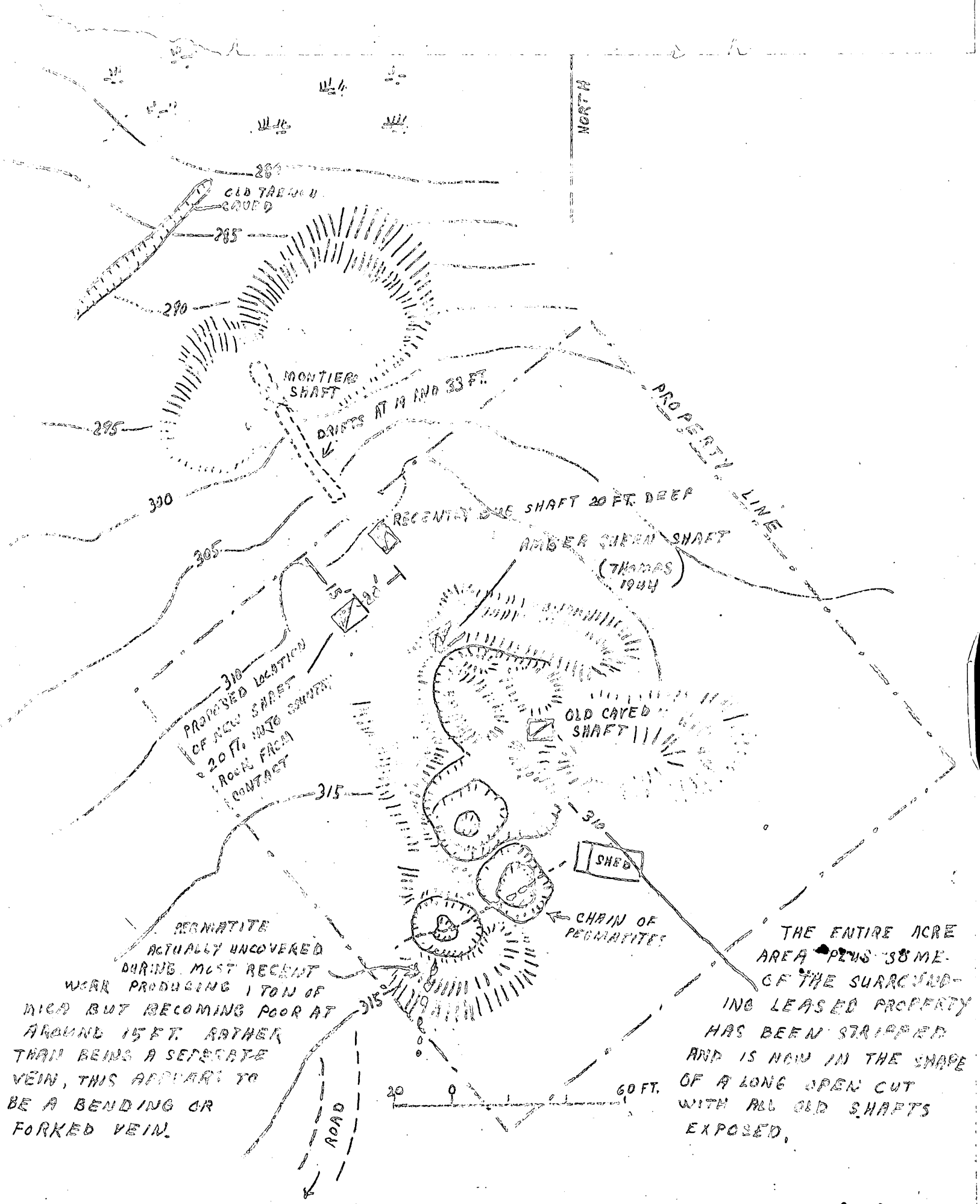

THIS MAP IS COPIED FROM USGS MAP PLATE 14 PAPER 248 WITH ADDITIONS

MF-203
Revised March 24, 1955

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

CONSENT TO LIEN

COPY

To the United States of America:

Referring to that certain land in the County of Goochland, State of Virginia, described as follows:1/

A piece of land being part of the "Monterey" tract lying in Montana and presently owned by Robert L. Samuels, his wife Mary S. Samuels. Said piece of land [illegible] strip completely surrounding the ore deposit area [illegible] Montana Queen Mine, all being located in the Helena Mining District, Broadwater County.

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;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

None

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

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

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

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

Dated this 7th. day of November, 1955.

Wm Townsend [Seal]

Robt L Samuel [Seal]

Mary S. Townsend [Seal]

I, W. D. Baltzley certify that I am the President (Secretary, etc.) of the corporation named herein; that W. D. Baltzley who signed this agreement was then President (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.

W. D. Baltzley [Corporate Seal]

MF-203
Revised March 24, 1955

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EXPLORATION PROJECT CONTRACT
Operator_____
Docket No. DMEA-_____
Contract No. Idm-E_____
Contract Date_____

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Goochland, State of Virginia, described as follows:1/

a piece of land being part of the "Montrose" tract formerly owned by F.E. Montbeis and presently owned by Robert L. Samuel, W.N. Lawson and his wife Mary S. Lawson. Said piece of land amounting to a 200 ft. wide strip completely surrounding the one acre area known as the "Amber Queen Mine," all being located in the Fluvanna District, Goochland County, Va.

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--

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RECEIVED
NOV - 3 1955

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5. Added provision: _____

Dated this 7th. day of November, 1955.

W. W. Townsend [Seal]

Robt. L. Samuel [Seal]

Mary S. Townsend [Seal]

I, W. D. Baltzley certify that I am the President (Secretary, etc.) of the corporation named herein; that W. D. Baltzley who signed this agreement was then President (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.

W. D. Baltzley

[Corporate Seal]

MF-203
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator_____
Docket No. DMEA-_____
Contract No. Idm-E_____
Contract Date_____

CONSENT TO LIEN

COPY

To the United States of America:

Referring to that certain land in the County of Goochland, State of Virginia, described as follows:1/

a piece of land being part of the "Montrose" tract formerly owned by F. R. Monteiro and presently owned by Robert L. Samuel, W. N. Lawrence, his wife Mary S. Lawrence. Said piece of land amounting to 200 ft wide strip completely surrounding the one acre area known as the "Amon Green Mine" and being located in the Lickinghole district, Goochland County, Va.

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RECEIVED
NOV - 3

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Robt. L. Samuel [Seal]

Mary S. Townsend [Seal]

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W. D. Baltzley

[Corporate Seal]

MF-203
Revised March 24, 1955

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EXPLORATION PROJECT CONTRACT
Operator_____
Docket No. DMEA-_____
Contract No. Idm-E_____
Contract Date_____

CONSENT TO LIEN

COPY

To the United States of America:

Referring to that certain land in the County of Goochland, State of Virginia, described as follows:1/

a piece of land being part of the "Montrose" tract formerly owned by F. K. Martin and presently owned by Robert L. Samuel, W. N. Townsend his wife Mary S. Townsend. Said piece of land amounting to a 200 ft. wide strip completely surrounding the one acre known as "Arthur Queen Tract", all being located in the Fitzwaughs District, Goochland County, Va.

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--

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RECEIVED NOV - 9 1955

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Robt. L. Townsend [Seal]

Mary S. Townsend [Seal]

I, W. D. Baltzley certify that I am the President (Secretary, etc.) of the corporation named herein; that W. D. Baltzley who signed this agreement was then President (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.

W. D. Baltzley

[Corporate Seal]

MF-203
Revised March 24, 1955

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EXPLORATION PROJECT CONTRACT
Operator _____
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A piece of land being part of the "Montrose" tract formerly owned by F. K. Montrose and presently owned by Robert L. Samuel, W. M. Lawrence and his wife, Mary S. Lawrence. Said piece of land amounts to a 200 ft. wide strip completely encircling the one acre area known as the "Anthony Queen" Mine, and being located in the Fielding Lake District, Goochland, Va.

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RECEIVED
NOV 9 1955

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Robt. L. Samuel [Seal]

Mary S. Townsend [Seal]

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[Corporate Seal]

MF-203
Revised March 24, 1955

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EXPLORATION PROJECT CONTRACT
Operator _____
Docket No. DMEA- _____
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Contract Date _____

CONSENT TO LIEN
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RECEIVED
NOV - 8 1955

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5. Added provision: _____

Dated this 7th. day of November, 1955.

W. N. Townsend [Seal]

Robt. L. Samuel [Seal]

Mary S. Townsend [Seal]

I, W. D. Baltzley certify that I am the President (Secretary, etc.) of the corporation named herein; that W. D. Baltzley who signed this agreement was then President (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.

W. D. Baltzley

[Corporate Seal]

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

600

DOCKET COPY
Surname:
Anderson
Houk
Noted: Kiilsgaard
Noted: Geehan
Selfridge
Fellmann

APR 17 1956

Piedmont Mining Company

Powhatan, Virginia

Re: Docket No. DMEA-4012-Mica
Piedmont Mining Company, Inc.
Amber Queen Mine
Goochland County, Virginia

Gentlemen:

Your application for aid for an exploration project and other reports available to us in Washington, relating to the subject property, have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information indicates to us that the probability of disclosing significant reserves of mica is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

WCAnderson:ms 3/5/56
Copy to: Docket
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Anderson
Admr. R. File

R.C.S.

