DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2956

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

EXPLORATION ASSISTANCE

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip
CYS TO USGS, USBM, 1 CY RETAINED IN REG. VII

To:	Code 600, Rm 4637	Date	3/30/53
To:	Feather	Date	3/1/53
To:	Open Com	Date	4-17-53
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

FILE COPY
SURNAME:

Anderson
Houk

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

600

October 2, 1953

Memorandum

To: Chief, Operations, Control and Statistics Division

From: Nonmetallic Minerals Division

Subject: Docket No. DMRA-2956 - Mica
4-Way Mining Company
Joe Fouts and Ernest Johnson Mines
Mitchell County, North Carolina

The subject docket is transmitted herewith for filing in your office.

On May 6, 1953, a letter was written to the applicant requesting additional information concerning the location and description of his property. No reply was received by August 18, 1953, so on that date another letter was written informing the applicant that if the needed data were not received by September 25, 1953, the docket would then be considered closed.

Up to this date the applicant has not complied with the above request. Therefore, the Nonmetallic Minerals Division considers the application for exploration assistance withdrawn and the docket closed.

SIGNED

W. C. Anderson
Nonmetallic Minerals Division

WCAnderson:gad
Copy to: Admr. R. Files
Docket File
Mr. Houk

HHR
10-7-53

Take on docket

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

October 2, 1953

Noted
Cover

Memorandum

To: Chief, Operations, Control and Statistics Division

From: Nonmetallic Minerals Division

Subject: Docket No. DMEA-2956 - Mica
4-Way Mining Company
Joe Fouts and Ernest Johnson Mines
Mitchell County, North Carolina

The subject docket is transmitted herewith for filing in your office.

On May 6, 1953, a letter was written to the applicant requesting additional information concerning the location and description of his property. No reply was received by August 18, 1953, so on that date another letter was written informing the applicant that if the needed data were not received by September 25, 1953, the docket would then be considered closed.

Up to this date the applicant has not complied with the above request. Therefore, the Nonmetallic Minerals Division considers the application for exploration assistance withdrawn and the docket closed.

W. C. Anderson

W. C. Anderson
Nonmetallic Minerals Division

FILE COPY
SURNAME:

Anderson
Hook

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

600

October 2, 1953

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: A withdrawal of exploration assistance and closing review
Docket No. DMEA-2956 - Mica
Property: Joe Fouts and Ernest Johnson Mines
Bandana Hollow, Mitchell County
North Carolina
Located 3.25 miles southeast of Bakersville
Applicant: 4-Way Mining Company
C/o Clyde Norton, Spruce Pine, North Carolina
Amount requested: $12,885.00
No contract: Application withdrawn.
Examination Report of Field Team, dated April 28, 1953
Authors: K. H. Teague and L. E. Shirley

Docket Summary:

3/30/53	Received application Form MF-103.
3/30/53	Receipt of application acknowledged.
4/7/53	Received memo from W. F. Dietrich, USBM, recommending field team examination.
4/10/53	Received memo from B. G. Dean, USGS, recommending field team examination.
5/1/53	Received Report of Examination by Field Team, Region VII. Authors: K. H. Teague and L. E. Shirley Recommended exploration contract.
5/6/53	Letter to applicant requesting additional information.
5/11/53	Received memo from D. M. Larrabee, USGS, concurring in field team's recommendation.
6/1/53	Received memo from W. F. Dietrich, USBM, concurring in field team's recommendation.
8/18/53	Letter to applicant establishing the date 9/25/53 the dead line for reply to our letter of 5/6/53.

Disposition:

On May 6, 1953, a letter was written to the applicant requesting additional information concerning the location and description of his property. No reply was received by August 18, 1953. On that date we wrote him as follows:

"Inasmuch as we have received no reply, we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data have not been received by September 25, 1953, we will then consider the docket closed."

Up to this date, the applicant has not complied with the above request. Therefore, the Nonmetallic Minerals Division considers the application for exploration assistance withdrawn and the docket closed.

SIGNED

W. C. Anderson
Nonmetallic Minerals Division

WCAnderson:gad 10/2/53
Copy to: Admr. R. File
Docket File
Mr. Houk

10-7-53

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

44

October 2, 1953

Memorandum

To: Administrator

From: Nonmetallic Minerals Division K.H.T.

Subject: A withdrawal of exploration assistance and closing review
Docket No. DMEA-2956 - Mica
Property: Joe Fouts and Ernest Johnson Mines
Bandana Hollow, Mitchell County
North Carolina
Located 3.25 miles southeast of Bakersville
Applicant: 4-Way Mining Company
C/o Clyde Norton, Spruce Pine, North Carolina
Amount requested: $12,885.00
No contract: Application withdrawn.
Examination Report of Field Team, dated April 28, 1953
Authors: K. H. Teague and L. E. Shirley

Docket Summary:

3/30/53	Received application Form MF-103.
3/30/53	Receipt of application acknowledged.
4/7/53	Received memo from W. F. Dietrich, USBM, recommending field team examination.
4/10/53	Received memo from B. G. Dean, USGS, recommending field team examination.
5/1/53	Received Report of Examination by Field Team, Region VII. Authors: K. H. Teague and L. E. Shirley Recommended exploration contract.
5/6/53	Letter to applicant requesting additional information.
5/11/53	Received memo from D. M. Larrabee, USGS, concurring in field team's recommendation.
6/1/53	Received memo from W. F. Dietrich, USBM, concurring in field team's recommendation.
8/18/53	Letter to applicant establishing the date 9/25/53 the dead line for reply to our letter of 5/6/53.

Disposition:

On May 6, 1953, a letter was written to the applicant requesting additional information concerning the location and description of his property. No reply was received by August 18, 1953. On that date we wrote him as follows:

> "Inasmuch as we have received no reply, we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data have not been received by September 25, 1953, we will then consider the docket closed."

Up to this date, the applicant has not complied with the above request. Therefore, the Nonmetallic Minerals Division considers the application for exploration assistance withdrawn and the docket closed.

W. C. Anderson

W. C. Anderson
Nonmetallic Minerals Division

FILE COPY
SURNAME:

Anderson
Houk

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

AUG 18 1953

Mr. Clyde Norton
4 Way Mining Company
Spruce Pine, North Carolina

Re: Docket No. DMEA-2956 - Mica
4 Way Mining Company
Fouch (Joe Fouts) Mine
Mitchell County, North Carolina

Dear Mr. Norton:

Reference is made to our letter dated May 6, 1953, requesting additional information necessary to process your application.

Inasmuch as we have received no reply, we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data have not been received by September 25, 1953, we will then consider the docket closed.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

WCAnderson:gad 8/17/53

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

HHR 8-18-53

Mr. Feitler

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

June 1, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2956, Joe Fouts and Ernest Johnson Mines
Mitchell County, North Carolina

I concur in the field team's recommendation for an exploration program in the amount of $10,850.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

G-MD-CNM

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

Mr. Leitler

May 7, 1953

Defense Minerals Exploration
RECEIVED
MAY 11 1953

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2956 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: 4-Way Mining Co., c/o Clyde Norton, Spruce Pine, N. C.
Name of property: Joe Fouts and Ernest Johnson mines.
Location of property: Bandana Hollow, 3.25 miles southeast of Bakersville, Mitchell County, North Carolina.
Date of field team report: April 28, 1953.
Authorship of field team report: Teague and Shirley.
Field team's recommendation:

Johnson:	60'x5'x7' shaft
	100'x5'x7' drifts or crosscuts
Fouts:	45'x5'x7' inclined shaft
	60'x5'x7' drifts

To cost $10,850.

Comments:
None.

ACTION SUGGESTED:
Follow field team's recommendation.

D. M. Larrabee

D. M. Larrabee

FILE COPY
SURNAME:

Feitler
Robertson

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

MAY 6 1953

Mr. Clyde Norton
4 Way Mining Company
Spruce Pine, North Carolina

Re: Docket No. DMA-956 - Mica
4 Way Mining Company
Fouch (Joe Fouts) Mine
Mitchell County, North Carolina

Dear Mr. Norton:

Mr. Warren H. Pritchard has submitted descriptions of two tracts of land in connection with the subject application.

Please submit a plat showing the two tracts in their relationship to each other with the locations of the "Johnson Works" and the "Fouts Works" indicated.

Processing of your application will be continued after this material has been received.

Sincerely yours,

SIGNED

Jasper T. Robertson, Acting Chief
Nonmetallic Minerals Division

SAFeitler:gad 5/5/53

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

J.C. 5/6/53

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

April 29, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 1 1953

Memorandum

To: Operating Committee, D M E A - Washington

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

Subject: Field Examination Report on: DMEA-2956, Joe Fouts and Ernest Johnson Mines.

Transmitted herewith are four copies of the above subject examination report, with six extra copies of the map. The Field Team is in agreement with the recommendations set forth in this report.

Wm. A. Beck, Acting
Executive Officer, DMEA
Region 7

Benjamin Gildersleeve,
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
5-8-53
(date)

UNITED STATES

DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 1 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

(MICA)

DMEA-2956, JOE FOUTS AND ERNEST JOHNSON MINES

Mitchell County, N. C.

By

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

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

April 28, 1953

Field Examination Report
on

DMEA-2956, Joe Fouts & Ernest Johnson Mines
(mica)
Applicant: 4-Way Mining Co., c/o Clyde Norton,
Spruce Pine, North Carolina.

Three different places have been prospected and mined on this property - northeast side of Bandana Hallow(Ernest Johnson Mine), and southwest side of Bandana Hollow (Joe Fouts Mine), and an unnamed prospect 300 yards southwest of the Fouts openings. At present the Fouts mine is in operation. It appears that the Johnson and the Fouts (south) merit exploration.

These deposits were examined on April 7, 1953. All of the applicants- H. T. Barksdale, Frank Cook, Clyde Norton, and Jesse McKinney accompanied the field examiners on the visit which required three hours.

These mines are in Bandana Hollow, about 3.25 miles, a little southesst of Bakersville, Mitchell County, North Carolina. Access to all the deposits is good at all seasons of the year.

The applicants appear competent to conduct the proposed exploration.

This application is on two different, but adjoining tracts of property, the mineral rights of which are owned by the applicants. There is sufficient area covered to provide adequate working and dumping space.

The extent and geology of the Johnson and Fouts Mines are shown on the attached map. No work has been conducted at the Johnson mine since the map was prepared, but the Fouts mine is at present in operation. Work is being conducted from the southeast opening, where the stope is being advanced to the southwest.

The Fouch(south) pegmatite has only been prospected to a limited extent. About one year ago a pit 14 feet deep was sunk on a 6-foot pegmatite. This pegmatite trends about N. 35° E., dipping steeply to the southeast. The pegmatite is poorly exposed and semi weathered, being composed of weathered plagioclase, small dissimated quartz, and good quality muscovite. It is reported that some mica was sold to the Spruce Pine Depot from this deposit, but the amount is unknown.

Part of a report prepared in September 1944 by James R. Wolfe, Jr., U.S.G.S. on the Johnson and Fouts Mines is quoted below:

"The Fouts workings were operated by the Meyer-Brown Corporation from about April 1943 to June, and then by J. L. Young and Reamer Todd until December. Will McKinney operated the mine for about a month starting in June 1944, after which Ernest Johnson took a lease and worked it until about the middle of September.

"The mine is in an area of schist and gneiss including mica, kyanite, and hornblende facies. Biotite-muscovite schist or gneiss occurs immediately adjacent to the pegmatites. The general strike is rather uniformly northeast, with a steep southeast dip. The axes of minor folds pitch 5° to 40° northeast.

"The Johnson mine exposes two main pegmatites, both of which are 10 to 15 feet thick. They are separated by a body that consists of many alternating layers of pegmatite and schist. These range in thickness from 6-inches to several feet. The Johnson works are in the more westerly pegmatite and the Fouts works are in both. The pegmatites strike rather consistently northeast and dip steeply southeast. Along the northwest side of the Johnson works, however, the handing-wall dip is gentle; along the southeast wall this rolls more steeply to attain its usual dip.

"The crest of the pegmatite seems to plunge about 40° northeast. The lower dip of the hanging wall schist above the portal of the Johnson works and along the northwest side, as well as strikes to the northwest and north of these places, indicate that the pegmatite lenses out upward. No indications of narrowing down dip or along the strike are known. Small rolls in the country rock and the smaller pegmatite lenses also plunge northeast at angles of 5° to 40°.

"Little zoning is apparent. The pegmatites consist rather uniformly of medium-grained feldspar interspersed with a great deal of fine-grained quartz. A variation occurs in the Johnson works, where the lower third of the pegmatite contains larger crystalline feldspar, less quartz, and very little mica.

"The mica in the Johnson works occurs mainly in the upper two thirds of the pegmatite along the strike. It is associated with the quartz and is commonly intercrystallized with it. Two mica "columns" in the Johnson workings are reported in the upper two thirds of the pegmatite on both sides of a downward roll in the schist roof. These mica shoots coalesce at the main heading, where the roll becomes less prominent.

"The mica in the Fouts working also occurs with the quartz concentrations. A mica shoot is reported to pitch 45° northeast. Mica appears to be distributed throughout the pegmatite thus far exposed, but the hanging wall and footwall have not been reached in the workings, except

near the surface. The mica is reported to improve in quality down the dip of the pegmatite. Parts of the mine have been very rich. Mica books as much as a foot across are found but most are smaller.

