DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMA Docket No. 3430

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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.

Cys to USBM & USGS

Routing Slip

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INT.-DUP. SEC., WASH., D.C.

Docket Copy
Surname:

Hopkins
Houk
Hedges
Kiilsgaard
Selfridge
Johnson

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

SEP 2 1954

Mr. J. C. Bowman
130 Maxwell Place
Tampa 6, Florida

Re: Docket No. DMEA-3430 - Mica
Henry Poteat Mine - Chalk Mountain
Mitchell County, North Carolina

Dear Mr. Bowman:

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 by your proposed program 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

LGHouk:gad 9/22/54
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3061
Mr. Kiilsgaard, 5227
Mr. Houk

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

September 22, 1954

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: A denial of exploration assistance and summary report.

By: Walter C. Anderson

1. Docket No. DMEA-3430 - Mica
Property: Henry Poteat Mine
Mitchell County, North Carolina

Applicant: J. C. Bowman
130 Maxwell Place
Tampa 6, Florida

Application: Form MF-103, date received August 4, 1954.
Work proposed: Open cut work and shaft sinking.
Extent not given
Amount requested: Approximately $12,000.00
No contract: Application denied.

2. Comments:

Geological premise: No geological criteria are indicated on which to base a premise that the pegmatite containing small amounts of scrap mica will become richer below and beyond the exposures.

Geological criteria:
1. Vertical pegmatite 20 feet thick.
2. Mica sparsely distributed and of poor quality.
3. Swamp under large water collecting area.
4. Past production - scrap mica.

Future possibilities: As in the past, mining operations are likely to be unprofitable.

Recommendations: The Nonmetallic Minerals Division is in concurrence with the field team to deny the application. The Geological Survey and the Bureau of Mines also recommend denial.

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

September 16, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Donald R. Irving, Acting for, Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3430 (mica)

Applicant: J. C. Bowman

Name and Location of Property: Henry Poteat Mine
Mitchell County, North Carolina

Date of Field Team Report: September 1, 1954

Date Rec'd. by Ceramic and Fertilizer Mtls. Br.: September 10, 1954

Field Team Recommendation:
1. Denial

Comments:
1. Records show that the mica from this mine is of poor quality and during the life of the mine it has not been possible to operate at a profit.

Recommendation:

I concur in the field team's recommendation to deny this application on the basis that the mica is non-strategic and little possibility for conducting an economical exploration project at this mine.

Donald R Irving
Donald R. Irving

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
SEP 14 1954

September 13, 1954

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-3430 (Mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: E. L. Newcomb, U. S. Geological Survey
Applicant: J. C. Bowman, 130 Maxwell Place, Tampa 6, Florida
Name of property: Henry Poteat Mine
Location of property: 2 miles SW of Spruce Pine, N. C.
Date of Field Team Report: September 1, 1954
Authorship of Field Team Report: K. H. Teague and D. H. Amos, USGS.
Field Team's recommendation:
Application should be denied.
Comments:
Unlikely that a significant discovery will be made.
Mica is sparsely distributed in the pegmatite.
Mica mining in past undoubtedly has not been profitable.

ACTION RECOMMENDED: Concur with Field Team, and deny the application.

E. L. Newcomb
E. L. Newcomb

gcl
9/23/54

UNITED STATES

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FIELD EXAMINATION REPORT, REGION VII

On

DMEA-3430, HENRY POTEAT MINE (mica)

Mitchell County, N. C.

By

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

September 1, 1954

FIELD EXAMINATION REPORT
ON
DMEA-3430, HENRY POTEAT MINE
(mica)

Applicant: J. C. Bowman, 130 Maxwell Place, Tampa 6, Florida.

The examiners believe that the liklihood for the discovery of a worthwhile deposit of strategic mica at this place is poor; therefore, we recommend that the application be denied.

This deposit was examined on August 26, 1954. Messrs. J. C. Bowman, Jr., and J. C. Bowman, Sr., accompanied the examiners on the inspection which required two hours.

Much of the following information is from an unpublished U. S. G. S. report prepared March, 1945 by J. R. Wolfe, Jr.:

"The Poteat feldspar and mica mine, in Mitchell County, North Carolina, is 2 miles S. 70° W. of Spruce Pine on both sides of U. S. Highway 19E. It consists of an extensive series of older workings on the northwest side of the road and smaller more recent ones to the southeast (the southeast area is included in this application). The older underground workings to the northwest are all inaccessible and were not mapped. They include six shafts and an open cut from which a 45 degree incline is reported to extend 200 feet to the southwest. This part of the mine was discovered about 1914 by J. H. Poteat. Most of the mining was done about 1917-1920 by J. E. Burleson who is reputed to have produced about $225,000 worth of mica. The mine was operated on a small scale in 1930 by W. Laughridge, Art and Corb Buchanan, and in 1939 by W. T. Hippy and C. T. Bailey."

"The newer part of the mine southeast of the highway (area of interest) consists of a deep open cut with drifts and a series of shallow pits which exploited a different pegmatite. This was started about 1932-33 by J. C. Pitman and was further worked in 1942 by the Whitehall Company. In 1944 G. W. Mason and R. W. Love operated for about 6 months, and were followed by Acme Mines, Inc. (Mrs. O. Spoon) for about 2 months and by Homer Hise from November until January 1945."

"The mine southeast of the road is in an area underlain by coarse-grained sodic granite containing geniss inclusions. The pegmatite is a vertical dike striking uniformly northeast and extending for at least 300 feet. It averages about 20 feet thick and seems to enlarge slightly with depth. Contacts are mostly definite though not sharp because of the similarity of the granite country rock and the pegmatite."

"The pegmatite is composed mainly of plagioclase, quartz and microcline with smaller amount of muscovite, sericite and garnet. Three lithologic zones are distinguishable. The border zone consists of medium

grained white plagioclase, quartz in small particles, with minor microcline and greenish brown muscovite. This zone is 3 to 13 feet thick, constitutes the bulk of the pegmatite and in places its entire width. Inside is a discontinuous zone as much as 6 feet thick of pink blocky perthitic microcline of commercial grade and minor plagioclase, with green "A" mica next to the core. The core, also discontinuous, consists of gray quartz pods as much as 5 feet thick. Fine green scaly sercite coats fracture surfaces. Garnet occurs as small dull red crystals."

"Mica is sparsely distributed throughout the pegmatite with greenish brown muscovite more concentrated near the walls, especially the south wall, and green "A" muscovite next to the quartz pods. Many books have green edges and brown centers. Red, black and green stain spots about 1/20 inch across, possibly iron oxides, are moderately common. Flattened garnets (1/40 inch in diameter) and quartz particles (1/8 inch diameter) are included in some of the mica books, the garnet being especially common in the green "A" mica. Much of the mica is "tied", contains many cracks and reeves, is considerably ruled, and in part wedge-shaped. Most is scrap."

The work in 1944-45 resulted in the sale of 577.41 pounds of mica for $2,781.33 to the Colonial Mica Corporation. Of this amount 11% was No. 1, 68 % was No. 2, and 21% No. 3. Four different Operators ~~worked~~ worked the mine during this interval. Production of mica during 1942 by the Whitehall Company amounted to a little over $3,000.

From the above it is apparent that none of the operators, during World War II, operated the mine for mica at a profit. Furthermore, as it is located in a swamp below a large collecting area, efforts to clean it out and operate same will be expensive. Also, past records suggest that most of the mica is of poor quality. Therefore, it appears to the examiners that the proper action to take is to deny the application.

Sept. 1, 1954

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

z

August 16, 1954

Senator Holland's office calling Mr. Houk
(Mrs. Pendleton talking)

Re: Docket No. DMEA-3430 - Mica
J. C. Bowman
Henry Poteat Mine
Chalk Mountain,
Mitchell County, N. C.