UNITED STATES
DEPARTMENT OF THE INTERIOR
EXPLORATION
DEFENSE MINERALS/ADMINISTRATION
~~WASHINGTON 25, D.C.~~
College Park, Maryland

RECEIVED
APR 9 - 1956

April 6, 1956

Memorandum

To: Geo. C. Selfridge, Chairman, DMEA Operating Committee

From: Mining Engineer, Eastern Experiment Station

Subject: Docket No. DMEA-4012 (Mica) - Piedmont Mining Company, Inc.
Amber Queen Mine, Goochland County, Virginia

The letter of the Operating Committee dated March 20, 1956 requesting further consideration of the subject application has been referred to this office.

The Docket has been reviewed again by the examining engineer and geologist independently with each preparing a separate memorandum on the subject, followed by a discussion in this office.

Copies of comments by both Mr. Burmeister and Dr. Hanley are enclosed.

As pointed out in comments by the Field Team's examining engineer and geologist, the comments by the Nonmetallic Division do not reflect the true interpretation of the deposit as described in the examination report. Furthermore, there are always problems in underground explorations, but in the case of the subject application, the problems have been anticipated and provided for in the revision of the application submitted with the Field Team's examination report.

As for a significant discovery, the work proposed in the application is exploratory work consistent with the purpose of the DMEA. This exploration might not develop into a commercially successful operation, but that is a hazard provided for in the Defense Program.

The conclusions and recommendations by the examining engineers are based on facts and logical interpretation of indications.

I concur with the decision of the examining engineer and geologist.

W. T. Millar

Attachments

W. T. Millar

cc: J.B.Hanley
V.J.Lynch
R.A.Laurence

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
U. S. Geological Survey Bldg.
Agricultural Research Center
Beltsville, Maryland

RECEIVED
APR 9 - 1956

April 5, 1956

Memorandum

To: Harry Burmeister, U. S. B. M.

From: Jack Hanley, U. S. G. S.

Subject: Selfridge - Anderson letter to R. A. Laurence re Docket No. DMEA-4012, Amber Queen mine.

Here are some thoughts on the problem raised by this letter. First, let's correct Anderson's mistakes or misinterpretations.

1. "Only 40 feet of unexplored ground" is not the same as "at least 40 feet of favorable ground". The change in wording switches the 40 feet from a minimum (our way) to a maximum (his way). Anyhow, we were conservative as about 53 feet is nearer right.

2. "The adjacent Monteira pegmatite --- has possibilities of pinching out in depth." This is true, all pegmatites probably pinch out in depth, but why the omission of any mention of the blind pegmatite -- up to 5 feet thick -- exposed by the bottom of the Monteiro shaft.

The pumping problem is a legitimate objection to the proposal, but that is the Operating Committee's decision, not mine!

Sinking the proposed shaft on the pegmatite should be avoided for these reasons, in addition to those expressed in the first report:

1. A shaft would have to be sunk through caved workings for at least the first 50 feet in depth.

2. A shaft on the pegmatite would be hard to sink and to maintain as weathering extends to greater depths along the contact of the pegmatite and the wall rock than in either of these rocks away from the contact. Any shaft would have to straddle both the footwall and hanging wall contacts because of the thickness of the pegmatite.

3. A shaft on the pegmatite would require a shaft pillar that would reduce the ground available for mining, and hence the possibility of significant production.

As a rough estimate of the economics of the proposal I worked out the following: Assuming that the exploration will open up mica-bearing pegmatite at the drift level, which is geologically probable inasmuch as the new Amber Queen shaft was in mica-bearing pegmatite only 25 feet above the proposed level, it seems reasonable to postulate that an average 2.5-foot thickness of this pegmatite might be available for a strike length of 170 feet and that about 53 feet of unmined pegmatite would be in place between the sill of the proposed level and the mined out ground above the 52-foot level of the New Amber Queen shaft and the 33-foot level of the Monteiro shaft (see fig. 2). Under these conditions the exploration should develop about 1800 tons of pegmatite containing at least 4.5 percent of mine-run mica. If we assume that 80 percent of the mine-run mica can be recovered by hand cobbing, then the total recovery will be about 65 tons of hand-cobbed mica worth $600 a ton, and the possible dollar value from this exploration would be nearly $40,000.

Baltzley's experience with this property in 1954 and 1955 suggests that this figure might be low as his recovery of sheet has been 2 percent higher than the World War II recovery.

I do not know whether this dollar value would be enough to encourage DMEA to go ahead or not, but I do know that any exercise of arithmetic like this means nothing and that the only way to find out how much mica is in this property is to mine it out!

Jack H.

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

RECEIVED
APR 9 - 1956

Memorandum

April 3, 1956

To: W. T. Millar

From: H. L. Burmeister

Subject: Docket No. DMEA 4012, Piedmont Mining Co. Amber Queen Mine, Goochland County, Va.

Reference is made to the Operating Committee's letter of March 20th to the Executive Officer, Region V, and his reply of March 28, 1956. Further reference is made to the March 28 memorandum from Mr. Lynch at Knoxville, to Mr. W. T. Millar, College Park, requesting review of the subject application with the examiners.

At the time of examination approximately one foot of clay mud covered the area shown in Fig. 2 of the examination report. The trench shown in plan and in Sect. B-B', Fig. 2, was excavated by the Applicant who informed the engineer that the pegmatite near the proposed shaft site dipped at a very high angle to the southwest. This could not be checked due to mud covering pegmatite in the trench bottom.

A shaft is not usually sunk in the hanging wall but was so located in this instance for special reasons: (1) To eliminate a costly and in this case unnecessary crosscut, (2) To sink in a wall more stable than the weak pegmatite, (3) To take advantage of the probably nearly barren area of the pegmatite at this point as a pillar for shaft protection without losing potentially valuable stoping ground. Section A-A', Fig. 2, clearly indicates the trend of mica-bearing shoots and also the fact that no crosscut is shown or anticipated. Section B-B' indicates the probable dip of the pegmatite and its relation to the shaft.

Provision has been made for tight oak cribbing to be used the entire depth of the shaft to insure as far as possible long-term safety and stability. No danger to lives is anticipated or was mentioned in the examination report. Quantity of water flow into new workings is highly problematical and is predictable only to a degree by experience and judgment. In my opinion the increased pump capacity provided for in the revised cost data and the availability of the Operator's air turbine pump for peaks will care for the pumping needs of this exploration.

Mr. W. C. Anderson of the Washington office telephoned me several times about two weeks previous to his dictation of the referenced Operating Committee's letter to Mr. Laurence. During these conversations all of the above points were reviewed substantially as here outlined.

H. L. Burmeister

H. L. Burmeister

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

March 28, 1956

RECEIVED
MAR 30 1956

Memorandum

To: Operating Committee, DMEA, Washington 25, D. C.

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

Subject: Docket No. DMEA-4012 (Mica)
Piedmont Mining Company, Inc., Powhatan, Virginia
Amber Queen Mine, Goochland County, Virginia

Reference is made to your letter of March 20:

We have referred your letter to Mr. W. T. Millar at College Park for further comment, as no one from this office has seen the Amber Queen mine.

The examiners' report states that "The proposed shaft has a reasonable chance on the basis of the known geology, of opening up a new area of mica-bearing pegmatite" (page 2); "The applicant's proposal * * * appears to be sound on the basis of the known facts about the geology" (page 3); "The success of the exploration will depend to a large degree on the cost of pumping, as geologically the proposal appears to have a reasonable chance of discovering mica-bearing pegmatite" (page 3); and "The examiners agree that the applicant's proposal is agreeable in all but two points" (page 8).

The report clearly shows that the examiners, both of whom are familiar with the district and experienced in pegmatite work, gave considerable thought to the possibility of the pegmatite pinching out, and to the water problems. After due consideration of these points, they recommended approval. Under the circumstances, we are inclined to string along with the examiners' first-hand judgment.

Both Mr. Hanley and Mr. Burmeister can be reached by a local telephone call in Washington; we suggest that you contact them directly for further information on this application.

Robert A. Laurence
Robert A. Laurence
Executive Officer

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

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

March 28, 1956

Memorandum

To: Operating Committee, DMEA, Washington 25, D. C.

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

Subject: Docket No. DMEA-4012 (Mica)
Piedmont Mining Company, Inc., Powhatan, Virginia
Amber Queen Mine, Goochland County, Virginia

Reference is made to your letter of March 20:

We have referred your letter to Mr. W. T. Millar at College Park for further comment, as no one from this office has seen the Amber Queen mine.

The examiners' report states that "The proposed shaft has a reasonable chance on the basis of the known geology, of opening up a new area of mica-bearing pegmatite" (page 2); "The applicant's proposal * * * appears to be sound on the basis of the known facts about the geology" (page 3); "The success of the exploration will depend to a large degree on the cost of pumping, as geologically the proposal appears to have a reasonable chance of discovering mica-bearing pegmatite" (page 3); and "The examiners agree that the applicant's proposal is agreeable in all but two points" (page 8).

The report clearly shows that the examiners, both of whom are familiar with the district and experienced in pegmatite work, gave considerable thought to the possibility of the pegmatite pinching out, and to the water problems. After due consideration of these points, they recommended approval. Under the circumstances, we are inclined to string along with the examiners' first-hand judgment.