"The mica from both works is ruby in color, clear, very hard, and flat. Many books as much as three inches across will transmit light in the direction parallel to the cleavage. About a tenth is No. 1 quality and two thirds No. 2 superior.

"Both mines are believed capable of continuing production on about the same scale as in the recent past."

As previously stated, the examiners believe that the Johnson and Fouts (south) deposits warrant exploration.

At the Johnson deposit it is recommended that a 60-foot vertical shaft be sunk at the approximate location shown on the attached map and 100 feet of drifts be driven to the northeast and southwest. If a contract is prepared it should be flexible enough to provide crosscuts if needed.

At the Fouts (south) pegmatite it is recommended that a 45-foot inclined shaft be sunk on the pegmatite and 60 feet of drifts driven on the pegmatite.

Estimated Cost: Johnson Deposit

60-foot, 5' x 7' shaft @ $50/ft.	$3,000.00
100 feet 5' x7' drifts on crosscuts @ $35/ft.	3,500.00
Estimated cost.....	$6,500.00

Estimated Cost; Fouts (south) Deposit

45-foot 5' x 7' inclined shaft @ $50/ft.	$2,250.00
60 feet 5' x 7' drifts @ $35/ft.	2,100.00
Estimated Cost.....	$4,350.00

Estimated Total Costs..... $10,850.00

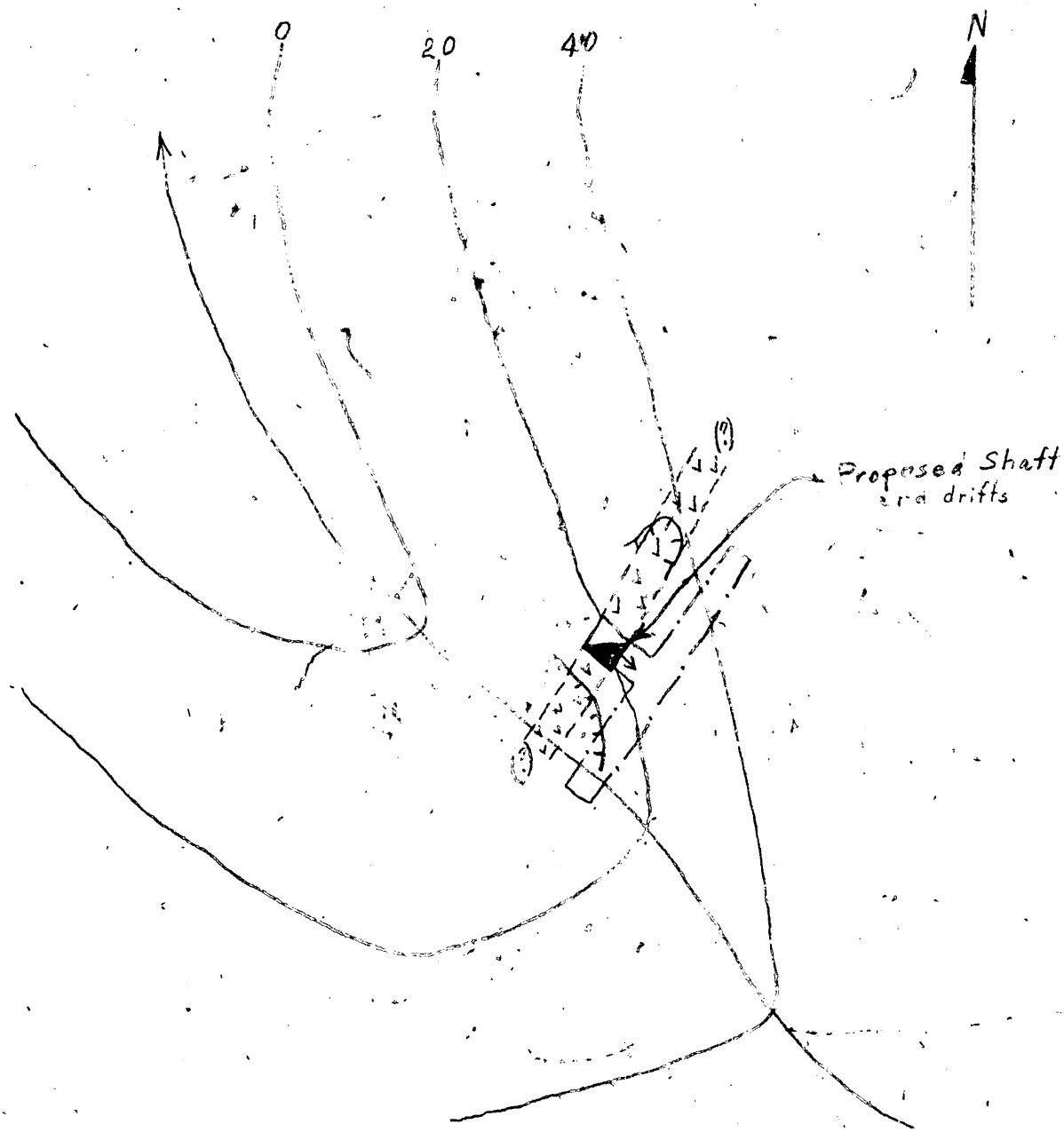
Estimated time required --130 shifts.

April 28, 1953

K. H. Teague, Geologist
USGS

L. E. Shirley, Mining Engineer
USBM.

zm



Sketch of
Fouts (south) Prospect
Mitchell Co., N.C

0 40' 80'
Scale

DMEA-2956 (mica)

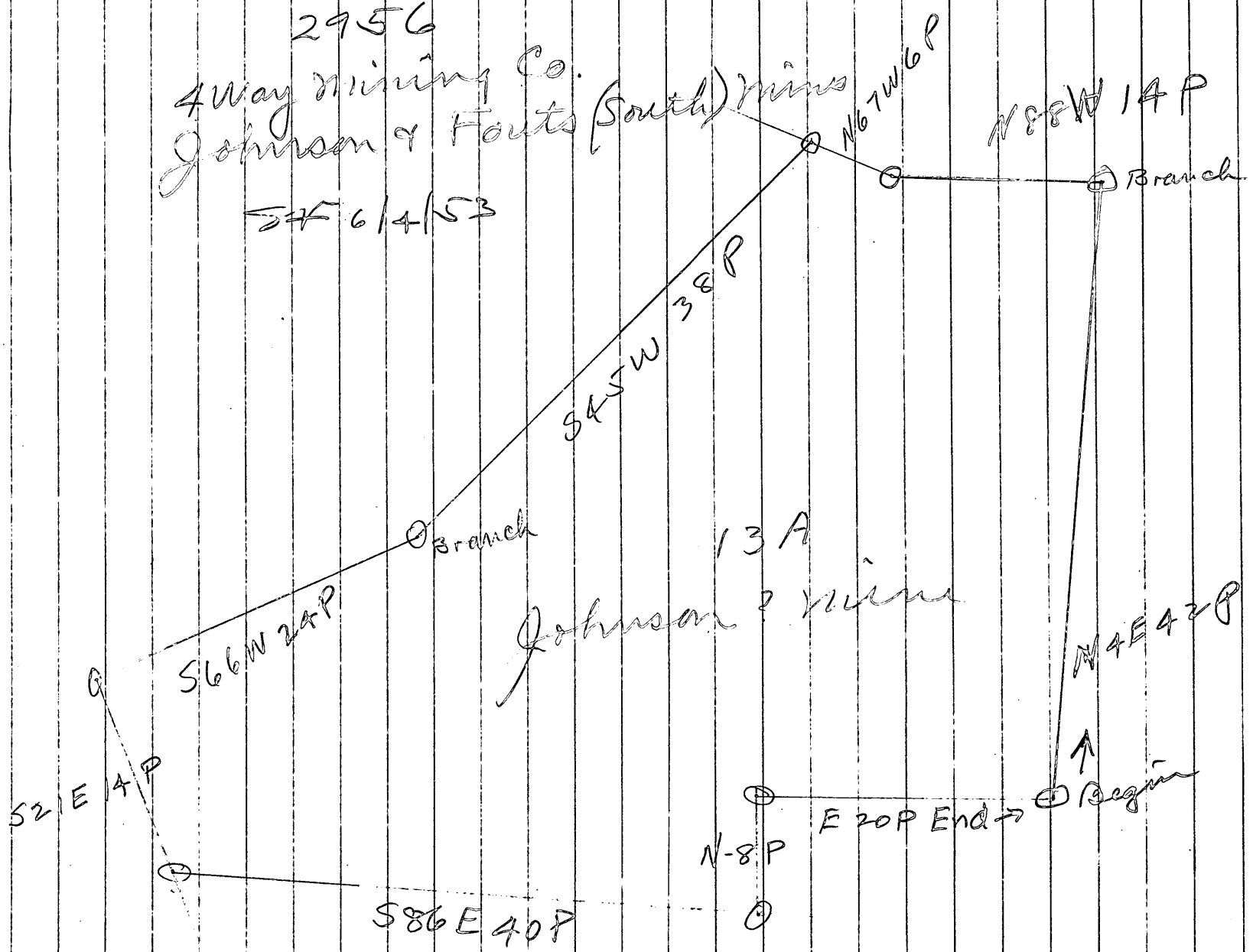
1" = 10 poles.

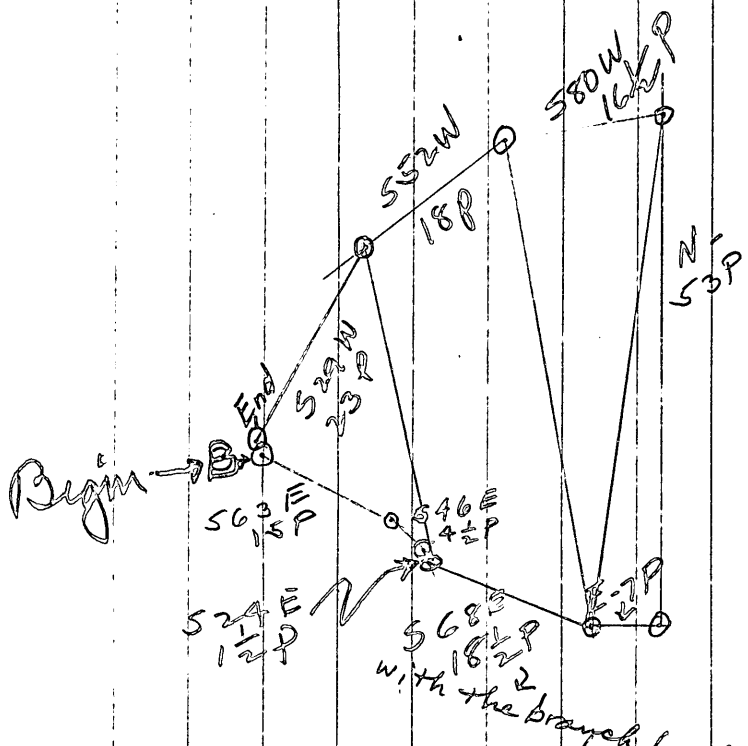
2956

4 Way Mining Co.

Johnson & Houts (South) mine

~~54~~ 6/4/53





From letter 4/10/53
Warren H. Pritchard, Atty
Spruce Pine, N.C.

Description cites 9½ A.

Scaled area - 9½ Acres #

Fourth? (South) Mid MEA 2956

1" = 20 Poles

SF 4/10/53

FILE COPY
SURNAME:

Feitler
Houk
Selfridge

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

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

Subject: Docket No. DMA-2956 - Mica
4 Ray Mining Company
Fouch (Joe Fouts) Mine
Mitchell County, North Carolina

Dear Mr. Laurence:

APR 17 1953

Please arrange for a field examination of the subject mine.

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

Sincerely yours,

J. C. 4/17/53

George C. Selfridge (GCS)
Chairman, Operating Committee

Approved:

J. H. Hedges (JHB)
Member, Bureau of Mines

A. R. Kennedy (ARK)
Member, Geological Survey

Enclosures 4

SAFeitler:gad 4/15/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

Feitler
Hook
Hedges
Selfridge

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

600

Mr. Clyde Norton
4 Way Mining Company
Spruce Pine, North Carolina

APR 17 1953

Re: Docket No. DMEA-2956 - Mica
4 Way Mining Company
Fonsh (Joe Fouts) Mine
Mitchell County, North Carolina

Dear Mr. Norton:

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 VII, Room 13, Post Office Building, Knoxville 2, Tennessee, for a field examination, should he deem it necessary.