Mrs. Pendleton: I have a letter from Mr. J. C. Bowman, No. 3430 is your number, I believe. In his letter to the Senator he mentioned that he has made application for Government monetary aid.

Mr. Houk: Yes we have his application.

Mrs. Pendleton: Then I need the status of the application.

Mr. Houk: On August 12th we sent a letter to him advising that the field team is to make an examination of his property.

Mrs. Pendleton: That was sent out on the 12th of August? I will write and tell him you have contacted him.

Mr. Houk: Yes the letter went out on the 13th.

Mrs. Pendleton: Very well - that is fine, I appreciate your giving me the information. Thank you.

Docket File
Surname:
Anderson
Houk
Martin
Hedges
Field
Johnson

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

AUG 13 1954

Mr. J. C. Bowman
130 Maxwell Place
Tampa 6, Florida

Re: Docket No. DMEA-3430 - Mica
Henry Poteat Mine - Chalk Mountain
Mitchell County, North Carolina

Dear Mr. Bowman:

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 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 that you may give the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittenderf

Administrator

WCAnderson:gad 8/12/54
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3061
Mr. Newcomb, 5227
Mr. Houk

Docket Copy
Surname:
Anderson
Houk
Martin

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

AUG 13 1954

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

Subject: Docket No. DMEA-3430 - Mica
J. C. Bowman
Henry Foteat Mine - Chalk Mountain
Mitchell County, North Carolina

Dear Mr. Laurence:

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

Copies of memoranda from the Geological Survey, dated August 6, 1954, and from the Bureau of Mines, dated August 9, 1954, are enclosed for your information.

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee (24B)

Approved:

J. H. Hedges
Member, Bureau of Mines (24B)

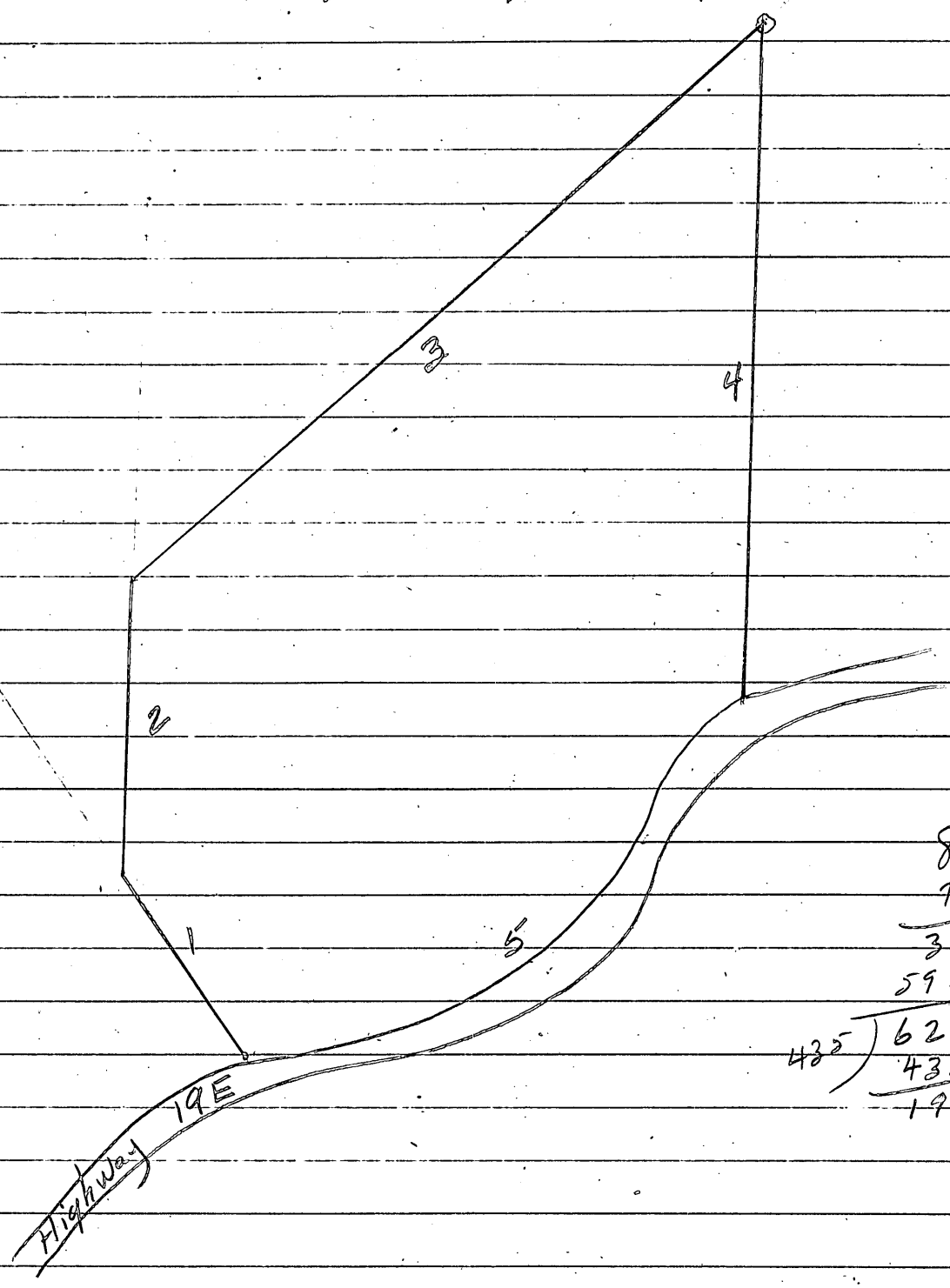
Philip W. Guild
Member, Geological Survey (24B)

Enclosures 4

WCAnderson:gad 8/12/54
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Dietrich, 3061
Mr. Newcomb, 5227
Mr. Houk

40.
450
40
40
40
610

1. N 34W - 263
2. N 2°15'E - 354.8
3. N 49E - 1004
4. S 9°15' - 737.7
along Highway 19E to beginning
5. Meander Southwesterly along Highway 19E - 760 feet to beginning



850
740
340
595
435) 629,000 (15+ acres
435
1940

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

August 9, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3430 (mica)

Applicant: J. C. Bowman

Name and Location of Property: Henry Poteat Mine - Chalk Mountain
Mitchell County, North Carolina

Date Application Rec'd. by Ceramic & Fertilizer Mtls. Br.: 8/4/54

Comments:

No data are available in this office regarding past production.

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.

August 6, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3430 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: E. L. Newcomb, U. S. Geological Survey
Applicant's name and address: J. C. Bowman, 130 Maxwell Place, Tampa 6, Florida
Name of property: Henry Poteat Mine
Location of property: 1½ mi. W. of Spruce Pine, Mitchell Co., N. C.
Summary of applicant's proposal: Apparently the proposal involves deep trenching, reopening old workings and drifting. The proposed work is not clearly outlined. Total - $17,300.
Sources of information on applicant's property:
U. S. G. S. unpublished report (1945), Poteat Feldspar and Mica Mine, Mitchell County, North Carolina.
Comments:
1. There are numerous old workings on property.
2. Pegmatite is 300 feet long, 20 feet thick, and enlarges with depth.
3. Mica sparsely distributed throughout peg.
4. Most of mica is scrap.
5. Considerable mica mined intermittently between 1917 and 1945.

RECOMMENDATION: Though more information about proposed work is desirable, it seems best to refer the application to the Field Team.

E. L. Newcomb
E. L. Newcomb

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

August 4, 1954

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 - 3430 J. C. Bowman

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

Mr. J. C. Bowman
130 Maxwell Place
Tampa 6, Florida

August 4, 1954
Subject: DMEA-3430
Re: Exploration Assistance
Henry Potsat Mine

Dear Sir:

The receipt of your application dated July 17, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3430 and referred to the Non-Metallic Minerals Division.

