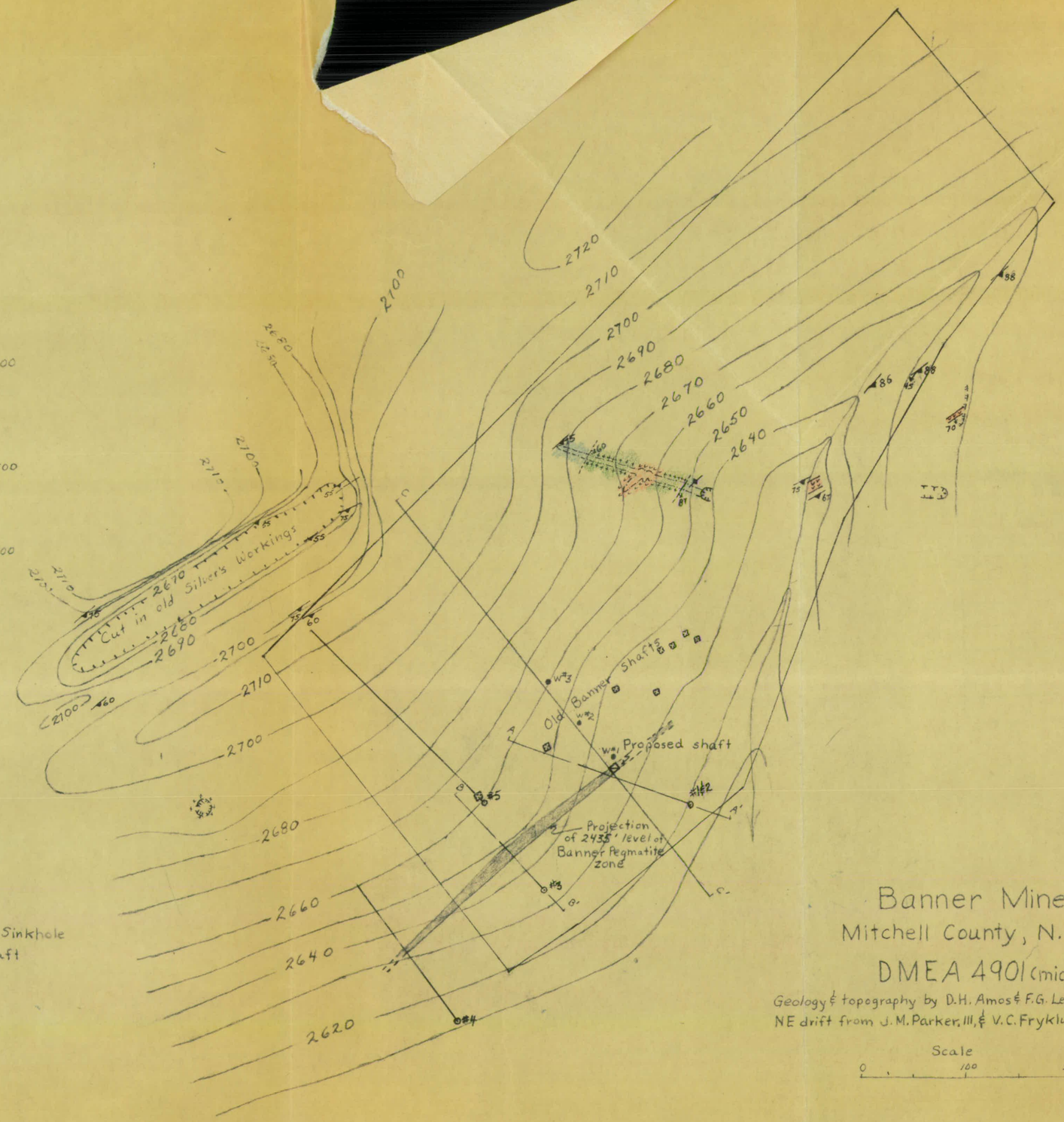
0 50 feet

FGL 2/58

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 31 1958

DATE	INITIALS	CODE





Explanation

- Pegmatite
- Alaskite
- 55 Strike & dip of foliation and plunge of minor fold axes
- Contact showing dip
- Shaft
- Caved shaft
- #1 Diamond drill holes
- w#1 Proposed pumping-test holes

Banner Mine

Mitchell County, N. C.

