DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3348

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.

Cys to USBM,& USGS

Routing Slip

To:	600	Date	5/11/54
To:	Oper Com	Date	8-16-54
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DO NOT DETACH

CONTROLLED DOCUMENT

Docket Copy
Surname:
Houk
Chamberlin

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

SEP 14 1954

The Cooperative Mines, Inc.
C/o Mr. E. A. Teleucky, General
Manager
P. O. Box 38
La Madera, New Mexico

Re: Docket No. DMEA-3348 - Beryl-Mica
The Miller Group
Petaca District, New Mexico

Gentlemen:

This is to acknowledge receipt of your letter of September 1, 1954, in which you instruct us to withdraw the subject application.

The application has been withdrawn from our active file and the matter is now considered closed. Should you desire exploration assistance on your other properties it will be necessary to file a new application.

We wish to thank you for your interest in the Defense Minerals Program.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

WCAnderson:gad 9/13/54
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region IV
Mr. Kiilsgaard, 5227
Mr. Dietrich, 3061
Mr. Houk

R.C.G.

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

224 New Customhouse
Denver 2, Colorado

September 13, 1954

Mr. E. A. Teleucky, General Mgr.
The Cooperative Mines, Inc.
La Madera, New Mexico

Dear Mr. Teleucky:

Re: Docket No. DMEA-3348

Reference is made to your letter dated September 1, 1954, to the Administrator, Defense Minerals Exploration Administration, a copy of which was sent to this office.

Since you have leased the Miller Group and do not need exploration assistance, we have cancelled your application for exploration assistance, Docket DMEA 3348. If in the future you desire exploration assistance on some of your other properties, we will be glad to process your application.

Yours very truly,

for John F. Shaw

W. H. King
Executive Officer
DMEA Field Team, Region IV

JFS:mb

cc: Docket
Chairman, Oper. Comm.
JNFaick
WMTraver
AHKoschmann
Chron.

IF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 9-3

REFERRED TO:

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FOR:

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

REMARKS: Withdrawn

Check (X) before the items needing attention.

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

THE COOPERATIVE MINES, INC.,
THE AMERICAN FLUORSPAR GROUP, INC.

MICA -- FELDSPAR -- FLUORSPAR -- BARITE

A. C. BOHRNSTEDT
PRESIDENT
EDWARD A. TELEUCKY
MINES SUPERINTENDENT

LA MADERA, NEW MEXICO

September 1, 1954

U. S. Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-3348 - Beryl - Mica
The Miller Group - Petaca District, New Mexico

Attention: C. O. Mithendorf, Administrator

Gentlemen:

Subsequent to your letter of August 16th wherein you advised that our application for assistance in exploring the subject property had been reviewed and referred to W. H. King, Executive Officer, Denver, Colorado, for further consideration and possibly a field examination, we have leased "The Miller Group" to a Milling and Mining Company.

Therefore, at this time we are not in need of Government Exploration Funds on this particular group of mines. However, it is possible that in the near future we may require exploration assistance on some of our other properties in the same District, and in view of this, it is possible that you may desire to keep our file within reach.

Please accept our sincere thanks for your cooperation in the above matter.

Sincerely yours,

THE COOPERATIVE MINES, INC.

BY E. A. Teleucky
E. A. Teleucky, General Mgr.

cc: Mr. W. H. King, Executive Officer
DMEA Field Team, Region IV, Bureau of Mines,
224 New Customhouse Bldg., Denver 2, Colorado

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

224 New Customhouse
Denver 2, Colorado

August 26, 1954

Cooperative Mines, Inc.
P. O. Box 38
La Madera, New Mexico

Re: Docket No. DMEA 3348
(Beryl-Mica), The Miller
group, Petaca District,
Rio Arriba County, N.M.

Gentlemen:

The subject application has been referred to the field for an examination.

You will be advised later of the date of the field examination so that you or your representative may be present.

Very truly yours,

W H King

W. H. King
Executive Officer
DMEA Field Team
Region IV

HMC:es

cc: Docket
Chron.
Mittendorf

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

DMEA 334-8

August 16, 1954

Memorandum

To: Lawrence G. Houk, Chief, Nonmetallics Division, Defense Minerals Exploration Agency

From: John D. Sargent, Commodity-Industry Analyst, Rare and Precious Metals Branch

Subject: The Cooperative Mines, Inc., Box 38, La Madera, New Mexico; claims located in Petaca District, Rio Arriba County.

An examination of this property by a field team is recommended.

It is suggested that the exploration plan be altered to include more exploration to delineate the subsurface extent of the pegmatite and analysis of the ore bearing zones and less activity that resembles a resumption of mining and exploitation.

It is further suggested that one man could combine the roles of ore sampler, mines foremen, general manager and production manager on a project of this size, thereby affecting a saving of approximately $12,000 over that in the project proposal.