Both Mr. Hanley and Mr. Burmeister can be reached by a local telephone call in Washington; we suggest that you contact them directly for further information on this application.

Robert A. Laurence
Executive Officer

V. J. Lynch, Member
Bureau of Mines

RAL/mg
cc - Operating Committee (2)
Mr. W. T. Millar
Mr. John B. Hanley
Mr. V. J. Lynch
Files

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

March 28, 1956

Memorandum

To: W. T. Miller, Mining Engineer - College Park, Md.

From: V. J. Lynch, Member - DMEA Field Team

Subject: DMEA-4012, Amber Queen Mine, Goochland County, Virginia

Enclosed is a copy of a letter from the Operating Committee requesting our comments on their criticism of the Field Team Examination report which recommends an Exploration contract for subject property.

We are not sufficiently familiar with this mine to make any comments from here. Will you please talk the matter over with Burmeister and Hanley and then send your comments directly to the Operating Committee

V. J. Lynch

VJL/sm

cc:
Opr. Com.
Files
Lawrence

DOCKET COPY
Surname:
Anderson
Houk
Selfridge
Johnson
Mitten

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

600

MAR 2 0 1956

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

Re: Docket [redacted]
Piedmont [redacted]
Amber Qu[redacted]
Goochlan[redacted]

Dear Mr. Laurence:

Reference is made to the Field Team Examination of [redacted]3, 1956, recommending a contract for the subject property.

We will appreciate having this application given fur[redacted] consideration. Spending $5,340.00 to sink a 100-foot shaft an[redacted] possibly 10 to 20 feet of crosscut in the hanging wall rock to [redacted] the remnants of a pegmatite having only 40-feet of unexplored g[redacted] below the old workings appears to be risky and not worthwhile. [redacted] though the mica pegmatite may continue to this depth, as postula[redacted] the geologist, it appears there is little likelihood of making a [redacted] significant discovery. The report indicates that the adjacent M[redacted] pegmatite, which has been mined down to about the 50-foot level, [redacted] possibilities of pinching out in depth.

The Field Team reports that a difficult pumping problem exists that may not be overcome and could possibly endanger lives. Therefore, we have serious doubts as to the possibility of successfully completing an exploration project. This together with the fact that the target appears to be of limited extent, indicates that the possibility is remote for making a worthwhile discovery.

We would appreciate having your comments on the above analysis and will defer further action on this application until we hear from you.

Sincerely yours,

Approved:

/s/ Robert W. Geehan (2/6)
Member, Bureau of Mines

Thor H. Kiilsgaard (2/8)
Member, Geological Survey

George C. Selfridge (2/5)
Chairman, Operating Committee

WCAnderson:ms 3/19/56
Copy to: Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Anderson
Admr. R. File

R.C.L.

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

RECEIVED
MAR - 7 1956

March 7, 1956

Memorandum

To: Walter C. Anderson, Interior Building, Room 4449

From: H. L. Burmeister, Bureau of Mines, College Park

Subject: Additional maps for DMEA 4012, Piedmont Mining Co.
Amber Queen Mine

Enclosed are seven Ozalid prints of plan and cross-sections which you requested on the subject Docket.

Sorry that delay in the printing room here has held up these prints for ten days.

H. L. Burmeister

Enclosures

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

March 5, 1956

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Evaluation of Application and Field Examination Report
Docket No. DMEA-4012-Mica
Warren D. Baltzley, et al
d/b/a Piedmont Mining Company
Amber Queen Mine
Goochland County, Virginia

Denial of Application is recommended

Mica: Clear, deep brownish olive to cinnamon brown, hard, flat and free spilling. Books average 5 inches across, scattered evenly throughout the pegmatite.

Pegmatite:
Two pegmatites. (1) Monteira-50 feet long by average 2 feet thick mined to depth of about 50 feet. Probably has pinched out. (2) Amber Queen-about 100 feet long by average 2 feet thick,mined to depth of approximately 60 feet. Both pegmatites are nearly vertical and strike north, northwest.

Old Workings:
Four old shafts located along strike of pegmatite. Drifting on several levels down to the 75 foot level. Trenching along line of shafts 200 feet long by 10 feet wide and from 10 to 20 feet deep.

Method of exploring:
100 feet of vertical shaft in country rock to the pegmatite either by intersection or crosscutting. Then 100 feet of drifts on the pegmatite. Estimated cost - $7,800.00.

Economics and Costs:
The target will be a pegmatite 40 feet from the drift to the bottom of old workings by 100 feet long by 2 feet thick (average). Report says pegmatite will yield 4.5 percent of "mine-run" mica from which 6% of trimmed punch and sheet mica can be recovered. Estimating liberally, the value of production from the target area will amount to approximately

Economics and Costs(cont'd):

$40,000.00 Five percent royalty - $2,000.00. Cost of project $7,800.00

Comments:

Sinking a 100 foot shaft and possibly, 10 to 20 feet of crosscut in the hanging wall rock to reach a pegmatite, from knife-edge to 3 feet thick having only 40 foot depth below the old workings, appears to be a risky undertaking. And the royalty from mica production, at best, would amount to only about 1/3 of Government's contribution to the project, unless larger parallel pegmatites were discovered. The record of mica production beginning 1918, shows about $25,000.00 worth, which would indicate no other pegmatites occur except the Amber Queen. The report indicates that the adjacent Montiera pegmatite, which has been mined down to about the 50 foot level, has possibilities of pinching out in depth.
There exists a serious pumping problem in connection with the proposed project. The fault zone along which the lenses occur is a very favorable channelway for the flow of ground water and it taps a standing reservoir of water. Intersecting this fault zone, by the proposed crosscut, might present a pumping problem that cannot be overcome and could possibly endanger lives.

Recommendations:

This is the type of exploration that we should try to avoid. If the mica bearing pegmatite continues in depth below the worked out portion, as is premised by the geologists, then the project seems to take on the aspect of development. Based on the size of the target and the serious water problem, the Nonmetallic Minerals Division sees no justifications for sinking a 100 foot shaft and possibly, 20 feet of cross-cutting, all in barren rock, as is recommended by the Field Team and concurred in by the Commodity Members of the Bureau of Mines and Geological Survey. We recommend denial of the application.

W. C. Anderson

W. C. Anderson,
Nonmetallic Minerals Division

IN REPLY REFER TO:

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

February 27, 1956

RECEIVED
FEB 28 1956

Re: DMEA 4012
Piedmont Mining Co.
Amber Queen Mine
Goochland Co., Virginia
$7,791.54 - 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 (100 feet) and drifting (100 feet) a pegmatite which mining had shown to be a bearer of good and perhaps relatively abundant strategic mica. The cost of the proposed work was estimated at $8,000.00.

A large amount of stripping was done by the applicant, but the surface was not cleaned up and an examination of the pegmatite was not possible. However, on the strength of the production record, the examiners conclude that deep work on the pegmatite, below the reputed lowest workings, of the old mines is warranted and recommend that work, essentially as proposed in the application, be done in two stages at a cost of $7,791.54.

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

N. E. Nelson

N. E. Nelson

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

RECEIVED
FEB 23 1956

February 21, 1956

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4012 (mica)

Applicant: Piedmont Mining Co. Inc.(W. D. Baltzley)

Name and Location of Property: Amber Queen Mine, Goochland Co., Va.

Date of Field Team Report: 2/3/56

Date Rec'd. by Br. of Ceramic & Fertilizer Materials: 2/17/56

Field Team Recommendation: Recommend an exploration program.

Comments:

1. Lease for additional area and written assurance from power company should be received before any action is taken.
2. The proposed exploration program has a reasonable chance, on the basis of known geology, of opening up a new area of mica-bearing pegmatite.
3. Total estimated costs are in the amount of $7791.54.

Recommendation: I concur with the field team's recommendation for a unit-cost, staged exploration program.

W. F. Dietrich

W. F. Dietrich

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 2076 POST OFFICE BLDG.
WASHINGTON 25, D.C.
KNOXVILLE 2, TENN.

RECEIVED
FEB 13 1956

February 10, 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Field Examination Report, DMEA-4012 (mica) Piedmont Mining Co. Inc. Powhatan, Virginia . Amber Queen Mine, Goochland County, Va.

Enclosed are four copies of the subject examination report. Approval of a contract, as outlined in the report is recommended.

The statement of intent to connect electric power, discussed on page 9 of the report, was sent to the Operating Committee, by Mr. Burmeister, on February 7.

On page 4 it is stated that the engineer was informed that copies of the lease and Consent to Lien were forwarded (by the applicant) to the Executive Officer. These papers were never received here, and it is possible that the applicant sent them directly to the Washington office. Please advise us if these have been received.

Although it is customary on mica exploration projects, to sink on the pegmatite, it does not appear practical to do so in this case, because of the old caved workings.

If more copies of the map and sections are needed for use in the contract, they may be obtained from Mr. Burmeister at College Park, who has the tracings.