Kindly refer to in any future correspondence relating to your application.

Sincerely yours,

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

August 2, 1954

Memorandum

To: Operating Committee, DMEA - Washington

From: Field Team, DMEA - Region VII

Subject: Application, J. C. Bowman, Tampa, Fla. (mica)
Henry Poteat Mine, Mitchell County, N. C.

Enclosed are four copies of the subject application received in this office today.

Robert A. Laurence
Robert A. Laurence

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

Federal Mineral Administration
WASHINGTON

August 2, 1954

Memorandum

To: Operating Committee, DMEA - Washington

From: Field Team, DMEA - Region VII

Subject: Application, J. C. Bowman, Tampa, Fla. (mica)
Henry Patent Mine, Mitchell County, N. C.

Enclosed are four copies of the subject application received in this office today.

Robert A. Zeurnes

Wm. A. Beck, for T. J. Lynch
U. S. Bureau of Mines

RAZ/ma
cc:
Beck
Lynch
Files
Opt. Com.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

August 2, 1954

Mr. J. C. Bowman
130 Maxwell Place
Tampa 6, Florida

Dear Mr. Bowman:

Your application, on Form MF-103, for aid in exploring for strategic mica at the Henry Poteat Mine in Mitchell County, N. C., has been received, and I am forwarding it to our Washington office for processing in accordance with established procedures.

If the equipment listed under 6 d is owned by you, it can be charged to the project only at standard depreciation rates, plus, of course, Operators' wages, fuel, etc. If you do not now own this equipment, it is suggested that rental would be preferable on a job of five months' duration.

It will be necessary to obtain the land owner's signature on the revised forms MF-203, (Owner's Consent to Lien) seven of which are enclosed. Please return the original and five copies to me with the proper signature, and addresses; give the seventh copy to the land owner.

Very truly yours,

Robert A. Laurence
Executive Officer, DMEA
Region VII

RL/sm
cc:
Mr. Cameron

Peck
Lynch
Files

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

1954-1954

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. 3430
Metal or Mineral Mica
Date Received
Estimated Cost $17,300
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: J. C. Bowman
130 Maxwell Place, Tampa 6, Florida

(*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
Grassy Creek Township, Mitchell County, North Carolina
See attached Sketch and Description - 3 (a) 1 & 2

(*b*) State any mine name by which the property is known. Henry Poteat Mine -Chalk Mountain

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

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

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

(*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. 4 (a) sheet attached

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. 4 (b) sheet attached

(*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. 4 (c) sheet attached

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. 4 (d) sheet attached

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. 4 (4 (e) sheet attached

16—66551-1

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. See Sketch 5 (b)

(*c*) The work will start within 30 days and be completed within 5 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. Attached 5 (d)

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.). See attached 6 (a)

(*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. Attached 6 (b)

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. Attached 6 (c)

(*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. Attached 6 (d)

(*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. Attached 6 (e)

(*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. Att. 6 (f)

(*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. Attached 6 (g)

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. Attached 6 (h)

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

Explain in detail on acompanying paper. See 7 (b)

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 July 17, 1954.

J. C. Bowman (Applicant)

By

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 (a) 1 & 2

DESCRIPTION of plat and parcel of land situate on Chalk Mountain, Grassy Creek Township, Mitchell County, North Carolina. -

STARTING at a point on Southside of Highway 19 E, (one and one-half miles WEST of Spruce Pine, North Carolina,) - metes and bounds as per Sketch attached. This property conveyed to Lessor by the WHITEHALL Company, and DEED of conveyance registered at office of Register of Deeds, Court House, Bakersville, Mitchell County, North Carolina.

4 (a) Physical Description

First known operation by HENRY POTEAT (deceased) - 1908.

The shaft and stope was projected to some extent by J. E. Burleson (deceased) of the J. E. Burleson Mica Company, Spruce Pine, N. C.

Survivors of that period who knew the founders and developers of this strike state that the mine was abandoned due to lack of adequate pumping facilities rather than the exhaustion of mica.

In 1926 the Whitehall Company purchased the property and operated for feldspar content.

The open cuts are in part accessible; the shaft will require pumping and cleaning before thorough inspection of the old workings can be made. (Please see Sketch,-Geology of Shaft and Drain Cut).

(b) Have only hearsay on past production records and values. Mining circles refer almost invariably to rumors of Henry getting so many thousands and Je getting many times that much value out afterwards.

The applicant considers the formation in the field as an excellent location for a strike which he believes will surpass all previous reports, (that is the prospector for you; the elusive has its charm). But the lay is right in the best field in the country; the features full of promise.

(c) Man power (local) available; local supply houses stock practically all essential mining materials and supplies. Present are water, shop facilities, equipment dealers, electric power. (Power on property - see Sketch).

5 - The Exploration Project -

(a) MICA (Rum)

(b) It is planned to cut across the dike, (partially opened by drain cut), see Cross-Section Sketch. The majority of this particular phase will be accomplished by use of Bulldozer.
The cut will be deepened, the water pumped from shaft and stope which will be cleared for extension drive on the strike plane; a promising yield is expected.

(c) The work will start within 15 days and be completed within Five Months (5) from the date of the exploration project contract.

(d) Applicant is native of that particular mountain section. During the summer months of the year 1908, (the year the late Henry Poteat made his strike), the Applicant was in a nearby community employed as rodman on surveying corps, (Little Switzerland Project), and had the opportunity to visit the mine site.
During grade school, high school and Bowman Academy vacation periods the Applicant worked in clay (kaolin) mines of the Harris Clay Company, Penland, N. C., and with various groups of "ground-hog" mica miners and had the opportunity to see a great many of the 'prospects' in the Spruce Pine Area, Mitchell, Yancey and Avery Counties. During collegiate years-those days our seminars were work in the field where and when possible to earn something to help carry on the ensuing semesters. Became associated with civil and mining engineering groups and corps and served with Clinchfield Coal Corporation, Clinchfield Products Corporation, North State and New England States Mica Companies, Carter Coal Company and opened one very lucrative prospect near Old Sink Hole in Bandana section. In the Kentucky fields was compelled to prove five years underground mining experience in order to be eligible for State mining certificate. Took DuPont training in explosive engineering. Worked on field parties core drilling in prospecting; stope, drift, shaft, tunnel experience. Mica mining has always held a fascination for me - its unpredicable and improbable aspects lending enchantment to its pursuit. While a small percentage of my actual mining experience has been devoted exclusively to mica mining I do possess a versatile mining experience that will be very helpful in this particular field. And I am physically able to pursue the work. Recent years have been occupied with drainage surveys and problems in Florida. During World War II was associate imspector United States Maritime Commission, phosphate nodule production -'Light Weight Concrete' for ship construction.
Engineer W. A. Whitfield, Asheville, N. C., I am sure will answer inquiries regarding me; others, if required.

The personnel to be used in this exploratory work are also native, known to the Applicant; have worked with and for the Applicant; have had experience with other known persons in the field of mining detail.

6 (a)

Independent Contracts :

Cost per hour rental of Bulldozer, (size obtainable governing)- $8.00 to $12.00 per hour.

Hours work required - 70 @ $12.00 $ 840.00

6 (b)

Labor, Supervision, Consultants :

Labor - price range from common, (Outside) at 75¢; semi-skilled to $1.20; skilled to $1.62 per hour.