John D. Sargent

John D. Sargent

Docket Copy
Surname:
Houk
Martin
Johnson

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

AUG

Mr. W. H. King
Executive Officer, DMEA
Field Team, Region IV
Bureau of Mines
224 New Customhouse Building
Denver 2, Colorado

Subject: Docket No. DMEA-3348 -
Beryl-Mica
The Cooperative Mines, Inc.
The Miller Group
Petaca District, New Mexico

Dear Mr. King:

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

Copies of memoranda from the Geological Survey, dated June 28, 1954, and from the Bureau of Mines, dated May 12, 1954, are enclosed for your information.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (2443)

Approved:

J. H. Hedges (2443)
Member, Bureau of Mines

D. M. Larrabee (2443)
Member, Geological Survey

Enclosures 4

LGHouk:gad 8/16/54
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Newcomb, 5227
Mr. Kaiser, 3647
Mr. Houk

Docket Copy
Surname
Houk
Martin
Zavrakis
Hedges
Johnson

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

The Cooperative Mines, Inc.
P. O. Box 38
La Madera, New Mexico

Re: Docket No. DMEA-3348 - Beryl-Mica
The Miller Group
Petaca District, New Mexico

Gentlemen:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. W. H. King, Executive Officer, DMEA Field Team, Region IV, Bureau of Mines, 224 New Customhouse Building, Denver 2, Colorado, 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 8/16/54
Copy to: Admr. R. File
Docket
Field Team, Region IV
Operating Committee
Mr. Dietrich - Mr. Kaiser, 3647
Mr. Newcomb, 5227
Mr. Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

OFFICE OF
REGIONAL DIRECTOR

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

August 11, 1954

Miss Helen Adcock
Box 182
Raton, New Mexico

Dear Miss Adcock:

This will acknowledge your letter of August 3, requesting information on the Cooperative Mines, Inc., Santa Fe, New Mexico.

The Cooperative Mines, Inc., has made application to Defense Minerals Exploration Administration for assistance in exploring its beryl-mica-columbium-tantalite-bismuth deposits in Petaca District, Rio Arriba County, New Mexico. The application has been docketed No. DMEA 3348, but we have not had instructions to make a field examination.

Mr. C. O. Mittendorf, Administrator of Defense Minerals Exploration Administration, Department of Interior, Interior Building, Washington 25, D. C., has charge of this program. You may wish to write Mr. Mittendorf about this application.

Matters pertaining to the purchase of stock are within the province of the Securities and Exchange Commission. An inquiry should be directed to Regional Administrator William L. Cohn, Room 166 New Customhouse, Denver 2, Colorado.

The New Mexico Bureau of Mines and Mineral Resources Bulletin No. 25, entitled "Mica Deposits of the Petaca District, Rio Arriba County, New Mexico" describes the area in which the property is situated. You might obtain a copy of this publication from Mr. E. C. Anderson, Director, New Mexico Bureau of Mines and Mineral Resources, New Mexico School of Mines, Socorro, New Mexico. There may be a charge for this publication, but we do not have that information.

Very truly yours,

Original signed by
J. H. EAST, JR.

J. H. East, Jr.
Regional Director, Region IV

cc: Mr. William L. Cohn
Mr. C. O. Mittendorf

IN REPLY REFER TO:
G-MD-CNM

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

June 28, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3348 (BERYL)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant's name and address: Cooperative Mines, Inc.
Name of property: The Miller Group.
Location of property: Petaca District, N. Mex.
Summary of applicant's proposal:

Werner Deposit	-	Clear the openings, dewater, and continue adit.
Etter Deposit	-	Same.
Mary Deposit	-	"

Sources of information on applicant's property:
Mica Deposits of the Petaca District, N. Mex., R. H. Jahns.

Comments:

1. How can 7 miners require the services of

			Salaries
(a)	Sampler	Miners per yr.	$15,000
(b)	Mine foreman	Supervision	17,620
(c)	Production foreman		
(d)	General manager	Total cost	$60,298

This is so cockeyed crazy it's ridiculous. Throw it out!

2. No costs or concrete figures for each deposit.
3. Although operated during War II, production was negligible.

RECOMMENDATION: Denial.

D. M. Larrabee

D. M. Larrabee

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 6-23

REFERRED TO:

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FOR:

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..... Consideration	
..... Filing	..... Reply for signature of .....
..... Instructions	
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: Copy have been sent to Griffith, Lorraine, and to the Region

Check (X) before the items needing attention.

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

THE COOPERATIVE MINES, INC.,
THE AMERICAN FLUORSPAR GROUP, INC.