DMEA 4901 (mica)

Geology & topography by D.H. Amos & F.G. Lesure, August 1957

NE drift from J.M. Parker, III, & V.C. Fryklund, Jr., October, 1943

Scale

0 100 200 feet

FGL 2/58

OFFICIAL FILE COPY
D M E A
RECEIVED MAR 31 1958
DATE | INITIALS | CODE

OFFICIAL FILE COPY
D M E A
RECEIVED MAR 31 1958
DATE | INITIALS | CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 3 POST OFFICE BLDG.
WASHINGTON 25, D. C.
KNOXVILLE 2, TENN.

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 2 1958

DATE	INITIALS	CODE
1/2/58	C	220
		600

December 30, 1957

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Application on Banner Mine, Yancey County, N.C.
Our Memo dated December 20, 1957.

Please attached this map to the application sent your office December 20, 1957. This map was received today from Frank W. Phillips, the applicant.

V. J. Lynch

V. J. Lynch

zm

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/2	Anderson	600
1/3	Selfridge	130
1/3	Hopes	130
1/3	Kilsgaard	130
	Ahrents	110
3	Mittendorf	100
		220

600

JAN 6 1958

Mitchell Lumber Co., Inc.
c/o Mr. Frank W. Phillips
Spruce Pine, North Carolina

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina

Gentlemen:

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

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

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

WCAnderson:gad 1/2/58
Copy to: Admr. R. File
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/2	Anderson	600
1/3	GCS	130
	Absents	110
3	Mitchenson	100
1/6	C	220
		600

600

JAN 6 1958

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

Re: Docket No. DMEA-4901-Mica
Mitchell Lumber Co., Inc.
Banner Mine
Mitchell County, North Carolina

Dear Mr. Laurence:

Please review the subject application and arrange for a field examination if you deem it necessary. We have indicated the property as being in Mitchell County as the lease, Consent to Lien and Subordination Agreement, and map so state.

Copies of memoranda dated December 26 and 30, 1957, by Mr. N. E. Nelson, USGS, and Mr. Milford L. Skow, USBM, respectively, relating to the project are enclosed. There is also enclosed a copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (DHB)

Approved:

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

Thor H. Kiilsgaard (DHB)
Member, Geological Survey

WCAnderson:gad 1/2/58
Copy to: Admr. R. File
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

Enclosures 5

8623

IN REPLY REFER TO:

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

December 26, 1957
Re: DMEA 4901
Frank Phillips
Banner Mine
Yancey County, North Carolina
$30,316.00 - Mica

Memorandum

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

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

Subject: Review of application

The applicant requests assistance in exploring by shaft a pegmatite reported to be mica-bearing, but which due to water has been but partially explored. The property adjoins the Sink Hole Mine property, and the pegmatite is probably a parallel or en echelon occurrence.

Four diamond drill holes have been drilled into the pegmatite, but no estimate is made of the mica content.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 27 1957
DATE | INITIALS | CODE
12/27 | C | 220
600

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

December 23, 1957

Mitchell Lumber Company, Inc.
Spruce Pine, N. C.

Gentlemen:

Subject: DMEA-4901

Your application for exploration assistance, dated December 18, 1957 submitted to our office at Knoxville, Tennessee has been assigned Docket Number DMEA-4901 and referred to the NonMetallic Minerals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region V

L FILE COPY
ME A
DEC 31 1957
INITIALS CODE
12/31 C 220
600

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

December 30, 1957

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Acting Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4901 (mica)

Applicant: Mitchell Lumber Co. Inc.