Labor Cost - estimate -	$ 5,408.30	
Supervision, Consultants	1,500.00	$ 6,908.30

6 (d)

Operating Equipment -

Compressor (Air) Mounted	$2,190.00	
Jack Hammer (Air) Drill w/acc.	285.00	
Centrif. Pump w/pp., ftgs, hose	392.00	
Jeep, Equipt. w/winch, cable	2,145.00	
Wheel Barrows	57.70	
Elec. Motor 2ph for Pump etc.	187.00	
Mica Shears, mica house incidentals	70.00	
Explosives, lead wires, detonators, Battery Box Machine -	720.00	$ 6,046.70

6 (e)

Rehabilitation and Repairs *

Expense of move in and set up Equipment and tools	$ 62.00

6 (f)

New Buildings, Installations, Improvements:

Tool Shed and shelter, anvil and forge facilities, Explosive storage magazine (Legal Specifications.) $ 561.00

6 (g)

MISCELLANEOUS -

Estimate - Accounting, analytical, surveys, workmen's compensation, employer's liability insurance and payroll taxes - $ 833.00

6 (h)

Contingencies -

Subject To-

Unforseen conditions, market price fluctuations, weather, accidents, strikes, or delays and causes beyond our anticipation and control : -

estimate : $ 1900.00

7 (b)

Applicant's Share of Costs -

Use of expendable equipment furnished	$ 172.00	
Use of stabalized equipment	2145.00	
Cash	2008.00	
		$ 4325.00

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

X

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

Bureau Land Management
RECEIVED
JUL - 1954

Grassy Creek Township, Plat and Location Sketch attached.

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

2/ J. C. Bowman
130 Maxwell Place, Tampa, Hillsborough County, Florida.

hereinafter called the "Operator"; and

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

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

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

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

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

4. Changes and added provisions Attached sheet explanatory

Dated this 17th day of July, 1954.

Tom M. Cooper [Seal]

[Seal]

[Seal]

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

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

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

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

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production (including any bonuses), in whatever form disposed of, including ore, concentrates, or metal, as follows:

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

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

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

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

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

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

OWNER'S CONSENT TO LIEN

4. CHANGES AND ADDED PROVISIONS, VIZ:

Proposed mining work will not be conducted in any manner that will endanger or destroy that part of the property, (acreage), now in use as a business of theatre. No shafts, tunnels, cuts, or other mining methods will be employed that would damage the structure of the premises on which the theatre is situate.

6 (c)

Operating Materials and Supplies :

Sledge Hammer	$ 3.80	
Shovels RP	14.80	
Bars (Crow)	10.60	
Axes P	6.80	
Saw (Crosscut)	9.75	
Saw (Hand)	4.75	
Hammer (Claw) (cobbling)	4.50	
Hammer (Steel Driving)	5.40	
Steel (Drill) Lengths	37.90	
Forge (Hand)	42.50	
Lights (Flood)	19.40	
Power (est)	156.80	
Water (Minimum)	3.60	
Fuels, Oils	715.90	
First Aid Kit	12.50	$ 1,049.00

MF-20[illegible]
(Revised [illegible]y 1, 1953)

OWNER'S CONSENT TO LIEN

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

Bureau of Mines Administration
RECEIVED
AUG 4 - 1954

[illegible]

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

2/ [illegible]

hereinafter called the "Operator"; and

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

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

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

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

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

4. Changes and added provisions [illegible]

Dated this [illegible] day of [illegible], 195[illegible].

[illegible] [Seal]

[Seal]

[Seal]

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

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

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

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production (including any bonuses), in whatever form disposed of, including ore, concentrates, or metal, as follows:

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

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MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of ~~NORTH CAROLINA~~, County of ~~MITCHELL~~ described as follows:1/

Defense Minerals Administration
RECEIVED
AUG 4 - 1954

~~Grassy Creek Township , Plat and Location Sketch attached.~~

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

2/ J. C. Bowman

~~130 Maxwell Place, Tampa, Hillsborough County, Florida.~~

hereinafter called the "Operator"; and

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

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4. Changes and added provisions ~~Attached sheet explanatory~~

Dated this ~~17th~~ day of ~~July~~, 195~~4~~54.

Jam M. Bowman [Seal]

[Seal]

[Seal]

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OWNER'S CONSENT TO LIEN

4. CHANGES AND ADDED PROVISIONS, VIZ;-

Proposed mining work will not be conducted in any manner that will endanger or destroy that part of the property, (acreage), now in use as a business of theatre. No shafts, tunnels, cuts, or other mining methods will be employed that would damage the structure of the premises on which the theatre is situate.

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

Department of the Interior
Defense Minerals Administration
RECEIVED
AUG 4 - 1954

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

Grassy Creek Township, Plat & Location Sketch attached

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2/ J. C. Bowman

130 Maxwell Place, Tampa, Hillsborough County, Florida.

hereinafter called the "Operator"; and

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4. Changes and added provisions Attached sheet explanatory

Dated this 17th day of July, 1954.

Tom M. Casper [Seal]

[Seal]

[Seal]

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RELEVANT CONTRACT PROVISIONS

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OWNER'S CONSENT TO LEASE

4. CHANGES AND ADDED PROVISIONS, VIZ:

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MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of ~~NORTH CAROLINA~~, County of ~~MITCHELL~~, described as follows:1/

~~Grassy Creek Township, Plat & Location Sketch attached~~

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

2/ ~~J. C. Bowman~~

~~130 Maxwell Place, Tampa, Hillsborough County, Florida.~~

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

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

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

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4. Changes and added provisions ~~Attached sheet explanatory~~

Dated this 17th day of July, 1954.

Jon M. Cooper [Seal]

[Seal]

[Seal]

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

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

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

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

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production (including any bonuses), in whatever form disposed of, including ore, concentrates, or metal, as follows:

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

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

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

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

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

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

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

OWNER'S CONSENT TO LIEN

4. CHANGES AND ADDED PROVISIONS, VIZ;-

Proposed mining work will not be conducted in any manner that will endanger or destroy that part of the property, (acreage), now in use as a besiness of theatre. No shafts, tunnels, cuts, or other mining methods will be employed that would damage the structure of the premises on which the theatre is situate.

MF-[illegible]

(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of ~~NORTH CAROLINA~~, County of ~~[illegible]~~, described as follows:1/

AUG 4 - 1954

Grassy Creek Township, Plat and Location Sketch attached.

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

2/ J. C. Bowman

~~230 Kennell Place, Tampa, Hillsborough County, Florida.~~

hereinafter called the "Operator"; and

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

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

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

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

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

4. Changes and added provisions ~~Attached sheet explanatory~~

Dated this ~~17th~~ day of ~~July~~, 195~~3~~4.

Yam N. Cooper [Seal]

[Seal]

[Seal]

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DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Postoffice Box #431
Joplin, Mo.

OFFICIAL BUSINESS

JOPLIN JUL 30 6 00 PM 1954

5 CENTS 5 5 CENTS 5 5 CENTS 5

OPERATING COMMITTEE
DEFENSE MINERALS EXPLORATION ADM
WASHINGTON 25, D.C.

①	6 :	42.7
②	4 :	31.0
③	1 :	05.0
④	:	45.0
⑤	:	35.0
⑥	:	35.0
	13 :	93.7
⑦⑧⑨⑩	– :	40.0
	14 :	33.7

14 1/3 ACRES +

SCALE (APPROX) 200' = 1"

N

JCB

Sketch No. 1.

