Mr. J. W. Nance
Bedford
Virginia

Subject: Docket No. DMMA-2555 - Mica
Strickland-Cramer Mine
Middlesex County, Connecticut

Dear Mr. Nance:

We acknowledge receipt of your letter of July 1, 1952, requesting withdrawal of the subject application.

Please be advised that your application for exploration assistance DMMA-2555 is now withdrawn and the following documents pertaining to your leases are returned to you herewith.

1 Lease dated May 21, 1952. Signed by Consolidated Feldspar Corporation, Lessor and by J. W. Nance, Lessee.

2 Transfers of Lease (duplicates) signed by Consolidated Feldspar Corporation and J. W. Nance.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

Enclosures - 3
JTRobertson:mp 7/7/52
cc: Docket File
Adm. Reading File
Field Team, Region VIII
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk
Operating Committee

July 7, 1952

Memorandum

To: Chairman, Operating Committee, DMEA

From: Non-Metallic Minerals Division, DMEA

Subject: Docket No. DMEA-2555 - Mica
Strickland-Cramer Mine
Middlesex County, Connecticut
Re: Applicant's voluntary withdrawal of application

The applicant had proposed an exploration project in the amount of $28,225.

The mine, now filled with water, is an old producer of mica. The limits of the productive pegmatite are already defined by prior diamond drilling. The project was therefore, one of rehabilitation rather than exploration. The Operator later decided to withdraw the application, per his letter of withdrawal, a copy of which is attached hereto.

It is recommended that the application, DMEA-2555 be now withdrawn as requested by the applicant.

Jasper T. Robertson
Non-Metallic Minerals Division

Attachment

JTRobertson:mp
CC: Adm. Reading File
Docket File
Mr. Houk

C O P Y

Bedford, Virginia
July 1, 1952

Mr. Lawrence G. Houk
D.M.E.A.
Room 4637
Interior Building
Washington, D. C.

Dear Sir:

In re: DMEA-2555
Exploration Loan - (Strickland Mine)

I wish to withdraw my application dated May 27, 1952 for a loan under the Defense Production Act of 1950.

In view of my request to withdraw this application I will appreciate you forwarding me all papers, pertaining to this Loan, how held in your files.

Yours very truly,

J. W. Nance (sgd.)

C O P Y

KNOW ALL MEN BY THESE PRESENTS,

That I Frederick E. Strickland of the Town of Portland, County of Middlesex and State of Connecticut in consideration of the sum of Two Thousand Five Hundred ($2,500.) Dollars received to my full satisfaction of Consolidated Feldspar Corporation, a Delaware Corporation having its principal office and place of business in Trenton, New Jersey, do give, grant, bargain and lease to the said Consolidated Feldspar Corporation, its successors and assigns, for the term of ninety-nine (99) years from the date of this instrument all mineral rights which include the right of mining and removing minerals of any and all kinds from the property hereinafter described together with the privilege of using the surface of the hereinafter described land for the purpose of dumping materials incidental to the said mining operations and together with the right to use water taken from the said land and such timber as may be needed for such mining operations on said land for the term of ninety-nine years. It is understood and made a part of this grant that the Consolidated Feldspar Corporation, its successors and assigns will not be responsible for damage to the land resulting from the mining operations.

It is a condition of this grant that any increase of taxes caused by reason of the mining operations thereon by the grantee shall be paid for by the grantee, its successors or assigns.

The property which is subject to this grant is situated in the Town of Portland, County of Middlesex and State of Connecticut and consists of two pieces, the first piece being known as the Collins Hill Lot containing forty (40) acres more or less and being bounded north by the old highway; east by land now or formerly of Edward Clark; south by land now or formerly of Alexander Hale and west by land now or formerly of John Penfield being the same and all the same property conveyed to the said Frederick E. Strickland by deed of Henry Kilby, Administrator, dated November 4, 1898 and recorded in the Portland Land Records vol. 17, page 438.

Second piece contains four (4) acres more or less and is the same property purchased by the said Frederick E. Strickland from Warner Gildersleeve being bounded north by persons unknown; west by land now or formerly of Charles Lawson and one Peterson; south by land now or formerly of Oliver Gildersleeve and heirs of Ferdinand Gildersleeve and east by land now or formerly of Charles Creamer and by other land of Frederick E. Strickland.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7th day of August in the year of our Lord nineteen hundred and fifty-one

Signed, Sealed and Delivered in the presence of

(S.) Barbara H. Hutt (S) Frederick E.Strickland (L.S.)

(S.) John A. Markham

STATE OF CONNECTICUT)
) ss. Glastonbury August 7th A.D., 1951
COUNTY OF HARTFORD)

Personally Appeared Frederick E. Strickland Signer and Sealer of the foregoing Instrument, and acknowledged the same to be his free act and deed before me.

(S.) John A. Markham
(S.) Commissioner of Superior Court

THIS LEASE, made this 21 day of May, 1952, by and between CONSOLIDATED FELDSPAR CORPORATION, a corporation organized and existing by virtue of the laws of the State of Delaware, having its principal office at Trenton, New Jersey, hereinafter called Lessor, and J. W. NANCE of Bedford, Virginia hereinafter called Lessee.

