600

AUG 6 1954

Mr. Tom Cabaniss, Jr.
Route 5
Shelby, North Carolina

Re: Docket No. DMEA-3295
Quartz Crystal
Tom Cabaniss Property
Cleveland County, North Carolina

Dear Mr. Cabaniss:

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 quartz crystal 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 7/29/54
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3061
Mr. Larrabee, 5216
Mr. Houk

August 5, 1954

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: A denial of exploration assistance and summary report.

By: L. G. Houk

1. DMEA Docket No. 3295 - Quartz Crystal
Property: Tom Cabaniss Property
Cleveland County, North Carolina

Applicant: Tom Cabaniss, Jr.
Route 5
Shelby, North Carolina

Application: Form MF-103, received March 15, 1954.
Work proposed: Excavation and/or stripping in an effort to determine whether vein of material exists.
Amount requested: Not given.
No contract: Application denied.

2. Comments: A few small crystals were sent to Squires Signal Laboratory and found to contain usable areas sufficient to justify a field examination.

Geological criteria upon which denial is based: No workings on property. An occasional crystal has been found in past several years in this cultivated area. Soil fragments indicate a pegmatite in immediate vicinity.

Future possibilities: No evidence of a sizable deposit in this area.

Recommendations:

The Nonmetallic Minerals Division concurs in field team's recommendation to deny the application.

The Geological Survey recommends that the application should be denied.

The Bureau of Mines concurs in the field team's recommendation of denial.

LGHouk:gad 8/5/54
Copy to: Adm. R. File Mr. Houk

July 23, 1954

Memorandum

To: Operating Committee, DMEA - Washington

From: Field Team, DMEA - Region VII

Subject: Examination Reports by Field Team, Region VII

Transmitted herewith are 4 copies each of the field examination reports on:

DMEA-3295 - Tom Cabaniss Property (quartz crystals) Cleveland Co., N. C.

DMEA-3399 - Pitman Prospect (mica) Avery County, N.C.

The Field Team agrees with the examiners' conclusions and recommends denial of both prospects.

Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION VII

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

RAL/mm
cc:
Book
Lynch
Files
Opr. Gen.-2

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 7-26

REFERRED TO:

1. 600
2.
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	
..... Conference	..... Referring to .....
..... Consideration	
..... Filing	..... Reply for signature of .....
..... Instructions	
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: Purpose Regulation desired letter

Check (X) before the items needing attention.

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

UNITED STATES

DEPARTMENT OF THE INTERIOR

8/25/54

EXAMINATION REPORT BY FIELD TEAM, REGION VII

DMEA-~~[illegible]~~- TOM CABANISS PROPERTY
(Quartz Crystal)
Cleveland County, N. C.

BY

K. H. Teague and D. H. Amos, Geologists
U. S. Geological Survey
and
L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

July 14, 1954

FIELD EXAMINATION REPORT
ON

DMEA-3295, TOM CABANISS PROPERTY
(Quartz Crystal)

Applicant: Tom Cabaniss, Jr. Route 5, Shelby, North Carolina

A few quartz crystals have been collected from cultivated fields on this property, but no worthwhile deposit is apparent. Exploration assistance should be denied.

The deposit was examined July 14, 1954. Mr. Cabaniss, Jr., accompanied the examiners on this inspection which required one hour.

The Tom Cabanniss property is on the southwest side of N. C. Highway 26; 4 1/3 airline miles S. 34° E. of Polkville, Cleveland County, North Carolina. Access is good at all times.

No workings are present on the property and no bed-rock is exposed. For several years occasional quartz crystals have been picked up from the soil in a cultivated area of about three acres extent. Also present in the soil are fragments of "burr-rock" pegmatite, pegmatite, vein quartz, and migmatite. Apparently the quartz crystals occur in association with some small pods and lenses of pegmatite.

There is no evidence to suggest that a worthwhile deposit of quartz crystals is present and no work is warranted.

July 14, 1954.