PLAT

LOCATION SKETCH

TOM N. COOPER PROPERTY

CHALK MOUNTAIN,

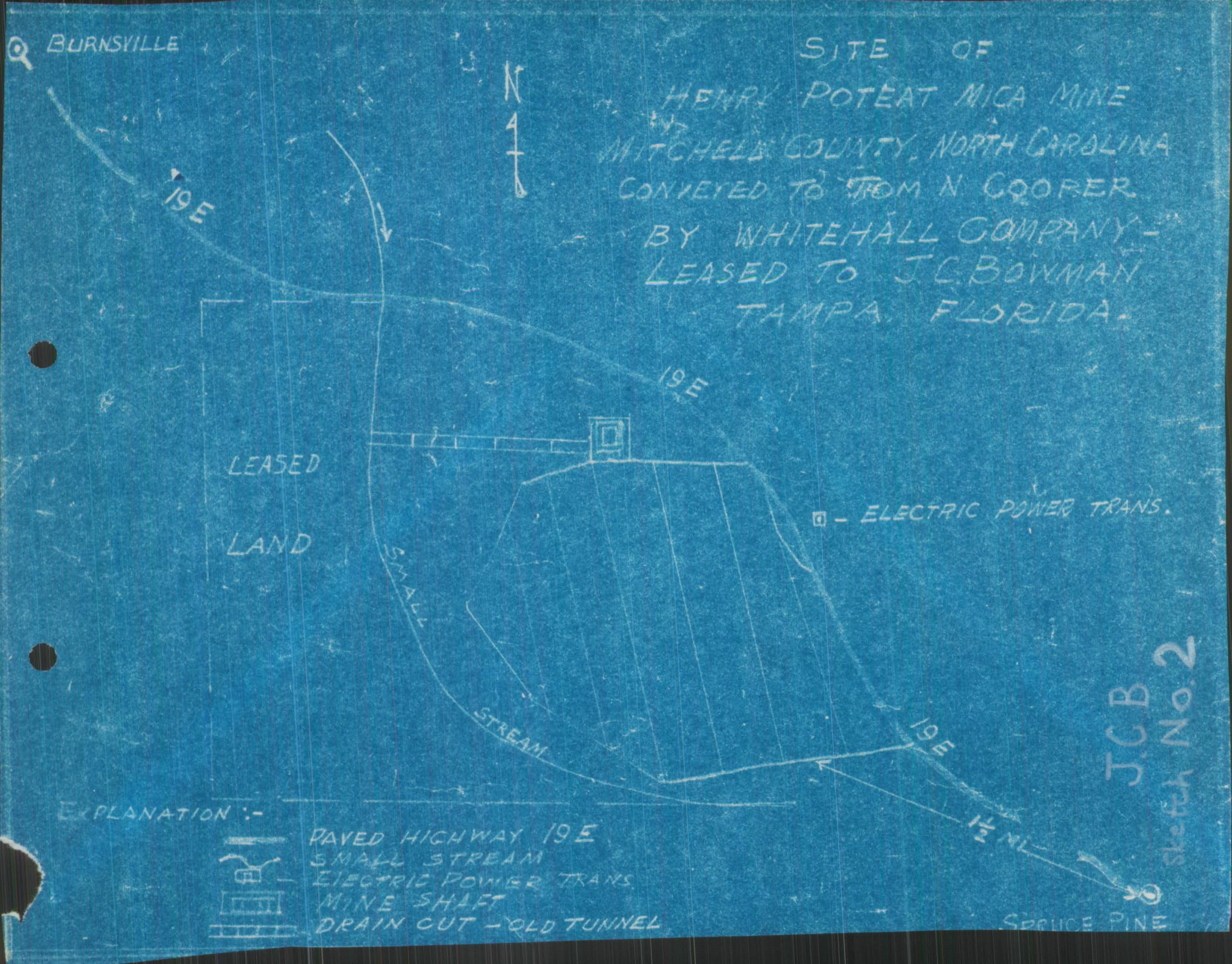
GRASSY CREEK TOWNSHIP,

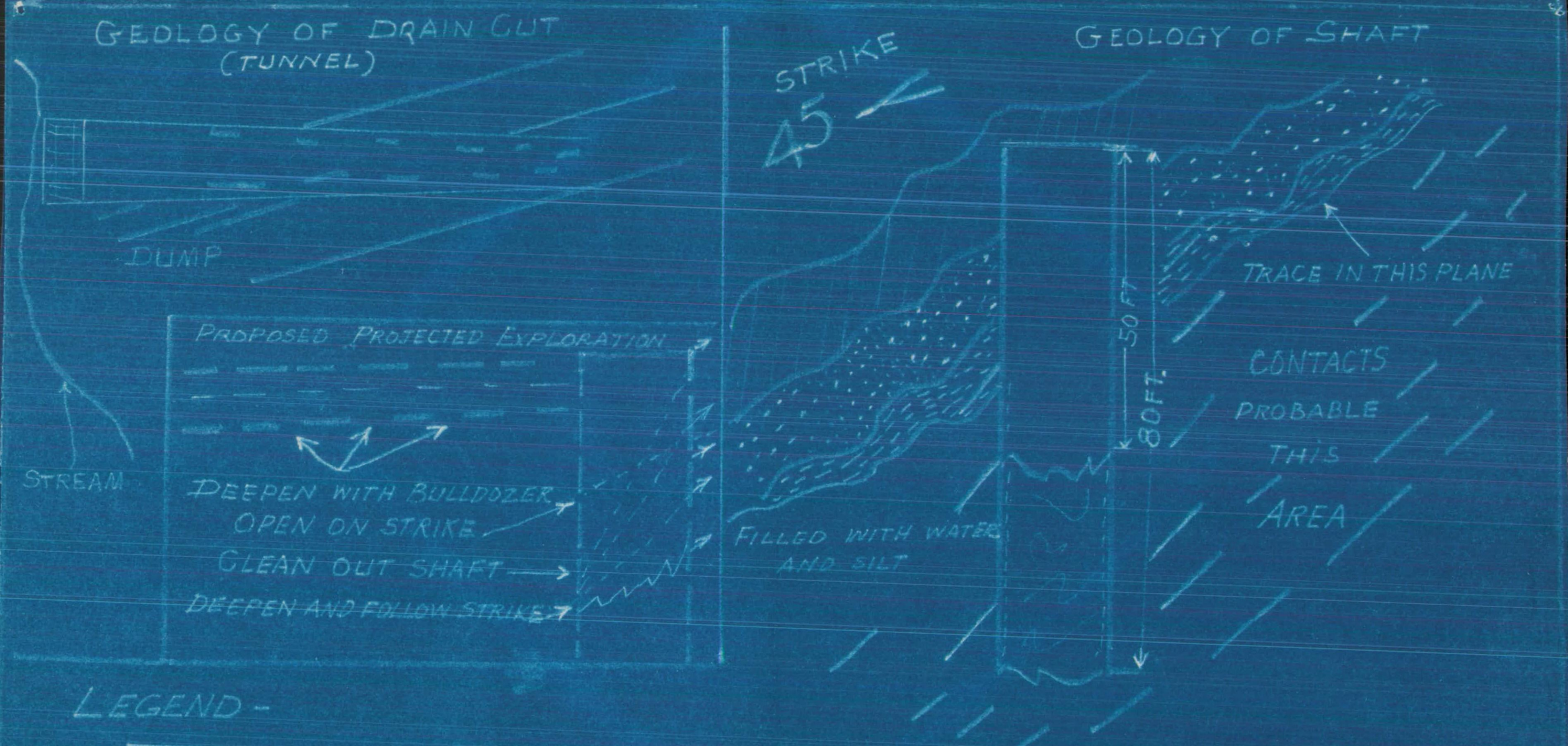
MITCHELL COUNTY,

NORTH CAROLINA.