WITNESSETH: That for and in consideration of the sum of one dollar ($1.00) and other considerations to be paid by the Lessee to the Lessor and in consideration of the royalties and the mutual covenants and agreements hereinafter set forth, the Lessor hereby grants, lets, leases and demises unto the said Lessee all of the Mica, Beryl, Feldspar and such other minerals as Lessee may desire in, upon, or under the property known as the Strickland Mine.

The property which is subject to this lease is situated in the Town of Portland, County of Middlesex and State of Connecticut and consists of two pieces, the first piece being known as the Collins Hill Lot, containing forty (40) acres more or less and being bounded north by the old highway; east by land now or formerly of Edward Clark; south by land now or formerly of Alexander Hale and west by land now or formerly of John Penfield being the same and all the same property conveyed to the said Frederick E. Strickland by deed of Henry Kilby, Administrator, dated November 4, 1898 and recorded in the Portland Land Records, vol. 17, page 438.

Second piece contains four (4) acres more or less and is the same property purchased by the said Frederick E. Strickland from Warner Gildersleeve being bounded north by persons unknown; west by land now or formerly of Charles Lawson and one Peterson; south by land now or formerly of Oliver Gildersleeve and heirs of Ferdinand Gildersleeve and east by land now or formerly of Charles Creamer and by other land of Frederick E. Strickland.

1 - Lessee shall have exclusive right to quarry, blast, dig, mine and remove from said land all Mica, Beryl, Feldspar, and such other minerals as Lessee may desire upon the terms and conditions more fully hereinafter set forth, and during such operations, said Lessee agrees at all times to keep the mine

in a workmanship condition and free from waste, and upon abandoning the mine, Lessee agrees to leave all tunnels and entries to the mine in a good and workable condition.

2 - The period or term for which said property is leased is three years from and after the date of the proper execution and acknowledgment of this lease, or to the termination of the present government mica purchase program, whichever is longer, at which time this lease shall terminate unless the Lessor and Lessee mutually agree in writing to extend the same.

3 - The royalties to be paid by the Lessee to Lessor hereunder shall be as follows:

A - For all Mica mined, removed, sold or shipped, one-eighth (1/8) of the sale price at the mine at the time of such sale or shipment.

B - For all Feldspar mined, removed and sold or shipped - Fifty cents (50¢) per gross ton of 2240 pounds.

C - For all Quartz mined, removed, sold or shipped - Ten cents (10¢) per gross ton of 2240 pounds.

D - For all other minerals removed, sold or shipped - one-eighth (1/8) of the sale price at the mine at the time of such sale or shipment.

All royalties are due and payable on the twentieth day of the month next succeeding the month in which shipments are made. Lessor shall have the right at all reasonable times to inspect the books of the Lessee to see that proper royalty settlements are made. All mica produced from said leased premises is to be kept separate from other mica produced elsewhere until sale is made and royalty paid to Lessor and Lessor is to be furnished a statement of all mica sales promptly.

4 - Lessee shall have all the necessary rights of ingress, egress, and regress over the lands of Lessor for the purpose of conducting said mining and shipping operations and such other operations as pertain to the same and over all mineral lands demised by this lease.

5 - It is further understood that this lease cannot be assigned except by the written consent of the Lessor.

6 - During the continuance of this lease, said Lessee shall have the right to erect, place, replace and maintain any buildings, roadways, tramways, inclines, bridges and machinery of all descriptions, chutes, pipe lines, ditches, tie lines and other such proper methods as are used in mining and the Lessee shall have the right to remove any and/or all of the same from the property at the Lessee's own discretion.

7 - Lessee shall have the right to dump and dispose of all waste and refuse made, arising and resulting from said mining operations upon the land of the Lessor covered by this lease. It is understood and agreed that if at any time during the continuance of this lease in the judgment of the Lessee, mining operations shall become unprofitable, said Lessee shall have the right to terminate this lease by giving to the Lessor notice in writing of such intention to terminate and the Lessee shall have one month from and after such notice within which to remove all of its machinery and equipment, with the exception of mine timbering or other supports necessary to the safe operation of the mine. It is further understood and agreed that upon the failure of the Lessee to comply with the terms of this lease, the Lessor may at its option declare this lease null and void and terminate the same by giving the Lessee one Month's notice in writing; and Lessee shall have a period of one month after receipt of such notice within which either to immediately correct such noncompliance or to cease operations altogether; and should this lease be so terminated, all machinery, tools, buildings, brdiges, inclines, tramways, cableways, pipe lines, tie lines, fixtures, and all other improvements and property placed upon said premises by said Lessee, shall be and remain the property of the said Lessee and the said Lessee shall have on e month within which to remove any and/or all of said property, provided that all royalties have been paid up to date and all other terms of this lease have been complied with.

8 - Lessee agrees that at all times during the continuance of this lease and any renewals thereof that said Lessee will carry sufficient compensation and liability insurance to

protect its operations and said Lessee agrees to save said Lessor harmless from any injury to persons or property resulting from said Lessee's operations.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals the day and year first above written.

ATTEST: CAROLINA MINERAL COMPANY, INC.