Name and Location of Property: Banner Mine, Yancey County, N. C.

Date Application Rec'd. by Br. of Ceramic & Fertilizer Mtls. 12/24/57

Comments:

1. This is an old prospect with a production history dating back to 1890.

2. Apparently the mine has not been extensively worked as the deepest workings are at 35 feet and drilling shows pegmatite as deep as 327 feet.

3. Applicants wish a $30,316.00 loan which is somewhat higher than equivalent DMEA projects.

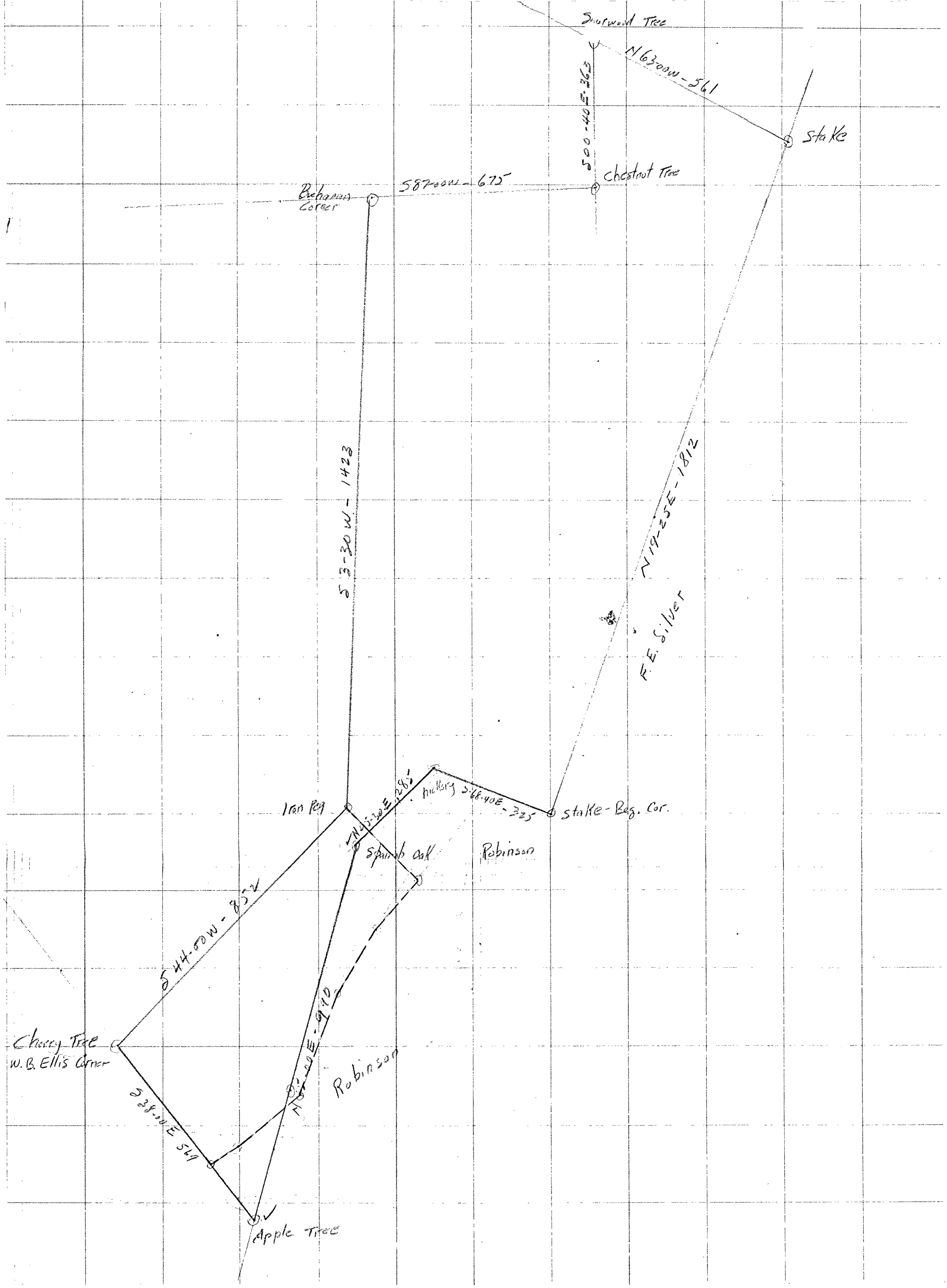
4. This deposit appears to have possibilities for the development of strategic mica.