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

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

J.C. 4/17/53

SAFeitler:gad 4/15/53
Copy to: Admr. R. File
Docket File
Field Team, Region VII
Operating Committee
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

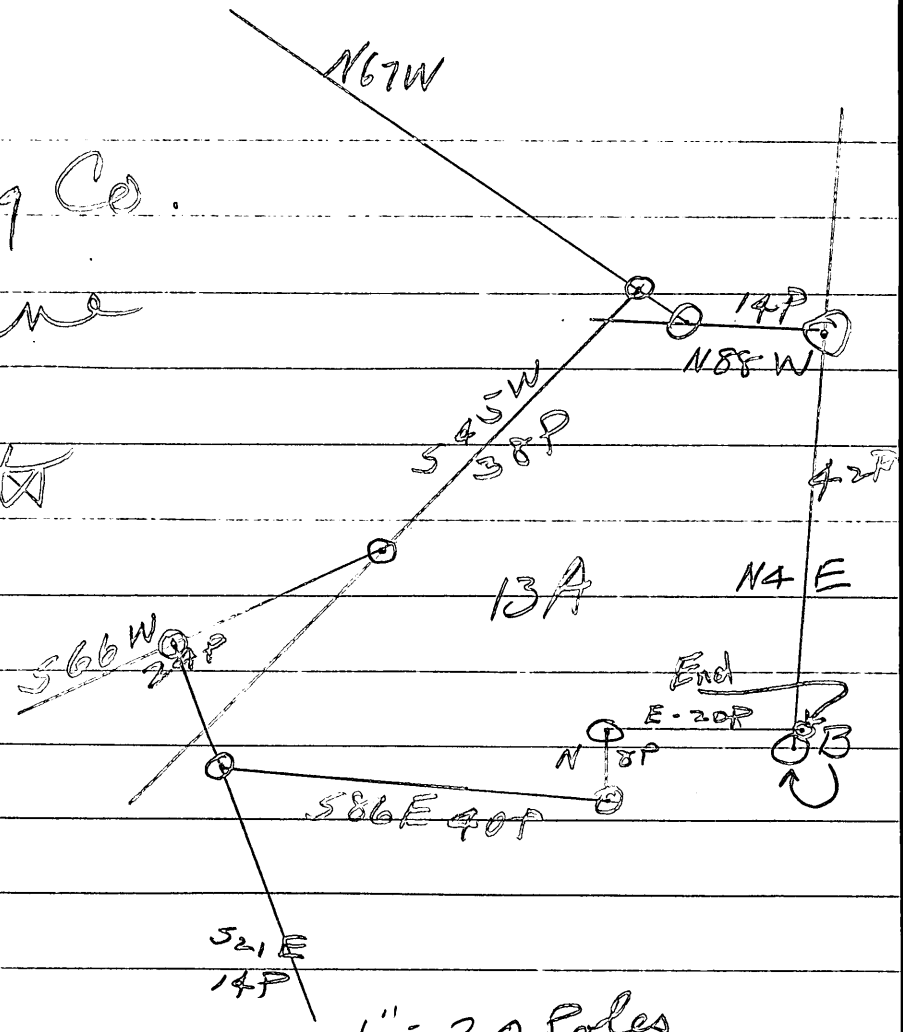
20 R = 1"

2956

4 Way Mining Co.

Fouch Mine

Title is to Mining Rights



1" = 20 Poles

4/13/53

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Room 13, Post Office Building
Knoxville 2, Tennessee

April 13, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 15 1953

Mr. Warren H. Pritchard

Spruce Pine, North Carolina

Re: DMEA-2956 (mica)
4-Way Mining Co.

Dear Mr. Pritchard:

Thanks for your letter of April 10, with description of the two tracts involved in the subject application for aid in exploration.

The descriptions are being forwarded to our Washington office.

Very truly yours,

Robert A. Laurence
Executive Officer, DMEA
Region 7

RAL/mm
cc:
Beck
Lynch
Opr. Com.
Files

LAW OFFICES OF
WARREN H. PRITCHARD
SPRUCE PINE, NORTH CAROLINA
TELEPHONE 272

36
DMEA-2956

April 10, 1953.

Defense Minerals Administration
Department of the Interior
Room 13, Post Office Bldg.
Knoxville, Tennessee

Re: Application for Exploration
Project by 4 Way Mining Co.,
Spruce Pine, N. C.

Gentlemen:

I understand from Mr. Barksdale and Mr. Norton that in the recent description of lands on which they sought a loan that one tract of their property was omitted. The description of the two tracts are as follow:

FIRST TRACT: Lying and being on the waters of Gouges Branch, a tributary of Toe River, adjoining the lands of Ernest Johnson, Crawford Sparks, Melvin Propst, and others and BEGINNING on a black oak, a corner to the one acre tract sold to Sparks, and in the old line and runs north 4 east 42 poles to a stake in the branch near a spring; thence north 88 west 14 poles to a stake at the old Buckeye, now gone; thence north 67 west 6 poles to a stake; thence south 45 west 38 poles to a stake in a branch; thence south 66 west 24 poles to a small poplar on a ridge; thence south 21 east 14 poles to a stake in the old line; thence south 86 east 40 poles to a stake at corner of one-acre tract; thence north 8 poles to a stake; thence east 20 poles to the BEGINNING, containing 13 acres.

SECOND TRACT: Adjoining the lands of Clyde Buchanan, D. M. Thomas and others, and BEGINNING on a dogwood and running south 63 east 15 poles to a rock; thence south 46 east 4½ poles to a locust; south 24 east 1½ poles to a stake; thence south 68 east up the branch 18½ poles to a Buckeye; thence east 7 poles to a stake in the old north and south line; thence north with said line 53 poles to a double maple on the ridge; thence south 80 west 16½ poles to a poplar on a rock; south 52 west 18 poles to a stake at the spring; thence south 29 west 23 poles to the BEGINNING, and containing 9½ acres.

Deed from W. C. McKinney and wife Lillie McKinney to H. T. Barksdale, Frank Cook, Clyde Norton and Jesse McKinney, recorded in Book 115 of Deeds at page 248, Mitchell County, North Carolina registry.

Very truly yours,

Warren H. Pritchard

Warren H. Pritchard

IN REPLY REFER TO:

G-MD-CNM

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

April 9, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 10 1953

Memorandum

REVIEW OF APPLICATION DMEA-2956 (Mica).

To: L. G. Houk, Defense Minerals Exploration Administration.
From: Basil G. Dean, U. S. Geological Survey.
Applicant: Partnership consisting of H.T. Barksdale, Frank Cook, Clyde Norton and Jesse McKinney.
Name of property: Fouch (Joe Fouts) mine.
Location of property: Mitchell County, North Carolina. 14 miles Northwest of Spruce Pine. About 1/4 mile East of Clinchfield Railroad and about 1/2 mile West of Bandana Post Office on gravel road intersecting with North Carolina Highway 80.
Estimated cost of project: $12,885.
Summary of applicant's proposal:
(1) Surface cuts.
(2) Rehabilitate old workings.
(3) Drifts.
Sources of information on applicant's property:
(1) This property, called the Fouch mine by applicants, is described in unpublished report in Survey files on Ernest Johnson Mica mine by James R. Wolfe, Jr., September 9, 1944.
(2) Colonial Mica Corporation purchase records.
Comments:
(1) The Fouch workings are on two pegmatites, both of which are also exposed on the Johnson property to the north.
(2) Wolfe says the outlook for future production is good. The northeast plunge, however, suggests that the Johnson property may be more promising than the Fouch, though I am not sure where the property lines are.
(3) The mica occurs in shoots and small concentrations, but in general the deposit was not well segregated and zoning is not clear.
(4) During war years this mine produced mica valued at $11,031.12.
(5) The quality of the mica is good.
RECOMMENDATION:
Field team examination.

Basil G. Dean

Basil G. Dean

Mr. Fuller

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 7 1953

April 7, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2956, Mica, Four Way Mining Company, Mitchell County, North Carolina

No data are available in this office on subject property. It is suggested that the field team visit this property when they are in that vicinity to ascertain if an exploration program is justified.

W. F. Dietrich

W. F. Dietrich

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

March 30, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region VII

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 VII.

DMEA-2956 4 Way Mining Company

ROBERT E. ADAMS

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

33980

March 30, 1953

Mr. Clyde Norton
4 Way Mining Company
Spruce Pine
North Carolina

Subject: DMEA-2956
Re: Exploration Assistance

My dear Mr. Norton:

The receipt of your application dated March 24, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2956 and referred to the Nonmetallic Minerals Division.

Kindly refer to DMEA-2956 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Operations Control and
Statistics Division

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

March 26, 1953

Defense Minerals Administration
MAR 30 1953

Memorandum

To: Operating Committee, D M E A - Washington

From: Executive Officer, D M E A - Region 7

Subject: Application for Exploration. 4 Way Mining Co. N. C.

Transmitted herewith are three copies of an application by the 4 Way Mining Company, a partnership consisting of H. T. Barksdale, Frank Cook, Clyde Norton and Jesse McKinney, Spruce Pine, North Carolina. One copy has been retained in this office according to the usual procedure as instructed by Operating Committee's Memo No. 11, dated 2/4/52.

Robert A. Laurence

Robert A. Laurence

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. DMEA-2956
Metal or Mineral
Date Received 3-30-53
Estimated Cost
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: 4 Way Mining Company, a partnership consisting of H. T. Barksdale, Frank Cook, Clyde Norton and Jesse McKinney, address- Spruce Pine, North Carolina.

(*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. A Partnership, Spruce Pine, N. C.

(*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.
As Above

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

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

(*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
Owner of Mineral Interest

(*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.

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

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

(*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. See attached sheet

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

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

16—66551-1

5. *The exploration project.*—(State the mineral or minerals for which you to explore Strategic Ruby Mica

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

(*c*) The work will start within 30 days and be completed within 6 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. See attached sheet

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

(*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? Cash and some Labor

[X] Money [ ] Use of equipment owned by you [X] 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 March 24, 1953.

Four Way Mining Company
(Applicant)

By Clyde M. Norton

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

3. Description of real property "Lying and being on the waters of Gouges Branch a tributary of Toe River, in Snow Creek Township, Mitchell County, adjoining the lands of Ernest Johnson, Crawford Sparks, Melvin Prppst, and others, and more particularly described as follows: BEGINNING on a black oak, a corner to the one-acre tract sold to Sparks, and in the old line and runs north 4 east 42 poles to a stake in the branch near a spring; thence north 88 west 14 poles to a stake at the old Buckeye, now gone; thence north 67 west 6 poles to a stake; thence south 45 west 38 poles to a stake in the branch; thence south 66 west 24 poles to a small poplar on a ridge; thence south 21 east 14 poles to a stake in the old line; thence south 86 east 40 poles to a stake at corner of one-acre tract; thence north 8 poles to a stake; thence east 20 poles to the BEGINNING, containing 13 acres." Being all of the minerals and mineral substances of every kind and nature in, on and under the premises described, together with all of the usual and customary mining rights, etc.,

4 (a) Minor operations are now being carried on mostly of exploration but some mica has already been discovered and there are excellent prospects for further exploration.

(b) One mine on this property known as Fouch Mine has been worked from time to time for several years prior to World War II and was worked quite extensively during the period 1940-1943 and some high grade sheet and block mica was produced. After mica prices were cut mining was abandoned. Now the plan is to make new headings and open up some old workings.

(c) The partners have little geological data regarding the Fouch Mine but they know it yielded considerable mica during 1943 and they know there exists a mica bearing vein measuring about 10 feet in width on said property and it is believed that said vein is largely unexplored. The property is about midway between what is known locally as the Abernathy Big Cut and the Sinkhole Mine and apparently on the same lead, and both of these mines produced a great deal of high grade mica over a period of years.

(d) Property is located about ½ mile east of Clinchfield Railroad and about ½ mile west of Bandana Post Office on gravel road intersecting with N. C. Highway #80. The mine is located approximately 14 miles northwest of Spruce Pine, N. C. Spruce Pine is the principal local market for sheet and pattern mica.

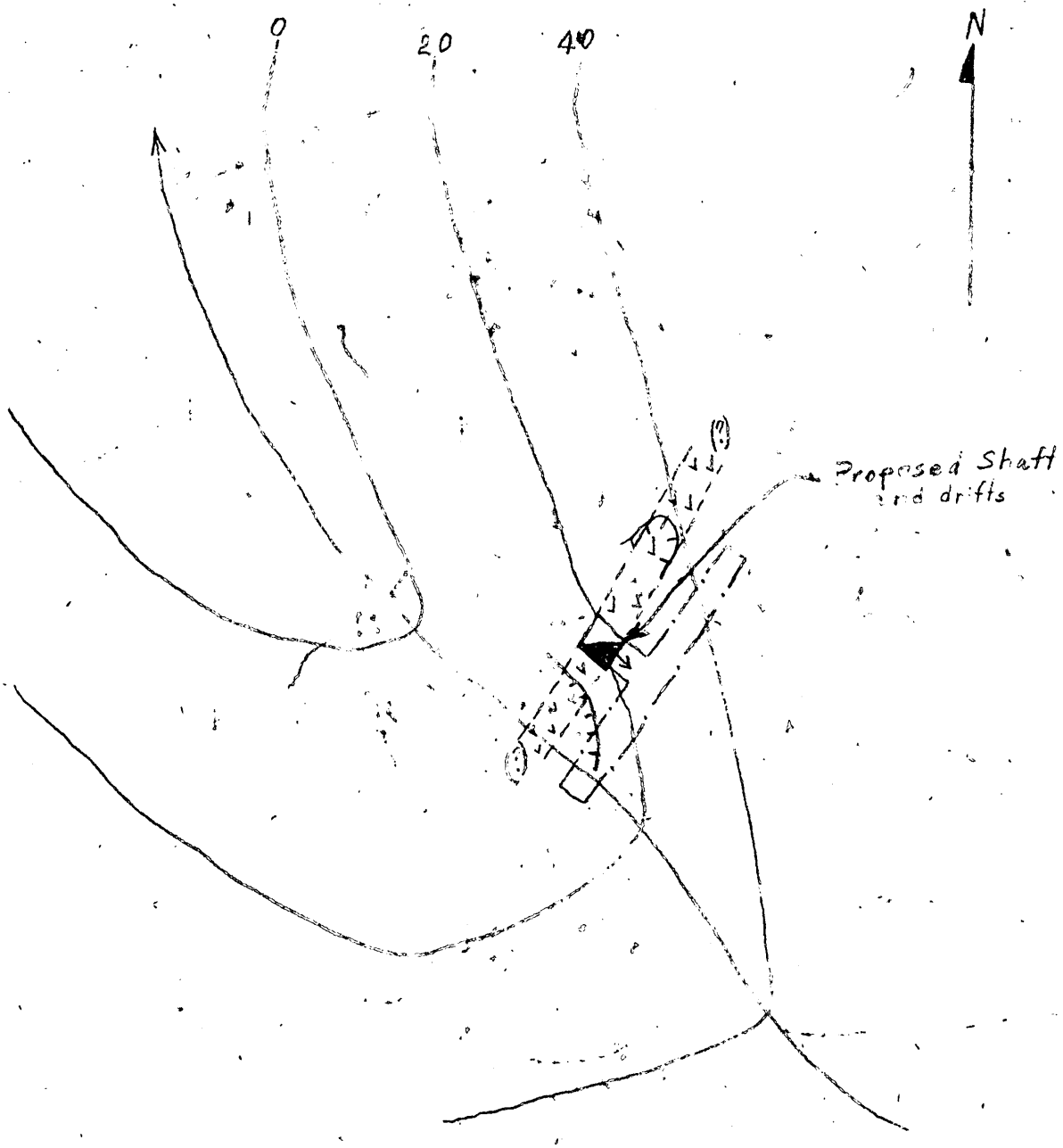
(e) Manpower, materials, supplies and power are available for adequate working of the mine.