Robert A. Laurence
Robert A. Laurence
Executive Officer, DMEA-Reg.V

A. L. Peyton
A. L. Peyton for V. J. Lynch
Member, Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
2-17-56
(date)

Report on Examination of Property
by
H. L. Burmeister and John B. Hanley[1]

RECEIVED
FEB 13 1956

DMEA Docket No. 4012 (Mica)
Applicant: Piedmont Mining Co. Inc.
Powhatan, Virginia
W. D. and Mavos Baltzley

- Summary -

This property was examined on Jan. 11 and 12, 1956 by the engineer. One and one-half hours were spent at the mine in company with the applicant, W. D. Baltzley. Elevations were roughly checked to corroborate the applicant's report of stripping work he has recently done. The pegmatite was entirely covered with mud but timbers of the old shafts were located and the location of the proposed shaft was marked.

Nine hours were spent with the applicant in working out a unit cost plan for the proposed exploration and in obtaining information necessary for making several sections in Figure 2. Knowing the condition of the surface and that all shafts were caved, it was considered that no purpose would be served by the geologist visiting the property.

Recent carryall stripping operations have resulted in lowering the old surface of the one-acre tract by an average of 5 or 6 feet. The deepest stripping is in a trench over 200 feet long on the line of shafts. The proposed shaft is located to be free of drainage water, intercept the pegmatite at the desired depth and ensure sinking outside caved areas.

Project costs have been reduced to a unit basis.

1/H. L. Burmeister, engineer, Bureau of Mines, and John B. Hanley, geologist, Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
2-17-56
(date)

- Conclusions -

The proposed shaft has a reasonable chance on the basis of the known geology, of opening up a new area of mica-bearing pegmatite. The very steep southeasterly plunge of the Monteiro lens may continue the pegmatite to the drift level from the proposed shaft, but the structural possibility is that the lens will pinch out in depth. Drifts along the fault zone to the northwest or southeast should intercept the deeper Monteiro lens and the Amber Queen lens, even if the shaft should bottom in barren ground. The fragmentary knowledge of the workings from the old Amber Queen shaft, plus the information of the workings made during 1943-44 from the new Amber Queen shaft and the Monteiro shaft, indicates that most of the pegmatite lenses above a 42-foot level in the proposed shaft have been mined out. The proposed drifts, nevertheless, will have at least 40 feet of favorable ground beneath the mined-out block.

Jahns states in his report that 1) such substantial recoveries of high-quality mica suggest that exploration for other pegmatite lenses might yield a satisfactory return, 2) exploration might well be extended to the northwest or southeast along the main pegmatite zone, for the results of past mining indicate that most of the pegmatite in this zone contains mica, and 3) continued mining, especially at deeper levels, will necessitate the handling of a heavy flow of ground water.

Adequate provision has been made in material and time to ensure proper underground support. It is considered necessary to employ electric power in pumping, and a contract should not be made previous to receipt of assurance in writing that the power company will make electricity available to the operator. Electric installation would be solely for the operator's account.

- Recommendations -

The applicant's proposal to sink a 100-foot vertical shaft 20 feet to the southwest of the trace of the pegmatite-bearing zone, and to drift for a total of 100 feet along this zone from the 95-foot level of the shaft appears to be sound on the basis of the known facts about the geology. The target of the exploration is not a single pegmatite but a series of of pegmatite lenses along a favorable zone; the surest exploration is a long the zone of weakness in the wall rocks, even if no pegmatite is found in the shaft bottom. The major difficulty in the proposed exploration is that provision must be made to handle economically a heavy and continuous flow of ground water as the pegmatite lenses are along a plane of weakness that is an excellent channel for ground water movement. The quantity of water which will have to be pumped cannot be estimated from the information available in advance of the exploration work. The success of the exploration will depend to a large degree on the cost of pumping, as geologically the proposal appears to have a reasonable chance of discovering mica-bearing pegmatite.

Work should be divided into two stages and the direction of drifting from the shaft made subject to Government approval.

The Field Team representatives recommend approval of this application but that approval shall be made only after receipt of written assurance from the power company that current will be furnished at the shaft if a contract is issued.

- Name and Location of Property -

The Amber Queen mine is located in the Lickinghome district of Goochland County, Va. and is reached from the extremely small village of Oilville, Va. by proceeding northwestward on Rt. 250 for a distance of

4.5 miles to its poorly marked junction with gravel road 612. At this point turn south (left) and follow 612 for 0.2 mile to its junction with gravel road 634. Follow 634 south for 1.2 miles to a clay farm road entering 634 from the left (east). Proceed eastward on the clay road about 1/2-mile to its termination at a farmhouse. The mine lies about 900 feet southeastward from the farmhouse. (Fig.1)

- Condition of Roads -

Gravel roads 612 and 634 are well kept for all-year service. In wet weather the road from 634 to the farmhouse is very slippery. A dirt farm lane leads from the farmhouse to the mine.

- Competency of Applicant and Personnel -

In August 1955 the applicant completed work under DMEA 3257 (Mica) Contract Idm-E-673. Conditions of excessive water and caving ground were competently handled. This contract was not certified but the operator has promptly remitted royalty on the small production made since work under the contract was completed.

- Applicant's Property Rights -

With the exception of the old Monteiro shaft and drifts, all the workings on this pegmatite are contained in the one-acre tract owned by the applicant. This tract was considered too small for consideration in a DMEA contract and the Washington office requested that additional ground be acquired to surround the one-acre tract.

The operator reports that he obtained a lease on a 200-foot wide strip surrounding the one acre he owns. Owners of the leased property are Mr. Robert L. Samuel, W. N. Townsend, and Mary S. Townsend. The engineer was informed that copies of the lease and "Consent to Lien" were forwarded to the Executive Officer previous to examination. Copies of neither deed

nor lease being available, it is not known whether surface rights are included. No portion of the one acre owned by the operator or of the 200-foot wide leased band around the acre, is excluded from Government royalty.

- Description of Property -

No surface facilities are now on the property. After August 1955 the operator rented equipment and conducted stripping operations on the entire surface of the one-acre tract he owns. Stripping varies in depth over the area but is deepest in a 10-foot wide trench directly on the line of shafts and former outcrop of the pegmatite. The bottom of the trench is about 20 feet below the former outcrop (Fig.2).

All shafts and, as far as known, all drifts are caved. All information available on underground workings was collected at the time of examination and added to the plan map appearing in, "Mica Deposits of the Southeastern Piedmont", Geological Survey Prof. Paper 248-C.

- Geology -

Inasmuch as the underground workings are not accessible and the old surface workings have been obscured by the applicant's attempt to strip the weathered material from the pegmatite, no field examination of the geology has been made. The applicant's exploration work in the Monteiro shaft in the spring of 1954 and in the surface stripping in 1955 did not add to the existing knowledge of the geology, but does provide an up-to-date basis for judging the yield of mica from the property. Sufficient valid information, secured during the latest period of major production, is available in a report by R. H. Jahns on pages 175 and 176 of U.S.Geological Survey Professional Paper 248-C; the following data have been abstracted from this report.

The Monteiro and Amber Queen workings are in a series of nearly vertical pegmatite lenses that strike north-northwest in a wall rock of thinly foliated quartz-mica schist along a fault or shear zone. The Monteiro

lens ranges from a knife edge to 3 feet in thickness, is about 50 feet long, and plunges very steeply southeast. The top of another pegmatite lens which was as much as 5 feet thick was exposed in the lower part of the Monteiro shaft, and similar, thin, lenticular pegmatite bodies were mined in the new Amber Queen shaft.

The feldspars in the pegmatites are kaolinized to depths of at least 30 feet, and the thinly foliated wall rocks may be highly weathered to depths as great as 75 feet as the drift on the 75-foot level of the new Amber Queen shaft was lost in caving ground.

The pegmatite in the lenses is a medium-grained aggregate of plagioclase, quartz, perthite, and muscovite. Most of the muscovite is scattered rather evenly throughout the pegmatite but a few rich concentrations have been mined. The mica books are 1 to 18 inches in size, with an average of about 5 inches. Some 65-pound books were obtained from the Amber Queen workings and three 70-pound books are reported from the main Monteiro drifts.

The muscovite is clear, deep brownish olive to cinnamon brown, and is hard, flat, and free splitting. The chief defects are hair cracks, ruling, and local faint "A" structure. Many books yielded trimmed sheets 4 by 4 inches, and some 2- to 5-inch ribbon mica has been produced. In general the quality is excellent, and nearly half the sheet mica produced during the 1943-44 operations was classed as "fair stained or better."

Mining data for a period of several months' operation in the main Monteiro pegmatite lens indicates a yield of 4.5 percent mine-run mica. Recovered trimmed punch and sheet material in the books totaled 6 percent.

The applicant has stated that his recent exploration work has resulted in a recovery of 8 percent trimmed sheet that contained 80 percent "good stained and better" quality mica. The yields of the 1943-44 operations

and of the recent exploration work are in the same order of magnitude, and are compatible with each other.

Jahns' map shows a swamp on the northwest trend of the fault or shear zone. The surface of this swamp is only 30 feet at the most below the collar of the proposed shaft. Geologically, the fault zone along which the pegmatite lenses occur is a very favorable channelway for the flow of ground water, and it taps a standing reservoir of water.

- Past Production -

Judging from the extent of workings in the Monteiro shaft there must have been considerable production of mica. The only old record states that from May 1944 to September 1944 the average monthly production of punch and sheet mica was valued at $1,248.00, on a basis of $6.00 per pound. In 1954 the applicant partially unwatered the shaft and recovered about 600 pounds of cobbed mica.