_____ By_____
Secretary

ATTEST: J. W. NANCE

_____ _____

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 7 - 1952

This lease made and entered into this 24th day of April, 1952 between the Cramer Mica & Minerals Explorations Inc. of Hartford, Connecticut, hereinafter called Lessor, and the Consolidated Feldspar Corporation, a Delaware Corporation with principal office and place of business in the City of Trenton, State of New Jersey, hereinafter called Lessee, WITNESSETH:

That the said Lessor, for and in consideration of the rents, royalties and agreements hereinafter expressed to be paid, kept and performed by the Lessee, has granted, let, leased and demised unto the Lessee, its successors or assigns, for mining purposes the following described mining property, situated in the County of Middlesex, Town of Portland, State of Connecticut, known and described as follows:

Beginning at a point on the old road between the Strickland and Cramer properties and running 315' N 07° W to an old wall, thence 400' N 14° W to a pile of stones, thence 260' S 83° E to an old wall, thence, 340' N 87° E to a pile of stones, thence N 09° E - 270' to a point on the old fence line, thence 380' N 14° E to a point on the old road between the Cramer - Strickland properties, thence along the old road to the place of beginning - containing 6.7 acres more or less.

To have and to hold the above described premises for the purpose of exploring same and mining and removing any and all mica, beryl, feldspar and other ores, minerals or minable materials therefrom for a period of five years, and automatically renewable in periods of five years unless and until said Lessee shall give at least thirty (30) days notice in writing to the said Lessor of its intention to cancel said lease. The term of this lease shall commence as of the date that the parties hereto execute this lease.

The rental or royalty paid by the Lessee, its successors and assigns, to the Lessor, its successors or assigns, shall be as follows:

For all mica removed and sold, 12½% of the gross sales price at the mine;

For all beryl removed and sold, 50% of the sale price at the mine;

For all marketable feldspar, $.55 Per Ton;

For all other minerals or ores mined and sold 10% of the selling price at the mines.

It is agreed and understood that Lessee is not to conduct mining operations to the extent that the opening will enter into any adjoining properties unless approved by Lessor in writing.

It is further agreed and understood that said Lessee is to pay all state and county taxes which are assessed against the demised premises during the continuance of this lease.

It is further understood and agreed that a competent survey is to be made of the line between the Cramer and the Strickland properties - the map or sketch of the survey is to be submitted to said Lessor.

It is further understood and agreed that said Lessor shall have the right at all reasonable times to enter into the mining operations of said Lessee in order to see whether or not the mining operations are conducted in a workmanlike manner.

It is further understood and agreed that mica taken from the above described premises is to be kept separate and apart from mica mined from any other mica operations until such time as the mica mined from the demised premises has been sold - amount of royalties payable determined - a copy of the receipt for said mica to be furnished to Lessor.

Rental or royalty shall be due and payable on the 20th day of the month following the month in which shipments are made, and the said Lessor shall have the priviledge of examining the books and records of the Lessee at any reasonable time in order to determine that royalties have been settled for.

It is also agreed that if the Lessee fails to pay a total royalty of at least five hundred dollars in any calender year during the life of this lease, the Lessor at his option may cancel this lease at the end of such year, and neither party hereto shall be obligated, one to the other, but failure on the part of the Lessor to cancel said lease should such violation occur renders said lease in full force and effect, but does not further effect the rights of said Lessor should other violations occur. Said Lessee has the priviledge of paying any deficit in the yearly stipulation of five hundred dollars ($500.00) if desired and thus keep said lease in full force and effect, but is not bound to do so.

If for any reason the Lessee, its successors or assigns desire to cancel this lease, they may do so by giving said Lessor thirty days notice in writing of its intention to do so and in the event the said Lessee should cancel said Lease, Lessee shall have the right to remove all of its machinery, tools, buildings, pipe lines, fixtures and all other improvements placed upon said premises by the Lessee, which shall remain the property of the Lessee, and Lessee shall have one month after the termination of this lease within which to remove such property, but in no event shall the Lessee remove any property from said premises unless and until all of its obligations of any nature to the Lessor have been paid and performed.

Any violations of the terms of this lease shall be just cause for the Lessor to cancel this lease, provided however that said Lessor shall have given said Lessee thirty days notice in writing and giving said Lessee the opportunity to properly correct said violation, and the said Lessee fails to correct said violation within the thirty day period. Should said lease be cancelled by Lessor as a result of violations by the Lessee or otherwise, said Lessee shall have the right to remove any and all of its property from said leased premises within thirty days from the date of cancellation, provided all of its obligations to the Lessor have been paid and performed.

Lessee does hereby covenant and agree to hold said Lessor harmless from and against any and every claim and liability which may arise in connection with the occupancy or operation of said demised premises, and any mine or mines thereon or therein, hereby covenanting and agreeing to carry reasonable public liability insurance and sufficient workmen's compensation insurance, which may be necessary to enable said Lessee to pay any and every claim damage or liability which may occur or be asserted by reason of any operation in, upon or about said demised premises.

It is further understood and agreed that all rights and terms of this lease shall inure to the benefit and pass on to the successors, heirs or assigns of the parties hereto.

In WITNESS WHEREOF, the said Lessor has set his hand and seal and the said Lessee has caused these present to be signed by its President, Attested by its Secretary, and its corporate seal hereto affixed, the day any year first above mentioned.