5. (b) It is desired to clean out and open up the old workings and to run headings to get on the veins and also desire to open up several outcroppings of the vein on the property which have not previously been explored or worked.

(d) Messrs Barksdale, Cook and McKinney have had considerable past experience in mining operations especially with mica mining.

6. Estimate of Costs:

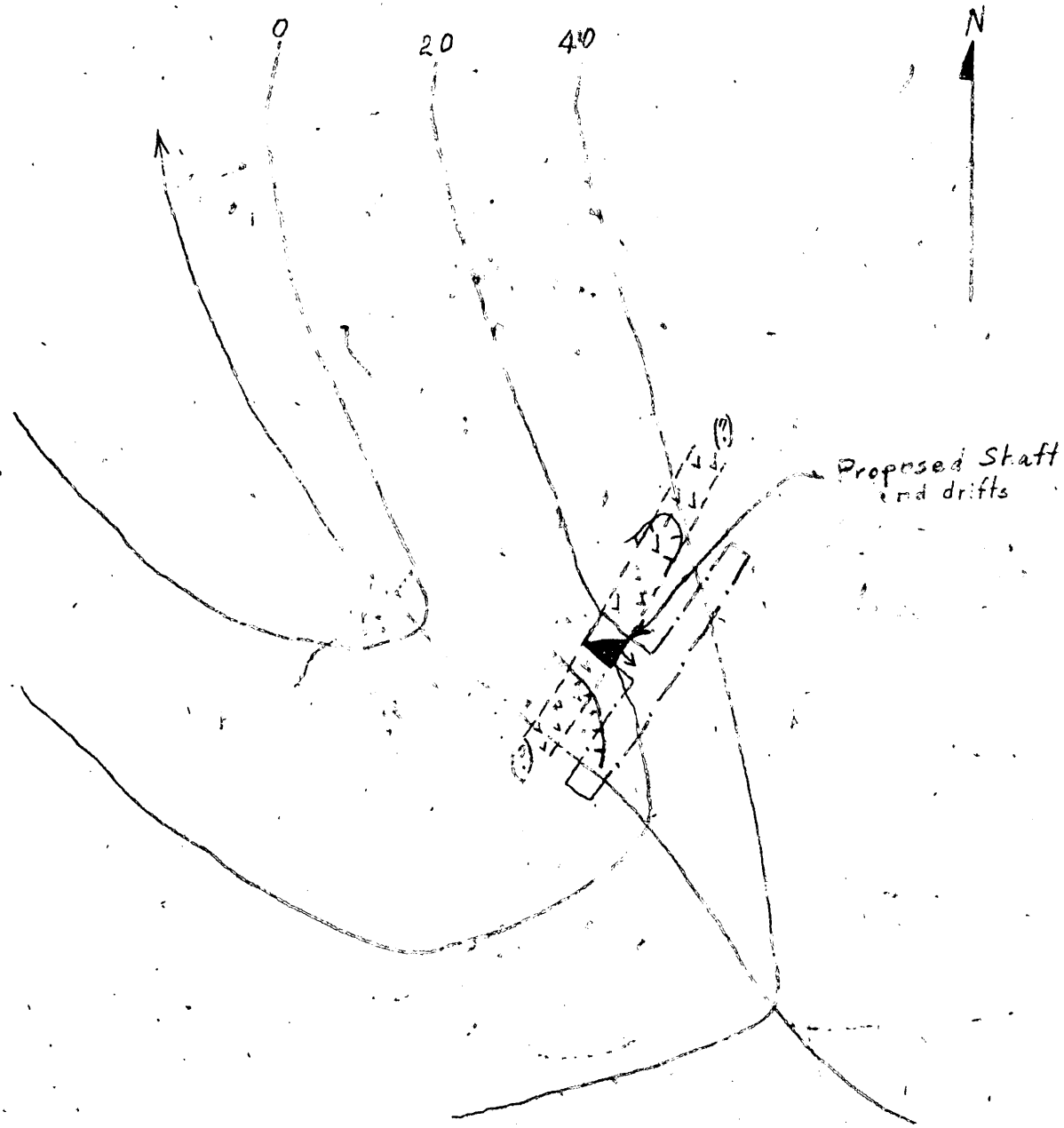
Rent on Compressor-6 mos. @ $100 per month	$600.00
No supervisors other than partners themselves.	
9 miners @ $1.00 per hour to work 3 shifts-6 mos.	9360.00
Tiling Creek with 4 ft. tile	1250.00
Wet Drill	360.00
Supplies	1040.00
Power and Fuel	275.00
Total	$12,885.00



Sketch of
Fouts (south) Prospect
Mitchell Co., N.C

0 40' 80'
Scale

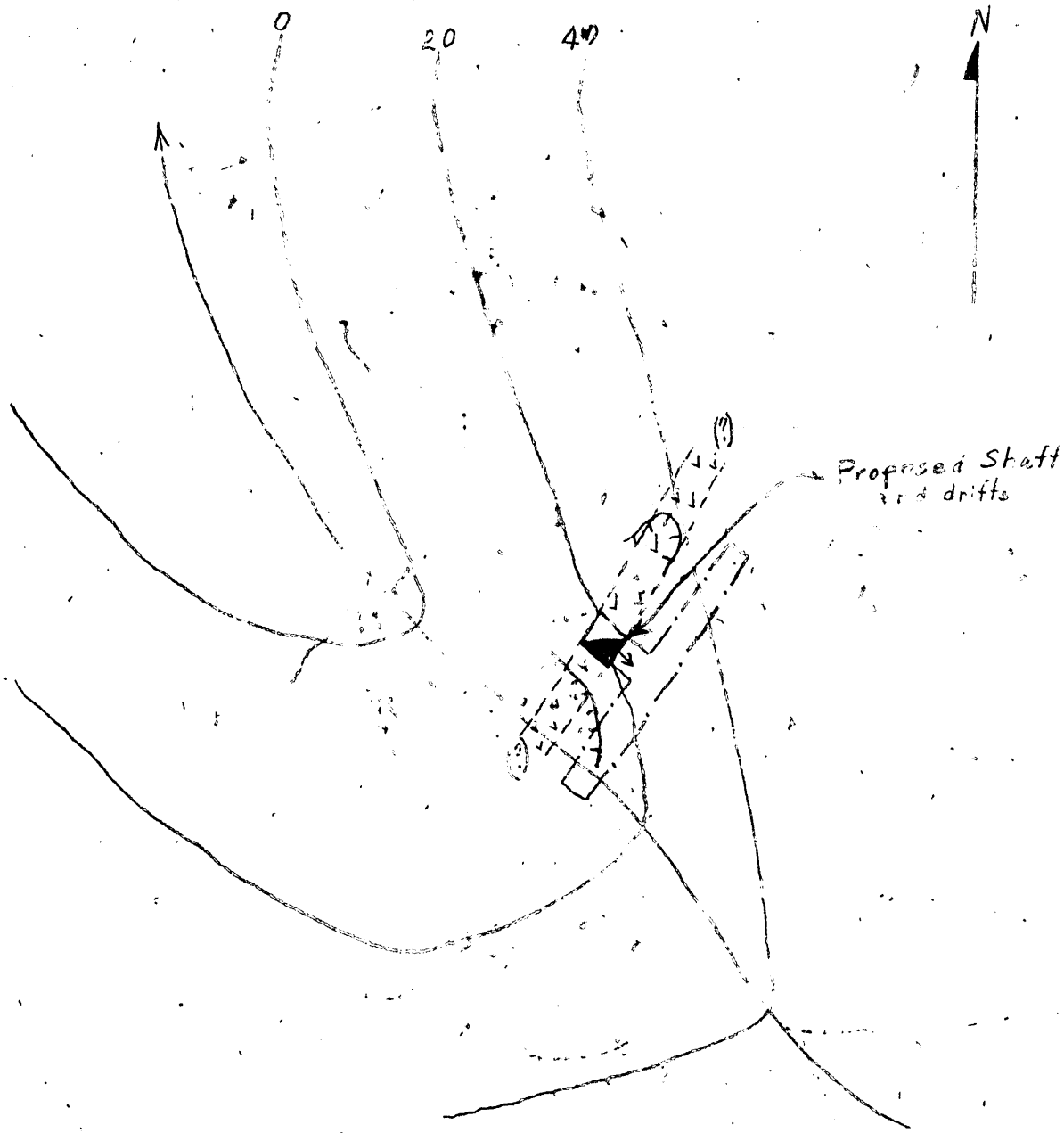
DMEA-2956 (mica)



Sketch of
Fouts (south) Prospect
Mitchell Co., N.C

0 40' 80'
Scale

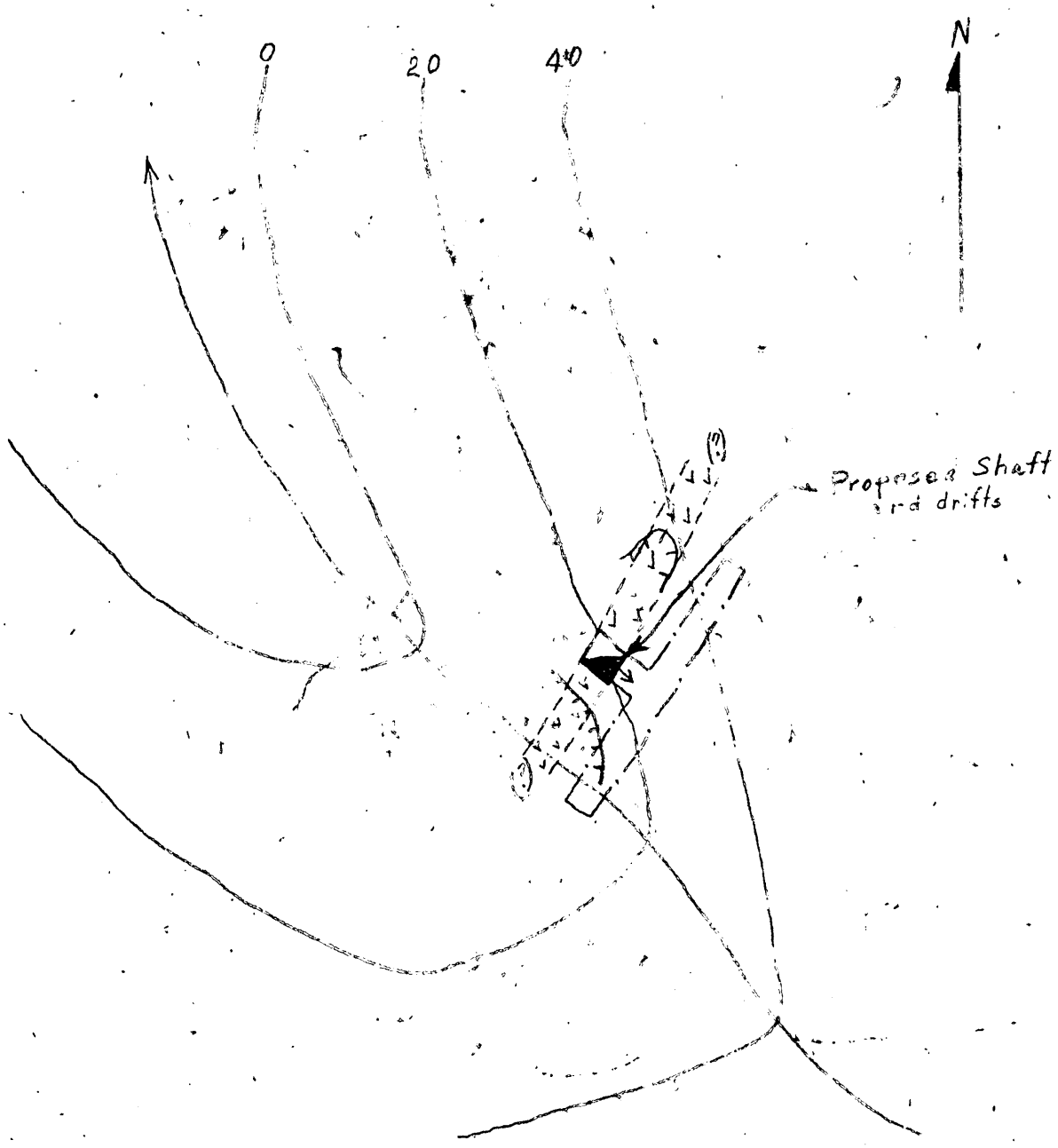
DMEA-2956 (mica)