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

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

IN REPLY REFER TO:

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

August 2, 1954

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-3295 (quartz crystals)

To: L. G. Heck, Defense Minerals Exploration Administration
From: E. L. Newcomb, U. S. Geological Survey
Applicant: Tom Cabaniss, Jr., Route 5, Shelby, North Carolina
Name of property: Tom Cabaniss Property
Location of property: 4 mi. SE. of Polkville, Cleveland County, N. C.
Date of Field Team report: July 24, 1954
Authorship of Field Team report: K. H. Teague, D. H. Ames, U.S.G.S.; L. E. Shirley, U.S.B.M.
Field Team's recommendation: Application should be denied.
Comments: A few quartz crystals have been found in cultivated fields. No workings or exposures on property. No evidence of a significant deposit of quartz crystals.
ACTION RECOMMENDED: Application should be denied.

E. L. Newcomb

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
W. F. Dietrich, 3061

ELNewcomb:hlm
G-8/2/54

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

DMEA 2

July 30, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3295 (quartz crystal)

Applicant: Tom Cabaniss, Jr.

Name and Location of Property: Tom Cabaniss Property
Cleveland County, North Carolina

Date of Field Team Report: July 14, 1954

Date Rec'd. by Ceramic and Fertilizer Materials Branch: July 29, 1954

Field Team Recommendation:

Denial.

Comments:

Occasional quartz crystals have been found in a cultivated area of about three acres, but no data are presented to indicate that even these few crystals are radio-grade.

Recommendation:

I concur in the field team's recommendation of denial on the basis of lack of evidence, either of sufficient mineralization or of the quality of the quartz crystal.

Signed

W. F. Dietrich

JUL 1 - 1954

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

Subject: Docket No. DMEA-3295
Quartz Crystal
Tom Cabaniss, Jr.
Tom Cabaniss Property
Cleveland County,
North Carolina

Dear Mr. Laurence:

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

Mr. D. M. Larrabee and Mr. W. F. Dietrich have been contacted by telephone and have concurred with the recommendation for a field team examination.

Copies of memoranda from the Geological Survey, dated April 2, 1954, and from the Bureau of Mines, dated April 7, 1954, are enclosed for your information, also a copy of evaluation by Squier Signal Laboratory.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

Philip W. Guild

Member, Geological Survey

Enclosures 5

LGHouk:gad 6/28/54
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3061
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

P. S.

A copy of letter dated June 23, 1954 to Mr. Tom Cabaniss, Jr. from W. L. Doxey, Squier Signal Laboratory, concerning the testing of quartz crystal samples is enclosed.

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JUN - 1954

Mr. Tom Cabaniss, Jr.
Route 5
Shelby, North Carolina

Re: Docket No. DMEA-3295
Quartz Crystal
Tom Cabaniss Property
Cleveland County, North Carolina

Dear Mr. Cabaniss:

Reference is made to our letters of April 6, and April 16, 1954, on your application for exploration assistance. We have received an evaluation of the quartz crystal by the Squier Signal Laboratory, Fort Monmouth, New Jersey. Please supply us with the cost data requested in our letter of April 6, 1954.

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. Lawrence, 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. Mittendorf

Administrator

LGHouk:gad 6/25/54
Copy to: Admr. R. File
Docket File
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3061
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

COPY

WLD:EAG:JMS:WCR:cmv

SIGEL-SFC-4
Project No. 869A

Director
Squier Signal Laboratory
Fort Monmouth, New Jersey

JUN 23 1954

Mr. Tom Cabiness, Jr.
R. F. D. No. 5
Shelby, N. C.

Dear Mr. Cabiness:

The three quartz crystals which you previously submitted for testing of the piezoelectric quality have been processed through initial testing and the obtained results are as follows.

Two crystals, each weighing two and one half ounces, contained no visible defects and yielded 20 blanks measuring 0.600 x 0.600 x 0.050 inches. This number is equivalent to 64 blanks per pound of quartz.

One crystal weighing three and one half ounces was electrically twinned in approximately one half of the volume. It is estimated that at least five blanks with the above mentioned measurements can be obtained from the good material.

Generally speaking, the initial testing has disclosed the quality of the material to be good. The number of blanks per pound from the two smaller crystals is commensurate with production figures in our shop from grade 1 quartz.

If, in the future, you should desire to have us test additional samples of quartz for you, please do not hesitate to contact us.