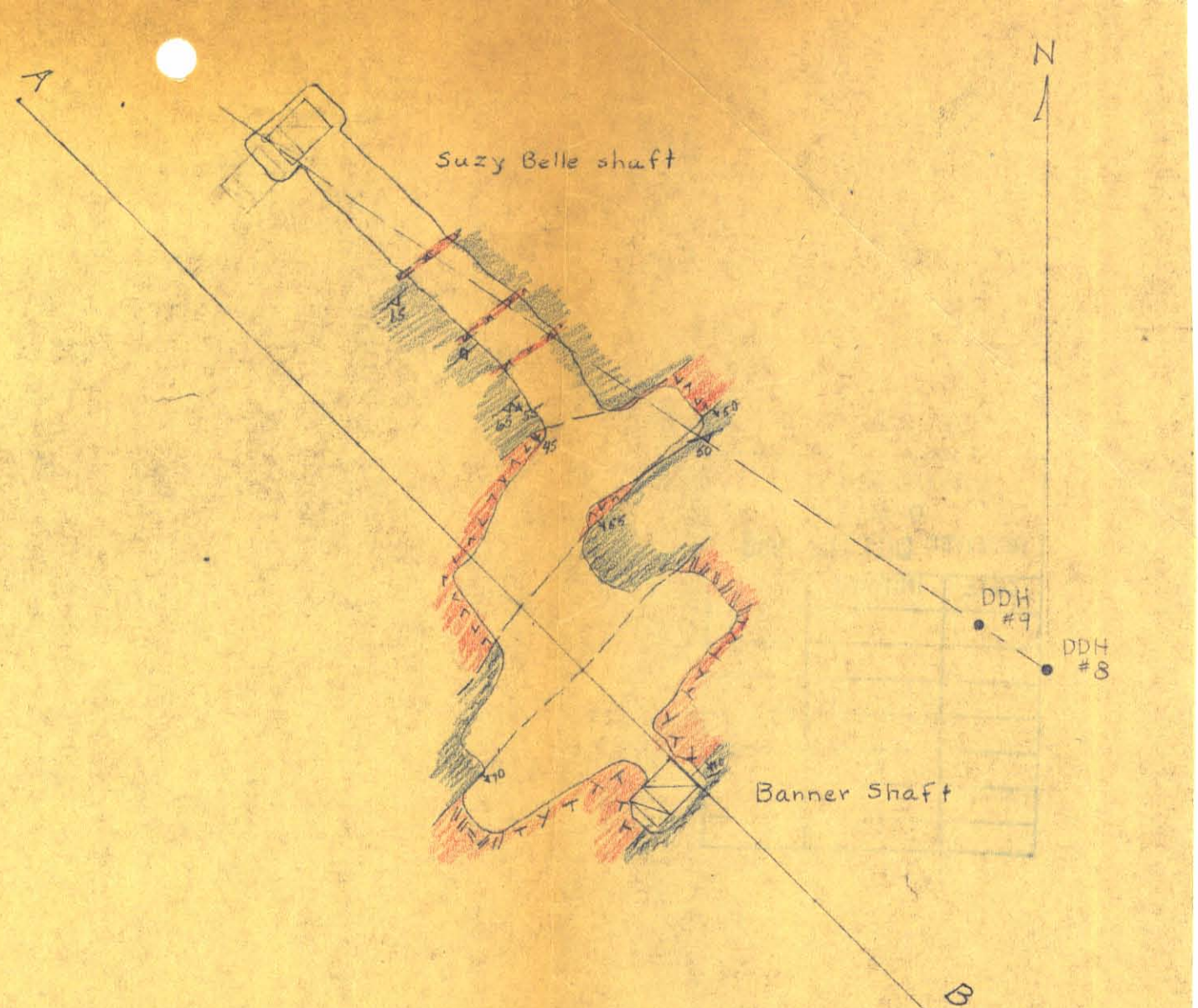
Recommendation:

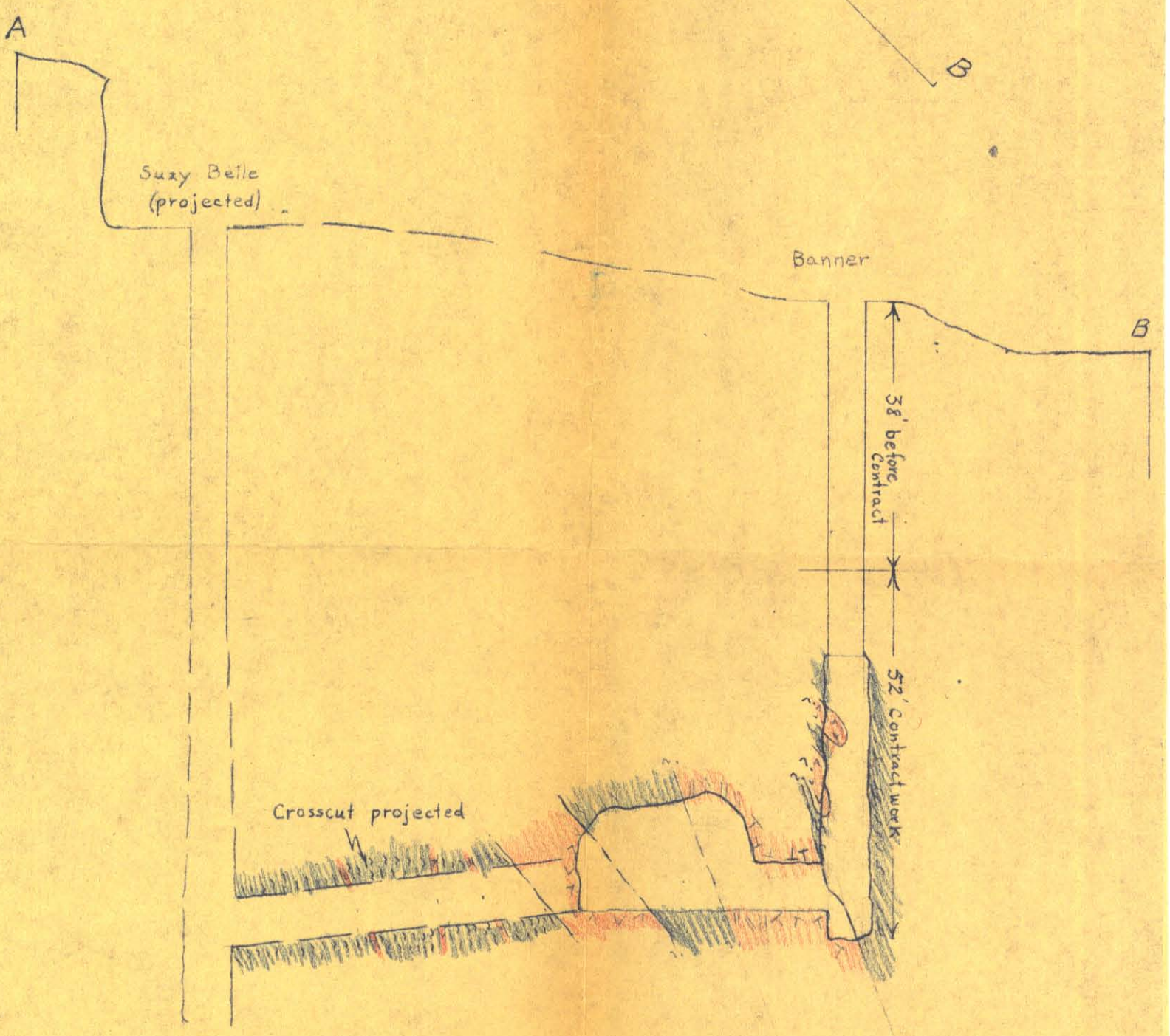
It is recommended that the field team visit this mine when in that vicinity to ascertain if an exploration project is justified. If so, the field team and applicant should agree on a definite plan of exploration on a unit-cost basis.