Sketch of
Fouts (south) Prospect
Mitchell Co., N.C

0 40' 80'
Scale

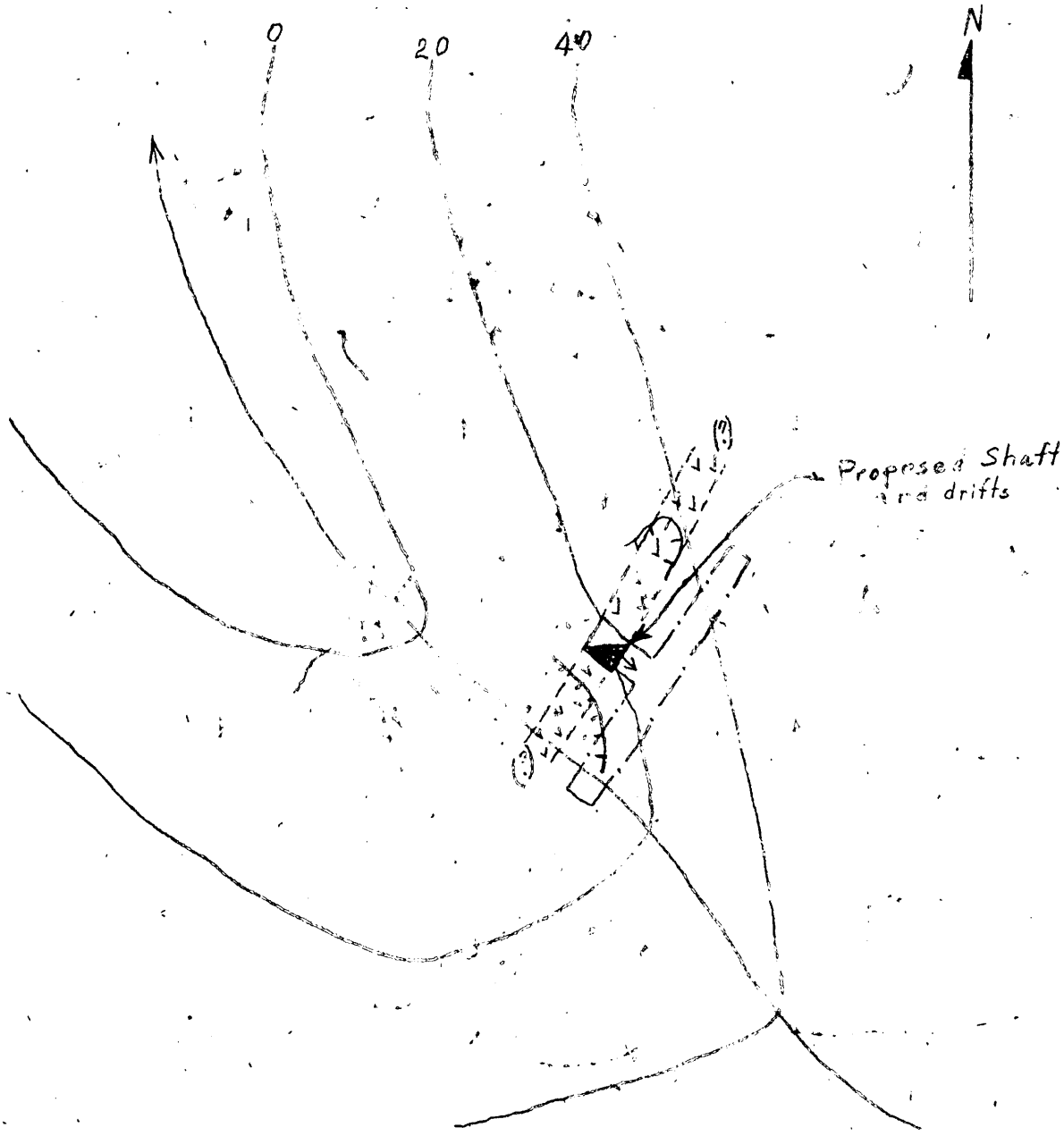
DMEA-2956 (mica)



Sketch of
Fouts (south) Prospect
Mitchell Co., N.C

0 40' 80'
Scale

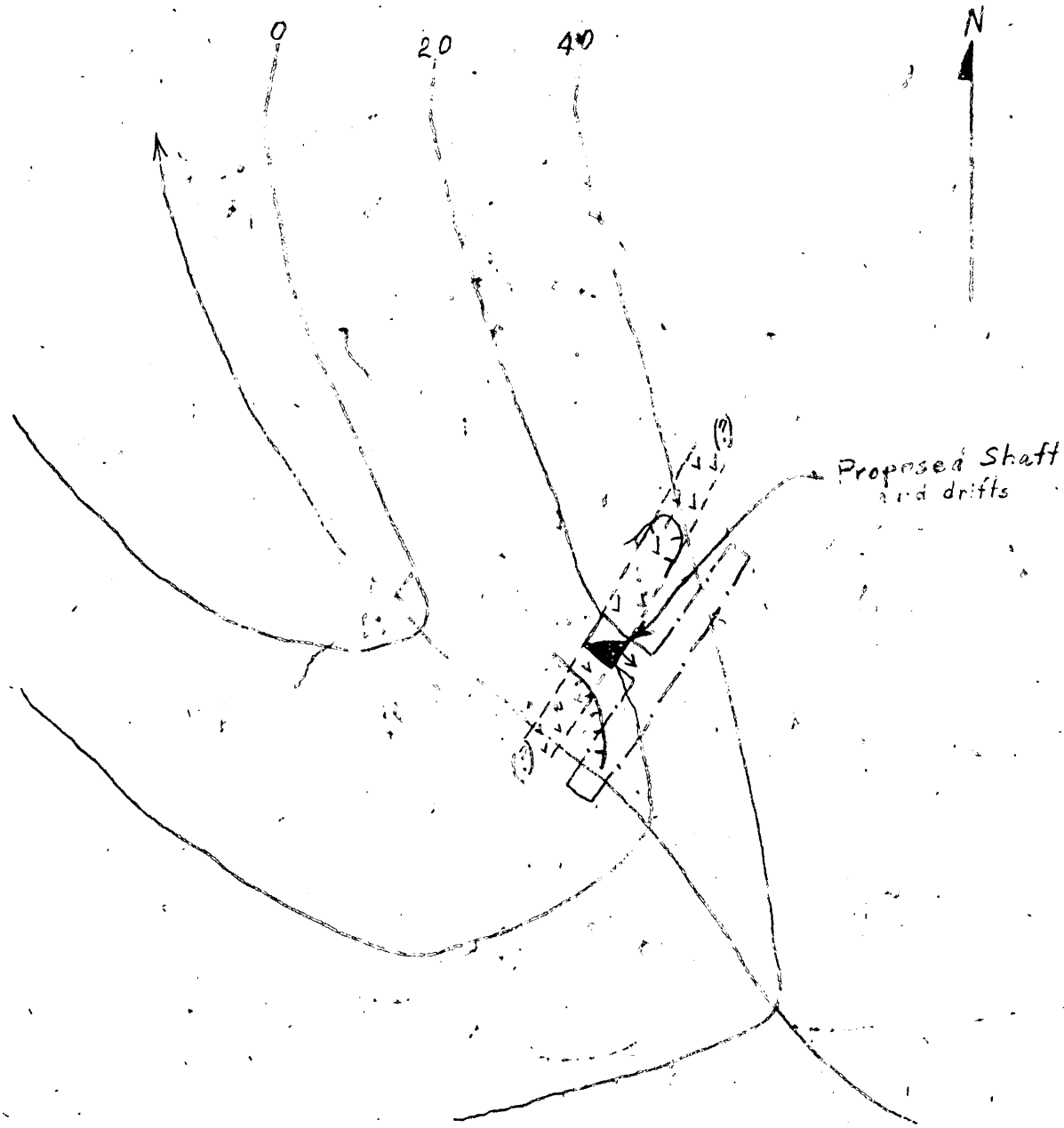
DMEA-2956 (mica)



Sketch of
Fouts (south) Prospect
Mitchell Co., N.C

0 40' 80'
Scale

DMEA-2956 (mica)



Sketch of
Fouts (south) Prospect
Mitchell Co., N.C

0 40' 80'
Scale

DMEA-2956 (mica)

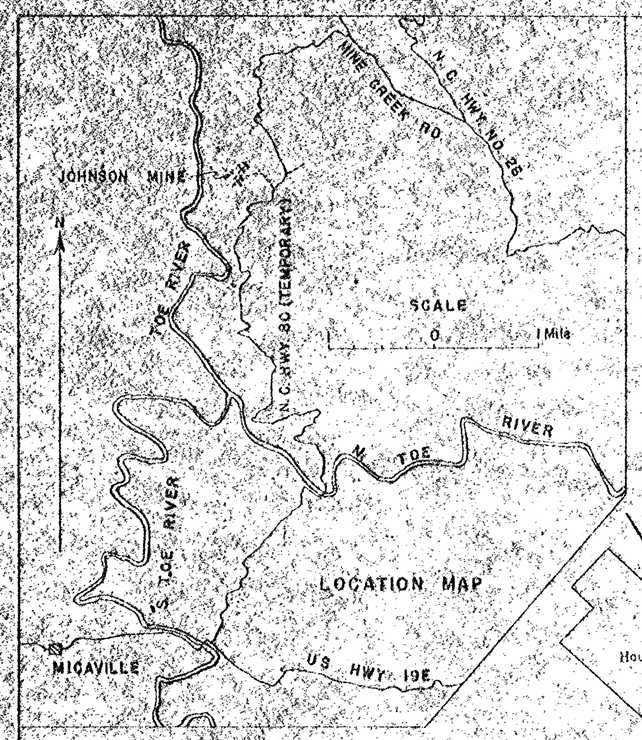
UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS
EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

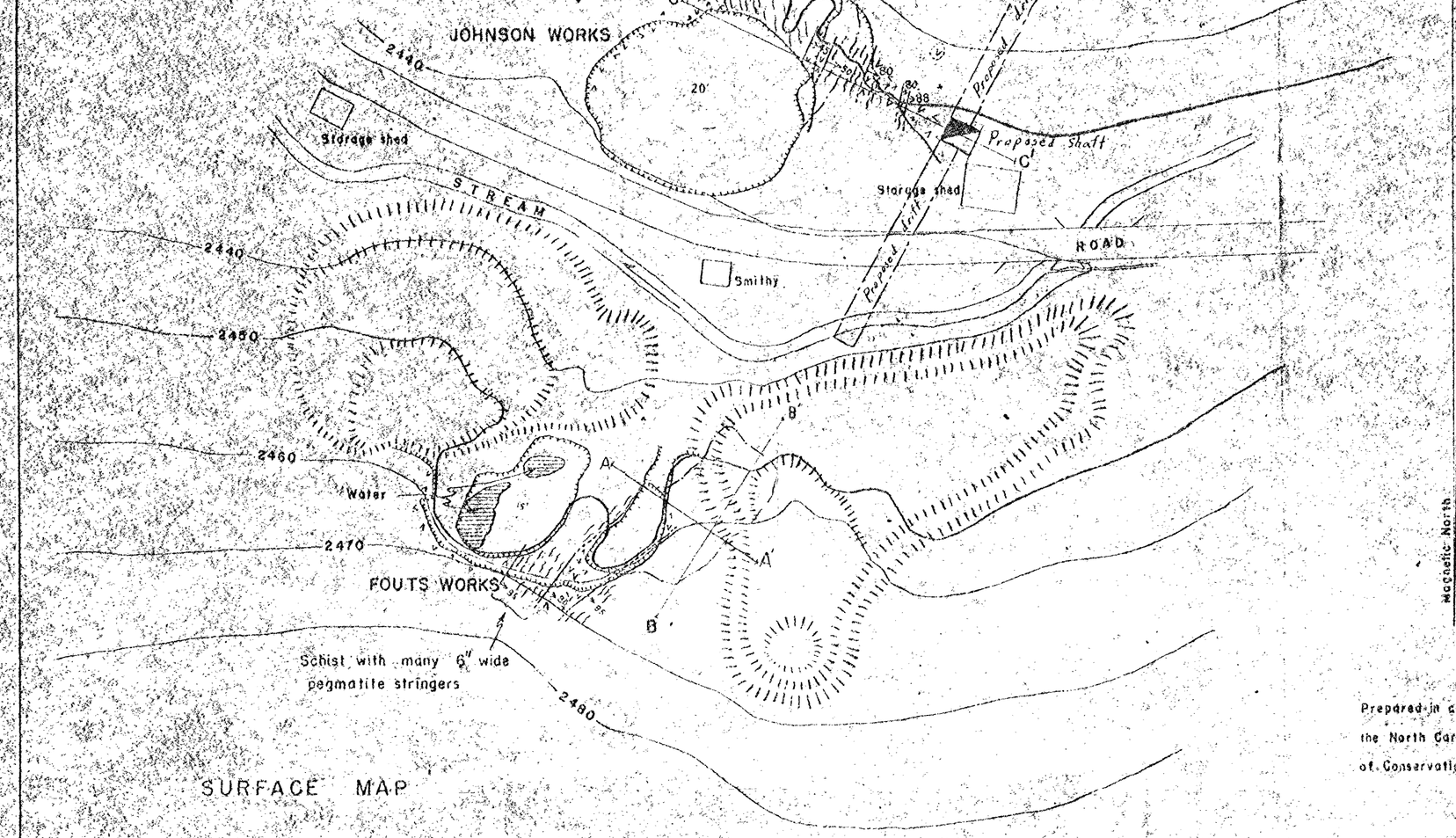
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(PMGC)