T.N. COOPER

SPRUCE PINE, NORTH CAROLINA


BURNSVILLE
SITE OF
HENRY POTEAT MICA MINE
MITCHELL COUNTY, NORTH CAROLINA
CONVEYED TO FROM N. COOPER
BY WHITEHALL COMPANY -
LEASED TO J.C. BOWMAN
TAMPA, FLORIDA.
N
19E
19E
LEASED
LAND
SMALL
STREAM
19E
1½ MI.
SPRUCE PINE
- ELECTRIC POWER TRANS.
EXPLANATION :-
PAVED HIGHWAY 19E
SMALL STREAM
- ELECTRIC POWER TRANS.
MINE SHAFT
DRAIN CUT - OLD TUNNEL
J.C.B.
sketch No. 2



LEGEND -

ALASKITE WITH PEGMATITE

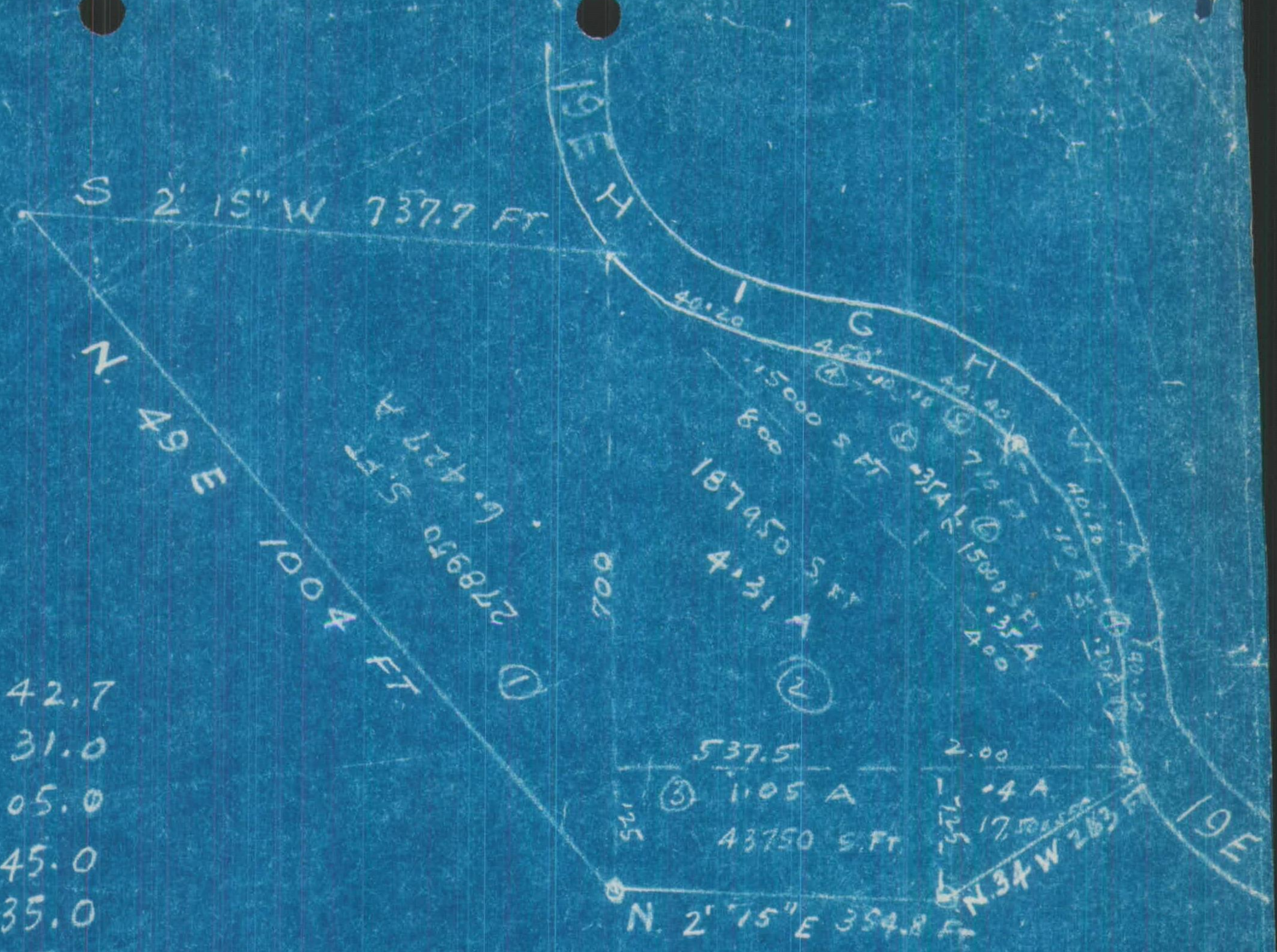
COARSE PEGMATITE

MILKY QUARTZ

GEOLOGICAL SECTIONS

HENRY POTEAT MICA MINE
NEAR
SPRUCE PINE
MITCHELL COUNTY. NORTH CAROLINA

J.C. Bowman



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SK, No. 1.

PLAT

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T.N. COOPER
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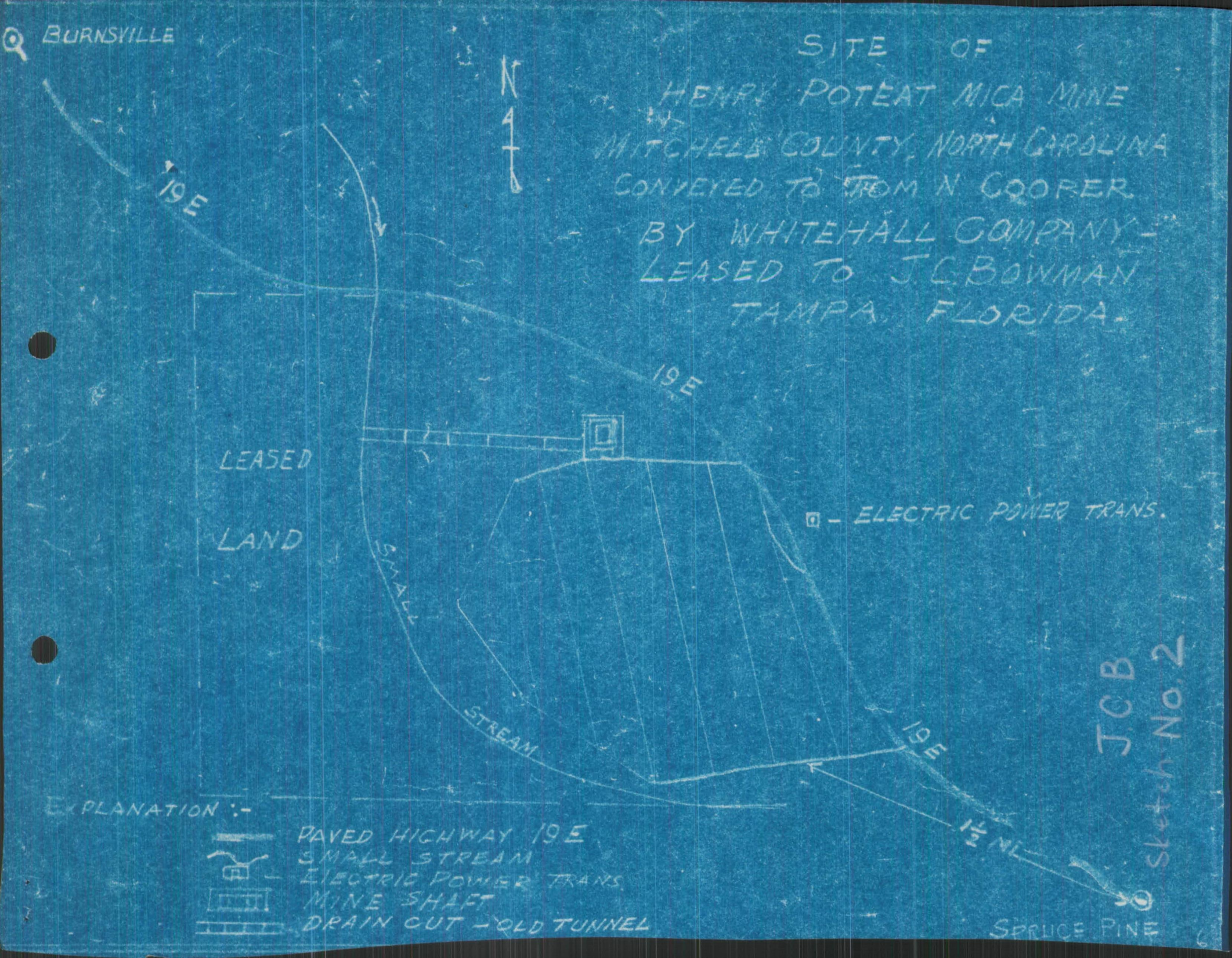
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SPRUCE PINE
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Sketch No. 2