(S.) M. J. McHugh, Jr. — Attest Secretary Witness

(S.) R. W. Lawson — President

(S.) Branch Lawson — Witness

(S.) Flora Marshall Cramer — President (L.S.)

Sworn to and Subscribed Before Me This 24th day of April, 1952.

(S.) Charles Cramer Secretary

12 Pioneer Drive
W. Hartford, Conn.

(S.) Florence H. Yuncza
Notary Public

My Commission Expires October 17, 1956

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

June 23, 1952

Memorandum

To: Chairman, Operating Committee, DMEA

From: Non-Metallic Minerals Division, DMEA

Subject: Docket No. DMEA-2555 - Mica
Strickland-Cramer Mica Deposit, Portland, Connecticut

Re: A recommendation for a denial of application because proposed work is rehabilitation rather than exploration.

The Strickland Mine and the Cramer Mine are now filled with water and to appraise the present situation it is necessary to consult former reports and maps. A very comprehensive report is a preliminary issue of a War Minerals Report, Project 2502, Strickland-Cramer Mica Deposit, Portland, Connecticut, by Bureau of Mines, June 1945. This report and accompanying maps are the best sources of information respecting the mines and it is from them that an appraisal of this project is made.

The following excerpt from the report outlines a brief history of the property:

History

"The Strickland Mine was opened as a feldspar quarry before 1900. Since 1907 it has been operated under lease by the present operators. From 1907 to 1930 only feldspar was recovered; from 1930 to 1937 mica was recovered as well as feldspar. The mine was inoperative from 1937 to 1942, but was unwatered in October 1942 when mica mining was resumed because of the premium prices offered for strategic mica.

"The Cramer Mine was opened in 1933 by the present owners and mining has continued since then.

"In terms of strategic sheet mica produced in New England during 1942 and 1943, the Strickland-Cramer deposit ranked second only to the Big Mine deposit in New Hampshire. The combined output of mine-run mica amounted to 333 tons in 1943 and 396 in 1944. From the mine product 38,310 pounds of sheet and 89,270 pounds of punch were recovered during these two years."

Both mines are now idle and as they are filled with water there seems little point in requesting a field examination. The commodity specialist of both Geological Survey and Bureau of Mines, however, in their memoranda, suggest a field team investigation.

The War Minerals Report is quite complete and it would appear that it is sufficiently so to enable an appraisal of the case at this time and without further field examination. The drawings accompanying the report, "Plan" and "Longitudinal Section", shown in Figure 4, are very enlightening and clearly show the salient information concerning mine workings, old stopes, old pillars, remaining blocks of ore and other pertinent information. The results of six core-drill holes are also disclosed.

The drill holes tend to prove that the bottom of the main mica-bearing pegmatite has been reached and that the mineable ore bottoms close to the present lower workings. The ore deposit is, therefore, bottomed and worked out except for the last remnants of ore at the lower edge of the lens-like pegmatite and the old pillars, which can be robbed to some extent. All drill holes except Hole No. 1 show a cutting off of the mica-bearing deposit. The lower limit of the mine is pretty well established and additional exploration by shafts or drifts seems unnecessary.

The ore reserves in the mine are reported to be as follows:

Block	Av. Dip	Inclined Area Square Feet	Thickness Feet	Peg. Tons	Mine-run Mica, tons
I	50°	3,430	7	2,000	200
II	41°	3,260	7	1,900	190
III	72°	23,300	7	13,600	1,360
					1,750

The present ore reserves may justify a Rehabilitation Loan through DMPA but as this question is beyond the scope of an exploration application it is not discussed here except to say, that we are informed such loan would require six months to process.

We are also informed that the mica purchase program does not make advances against production.

A recommendation is made that the application for exploration assistance be denied. As an alternative the case may be submitted to the field team for their suggestions; it is possible that they may have some suggestion other than a denial.

Jasper T. Robertson
Non-Metallic Minerals Division

June 23, 1952

Memorandum

To: Chairman, Operating Committee, DMEA

From: Non-Metallic Minerals Division, DMEA

Subject: Docket No. DMEA-2555 - Mica
Strickland-Cramer Mica Deposit, Portland, Connecticut

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Jasper T. Robertson
Non-Metallic Minerals Division

JTRobertson:gad
Copy to: Admin. Reading File
Docket File
Mr. Houk

IN REPLY REFER TO:
G-ND-PLW

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

June 9, 1952

Memorandum

To: L. G. Houk, Non-Metallic Minerals Division, DMEA.

From: P. L. Weis, U. S. Geological Survey.

Subject: Mica reserves in the Strickland-Cramer Pegmatite, Connecticut. - DMEA - 2555

The figures that you requested are listed below. They are taken from Cameron's confidential report on the Strickland-Cramer property, and represent the most up-to-date information we have on reserves. The data on which they are based was gathered before September 4, 1943. The property was operated for at least part of the year 1944, so the figures are obsolete by the amount mined since 1943.

	indicated	inferred
Strickland (ore)	7,595 tons	12,758 tons
Strickland (Recoverable mine run Mica)	690 tons	469 tons
Cramer (Ore)	13,940 tons	22,573 tons
Cramer (Recoverable mine run Mica)	1,266 tons	2,050 tons
Between the two mines (ore)		12,630 tons
Between the two mines (Recoverable Mica)		1,148 tons

Total recoverable mine-run mica:

Indicated	1,956 tons
Inferred	3,657 tons
	5,613 tons

Paul L. Weis

PLWeis:hhp
G-6/9/52
cc: Director's Read. f., 4212
Branch Read. f., 4212
DMEA
PLWeis, G-228, GSA Bldg., USGS
extra

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

June 13, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

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

Subject: DMEA-2555, J. W. Hance, Bedford, Virginia (Mica)

On the basis of the applicant's description of past operations and present exposures, a field team investigation is recommended. During previous activity, the Colonial Mica Corporation purchased sheet mica which had been produced from this mine.