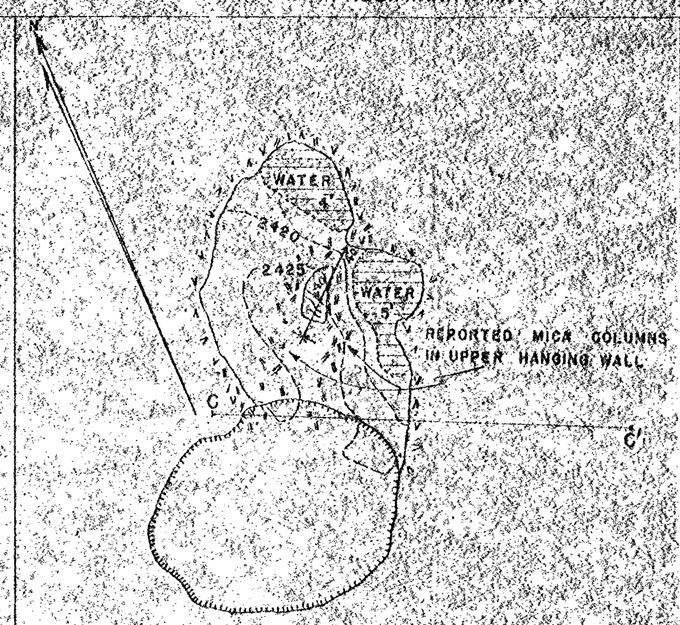
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STRATEGIC MINERALS INVESTIGATIONS
PRELIMINARY MAP

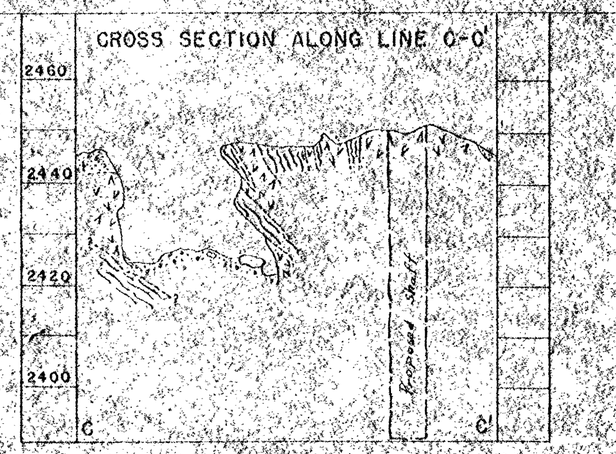




SURFACE MAP



UNDERGROUND PLAN JOHNSON WORKS

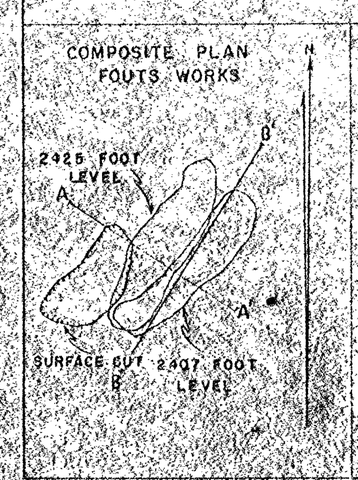


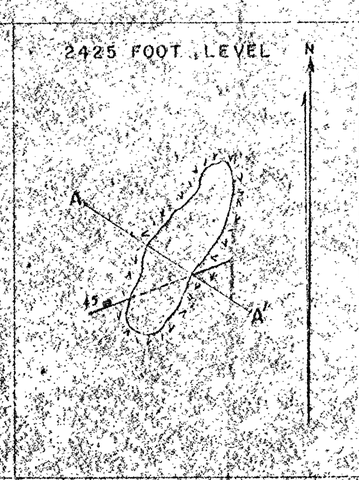
Magnetic North
True North

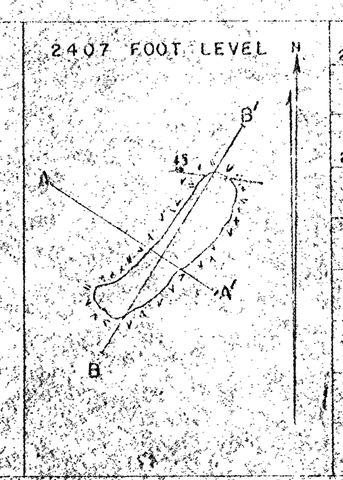
Prepared in cooperation with the North Carolina Department of Conservation and Development

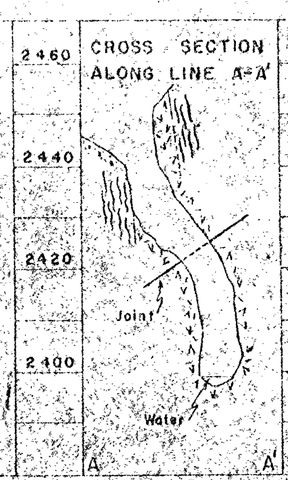
EXPLANATION

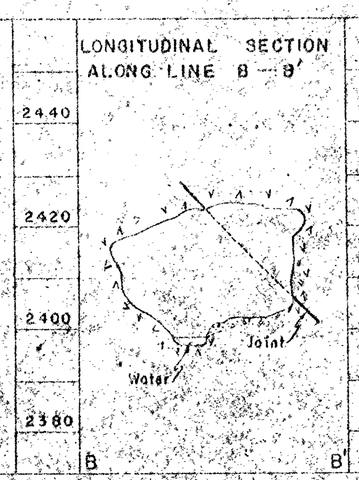
- Dump material
- Quartz-plagioclase pegmatite
- Quartz rich pegmatite
- Scrap mica zone
- Sheet mica zone
- Biotite-muscovite gneiss
- 40 Strike and dip of foliation
- 45 Strike and dip of joint
- 40 Axis of roll in pegmatite contact, showing pitch
- 80 Contact, location accurate, showing dip
- Contact, location approximate
- Limit of outcrop
- 10' Edge of open cut, showing depth
- Outline of underground workings
- Projected outline of underground workings
- Contours on mine floor
- Dump
- Shaft, showing depth











Mapped by
James R. Wolfe, Jr.
Edward Ellingwood
August 7-8, 1944

SCALE IN FEET
20 10 0 20 40 60 80 100

Contour interval 10 feet. Datum assumed

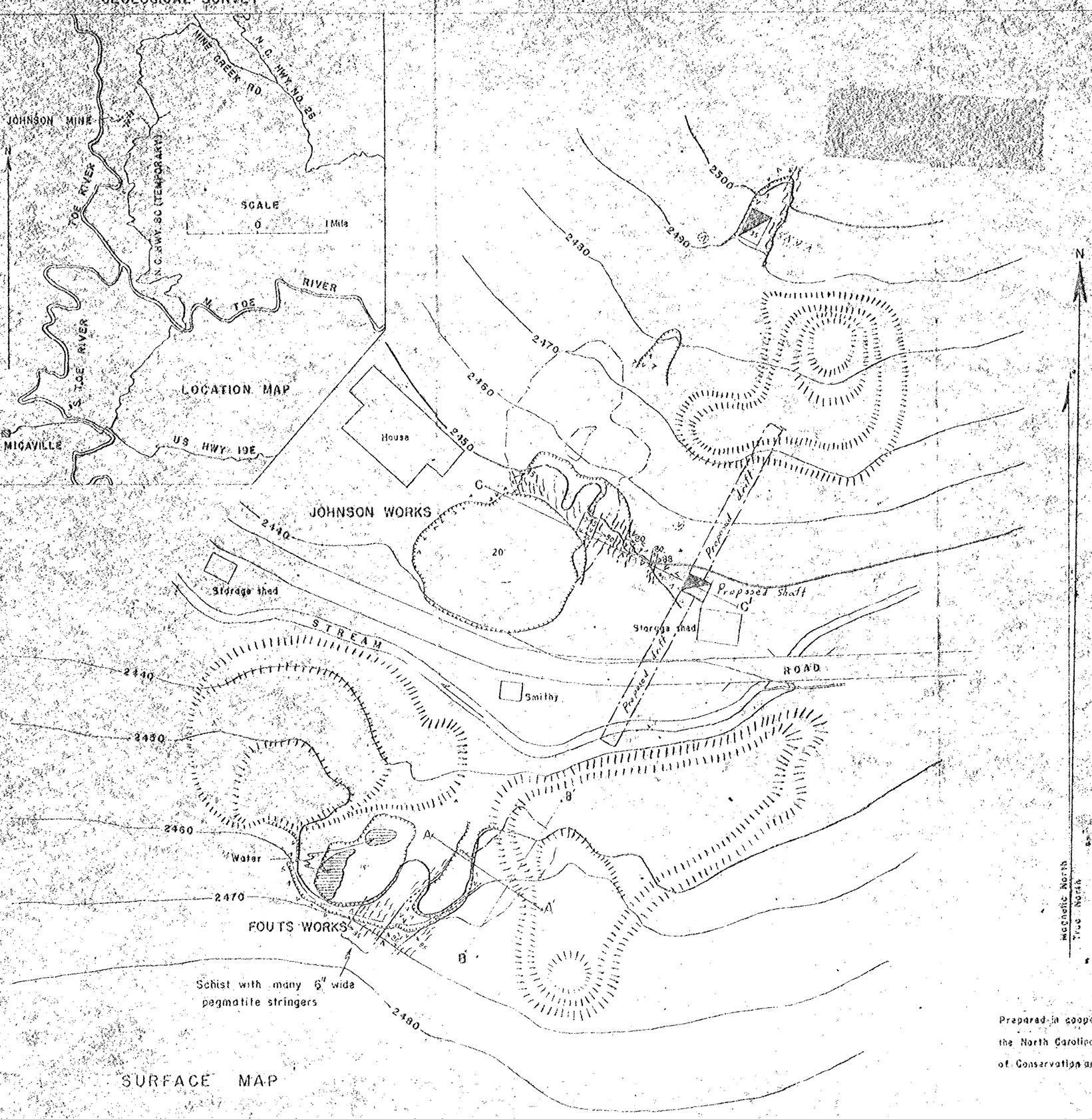
DMEA-2186

ERNEST JOHNSON MICA MINE, MITCHELL COUNTY, NORTH CAROLINA

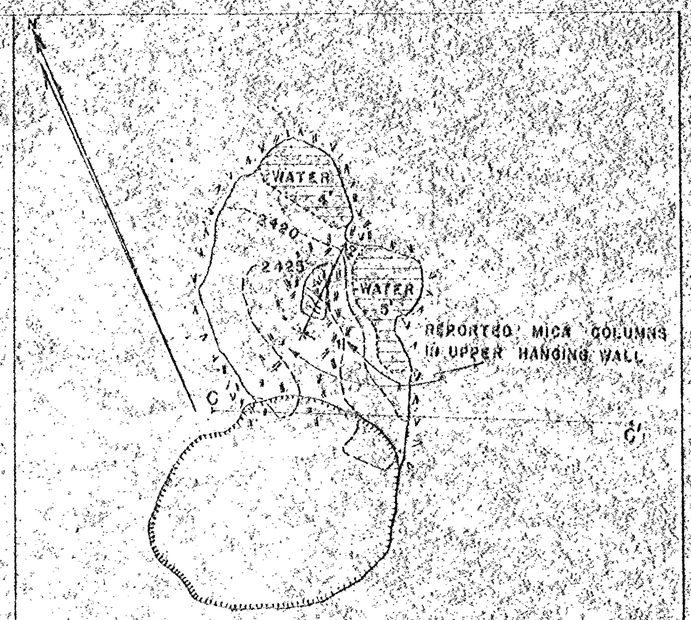
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STRATEGIC MINERALS INVESTIGATIONS
PRELIMINARY MAP