Very truly yours,

W. L. DOXEY
Chief, Frequency Control Branch
Squier Signal Laboratory

cc: Mr. L. G. Houk, Room 4637, S. Interior Bldg., DMEA, Wash. 25, D.C.
Mr. W. F. Dietrich, Bu Mines, Ceramics & Fert. Materials Br.,Wash.,D.C.
Mr. H. M. Bannerman, U.S.Geological Survey, Wash., 25, D.C.
Mr. R. E. Rupert, Emergency Proc.Service, General Services Admin., 7th and D. Streets, S.W., Wash. 25, D.C.
Mr. F. P. Phelps, National Bureau of Standards, Wash. 25, D.C.

Mr. Tom Cabaniss, Jr.
Route 5
Shelby, North Carolina

Re: Docket No. DMA-3295 - Quartz Crystal
Tom Cabaniss Property
North Carolina

Dear Mr. Cabaniss:

Reference is made to your letter of April 9, 1954, and to the subject application for exploration assistance.

You may delay the preparation of the cost data until the results of the quartz testing are known.

Sincerely yours,

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

LGHouk:gad 4/15/54
Copy to: Admr. R. File
Docket File
Field Team, Region VII
Mr. Dietrich, 3061
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

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

April 7, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3295

Applicant: Tom Cabaniss, Jr.

Name and Location of Property: New Prospect, location unknown.

Date application rec'd. by Ceram. & Fert. Mats. Br.: April 1, 1954

Comments:

1. Many items are lacking in the application, including the location of the deposit, geological description, proposed plan of exploration, and breakdown of costs.

2. The Bureau of Mines does not have a record of any quartz crystal deposits in either North Carolina or South Carolina. It is doubtful if an exploration project would encounter any significant quantities of acceptable quartz crystal.

3. It is suggested the applicant be requested to submit a sample to be tested for its electrical properties. The applicant may wish to contact W. L. Domey, Acting Chief, Frequency Control Branch, Squier Signal Laboratories, Fort Monmouth, New Jersey, supplying him with information on the crystal and request a "Release From Obligation" form. This agency is interested in cataloging known domestic deposits and will test samples of quartz crystal on request, free of charge.

Recommendation:

It is recommended that this application be denied, until such time as the applicant can furnish information showing that an exploration program on quartz crystal is justifiable.

Signed

W. F. Dietrich

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APR 6 1954

Mr. Tom Cabaniss, Jr.
Route 5
Shelby, North Carolina

Re: Docket No. DMEA-3295 - Quartz Crystal
Tom Cabaniss Property
North Carolina

Dear Mr. Cabaniss:

Reference is made to the subject application for exploration assistance and the omission of cost data and a proposed program of exploration.

Please note Article 6 of MSA-103, a blank copy of which is enclosed, that it is a requisite part of your application to include detailed cost estimates for the required work. Kindly supply answers to Article 6, (a) to (f) inclusive, giving a detailed breakdown under each of the subheadings.

Please send representative samples of the quartz crystal from this deposit to Mr. W. L. Doney, Chief, Frequency Control Branch, Squier Signal Laboratory, Fort Monmouth, New Jersey, for evaluation as to acceptability. Request Mr. Doney to supply a copy of his findings to Lawrence G. Houk, Chief, Nonmetallic Minerals Division, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

Sincerely yours,

SIGNED

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

Enclosure

LGHouk:gad 4/6/54
Copy to: Admr. R. File
Docket File
Field Team, Region VII
Mr. Larrabee, G-232 GSA Bldg.
Mr. Dietrich, 3061
Mr. Houk

IN REPLY REFER TO:

G-MD-CNM

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

April 2, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3295 (quartz crystal)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant's name and address: Tom Cabaniss, Jr., Rt. 5, Shelby, N.C.
Name of property: No name.
Location of property: No location given.
Summary of applicant's proposal: None given.
Sources of information on applicant's property: Obviously none.
Comments: None.
RECOMMENDATION: Advise applicant that he has not given the required information. There is absolutely no use in referring this to a Field Team without more to go one. It would be a waste of their time.

D. M. Larrabee

Larrabee:jeh
G-4/2/54

cc: DMEA 3 ✓
Director's reading 4212
Branch reading 4212
Larrabee G-230