MICA -- FELDSPAR -- FLUORSPAR -- BARITE

A. C. BOHRNSTEDT
PRESIDENT
EDWARD A. TELEUCKY
MINES SUPERINTENDENT

LA MADERA, NEW MEXICO

June 18, 1954

U. S. Dept. of the Interior
Washington 25, D. C.

Attention: Lawrence G. Houk, Chief

Re: Docket No. DMEA-3348 - Beryl-Mica
The Miller Group
Petaca District, New Mexico

Question 4 (a) See enclosed description. The Miller Group consists of The Mary, The Etter and The Werner which are all contiguous.

There is a gravel road from Petaca, N. M. to the mines--a distance of 3½ miles.

5 (b) Enclosed you will find a sketch of The Mary mine workings. At present we are strip mining this particular property, and plan to continue this type of mining on said claim.

Regarding The Etter and The Werner, exploration work has not been started as yet. As soon as funds are available we plan to continue the old workings consisting of thirty feet adits. Beryl crystals have been found on the dumps--also, columbite and tantalite.

6 - Estimate of Costs: See enclosed sheets.

We apologize for our delay in returning information which you requested in your letter of May 17th; however, we have been busy doing assessment work on our various properties. If further information is desired, please let us know.

Sincerely yours,

THE COOPERATIVE MINES, INC.

BY E. A. Teleucky
E. A. Teleucky, General Mgr.

eat/at

Defense Materials Administration
RECEIVED
JUN 23 1954

AMENDED COST SHEET

RE: Docket No. DMEA-3348-Mica-Beryl
The Miller Group
Petaca District, New Mexico

6. Estimate of costs

(a) None

(b)	Ore Sampler Per Month	$250.00	Based one year		$2900.00
	Accounting "	50.00	"	"	600.00
(2)	Mines Foreman "	255.00	"	"	6120.00
	Machinist "	300.00	"	"	3800.00
(6)	Men to start as " miners & muckers (each)	209.00	"	"	15000.00
	General Mgr. "	400.00	"	"	4800.00
	Production Foreman "	300.00	"	"	3800.00
(c)	Materials Timber				1000.00
	Supplies (Dynamite, fuses, etc.)				800.00

(d) Operating Equipment:

Power Hoist	900.00
Cable	200.00
Track	200.00
Ore Car	100.00
Ore Bucket	100.00
Schram Compressor	3000.00
Jackhammer & hose	600.00
Water Pump	1000.00
Miscellaneous Tools	400.00

(e) None.

(f) Assay and storage buildings already built	600.00
(g) DT9 Dozer already purchased	5610.00
Jackhammer " "	400.00
Airhose " "	200.00
Small Tools " "	200.00
Workmens Compensation Insurance (per year)	2178.00
Employer's Liability Insurance (" ")	290.00
Payroll Taxes (" ")	500.00
Estimated cleaning, timbering, dewatering of mines	5000.00
TOTAL	$60,298.00

****

Re: Docket No. DMEA-3348- Beryl- Mica
The Miller Group
Petaca District, New Mexico

Werner Deposit

During the last 30 years many small pits and cuts have been excavated, but the most extensive operatios were conducted in 1926 and 1927 by the Hoyt Mineral Co. of Las Tablas. About 80 tons of scrap Mica, and several hundred pounds of Columbite were obtained, according to Philip S. Hoyt. The deposit was reopendd early in 1943 by A.C. Bobrnstedt of La Madera, and about 50 pounds of high-quality sheet Mica, several thousand pounds of scrap, and a little Columbite and Beryl were obtained.

The Pegmatite is an irregular, trough-shaped body whose general structure may well have been controlled by a broad warp in the country rock. The axis of this trough appears to pitch west at a moderate angle. The country-rock structure strikes N.17 Deg. E. to N. 60 Deg. W Its average strike is about or gently west. at N. 25 Deg. W. its average dip 35 Deg. WSW. As measured along the center of its exposed portions, the Pegmatite body is approximately 640 feet long and 60 feet or more in maximum breath. An arm 15 to 40 feet thick extends southeast from the keel of the trough far a distance of 220 feet, and the north limb of the trough may connect with irregular pegmatite bodies that can be traced northwestward for at least 450 feet.

Most of the minerals are similar in the prperties and occurrence to those at the Etter Deposit. The garnet has been altered to Chlorite. The Beryl crystals found in place, as well as Beryl-bearing dump material, indicate that this mineral is present most commonly along the margins of the quartz core, particularly in the north limb of the body. Some Beryl crystals are present along the footwall immediately north of thebase of the eastward-projecting arm. The richest Mica shoot occurs in the albitized footwall zone north of the keel of the deposit. It is said in the present heading it has contained 20 to 35 per cent Mica. The Mica occurs in light green books 3 inches in average diameter and 15 inches in maximum diameter.