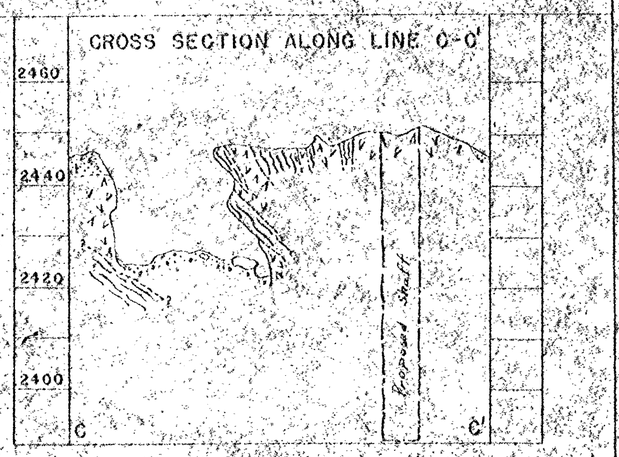
LOCATION MAP



SURFACE MAP



UNDERGROUND PLAN JOHNSON WORKS

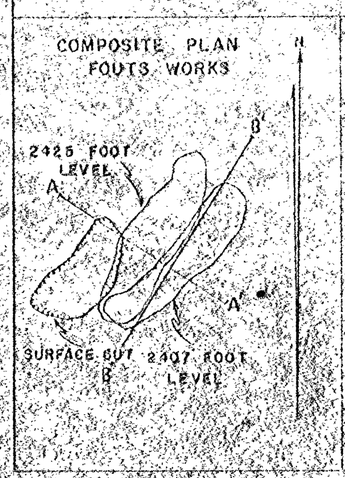


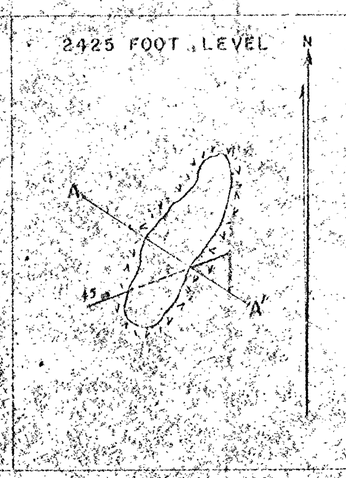
Magnetic North
True North

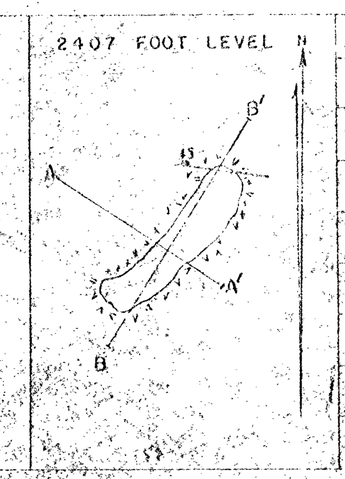
Prepared in cooperation with the North Carolina Department of Conservation and Development

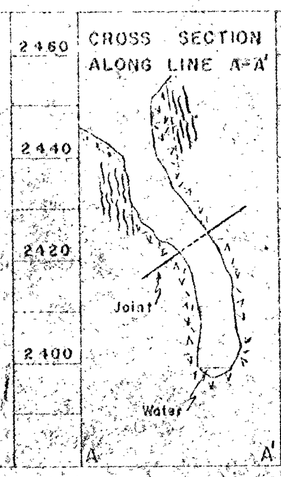
EXPLANATION

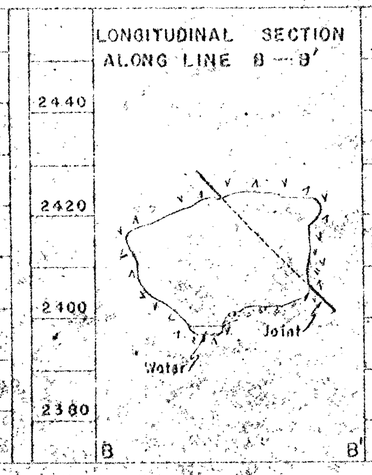
- Dump material
- Quartz-plagioclase pegmatite
- Quartz rich pegmatite
- Scrap mica zone
- Sheet mica zone
- Biotite-muscovite gneiss
- Strike and dip of foliation
- Strike and dip of joint
- Axis of roll in pegmatite contact, showing pitch
- Contact, location accurate, showing dip
- Contact, location approximate
- Limit of outcrop
- Edge of open cut, showing depth
- Outline of underground workings
- Projected outline of underground workings
- Contours on mine floor
- Dump
- Shaft, showing depth











Mapped by
James R. Wolfe, Jr.
Edward Ellingwood
August 7-8, 1944

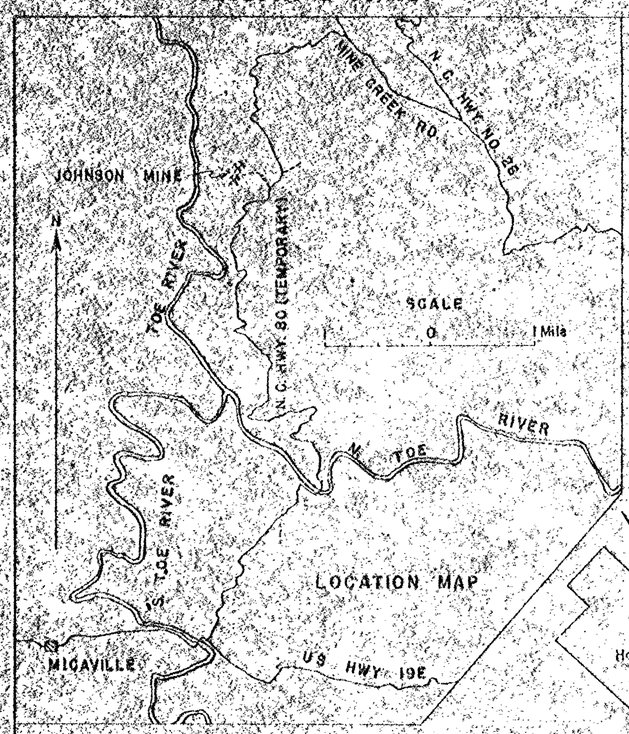
SCALE IN FEET
20 10 0 20 40 60 80 100
Contour interval, 10 feet. Datum assumed

DMEA-2186

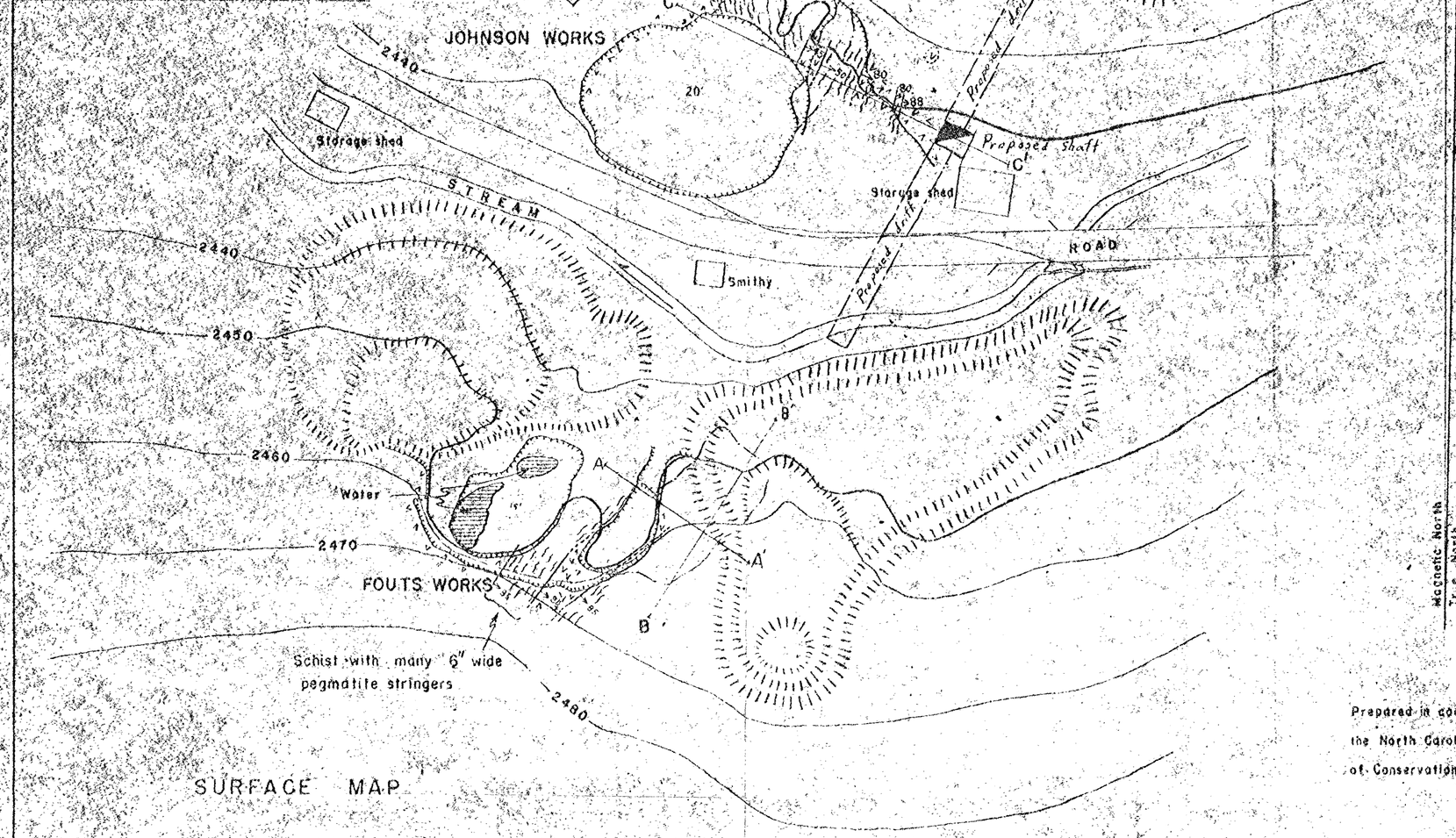
ERNEST JOHNSON MICA MINE, MITCHELL COUNTY, NORTH CAROLINA

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

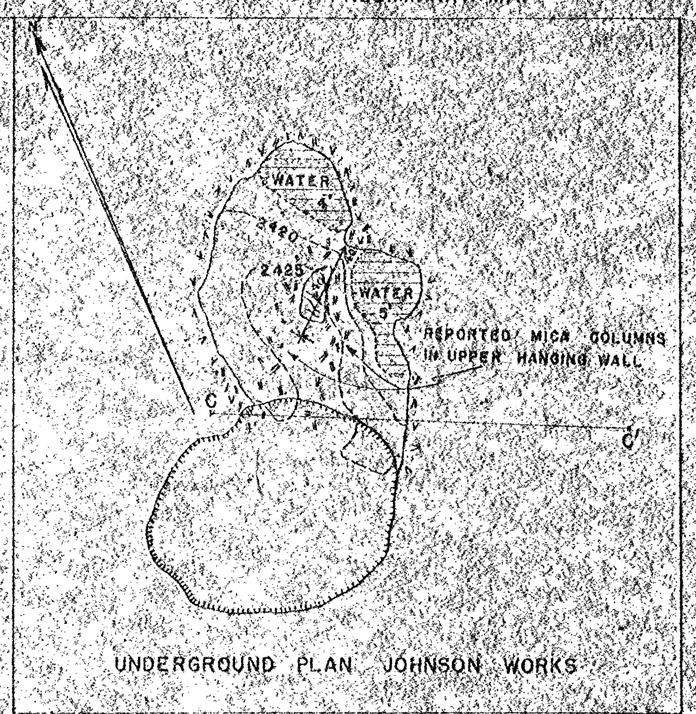
STRATEGIC MINERALS INVESTIGATIONS
PRELIMINARY MAP



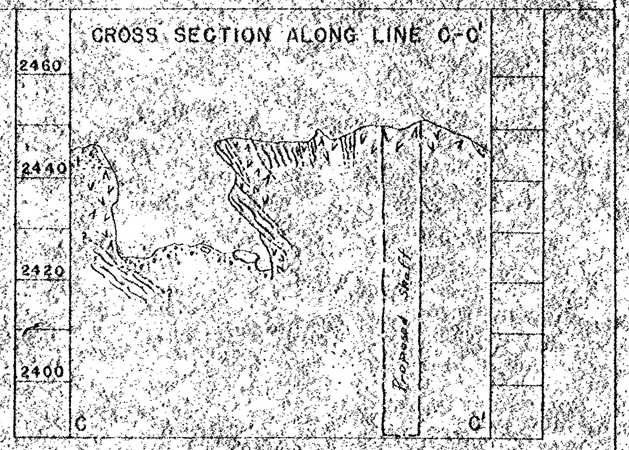
LOCATION MAP



SURFACE MAP



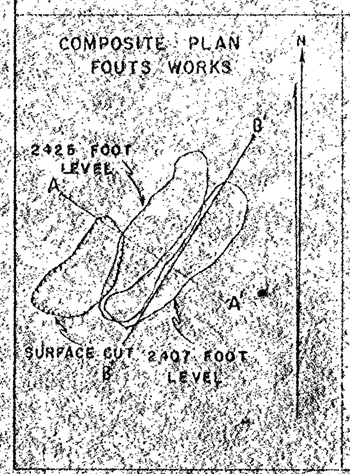
UNDERGROUND PLAN JOHNSON WORKS

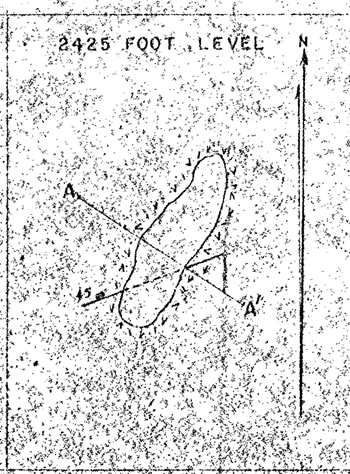


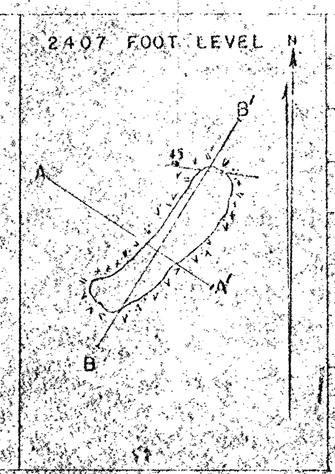
Prepared in cooperation with the North Carolina Department of Conservation and Development