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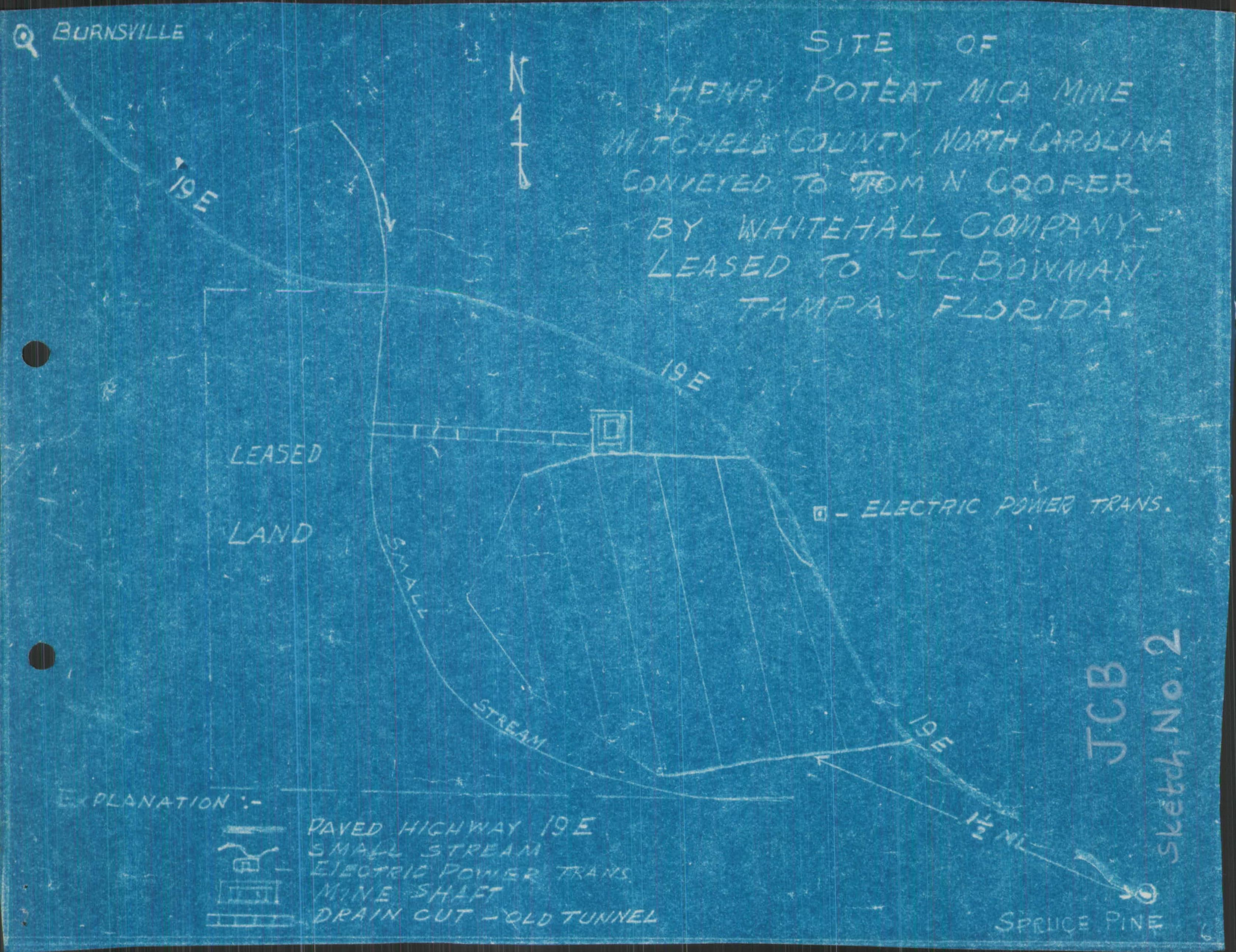
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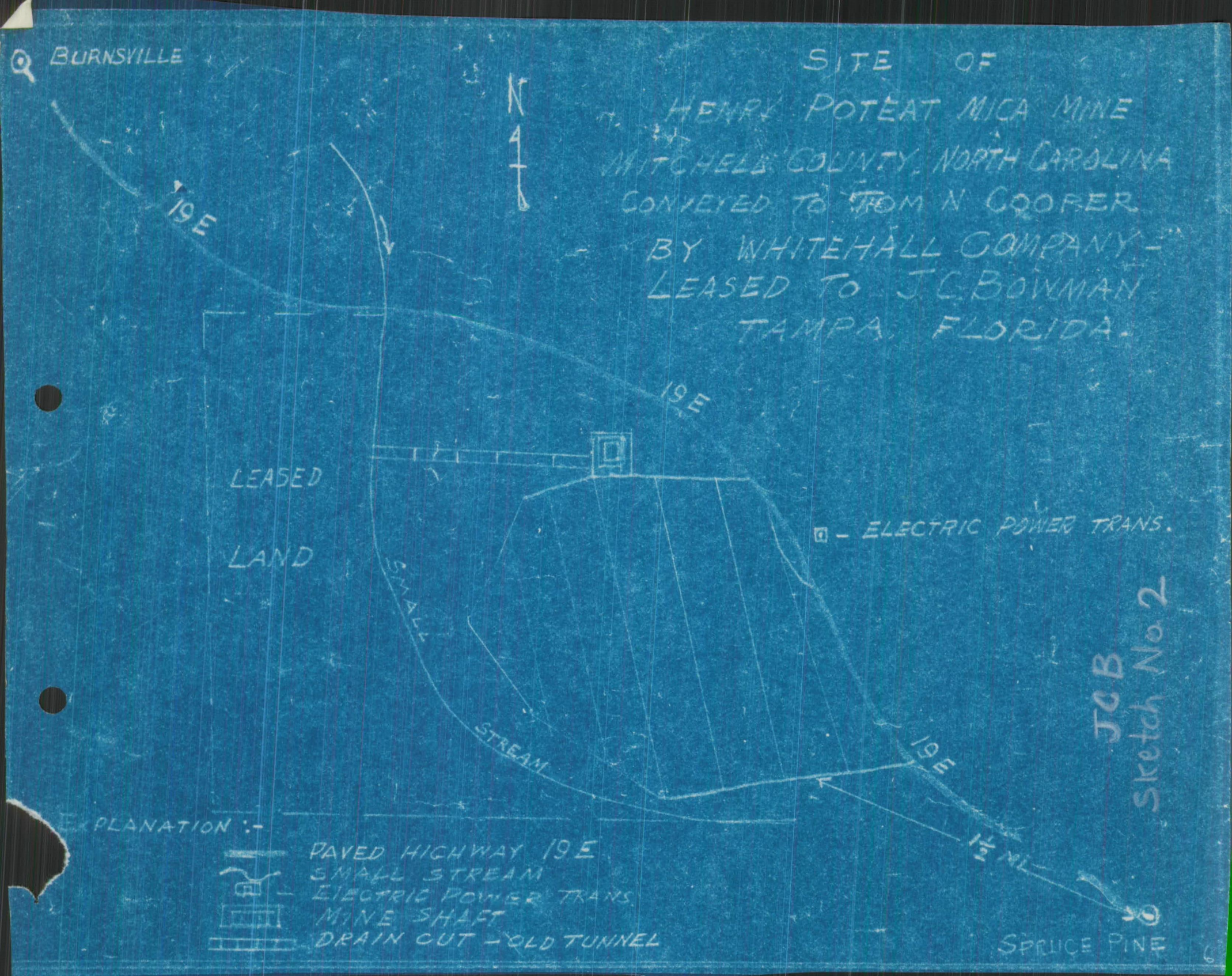
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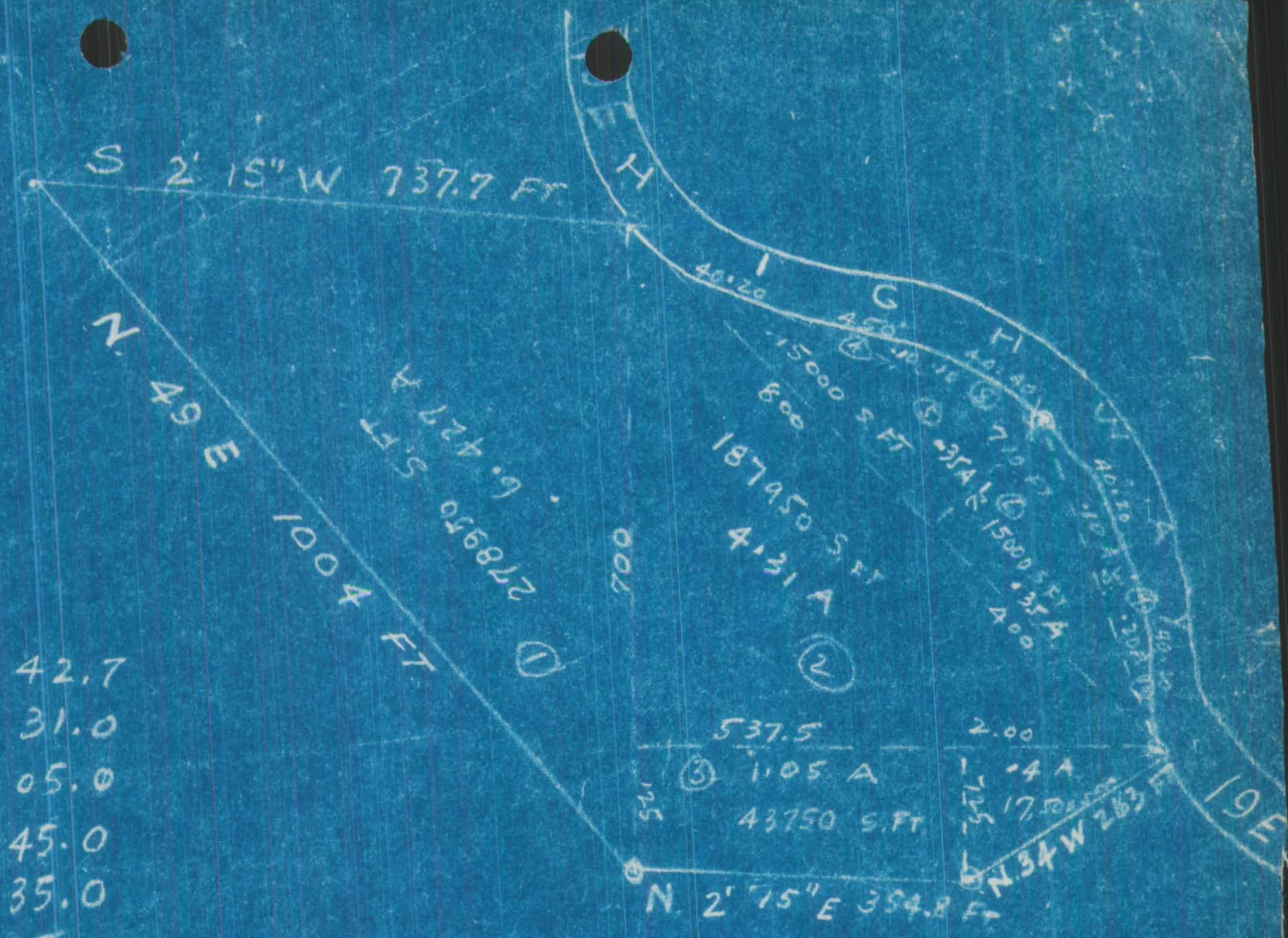