No work at present has been done. Intend to clear the openings and dewater the adit. Very interested in the Beryl, which some of the quartz that is found along the footwall contains about 1% Beryl. Will continue with adit in a downward plunge, when we receive the Loan.

Submitted By The Cooperatives Mines Inc.
E.A. Teleucky, General Mgr.

Re: Docket No. DMEA-3348- Beryl-Mica
The Miller Group
Petaca District, New Mexico

Etter Deposit

It is a long pegmatite dike that trends nearly due west across the broad top of a prominent ridge and part way down its sides. The main workings, which are a few hundred feet east of the road the the Mary Claim mine, consist of two open cuts 15 feet long, 10 to 20 feet wide, and 5 to 15 feet deep. Both are undercut a few feet west.The pegmatite dike, much of which is nearly vertical, is 700 feet long and about 15 feet in average thickness. Its eastern bulges are from 25 to 30 feet thick. The trace of this dike makes an acute angle with the trace of the country rock foliation, which trends N. 40 Deg. W to 65 Deg. W. and dips 45 Deg to 59 Deg SW.

A large part of the wall zone near the west end of the deposit has been sufficiently replaced to be mapped as albite-rich pegmatite. Much of the Columbite and Monazite is stained pinkish to red brick color

Small books of Mica are scattered through the outer parts of the dikes, but larger books are present in distinct concentrations in the albite-rich pegmatite exposed in the main workings. The average size of the books, as measured on cleavage faces, is about 3 by 3 inches, but books a foot or more in diameter were encountered during the recent mining. The mineral is light to derk green, fairly hard, and generally free from stain.

The Etter claim was worked last by Mr A.C. Borhnstedt and associates in 1943. They produced a few pounds strategic-grade mica, several thousand pounds of scrap, and a little beryl.

Will explore the main workings and dewater the adits,as water deep and cannot continue the downward plunge which we intend to do so as soon as the Loan is granted.

The Mary Claim, The Etter Claim, The Werner Claim, All of the said claims being part of what is known as The Miller Group and lying within Section 36, Twp. 26 North, Range 8 East, Section 31, Twp. 27 North, Range 9 East, Section 1, Twp. 26 North Range 8 East, and Section 6, Twp. 26 North, Range 9 East, N.M.P.M.

Submitted By The Cooperative Mines Inc.
E.A. Teleucky, General Mgr.

Re: Docket No. DME[illegible]### 3348- Beryl-Mica The [illegible]ller Group
Petaca District, New Mexico.

THE MARY DEPOSIT (Formally known as the North Star (Miller) Deposit)

Near the north end of a prominent ridge about 2 airline miles northwest of Petaca is The Mary or Miller deposit. It lies less than 0.2 mile south of La Jarita Canyon and about half a mile north-northeast of Brown cabin. It is in the SW¼ SW¼ sec. 30, T.27N., R.9E., and in the SE¼ SE¼ sec. 36, T.27N., R.8E. The mine workings are connected with Sawmill road by half a mile of poor automobile trail that extends north from a point at the top of the main grade northwest of Petaca.

Operations for scrap mica were conducted in 1926 by the American Mica Products Company, and briefly in 1938 and 1938 by R. H. Maulsby and J. J. Maulsby. About 100 tons of scrap mica and a little sheet and punch material were obtained by these and other operators during the period 1920-1940. The mine was reopened in 1943 by A.C. Bohrnstedt of La Madera, who gave particular attention to the west end of the deposit. Small quantities of scrap mica, BERLY, and monazite were obtained. All workings have been idle since the fall of 1943.

The deposit consists of a single long sinuous pegmatite dike that trends N.65 degrees W. and dips steeply north-northeast near its east end and south-wouthwest elsewhere. The oldest workings are two narrow pits along the south margin of the dike near its east end. These are 28 to 34 feet long, 4 to 10 feet wide, and 5 to 15 feet deep. Both are partly filled with muck and may have been much deeper at one time. Irregular pits 10 to 30 feet long, 8 to 20 feet wide, and 3 to 15 feet deep, have been sunk along both walls of the dike farther west. The most recent cut, near the west end of the deposit, is 40 feet long, 3 to 20 feet wide, and 2 to 10 feet deep.

The country rock, which is best exposed in the workings, is greenish gray quartz-mica schist. The average strike of its foliation is N. 45 degrees W., the average dip 50 degrees SW. No linear structures were observed. The pegmatite dike is about 525 feet long, 64 feet in maximum outcrop breadth at a prominent bulge near its west end, and 25 feet in average thickness. Its keel is not well exposed, but its crest or nose plunges gently west. Minor irregularities along the borders of the dike, as well as the lithologic units within it, plunge moderately to gently west or northwest, depending on the dip of the body at the point in question. Pegmatite-country rock contacts are offset along several minor faults and shear zones, particularly in the workings immediately west of the Old pits. None of the displacements is more than a few feet.