W. F. Dietrich

IN REPLY REFER TO:
G-MD-PLW

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

June 4, 1952

Memorandum

REVIEW OF APPLICATION DMRA-2555 (Mica).

To: L. G. Houk, Non-Metallic Minerals Division, DMRA.
From: P. L. Weis, U. S. Geological Survey.
Applicant: J. W. Nance.
Name of Property: Strickland-Cramer pegmatite (Strickland and Cramer mines).
Location: Middlesex County, Connecticut.
Estimated cost of project: $28,225.00.
Summary of applicant's proposal:

(1) Dewater quarry.
(2) Clear 30 to 35 feet of muck from a 12 by 12 foot area of quarry bottom, cribbing it as it is cleared.
(3) From bottom of cribbed area (at quarry bottom) extend a 5 by 7 foot shaft down 100 feet to a total depth of 215 feet below the surface.
(4) Drive 200 feet of drift along pegmatite from bottom of shaft.

Sources of information on applicant's property:

Extensive file of unpublished information in U. S. Geological Survey commodity files. U. S. Bureau of Mines diamond drilled this deposit. The most pertinent report is E. N. Cameron's confidential estimate of reserves and recommendations for exploration and development work, including anticipated cost (U. S. Geological Survey, 1944). Copies of all necessary maps are being sent to you herewith. Copies of all reports are available to the field team.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 5 1952

Comments:

(1) The diamond drilling and geologic work indicated that this pegmatite has larger resources of strategic mica. The deposit warrants exploration by sinking and drifting, as proposed by the applicant, in order to show that it can be profitably mined at present prices.

(2) The Cramer and Strickland mines are in the same pegmatites. Exploration of either property can benefit the other. Branch Lawson of the Consolidated Feldspar Corporation has stated orally that he would be unable to obtain a subordination agreement from the owner of the Cramer mine, but he said that his company would guarantee royalty payments.

RECOMMENDATION:

Refer to field team for the following purposes:

(1) Consideration of feasibility of exploration.

(2) Negotiations with applicant to plan an exploration program in detail.