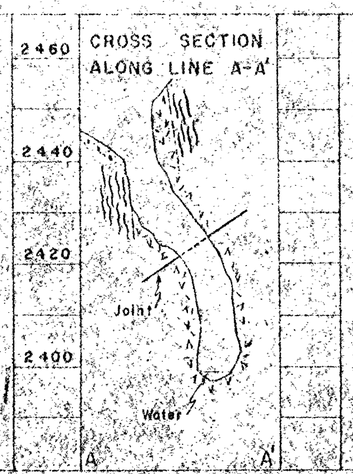
EXPLANATION

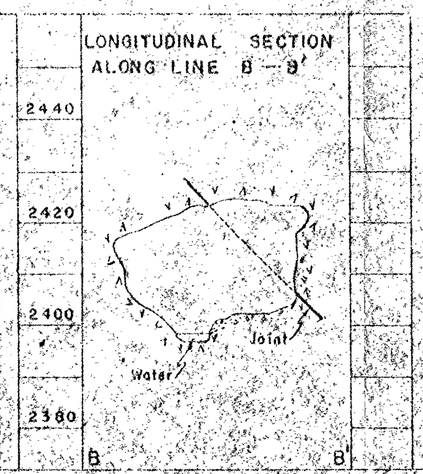
- Dump material
- Quartz-plagioclase pegmatite
- Quartz rich pegmatite
- Scrap mica zone
- Sheet mica zone
- Biotite-muscovite gneiss
- 40 Strike and dip of foliation
- 45 Strike and dip of joint
- 40 Axis of roll in pegmatite contact, showing pitch
- 80 Contact, location accurate, showing dip
- Contact, location approximate
- Limit of outcrop
- 10' Edge of open cut, showing depth
- Outline of underground workings
- Projected outline of underground workings
- Contours on mine floor
- Dump
- Shaft, showing depth











Mapped by
James R. Wolfe, Jr.
Edward Ellingwood
August 7-8, 1944

SCALE IN FEET
20 10 0 20 40 60 80 100

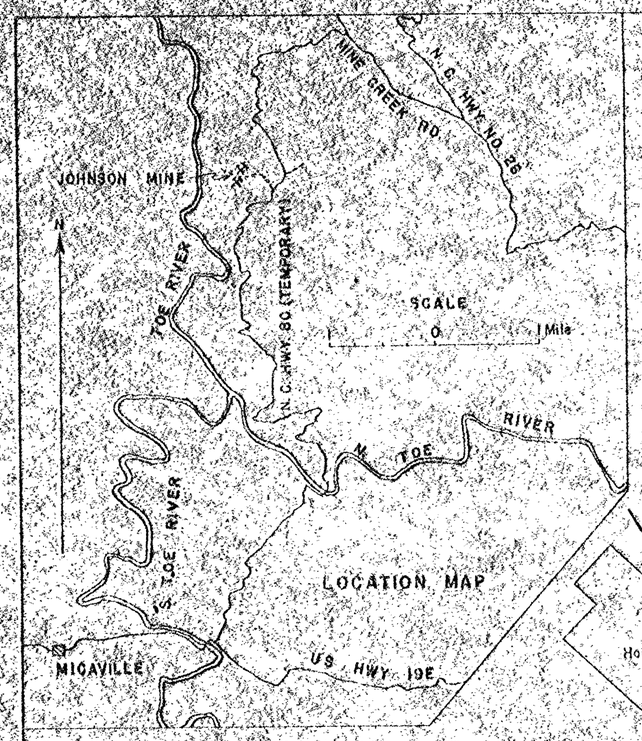
Contour interval 10 feet. Datum assumed

DMEA-2154

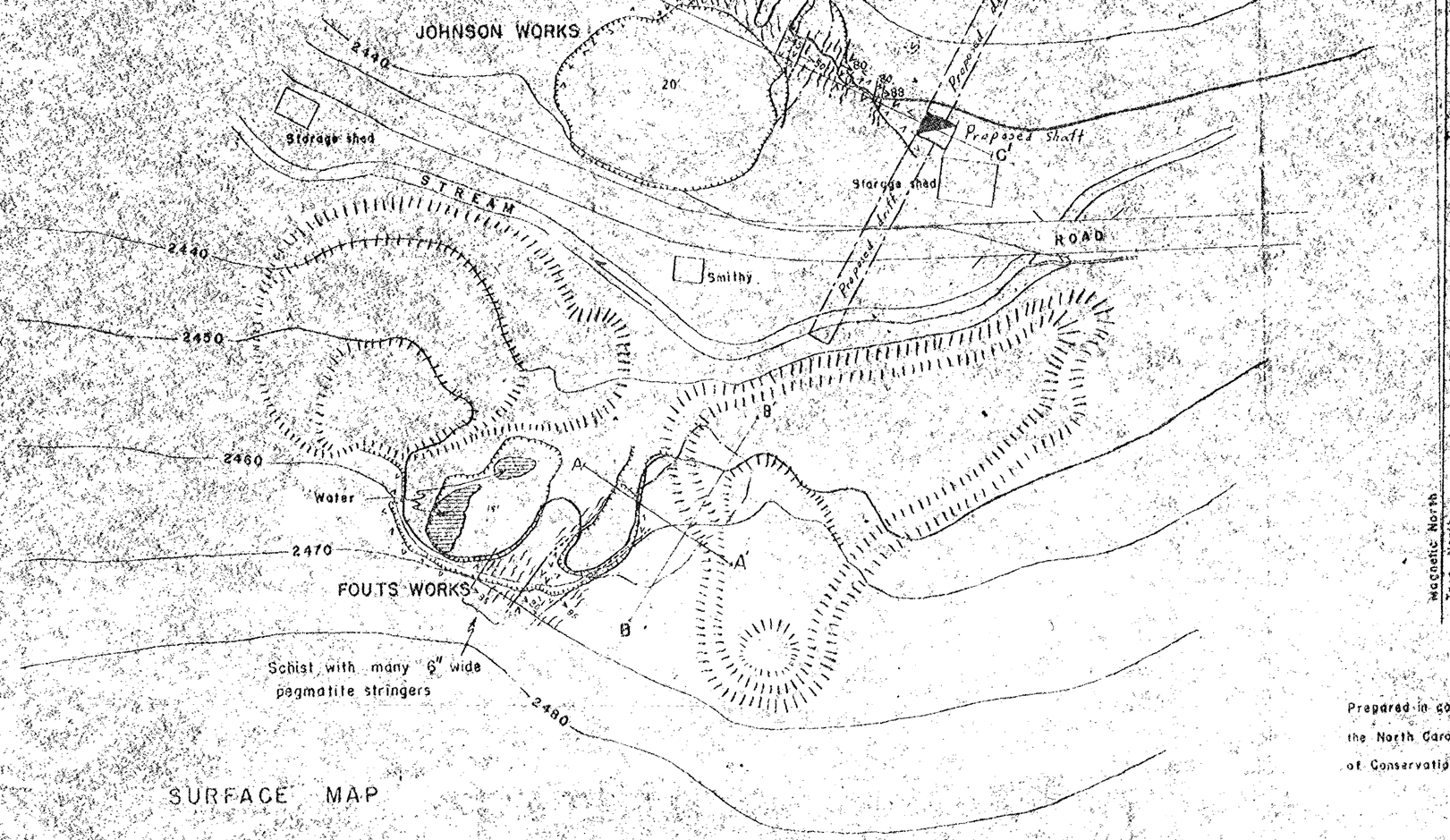
ERNEST JOHNSON MICA MINE, MITCHELL COUNTY, NORTH CAROLINA

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

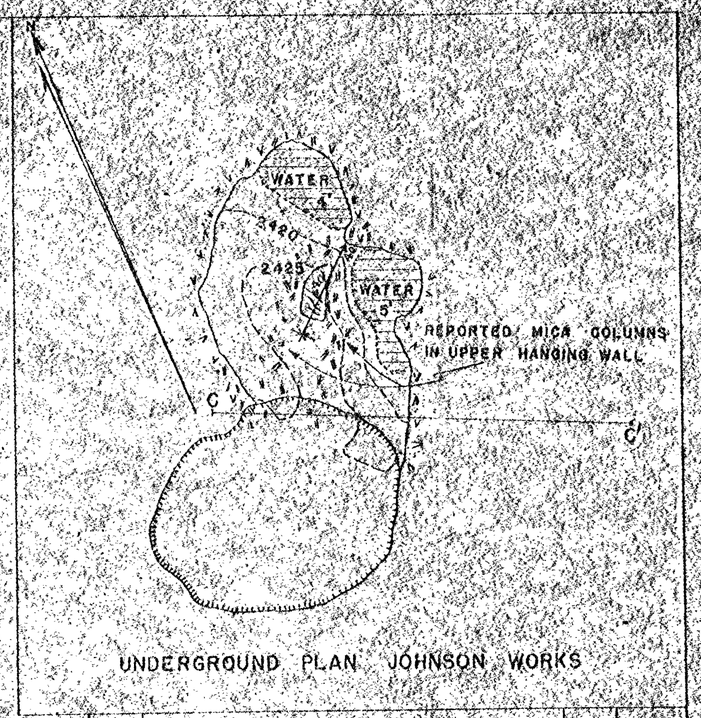
STRATEGIC MINERALS INVESTIGATIONS
PRELIMINARY MAP



LOCATION MAP



SURFACE MAP



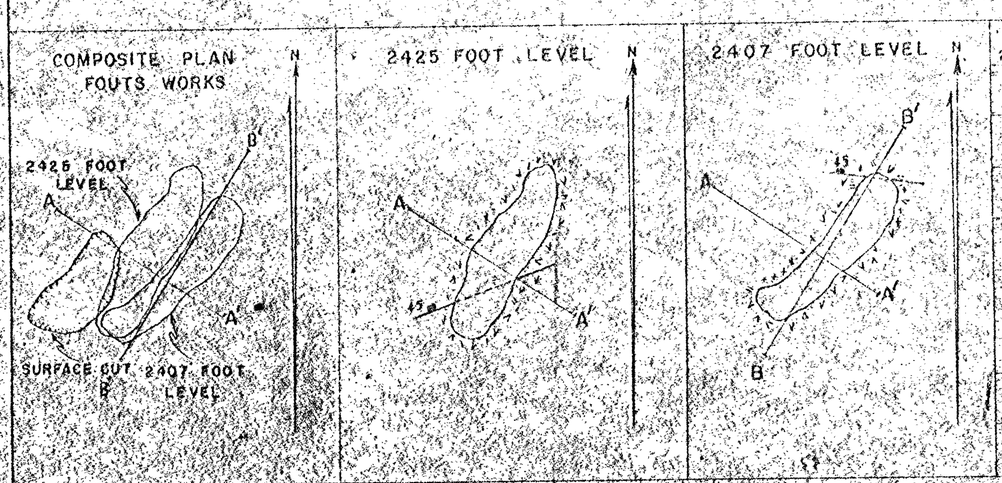
UNDERGROUND PLAN JOHNSON WORKS

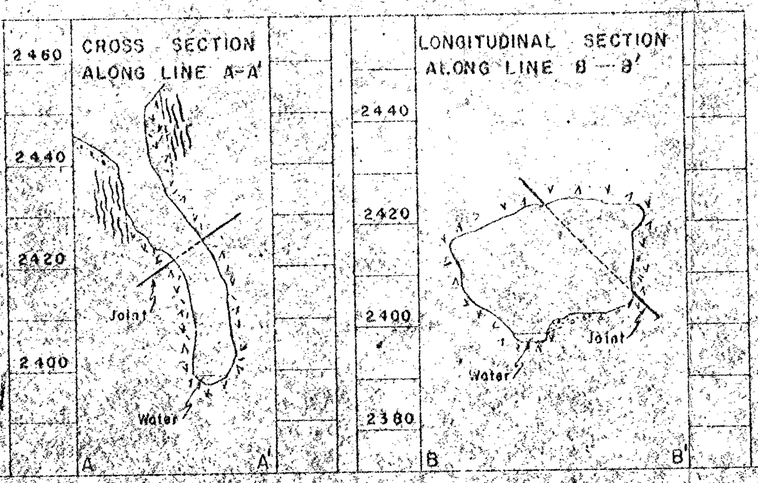
Magnetic North
True North

Prepared in cooperation with the North Carolina Department of Conservation and Development

EXPLANATION

- Dump material
- Quartz-plagioclase pegmatite
- Quartz rich pegmatite
- Scrap mica zone
- Sheet mica zone
- Biotite-muscovite gneiss
- Strike and dip of foliation
- Strike and dip of joint
- Axis of roll in pegmatite contact, showing pitch
- Contact, location accurate, showing dip
- Contact, location approximate
- Limit of outcrop
- Edge of open cut, showing depth
- Outline of underground workings
- Projected outline of underground workings
- Contours on mine floor
- Dump
- Shaft, showing depth





Mapped by
James R. Wolfe, Jr.
Edward Ellingwood
August 7-8, 1944

SCALE IN FEET
20 10 0 20 40 60 80 100

Contour interval 10 feet. Datum assumed

DMEA-2154

ERNEST JOHNSON MICA MINE, MITCHELL COUNTY, NORTH CAROLINA