THE MARY DEPOSIT IS ONE OF THE MOST CLEARLY AND REGULARLY ZONED PEGMATITES IN THE DISTRICT. A quartz core 370 feet in exposed length and 10 feet in average width forma a continuous central spine in the eastern two-thirds of the dike. West of this core, and flanking its west end, is an intermediate zone of massive white to gray quartz with abundant crystals and irregular masses of microcline 2 to 12 feet in diameter. Rude crystal faces are present on even the largest of the feldspar masses. Isolated parts of

this zone are exposed in the west bulge of the dike. The wall zone, which consists of very coarse-grained microcline-quartz pegmatite, originally formed a complete envelope around the inner zones; but replacement by albite has all but obliterated its original constituents in the east half of the deposit, where it now appears as a partial zonal pseudomorph. Where it flanks the quartz core the partly replaced wall zone is 5 feet in average thickness, but farther west it constitutes the bulk of the dike. A border zone of finer-grained microcline-quartz pegmatite that contains much partly digested country-rock material is in general 1/4 inch to 6 inches thick. Along the crest of the dike, however, it thickens to a foot or more.

The microcline is white, light gray, tan, and brick red. The albite, in contrast, is lustrous and white. The sugary variety of albite appears to have been formed at the expense of microcline and is abundant in the west cut. Coarse cleavelandite is predominant in the wall-zone pseudormorph in the eastern two-thirds of the dike, where it appears to have been formed through replacement of both microcline and quartz. Selective replacement of potash feldspar by albite was most common in the intermediate zone near its contact with the quartz core. Garnet, green fluorite, and a little pale green BERYL are abundant accessory constituents of the wall zone, and locally have been corroded and partially replaced by albite. COLUMBITE, SAMARSKITE, MONAZITE, and purple fluorite are most abundant in albite-rich pegmatite exposed in the old workings, and bismutite and samarskite are present near the margins of the quartz core. Small thin flakes of bright yellow muscovite occur along cracks in feldspar and quartz, especially in the West cut.

The richest concentrations of mica appear to have been taken from the wall-zone pseudomorph along the south margin and near the east end of the dike, and the largest books seem to have lain against the quartz of the core. Impressions of these books in the north walls of the Old pits suggest that many were 18 inches or more in diameter. The concentration of mica appears to decrease westward along the strike of the dike. Books exposed in the West cut, for example, are 1 inch to 3 inches in diameter and are sparsely scattered throughout the pegmatite.

The mica is light to dark green, clear, and relatively hard. Those that lay against the quartz core, however, were "flat-A" mica and are said to have yielded satisfactory sheet and punch material. Future attempts to obtain mica from the deposit might profit by developing and mining the down-plunge continuations of the concentrations worked in the Old pits. It is unfortunate that the floors of these openings are so fouled with muck that inspection of the old working faces is not possible.

THE MARY DEPOSIT (continued)

The Mary Claim, The Etter Claim, and The Werner Claim, all of which are part of what is known as The Miller Group, and lying within Section 36, Twp. 26 North, Range 8 East, Section 31, Twp. 27 North, Range 9 East, Section 1, Twp. 26 North Range 8 East, and Section 6, Twp. 26 North, Range 9 East, N.M.P.M.