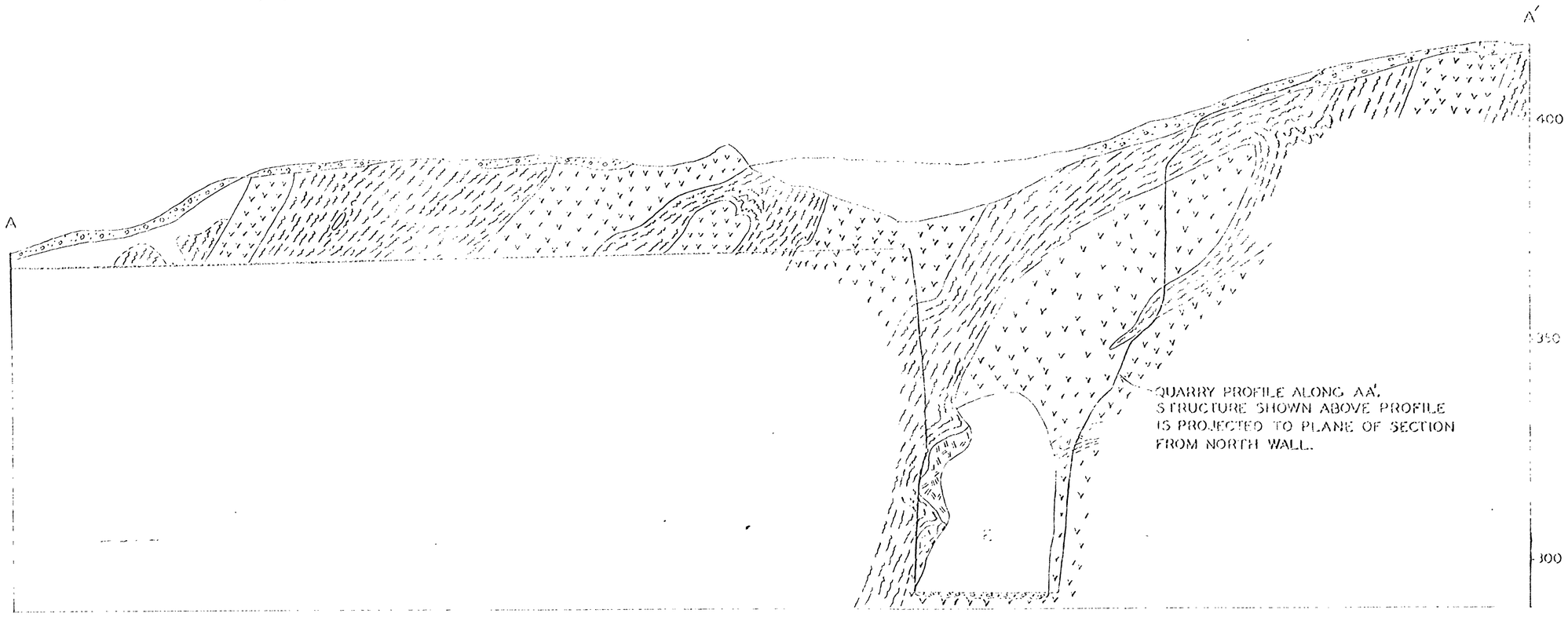
Paul L. Weis

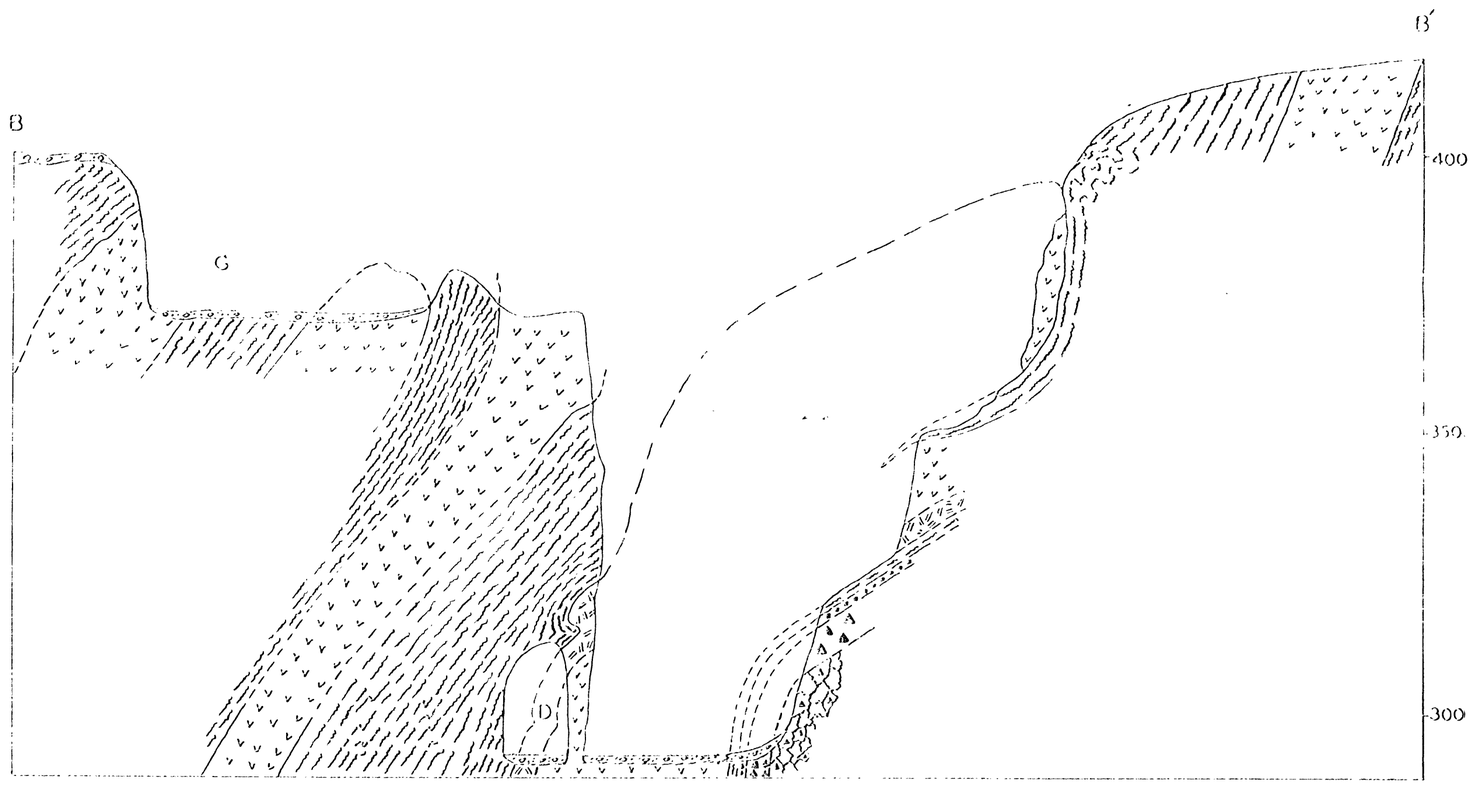
Enclosures

PLWeis:hhp
G-6/4/52
cc: Director's Reading file, 4212
Branch Reading file, 4212
DMEA
PLWeis, G-228, GSA Bldg., USGS
extra

DMEH-2555

STRICKLAND QUARRY
SECTIONS AA′ AND BB′





LEGEND

- BOLTON SCHIST
- ALASKITE PEGMATITE
- MICA ZONE IN PEGMATITE
- PEG.-QTZ.-SPODUMENE FELDSPAR PHASE
- PEGMATITE-QUARTZ SPODUMENE PHASE
- UNDIFFERENTIATED PEGMATITE
- OVERBURDEN