According to R. H. Jahns on page 176 of U.S.Geological Survey Professional Paper 248-C, there was produced from the old Amber Queen shaft 60,000 pounds of selected mine-run mica in the period 1916-1918. The applicant reports that in recent stripping operations he produced over 2,000 pounds of mica which resulted in a recovery of 8 percent trimmed sheet.

- Availability of Manpower, Equipment, Supplies, etc.-

Miners are available in the district but the operator considers that his crew from North Carolina has superior ability. All equipment for the projected work is owned by the applicant and necessary supplies are easily available. Electric power is in use at a farmhouse about 300 yds. from the mine. The wage scale for men of adequate ability is $1.40 per hour.

- Applicant's Proposal -

The applicant proposes to sink a 2-compartment, 100-foot vertical shaft, 5' x 7' outside of cribbing. The applicant's map indicates the proposed shaft location as 20' southwest of the recently dug but now caved 20-foot shaft on the pegmatite vein and 15' inside the northwest property line of the one-acre tract owned by the applicant. The applicant further proposes to drive 5' x 7' drifts and/or crosscut a total of 100 feet from the 95-foot level of the shaft, leaving a 5-foot sump. Direction of drifting is not specified.

The examiners agree that the applicant's proposal is agreeable in all but two points:1) an electric pump must be used below the 25-foot level and 2) the cost structure required revision. Direction of drifting can best be determined when the pegmatite is encountered by the shaft or crosscut and should be made subject to Government approval.

- Exploration Project -

The applicant agrees to start work within 30 days after date of contract and complete the project within 12 months. It is considered probable that work could start 15 days after date of contract and be completed in 4 months under normal conditions.

- Description of Project -

The examiners believe that if this application is approved the contract terms should include the following conditions:

1. The two-compartment shaft shall have its longer dimension on an approximate northeast and southwest line with the hoisting compartment on the northeast end. The northeast end of the shaft shall be 20 feet southwest of the nearest point of the 20-foot caved shaft and the northwest wallplate shall be 20 feet inside the one-acre property line. This location is chosen to avoid drainage in the trench, ensure sinking in undisturbed ground and have the shaft intersect the pegmatite at the approximate 90-foot level. (Fig.2)
2. Direction of drifting to be subject to Government approval.
3. The shaft shall be 5' x 7' outside the 2" x 8" oak cribbing; divider cribbing shall be used as provided for.
4. Drifts and crosscuts to be a minimum of 5' x 7' inside round oak timbers and adequately lagged as provided for.
5. Substitution of the engineer's unit cost proposal for the operator's cost data.

It is believed that a contract should not be issued until written assurance has been received from the power company that lines will be connected if a contract is made. This action is considered necessary in view of the applicant's previous experience with water under similar conditions. The applicant is at this time negotiating with the power company. Cost of power installation would be entirely for the applicant's account.

- Allowable Cost of Project -

It was considered advisable to divide the work and costs into two stages.

STAGE I Shaft Sinking

Independent contracts - None

(Basis for Costs)

100' shaft @ 1.5 per day of 8 hrs. = 67 days
67 shifts @ 8 hrs. = 536 hrs.
67 working days @ 6 days per week = 2.5 months

Labor, Supervision

1 -	hoistman	536 hrs. @ $1.40	$750.40	
1 -	laborer	536 hrs. @ 1.40	750.40	
1 -	driller	536 hrs. @ 1.40	750.40	
1 -	supervisor	268 hrs. @ $2.00	536.00	$ 2,787.20

27.87

Operating Equipment (Use Cost)
Owned by Operator

1 -	105 c.f.m. gasoline air compressor 2½ mo. @ $60 Cost $3600 Jan.1953, depreciate 5 yr.	$150.00	
1 -	Gasoline hoist, 2½ mo. @ $19.00 Cost $1100 Jan.1953, depreciate 5 yr.	47.50	
1 -	Air sump pump, 1 mo. @ $15.00 Cost $360 Jan. 1953, depreciate 2 yr.	15.00	
1 -	Electric pump 2 mo. @ $21.00 Cost $1250 1954, depreciate 5 yr.	42.00	
2 -	Jackhammers 2 mo. @ $11.10 Cost $700-1951, depreciate 5 yr.	22.20	291.70 2.92
	Air & water pipe & hose (Use)	10.00	
	Drill steel, bits, blasting machine, valves, small tools	75.00	0.75
	Hoisting frame, hoisting cable, bucket	50.00	416.70
			$3,203.90

Stage I - continued		$ 3,203.90
Operating Materials and Supplies		
7300 b.f. 2" x 8" oak cribbing & divider @ $80/M	$584.00	604.00
Nails and hardware for shaft	20.00	
Powder and detonators (dynamite @ $32.00, detonators @ $0.20)	65.00	
Electric power 2½ mo. @ $40.00	100.00	
1005 gals. gasoline @ $0.30 @ 50 qts. oil @ 25¢	314.00	1,083.00
Rehabilitation of Equipment		
Repair to pump & motor	$ 50.00	50.00
Miscellaneous		
F.I.A. @ 2% on $2787.20 payroll	$ 55.74	
Unemployment Ins. @ 0.1% on $2787.20	2.79	
State accident Ins. @ 4.0% on $2787.20	111.48	170.01
		$ 4,506.91
Contingencies @ 5% - $225.30		225.30
Total Stage I		$ 4,732.21

Unit Cost per foot shaft sinking - $47.30

4730
612
5342

STAGE II Drifting and Crosscutting

Basis for Costs

100' @ $2.5 per day (or shift) of 8 hrs.	=	40 days
40 shifts of 8 hrs.	=	320 hrs.
40 working days @ 6 days per week	=	1.5 months

Independent Contracts - None

Labor, Supervision

1 hoistman 320 hrs. @ $1.40	$448.00		
1 laborer 320 hrs. @ 1.40	448.00		
1 driller 320 hrs. @ 1.40	448.00		
1 supervisor 160 hrs. @ $2.00	320.00	$1,664.00	16.64

Operating Equipment (Use Cost)

Owned by operator. Use same depreciation as in Stage I

1 - 105 c.f.m. gasoline compressor 1.5 mo. @ $60.00	$ 90.00		
1 - Gasoline hoist, 1.5 mo. @ $19.00	28.50		
1 - Electric pump, 1.5 mo. @ $21.00	31.50		
2 - Jackhammers, 1.5 mo. @ $11.10	16.65		18.165
Air & water pipe & hose (in shaft & tunnel)	15.00		1.82
Drill steel, bits, blasting machine, valves, small tools	80.00		0.80
Hoisting frame, hoisting cable, bucket	25.00	286.65	
		$1,950.65	

Stage II - Continued		$1,950.65

Operating Materials & Supplies

3 cords 8" round timber (posts, caps) @ $18	$ 54.00	
3600 b.f. 2" oak lagging @ $80	288.00	3.42
Powder 600 lbs. @ $32.00 and		2.72
400 detonators @ $0.20	272.00	
Electric power 1.5 mos. @ $40	60.00	
600 gal. gasoline @ 30¢ and 30 qtz.oil @ 25¢	187.50	1.88 861.50

Miscellaneous

F.I.A. 2% on $1664.00 payroll	$ 33.28	
Unemployment Ins. @ 0.1% on $1664.00	1.66	
State Accident Ins. @ 4.0% on $1664.00	66.56	101.50 / 1.02
		$2,913.65
Contingencies @ 5% on $2,913.65	$145.68	145.68
Total Stage II		$3,059.33