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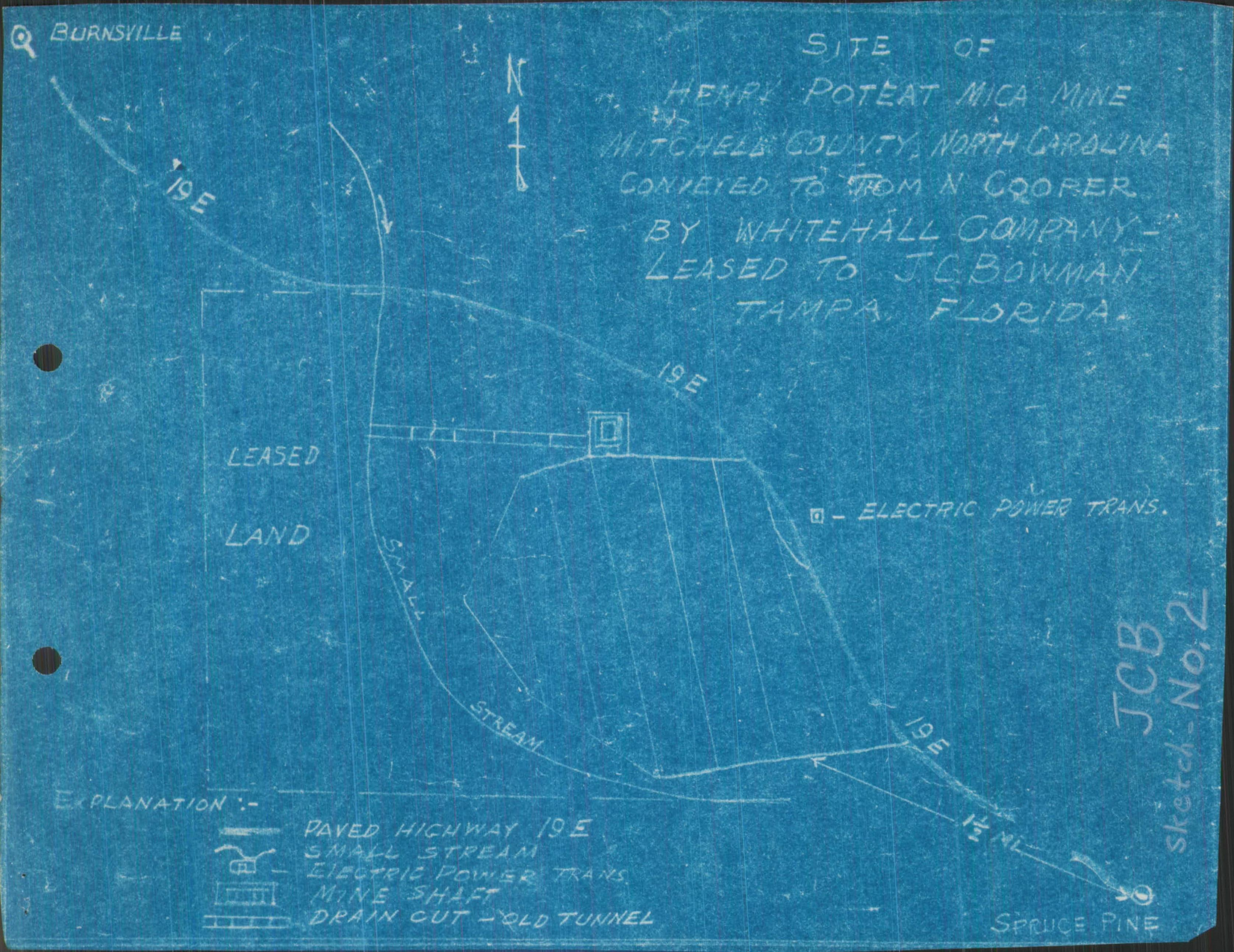
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