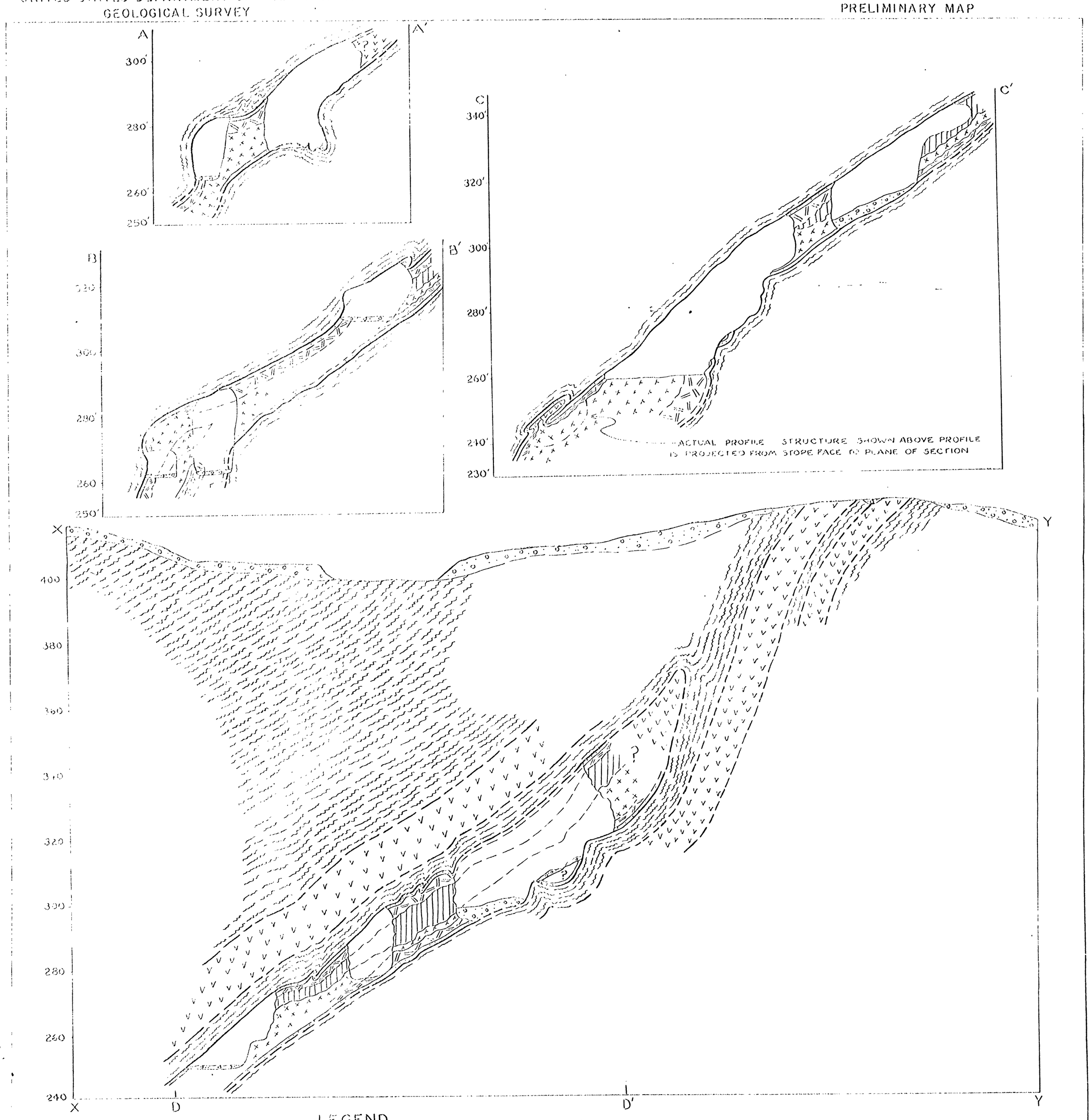
SCALE

0 20 40 60 Feet

Dylla-2555

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STRATEGIC MINERALS INVESTIGATIONS
PRELIMINARY MAP



LEGEND

BOLTON SCHIST

PEGMATITE:
BORDER PHASE
MICA - BEARING PEGMATITE
PERTHITE ZONE

PEGMATITE:
QUARTZ - CLEAVELANDITE (WITH QUARTZ-RICH LENS)
UNDIFFERENTIATED

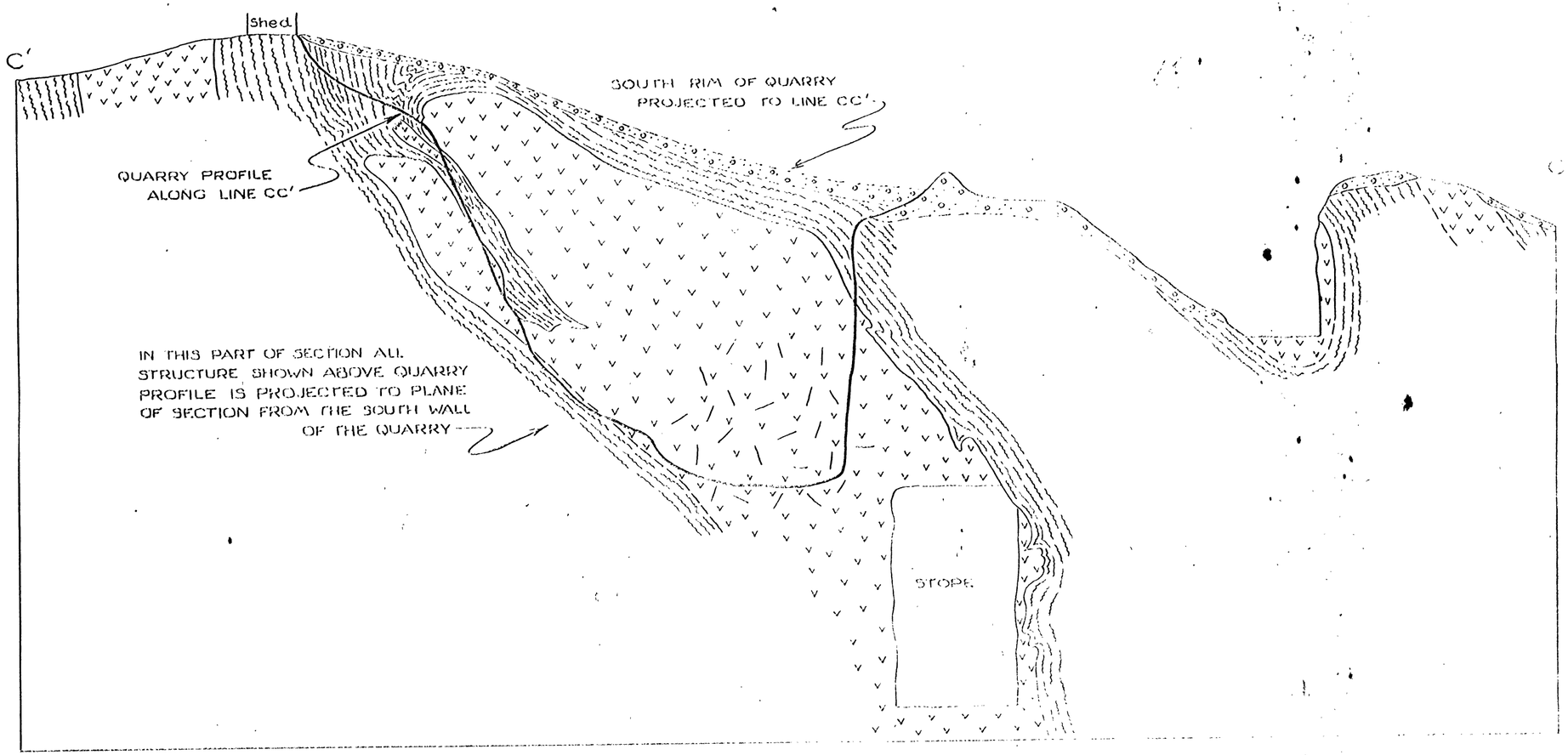
OVERBURDEN

CRAMER MINE
STRUCTURE SECTIONS
E.N. CAMERON - J.T. CALLIHAN

SCALE
0 20 40 60 Feet

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STRATEGIC MINERALS INVESTIGATIONS
PRELIMINARY MAP



LEGEND

BOLTON SCHIST

UNDIFFERENTIATED PEGMATITE

UNDIFFERENTIATED PEGMATITE WITH SCRAP MICA AND GRAPHIC GRANITE

OVERBURDEN

STRICKLAND QUARRY
SECTION C'C