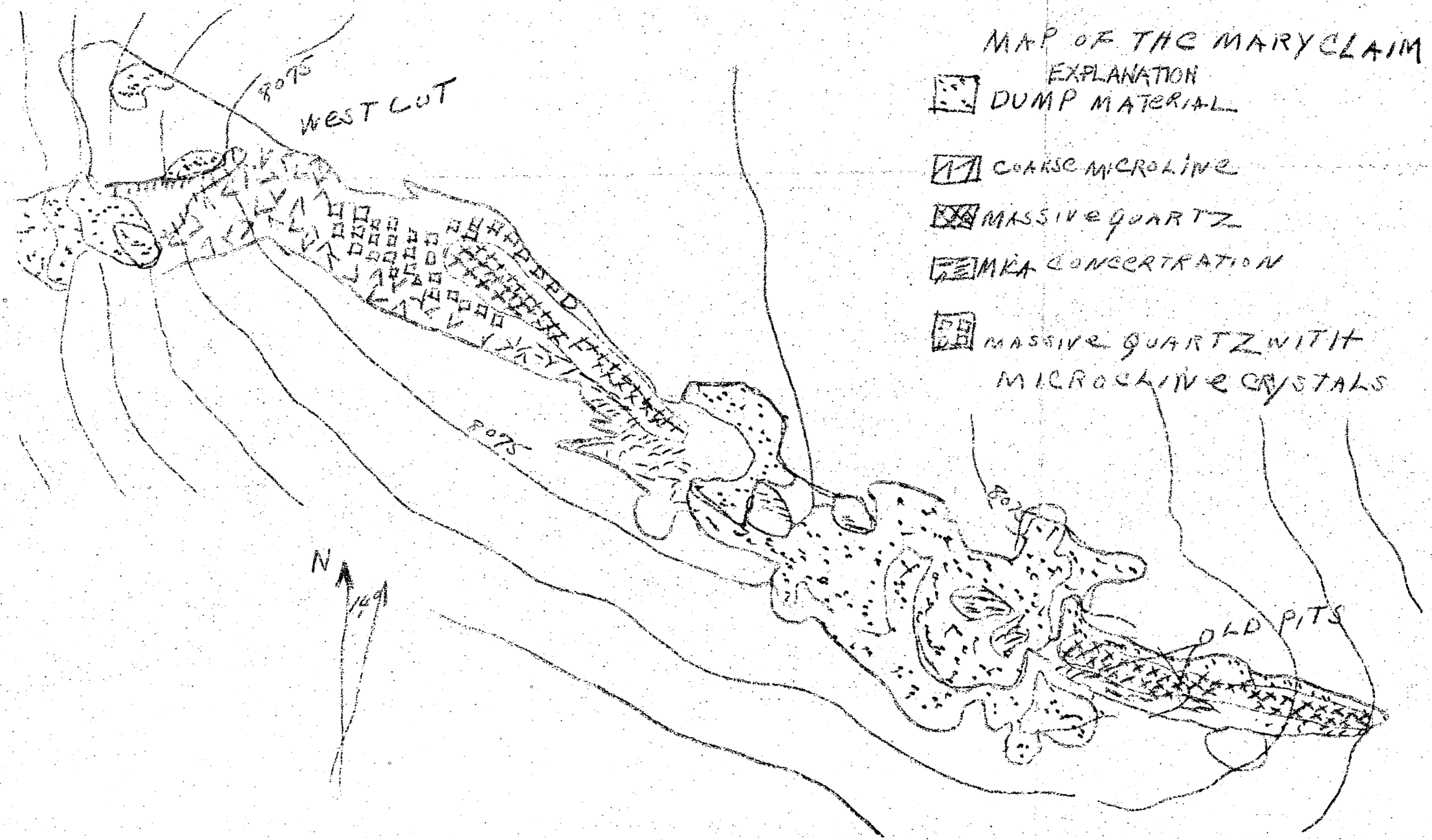
We have been strip mining this claim at the present and will continue to do so until we find the best concentration of Mica with Columbite or Monazite. To date we have gotten out about 300 lbs of Columbite and about 100 lbs of Monazite and serval thousand lbs of scrap Mica.

There is serval tons of Columbite and Monazite that are in the dump materials from former workings and that The Petaca Mining Co. That is building a Milling plant about 6 miles from our claims all our dump material will be runned thru there mill.

The reason that we are putting our efforts in the Miller Group and this claim the Mary is, that for a number of years there has been taken, thousands of pounds of Columbite as Float taken of the Miller Group. At one time a Mr R. H. Maulsby of Truth and Consequences. New Mexico his present address, took 7000lbs of Columbite that assayed 65% Columbite and 5 % Tantalum. Also there are lots more Float that is being taken off at the Present time as Placer.

Submitted By The Cooperative Mines Inc.
E.A. Teleucky, General Mgr.

RE DOCKET NO DMEA 3348



FILE COPY
Surname:

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

MAY 17 1954

The Cooperative Mines, Inc.
P. O. Box 38
La Madera, New Mexico

Re: Docket No. DMEA-3348 - Beryl-Mica
The Miller Group
Petaca District, New Mexico

Gentlemen:

Reference is made to your application for exploration assistance for $50,320.00 to explore for beryl, mica and other pegmatite minerals in the Petaca District in New Mexico.

A study of your application form shows you have not submitted a description of the operations now being conducted including existing mine workings and production facilities on the property. See application form Question 4 (a). Question 5 (b) should be answered in detail. Describe fully the proposed work separately for each pegmatite or claim and show the type of exploration work you desire to perform. Under Question 6, Estimate of Costs, the breakdown should follow the subheadings (a) to (h).

A copy of the application form, DMEA Order-1, Amended, and a booklet in the question and answer form is enclosed for your information and guidance in submitting additional data.

Upon receipt of the requested information your application will be processed.

Sincerely yours,

SIGNED

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

Enclosures 3

LGHouk:gad 5/17/54
Copy to: Admr. R. File
Docket File
Field Team, Region IV
Mr. Griffith, 3641A
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C.G.