Milford L. Skow

Milford L. Skow


Sourwood Tree
N 63-00W - 561
S 00-40E - 362
Stake
Chestnut Tree
S 87-00W - 675
Buchanan Corner
S 3-30 W. - 1423
N 19-25E - 1812
F.E. Silver
Iron Pin
N 45-30E 28'
Hickory S-68-40E - 325
stake - Beg. Cor.
Spanish oak
Robinson
S 44-00W - 8
Cherry Tree
W.B. Ellis Corner
S 38-00E 569
Robinson
Apple Tree





Explanation

- Muscovite
- Perthite-plagioclase-quartz pegmatite
- Plagioclase-perthite-quartz-muscovite pegmatite
- Mica gneiss
- Contact showing dip
- Strike & dip of foliation & plunge of lineation

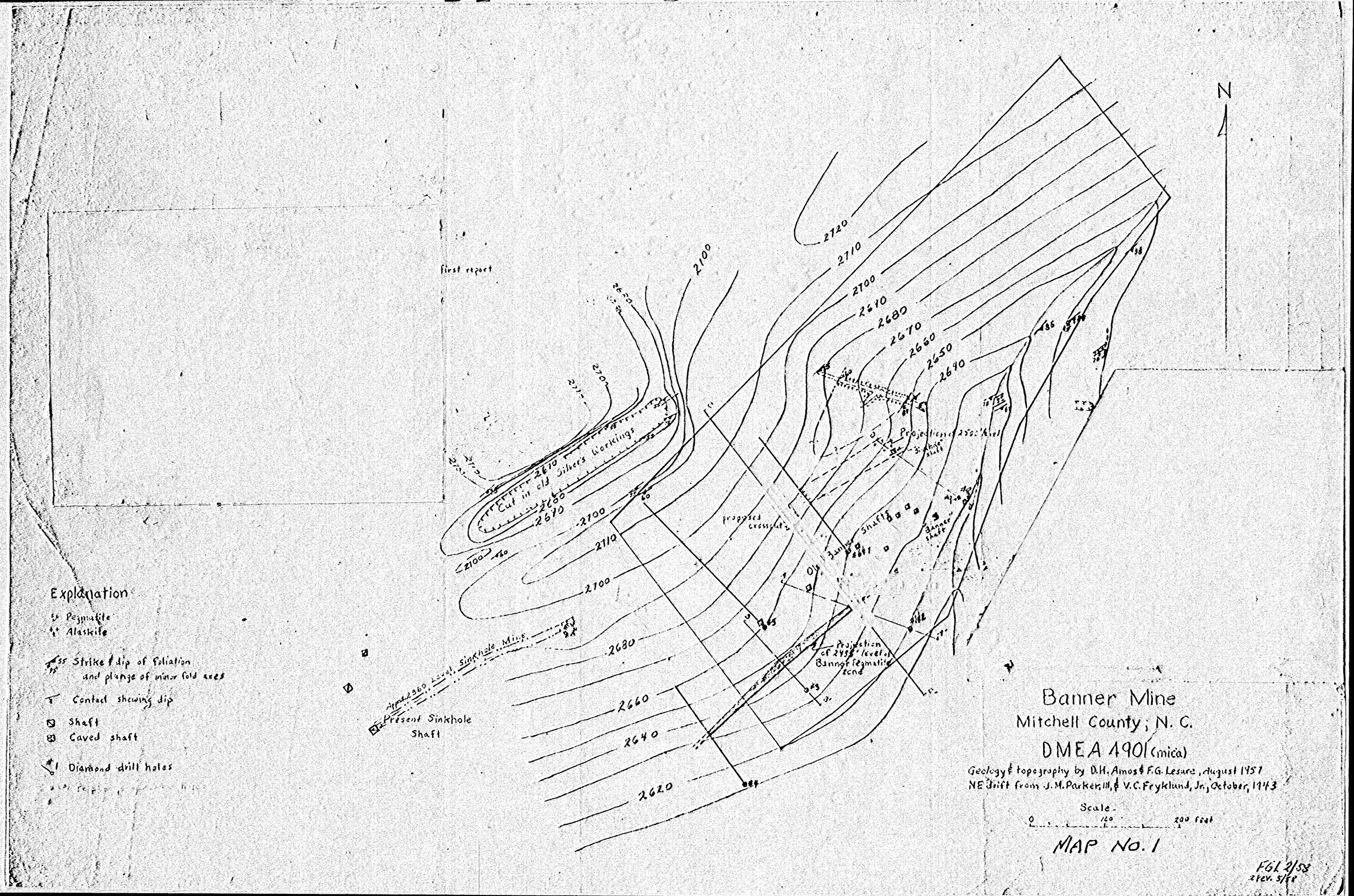
Banner Mine

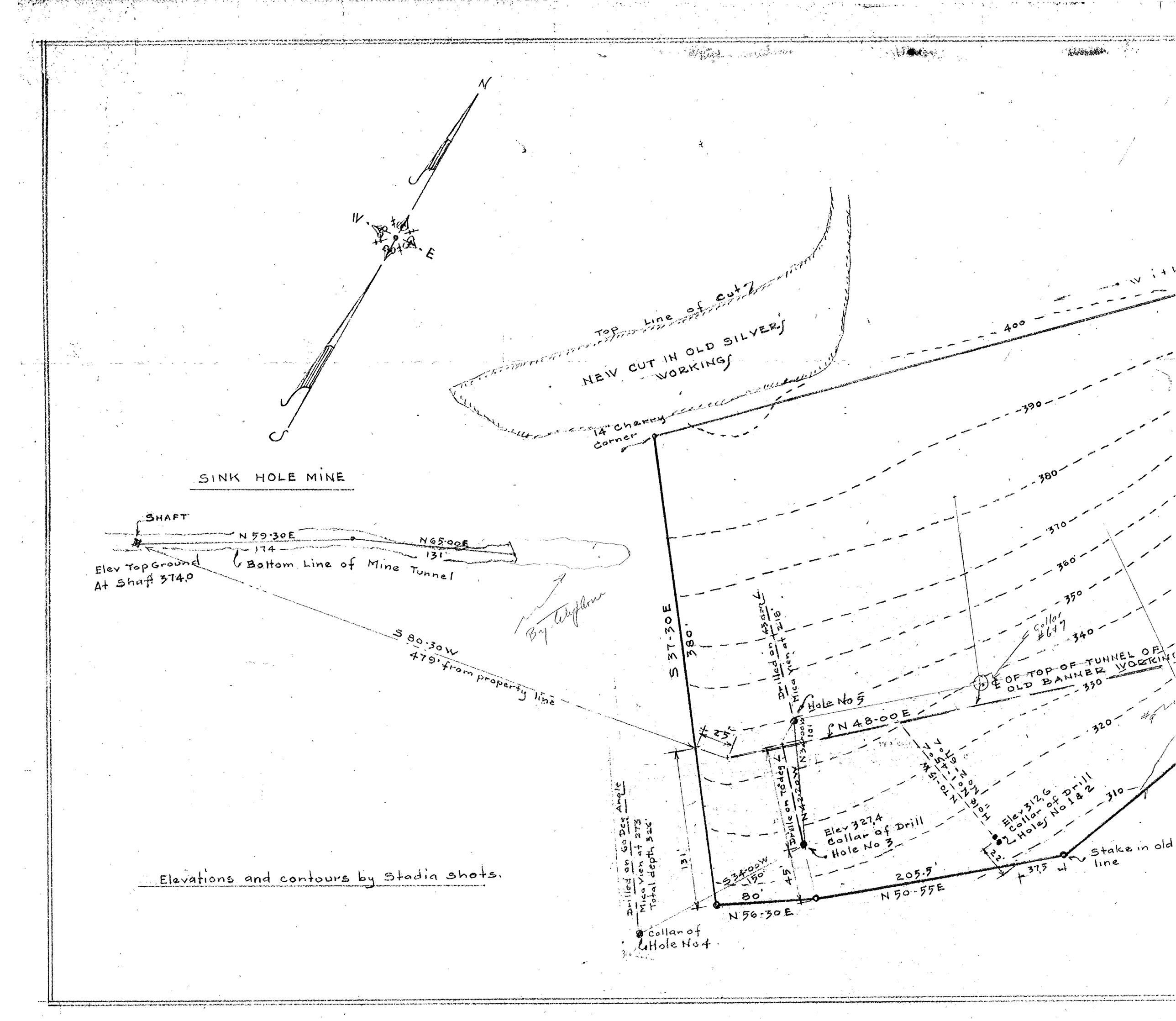
Mitchell County, North Carolina

DMEA-4901

0 10 20 40 Feet

FGL 10/58


N