Unit Cost per foot, Drifting & Crosscutting $30.59

Total Project - $7,791.54

1947.88

5843.65

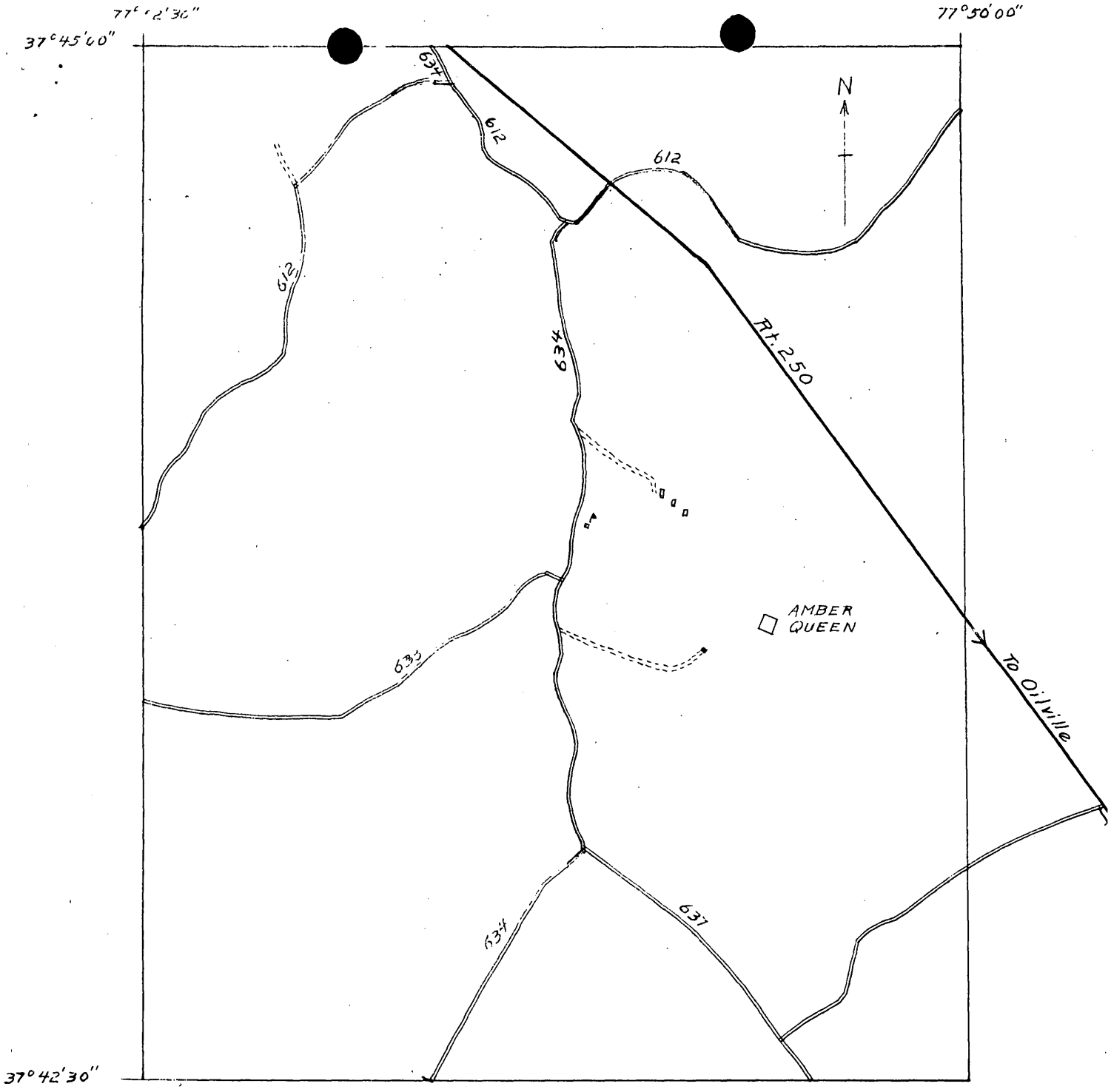
3060.20

6120.00

H. L. Burmeister, Engineer
Bureau of Mines

John B. Hanley, Geologist
Geological Survey

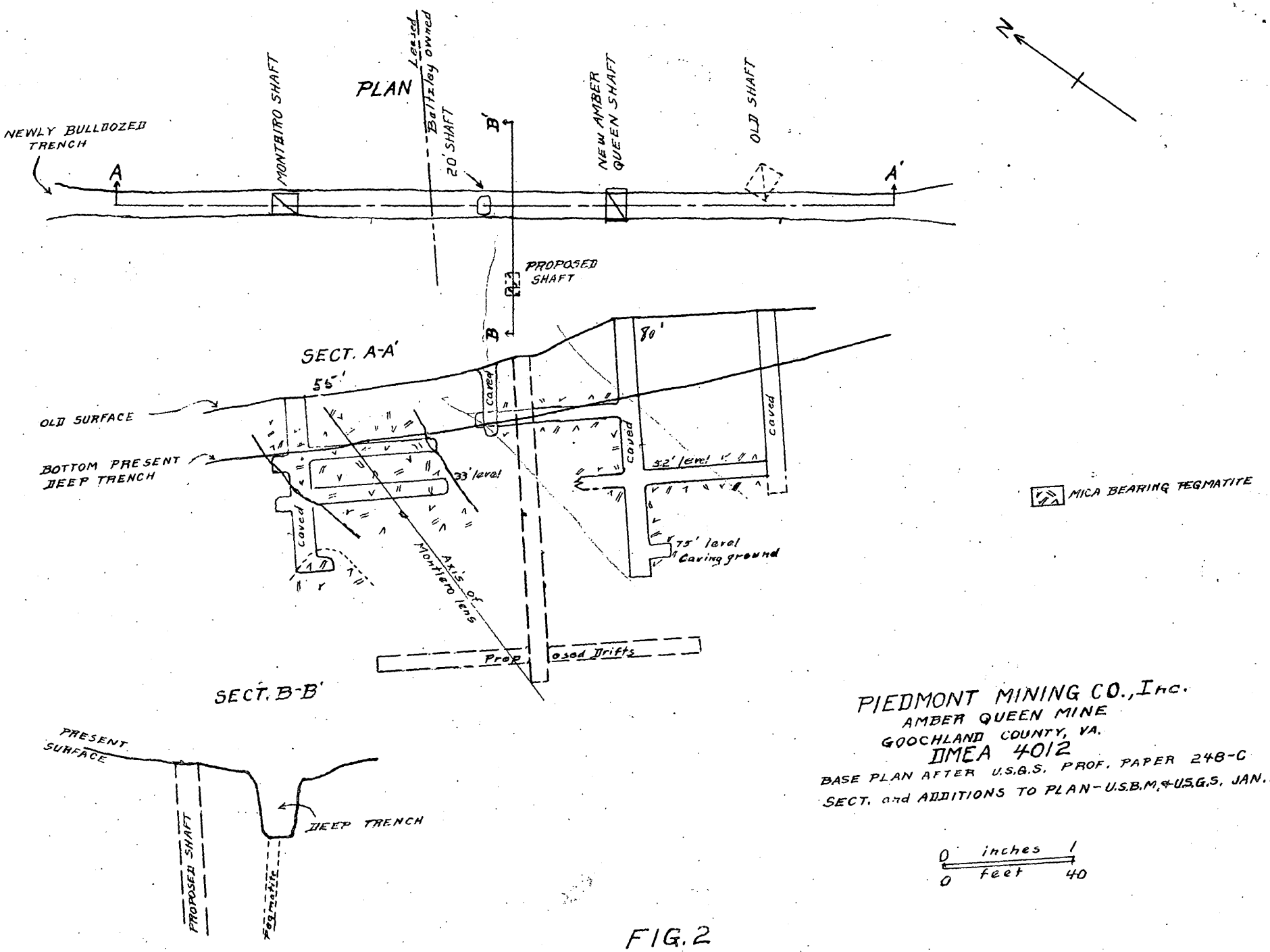
February 3, 1956



PIEDMONT MINING CO. Inc.
AMBER QUEEN MINE
GOOCHLAND COUNTY, VA.
DMEA 4012
ARMY MAP SERVICE – FERKINSVILLE, VA. QUAD.

0 ½ 1 Mile

FIG. 1



PIEDMONT MINING CO., Inc.
AMBER QUEEN MINE
GOOCHLAND COUNTY, VA.
DMEA 4012
BASE PLAN AFTER U.S.G.S. PROF. PAPER 248-C
SECT. and ADDITIONS TO PLAN - U.S.B.M. & U.S.G.S. JAN. 1956

0 inches 1
0 feet 40

FIG. 2

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

RECEIVED
FEB - 8 1956

February 7, 1956

Memorandum

To: George C. Selfridge, Chairman, DMEA Operating Committee
Room 4457, Interior Building

From: H. L. Burmeister, Bureau of Mines, College Park, Md.

Subject: Docket No. DMEA-4012 (mica)
Piedmont Mining Co. Inc. Amber Queen Mine
Goochland County, Virginia

As stated in the Field Examination Report, it was considered necessary that the Virginia Electric and Power Co. furnish a written intent to supply power before a DMEA contract could be considered.

Enclosed are the original and three Ozalid prints of the statement of intent to be attached to the subject application. An Ozalid copy is also being forwarded to the Executive Officer for attachment to his copy of the application.

H. L. Burmeister

H. L. Burmeister
Acting for
W. T. Millar
Mining Engineer

Enclosures

RECEIVED

FEB - 8 1956

REPLY TO CUSTOMER'S INQUIRY
FORM M-203

Estimate No. 212-56
File No.

VIRGINIA ELECTRIC AND POWER COMPANY

February 1, 19 56

Piedmont Mining Co., Inc.

Powhatan, Virginia

Dear Sirs:

This is in reply to your inquiry made on 1-16-56 concerning the availability of electric service for Piedmont Mining Co., Inc. at East side Maidens Road, rt. 634, 0.15 mile South Coffey Road, rt. 633, 0.6 mi. North Whitehall Road, rt. 637 in Goochland County _____ City

The service can be furnished if the Virginia Electric and Power Company "Blue Book" requirements are met and the wiring and apparatus comply with the National Electric Code or any Local or Municipal Ordinance that is in effect and provided satisfactory permits and rights of way can be secured without delay or cost to the Virginia Electric and Power Company.

The electric service furnished will be 120/240 volts, 1 phase, 3 wire, 60 cycles, alternating current for the following load:

Lighting	2	KW	Single Phase Motors	7	H.P.
Range		KW	Three Phase Motors		H.P.
Water Heater		KW	Other Load		

The service entrance is to be overhead ☐ underground ☐ See remarks below

Remarks: Customer to erect and maintain 25' class 5 creosote pine pole at least 20' above ground and within 100' of proposed VEPCO pole for attachment of VEPCO service drop wires.

This information concerns the availability of electric service only. Please advise the Company as early as possible after the completion of your wiring or, if the wiring is already complete, the definite date service is desired, so that the necessary contracts may be secured and orders issued for the connection. The Company will make every effort to furnish service at the time requested but can make no guarantee.