IN REPLY REFER TO:

G-MD-CNM

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 12 1954

May 12, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3348 (beryl)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant's name and address: The Cooperative Mines, Inc., Box 38, La Madera, New Mexico.
Name of property: Mary, Mary #2, Queen, et al.
Location of property: Petaca District, New Mexico.
Summary of applicant's proposal: None given.
Cost: $50,320.
Sources of information on applicant's property: R. H. Jahns report on pegmatites of the Petaca District, New Mexico Bur. Mines Bull. 25.
Comments: None.
RECOMMENDATION: Have applicant submit an exploration program for each of the above claims, after which we can decide upon a field examination.

D. M. Larrabee

D. M. Larrabee

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

DEPARTMENT OF THE INTERIOR
Defense-Minerals Administration
RECEIVED
MAY 12 1954

May 12, 1954

Memorandum

To: L. G. Houk, Chief, Nonmetallics Division, DMEA

From: R. F. Griffith, Commodity-Industry Analyst, Rare and Precious Metals Branch

Subject: DMEA - 3348, Beryl and other pegmatite minerals, The Cooperative Mines, Inc., Box 38, La Madera, New Mexico. Claims located in Petaca District, Rio Arriba County.

The applicant does not present an exploration plan, but from the equipment listed under estimated costs it appears that exploration by shafting and drifting is planned.

The history of the district indicates that the property may have more value for columbite-tantalite than for beryl.

In view of known occurrences of strategic minerals in this district, it is recommended that the application be referred to the field for investigation and that the applicant be requested to submit a detailed exploration plan.

R. F. Griffith

R. F. Griffith

Attachment

The Cooperative Mines, Inc.
P. O. Box 38
La Madera, New Mexico

May 11, 1954
Subject: DMEA-3348
Re: Exploration Assistance
Mary, et al.

Gentlemen:

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

Your application has been assigned Docket Number DMEA-3348 and referred to the Non-Metallic Minerals Division.

Kindly refer to DMEA-3348 in any future correspondence relating to your application.

Sincerely yours,

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

UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF RAW MATERIALS

Colorado Mineral Administration
RECEIVED
MAY 11 1954

In reply refer to:
ASO:RBS

January 19, 1954

Mr. A. C. Bohrnstedt, President
The Cooperative Mines, Inc.
La Madera, New Mexico

Dear Mr. Bohrnstedt:

This is in reference to a sample collected from your property near La Madera, New Mexico.

We submitted this sample to the New York Laboratory for petrographic study. The results are as follows:

The sample appears to be of pegmatitic origin as it consists chiefly of pink feldspar intergrown with dark, massive columbite-tantalite. Muscovite occurs as a minor constituent. Also a red to black, vitreous, uranium-bearing mineral occurs in small amount intergrown with the columbite-tantalite. It could not be identified by its X-ray diffraction pattern; however, a spectrographic analysis of this mineral shows major columbium and minor titanium, tantalum, iron, silicon, and yttrium, and a qualitative bead test shows that it contains uranium. These determinations indicate that the mineral is a uranium-bearing niobate. As a rule minerals of this kind also contain thorium. The uranium and any thorium are probably present in small amount and hence are not detectable by spectrographic analysis.

We regret not being able to furnish you with a report before this owing to the heavy work load in the New York Office.

If we can be of further assistance in any way, do not hesitate to call on us.

Sincerely yours,

Raymond B. Stroud

Raymond B. Stroud, Geologist

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
MAY 11 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. 3348
Metal or Mineral Beryl, et al
Date Received
Estimated Cost $50,320
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: The Cooperative Mines, Inc
Box 38
La Madera, New Mexico.

(*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 All these are included, the mine names are,6 MARY* MARY* NO 2* QUEEN* CONQUESTADOR*ALMA* SILVER SPUR* BLANK FANG* FRANCIS* FRANCIS NO2* WERNER* ETTER* CALIF-WESTERN* PINO ALTO* TRIPLE EEE-A*

(*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

(*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 Own mining claims only.

(*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.

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

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Beryl; Mica; Columbite; tantalum; bismuth; samarskite; monazite.

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

(*c*) The work will start within Started April 1st, 1954 days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

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

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

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

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

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

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

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

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

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

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

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

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

[X] Money [X] 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 May, 1954

The Cooperative Mines, Inc.
(Applicant)

By E. A. Tolcusky,
General Manager

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

Application for aid for an Exploration Project upon the following properties owned by us, as follows, to-wit:

3. (f) The Mary Claim
The Etter Claim, and
The Werner Claim

all of said claims being part of what is known as the Miller Group and lying within Section 36, Twp. 26 North, Range 8 East, Section 31, Twp. 27 North, Range 9 East, Section 1, Twp. 26 North, Range 8 East, and Section 6, Twp. 26 North, Range 9 East, N.M.P.M.

Recorded location notice: The Mary Claim - Book 11, Page 76, 1941.

The Etter - Book, Page 88, 1942.
The Werner - Book 11, Page 75, 1941.