first report
2720
2710
2700
2690
2680
2670
2660
2650
2640
2100
2670
2680
2690
2700
2710
2670
Cut in old Silvers Workings
2650
2670
2100
2100
2110
2100
2680
2660
2640
2620
proposed crosscuts
Projection of 2450' level
Shaft
Old Junior Shaft
Banner shaft
Projection of 2455' level of Banner Pegmatite zone
Approx. 2960 Level Sinkhole Mine
Present Sinkhole Shaft
Explanation
Pegmatite
Alaskite
Strike & dip of foliation and plunge of minor fold axes
Contact showing dip
Shaft
Caved shaft
Diamond drill holes
Banner Mine
Mitchell County, N. C.
DMEA 4901 (mica)
Geology & topography by D.H. Amos & F.G. Lesure, August 1957
NE drift from J.M. Parker III, & V.C. Frykland, Jr., October, 1943
Scale
0
100
200 feet
MAP No. 1
FGL 2/58
2 rev. 5/58


N
W
E
SINK HOLE MINE
Top Line of cut
NEW CUT IN OLD SILVER'S WORKINGS
14" Cherry Corner
SHAFT
N 59-30E
174
N65-00E
131
Elev Top Ground At Shaft 374.0
Bottom Line of Mine Tunnel
By Telephone
S 80-30W
479' from property line
S 37-30E
380'
Drilled on 45 Dec Angle
Mica Vein at 218
Hole No 5
N 48-00E
25'
Drilled on Today
N 42-00W
101
Drilled on 60 Dec Angle
Mica Vein at 273
Total depth 326'
131'
Collar of Hole No 4
S 34-00W
150
80'
45'
N 56-30E
205.5'
N 50-55E
Elev 327.4
Collar of Drill
Hole No 3
Elev 312.6
Collar of Drill
Holes No 1 & 2
22'
37.5
Stake in old line
Collar #647
℄ OF TOP OF TUNNEL OF OLD BANNER WORKING
Elevations and contours by Stadia shots.
400
390
380
370
360
350
340
330
320
310