As circumstances and conditions are constantly changing, the Company reserves the right to cancel this proposal, without further notice, within 60 days from above date if service connection has not been made.

Very truly yours,

VIRGINIA ELECTRIC AND POWER COMPANY

By L. J. Spencer, Jr.

REPLY TO CUSTOMER'S INQUIRY
FORM M-203

RECEIVED
FEB - 8 1956

Estimate No. 212-56
File No.

VIRGINIA ELECTRIC AND POWER COMPANY

February 1, 1956

Piedmont Mining Co., Inc.

Powhatan, Virginia

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Very truly yours,

VIRGINIA ELECTRIC AND POWER COMPANY

By

REPLY TO CUSTOMER'S INQUIRY
FORM M-205

RECEIVED
FEB - 8 1956

Estimate No. 212-56
File No.

VIRGINIA ELECTRIC AND POWER COMPANY

February 1, 1956

Piedmont Mining Co., Inc.

Powhatan, Virginia

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at East side Maidens Road, rt. 634, 0.15 mile South Coffey Road, rt. 633, 0.6 mi. North Whitehall Road, rt. 637
in Goochland County City

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Range		KW	Three Phase Motors		H.P.
Water Heater		KW	Other Load		

The service entrance is to be overhead ☐ underground ☐ See remarks below

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Very truly yours,

VIRGINIA ELECTRIC AND POWER COMPANY

By

REPLY TO CUSTOMER'S INQUIRY
FORM M-203

RECEIVED
FEB - 8 1956

Estimate No. 212-56
File No.

VIRGINIA ELECTRIC AND POWER COMPANY

February 1, 1956

Piedmont Mining Co., Inc.

Powhatan, Virginia

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As circumstances and conditions are constantly changing, the Company reserves the right to cancel this proposal, without further notice, within 60 days from above date if service connection has not been made.

Very truly yours,

VIRGINIA ELECTRIC AND POWER COMPANY

By

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

November 22, 1955

Memorandum

To: W. T. Millar, Mining Engineer, College Park, Md.

From: V. J. Lynch, Mining Engineer - Knoxville,

Subject: Field Examination, DMEA-4012 (mica) Warren D. Baltsley, Amber Queen Mine, Goochland County, Virginia

The Washington office has requested a field examination of the Amber Queen Mine, Docket No. DMEA-4012, Goochland County, Virginia.

We returned a copy of the application to you several weeks ago. Jack Hanley, U. S. G. S., Baltsville is familiar with this property and will assist your engineers on the examination.

V. J. Lynch

ZM
VJL
CC
Lynch
Laurence
Allsman
Files

RECEIVED NOV 25 1955

Docket Copy
Surname:
Anderson
Houk
Selfridge
F. Johnson

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

NOV 17 1955

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

Subject: Docket No. DMEA-4012 - Mica
Warren D. Baltzley, et al.
Amber Queen Mine
Goochland County, Virginia

Dear Mr. Laurence:

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

Copies of memoranda dated October 12 and 14, 1955, by N. E. Nelson, USGS, and W. F. Dietrich, USBM, respectively, relating to the project are enclosed.

Sincerely yours,

By 257

Chairman, Operating Committee

Approved:

By 257

Member, Bureau of Mines

By 257

Member, Geological Survey

Enclosures 4

WCAnderson:gad 11/14/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

R.C.L.

Docket Copy
Surname:
Anderson
Houk
Geehon
Nelson
Selfridge
Johnson

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

NOV 17 1955

Piedmont Mining Company, Inc.

Powhatan, Virginia

Re: Docket No. DMEA-4012 - Mica
Piedmont Mining Company, Inc.
Warren D. Baltzley, et al.
Amber Queen Mine
Goochland County, Virginia

Gentlemen:

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

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

WCAnderson:gad 11/14/55
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

RCh.

PIEDMONT MINING COMPANY, INC.

POWHATAN, VIRGINIA

W. D. BALTZLEY, PRES. & TREAS.
~~ROY D. WISE, VICE-PRES.~~
~~BETTY LOU WISE, SECRETARY~~

MICA-BERYL
AND ASSOCIATED
MINERALS

November 7th. 1955

Mr. Frederick L. Knouse,
Acting Chief
Nonmetallic Mineral Division
DMEA

Re: DMEA-4012 - Mica
Amber Queen Mine
Goochland County, Virginia

Dear Mr. Knouse:

Enclosed please find six copies of the completed forms- MF-203 and four copies of the lease, as requested in your letter of October 19, 1955.

Sincerely yours,

W. D. Baltzley

W. D. Baltzley

RECEIVED
NOV - 8 1955

August 1955

WHEREAS: With the signing of this agreement, we, the owners of the property known as Montrose Farm, do here-by lease to the Piedmont Mining Company, Inc., Of Powhatan, Va. that portion of said farm directly bordering the one acre tract owned by the Piedmont Mining Company, Inc. and known as the Amber Queen Mine. That portion of land leased for mining mica and other minerals, for a period of two years, shall consist of a two hundred foot wide band completly surrounding the aforementioned one acre tract known as the Amber Queen Mine.

The lessee agrees to pay to the lessors a royalty for all mi erals sold amounting to 10% of the sale price, which royalty is to be payed on or before the 20th, day of the month following sale.

The lessors agree that the Amber Queen Mine shaft may be sunked on the surrounding leased area and vice versa.

FOR THE LESSEE

W. D. Baltzley

Piedmont Mining Company, Inc.
By- W. D. Baltzley, Pres.

FOR THE OWNER

Robert L. Samuel

Robert L. Samuel

W. N. Townsend

Wm. N. Townsend

Mary S. Townsend

Mary S. Townsend

RECEIVED
NOV - 8 1955

August 1955

WITNESS: With the signing of this agreement, we, the owners of the property known as Montrose Farm, do here-by lease to the Piedmont Mining Company, Inc., Of Powhaton, Va. that portion of said farm directly bordering the one acre tract owned by the Piedmont Mining Company, Inc. and known as the Amber Queen mine. That portion of land leased for mining mica and other minerals, for a period of two years, shall consist of a two hundred feet wide band completly surrounding the aformentioned one acre tract known as the Amber Queen mine.

The lessee agrees to pay to the lessors a royalty for all minerals sold amounting to 10% of the sale price, which royalty is to be payed on or before the 20th, day of the month following sale.

The lessors agree that the Amber Queen mine muck may be dumped on the surrounding leased area and vice versa.

FOR THE LESSEE

W. D. Baltzley

Piedmont Mining Company, Inc.
By- W. D. Baltzley, Pres.

FOR THE OWNERS

Robert L. Samuel

Robert L. Samuel

W. N. Townsend

Wm. N. Townsend

Mary S. Townsend

Mary S. Townsend

RECEIVED

August 1955

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FOR THE LESSEE

W. D. Baltzley

Piedmont Mining Company, Inc.
By- W. D. Baltzley, Pres.

FOR THE OWNERS

Robert L. Sammel

Robert L. Sammel

Wm. N. Townsend

Wm. N. Townsend

Mary S. Townsend

Mary S. Townsend

RECEIVED
NOV - 3 1955

August 1955

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FOR THE LESSEE

W. D. Baltzley
Piedmont Mining Company, Inc.
By- W. D. Baltzley, Pres.

FOR THE OWNERS

Robert L. Samuel
Robert L. Samuel

W. N. Townsend
Wm. N. Townsend

Mary S. Townsend
Mary S. Townsend

RECEIVED

PIEDMONT MINING COMPANY, INC.

POWHATAN, VIRGINIA

W. D. BALTZLEY, PRES. & TREAS.
~~ROY T. WIGE~~, VICE-PRES.
~~BETTY LOU WIGE~~, SECRETARY

RECEIVED
OCT 31 1955

MICA-BERYL
AND ASSOCIATED
MINERALS

October 29, 1955

Re: DMEA-4012 - Mica
Piedmont Mining Company Inc.
Amber Queen Mine
Goochland County, Virginia

Mr Frederick L. Knouse, Acting Chief
Nonmetallic Minerals Division- DMEA

Dear Mr. Knouse:

Thank you for your letter of October 19, 1955 in which you mentioned seven copies of Form MF-203 that you were forwarding to me. To date I have no recieved these forms

Respectfully yours,

W. D. Baltzley

W. D. Baltzley

7 copies MF-203
sent 11-2-55
gad

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

RECEIVED
OCT 21 1955

October 19, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region V

Subject: DMEA-4012 (Mica)
Piedmont Mining Co., Inc.
Amber Queen Mine, Goochland County, Virginia

Enclosed are three copies of a sheet of supplementary information for item 6, Form MF-103, received from the applicant today.

Robert A. Laurence

Robert A. Laurence

Enclosures 3

APPLICATION OF
PIEDMONT MINING COMPANY, INC.
POWHATAN, VIRGINIA

RECEIVED
OCT 21 1955

6. ESTIMATE OF COSTS

(a) INDEPENDANT CONTRACTS. . . . . NONE

(b) LABOR, SUPERVISION, CONSULANTS

Two laborers	$1.38 per. hr.	$2649.60	
One shaftman	1.60 " "	1536.00	
Supervision		965.00	
		$5150.60	$5150.60

(C) OPERATING MATERIALS AND SUPPLIES

3000 ft. of 2"x8" oak cribbing at $80. per M	$ 400.00	
1500 " " shed and shaft lumber	150.00	
Nails and hardware for rigging	67.00	
Gasoline and oil	365.00	
Dynamite and fuse	180.00	
	$1162.00	$1162.00

(d) OPERATING EQUIPMENT (all owned by PIdmont Mining Company, Inc.)