0 20 40 60 FEET

DMEA 2555

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STRICKLAND - CRAMER DEPOSIT

COLLINS HILL, PORTLAND, CONN.

E.N CAMERON, G.B BURNETT, J.T. CALLIHAN

CONTOUR INTERVAL 10 FEET
ARBITRARY DATUM
ELEVATION A2 = 399 FEET

SCALE
0 40 80 120 Feet

MONSON GRANODIORITE (GNEISS)

BOLTON SCHIST SHOWING STRIKE OF FOLIATION

UNDIFFERENTIATED PEGMATITE

DEBRIS IN QUARRY

STRIKE AND DIP OF FOLIATION

STRIKE AND DIP OF FOLIATION WITH PITCH OF CRUMPLING

PITCH OF DRAG FOLDS

DIP OF CONTACT

PITCH OF LINEATION

AERIAL TRAMWAY

EXCAVATION RIM

DUMP

DEPRESSION CONTOUR

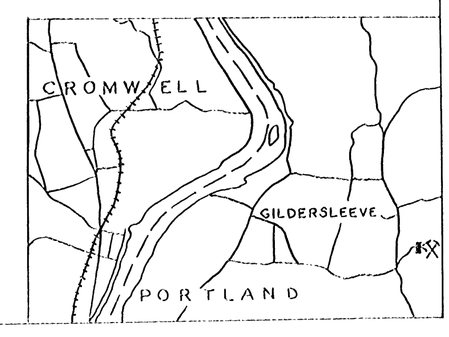
UNDERGROUND WORKING

GEOLOGICAL BOUNDARY (DASHED WHERE INFERRED)

LIMIT OF OUTCROP

RETAINING WALL

TRACK



MAPPED OCT. - DEC. 1942