The Queen - Book 11, Page 75, 1941.
The Conquestador - Book 11, Page 74, 1941.
The Alma - Book 11, Page 75, 1941.
The Silver Spur - Book 11, Page 73, 1941.
The Black Fang - Book 11, Page 73, 1941.
The Francis - Book 13, Page 41, 1950.
Francis No. 2 - Book 13, Page 41, 1950.
California-Western - Book 13, Page 48, 1950.
Pino Alto - Book 11, Page 87, 1942. Under our control.
Triple EEE-A - Book Book 11, Page 226, 1943.

4. (b) The Miller group which is now in the exploration stage are the Mary claim, Etter and the Werner claims. On these claims there has been taken over 10.000 lbs of Columbite and Tantalum ore float off these claims. On the Werner Claim there has been Beryl found on it. By the report made in 1946 New Mexico Bureau of Mines and Mineral Resources. By. Richard H. Jahns Bulletin 25. There will be other imformatiom pertaining to these mines. At the present we did hit a rich Albite zone containing Monazite with Columbite-Tantalum ores.

(c) The pegmatite deposits of these claims are a sources of commercial mica.
The bodies of these mines are chiefly of coarse microcline-quartz pegmatites.

4. (d) These mines are located in the Petaca District approximately fifty-five airline north of Santa Fe, New Mexico; twenty-five miles West of Taos, New Mexico; and thirty-five miles south of Colorado-New Mexico State line. All mines are accessible by truck.

4. (e) Many unemployed former Spanish miners live in this District. Supplies, materials, and equipment may be purchased either at Santa Fe, N. M., or Albuquerque, N. M. This district is bounded on the east by the Tusas River; on the West by the Rio Vallecitos. These streams flow southward and southeastward to join at La Madera, N. M., whence the drainage (Caliente River) is southward into the Rio Grande via the Chama.
There is electrical power all the way into Petaca, N. M. The mines are approximately three and one-half miles from Petaca.

NOTE: A three hundred ton per day mill, with a flow sheet for wet and dry ground mica; and with a separation for rare earth minerals; situated approximately three miles of Petaca, N. M., and being build by the St. Michael's College Foundation, Ind. The mill is called "The Petaca Mining Corporation."

5.(d) My position is General Mgr. Will employ a good General foreman that is experienced. At present we have in our employ, Mr Joseph Maestas., one of the best mining men in this area.

6 The following machinery was purchased, and buildings erected. These are owned by us Now.

DT9 Dozer.....	$5610,00
Jackhammer.....	400.00
Air-hose.....	200.00
small tools.....	200.00
Assay and storage building built.... -	600.00
	$7010.00

Money that will be needed to explore the mines.

Power hoist, pipe, fittings, cable, track, bucket, ore car, etc.....	$1500.00
Schram Compressor.....	3000.00
Another Jackhammer and hose.....	600.00
Miscellaneous tools.....	400.00
Timber for mine shafts.....	1000.00
Water pump for dewatering the mine shafts, adits.	1000.00
Dynamite,fuses, etc,-.....	800.00
Estimated,. Cleaning, timbering, cleaning, dewatering of all mines.....	*5000.00
	$ $3300.00

Supervision. Based for 1 year.

General Mgr,. $400 per month.....	$ 4800.00
Producation Foreman.Per Month..$300.00...	3800.00
Ore sampler (Strategic) Per Month $250.00....	2900.00
Accounting. Per Month..$50.00	600.00
Machinist.....Per Month $300.00.....	3800.00
Two (2) Mines foreman.....$150per Hour.....	6120.00
About six (6) men to start as miners and muckers.... at $1.25 per Hr.	15,000.00
	$37,020.00
	13,300.00
	$50,320.00

7 (b) We fully expect to contribute our share, either by labor or other authorized ways, and by sale of scrap mica.
By money that we have in the Santa Fe Bank.
By money that we will receive our lease from the placer of the Miller Group.
And from the sale of stock to our Stockhalders.

The Cooperative Mines, Inc.
By E. A. Telenoky, General Mgr.

THE COOPERATIVE MINES, INC.,
THE AMERICAN FLUORSPAR GROUP, INC.

MICA -- FELDSPAR -- FLUORSPAR -- BARITE

A. C. BOHRNSTEDT
PRESIDENT
EDWARD A. TELEUCKY
MINES SUPERINTENDENT

LA MADERA, NEW MEXICO

May 8, 1954

1. (c)

Acting President - Mrs. Ethel M. Bohrnstedt
1098 East Orange Grove
Pasadena, California

Secretary-Treasurer - Mona L. Schmoker
Plaza Hotel
(P.O. Box 1754)
Santa Fe, New Mexico

General Manager - E. A. Teleucky
P. O. Box 38
La Madera, New Mexico