One 105 Gardner-Denver air compressor	$3000.00
" gasoline powered hoist, 2500 lb. cap.	900.00
" air powered sump pump	320.00
" electric pump	700.00
Two jack-hammer drills	400.00
" mine cars	85.00
Air hose and pipe	80.00
Water hose and pipe	120.00
Accessories	200.00
	$5805.00

(e) REHABILITATION AND REPAIRS . . . . None

(f) New BUILDINGS, IMPROVEMENTS, INSTALLATIONS
(Included under OPERATING MATERIALS AND SUPPLIES)

(g) MISCELLANOUS

Accounting	$. 80.00	
Workman's compensation	204.00	
Payroll taxes	154.50	
	$ 438.50	
. . . . .	200.00	
(h) CONTINGENCIES	$ 638.50	$ 638.50
	TOTAL	

RECEIVED
OCT 19 1955
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

Docket Copy
Surname:
Anderson
FLKnouse
HJohnson

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

OCT 19 1955

Piedmont Mining Company, Inc.

Powhatan, Virginia

Re: Docket No. DMEA-4012 - Mica
Piedmont Mining Company, Inc.
Amber Queen Mine
Goochland County, Virginia

Gentlemen:

Reference is made to your application for Government assistance to explore the Amber Queen Mine.

It is noted that you own the property you propose to explore and that it consists of approximately one acre. This area appears to be inadequate for such an exploration project. However, we understand that you have a lease, or can obtain one, on a 200-foot strip of land that surrounds the one acre tract you propose to explore and that you are willing to include this additional area in your proposal.

Therefore, we are enclosing seven copies of Form MF-203, Consent to Lien, to be executed by all the landowners. Please return six copies to this office together with four copies of the lease covering this additional land. We will then be able to continue processing your application.

Sincerely yours,

Frederick L. Knouse, Acting Chief
Nonmetallic Minerals Division

WCAnderson:FLKnouse:gad 10/18/55
Copy to: Admr. R. File
Docket
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Anderson

R.S.R.

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

RECEIVED
OCT 14 1955

October 14, 1955

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Branch of Ceramic and Fertilizer Materials

Subject: DMEA-4012 (mica)

Applicant: Piedmont Mining Co., Inc.

Name and Location of Property: Amber Queen Mine, Goochland Co., Va.

Date Application Rec'd. by Br. of Ceramic & Fertilizer Materials: 10/12/55

Comments:

1. The area (1 acre) is not sufficient to warrant a mica exploration program.

2. With the large quantity of exploration work recently completed, would this additional work still be considered exploration?

3. The proposed program of exploration will determine value of ground in mine that previously has been reported as a producer of mica.

4. Mica sold to the G.S.A. purchasing depot in 1954 contained 8% sheet which resulted in a yield of 80 percent Good Stained and better.

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.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

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

RECEIVED
OCT 13 1955

October 12, 1955

Re: DMEA 4012
Piedmont Mining Co.
Amber Queen Mine
Goochland Co., Va.
$8,000 - Mica

Memorandum

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

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

Subject: Review of application.

The applicant has stripped a large area, an acre, and exposed a large pegmatite. In the course of the stripping $1\frac{1}{2}$ tons of mica was recovered. As reported the mica is of good quality.

Perhaps a close examination of the stripped rock will enable the examiners to judge the probable productiveness of the pegmatite and the justifiability of the proposed work program, 100 feet of vertical shaft and 100 feet of lateral work.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

October 12, 1955

Piedmont Mining Company, Inc.
Powhatan, Virginia

Subject: DMEA 4012
Re: Exploration Assistance
Amber Queen Mine

Gentlemen:

The receipt of your application dated September 28, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 4012 and referred to the Non Metallics Minerals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

October 12, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region V.

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region V.

DMEA - Piedmont Mining Company, Inc.

Robert E. Adams
Chief, Operation's Control
and Statistics Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1255 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

RECEIVED
OCT 10 1955

October 7, 1955

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Application from Piedmont Mining Co., Powhatan, Va.
Amber Queen Mine, Goochland County, Va. (mica)

Enclosed are three copies of the subject application, received in this office. We are keeping the fourth copy for our use.

Examination of the application suggests that the applicant should (1) acquire adjacent property on the northwest and southwest and (2) submit a breakdown of costs. Probably this can be done most easily during a field examination.

The same applicants recently completed a contract (DMEA-3257, Idm-E673) and are capable of doing the work proposed in this application.

Robert A. Laurence
Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
ROOM 13 POST OFFICE BLDG.
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OCT 10 1955

October 7, 1955

Mr. W. D. Baltzley, President
Piedmont Mining Co., Inc.
Powhatan, Virginia

Dear Mr. Baltzley:

Your application for aid in exploration at the Amber Queen Mica Mine in Goochland County, Virginia, is being reviewed by our Washington staff. You will be advised in advance when a field examination is to be made.

Please advise whether you will use your own equipment or rented equipment and if the latter, what the monthly rental will be. If it is your own equipment, its value should be given so that a depreciation rate can be set. These data, as well as labor costs, etc., are needed.

Very truly yours,

Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

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MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. DMEA- 4012
Metal or Mineral mica
Date Received 10-10-55
Estimated Cost $8,000.00
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: Piedmont Mining Company Inc. -- A Virginia Corporation
Warren Diehl Baltzley Pres. and Treasurer, Powhatan, Virginia
Mavos Vicker Baltzley Vice-Pres. and Secretary, Powhatan, Virginia

(*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 One square acre, lying in the Lickinghole district, Goochland County Virginia.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
Amber Queen Mine -- Piedmont Mining Company, Inc. owner.

(*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 None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Office Of The Clerk Of Court, book 85, page 174, Goochland Co. Goochland, Va.

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.

(*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 30 days and be completed within 12 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.).

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated 9-28, 1955

Piedmont Mining Company, Inc.
(Applicant)

By W. D. Battey, Pres.

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

I.

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4. PHYSICAL DESCRIPTION

(a) A complete report on the earlier mining activities at this location can be found in the U. S. Geological Survey Professional Paper 248-C.

Beginning on the easterly and westerly edges of the property we have carried on a stripping operation since aquiring this property August 1955. This work resulted in an open-cut averaging 20 ft. in depth over the known vein and old workings from one end to the other. This work left uncovered along the strike of the vein the four known old shafts. None of the underground work is accessible. A bulldozer and a pan were employed to do this stripping, moving approximately 14000 yards of earth.

Consultations have been had and are planed with W. H. Thomas of Chester, W. Virginia concering his activities in conection with the Amber Queen mine and concerning the mine and nature of the vein at the deepest point thus far worked. It is his contention that mica is very abundant at his 75ft. level, that the vein was dipping faster to the west at this level than at higer levels and that the vein was approximatly 8ft. from the center of his shaft at the 75ft. or bottom level.

Several other persons who formely worked in these old mines, including Edward Caroway of Chula, Virginia, formely in our employ, were questioned as to there knowledge of the mines.

In the spring of 1954 we carried on some exploration work from the Montiero shaft which was dewatered down to about 40ft.

(b) Past production is stated in the USGS Paper 248-C.

During our current stripping operation 1 and 1/2 tons of mica was recovered. This mica yields around 8% trimmed sheet which in turn yields around 80% "good stained and better" in quality, much better than the average mine.

From the exploration work done in early 1954 we recorved from the Montiero shaft around 600 pounds of mica. From this material we trimmed approx. 8% sheet which resulted in a yield of around 80% "good stained and better" mica which was sold to the GSA Mica Purchasing Depot at Spruce Pine, North Carolina.

From all indications obtained from the aforementioned individuals the deeper mica from the Amber Queen is of superior grade.

(C) Refer to USGS Paper 248-C.

Included in this application is a copy of the Usgs map taken from paper 248-C and with extra materal drawn in indicating our recent exploration work and proposed new shaft location.

II

(d) The mine is at the end of an improved farm road one mile from county road 634 which at this point runs north one mile to U. S. 250. at approximately 25 miles distance from Richmond.

(e) Manpower is available. All needed supplies are with-in thirty miles distance. Water is on the property and power is within 1/4 mile.

5. THE EXPLORATION PROJECT

(b) We propose sinking a 100 foot vertical, two -compartment shaft with a cross-sectional dimension of 5 feet 7 feet (outside cribbing), using 2x8 inch oak plank for cribbing.

Drive 100 feet of drift and / or crosscuts from the 95 foot level in the shaft. The drifts and/ or crosscuts shall have a cross-sectional dimension of 5 x 7 ft. in the clear of timber.

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III.

6. ESTIMATE OF COSTS - (Unit Costs)

1. Sinking 100 feet of vertical shaft at $50.00 per ft.	$5000.00
2. Driving 100 feet of crosscut and/or drift at $3.00 per ft. ? low	$3000.00
Project estimated cost	$8000.00

decimal point