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

RECEIVED
OCT - 1 1956

224 New Customhouse
Denver 2, Colorado

September 28, 1956

Mr. Ray Burch
2712-42nd Street
Lubbock, Texas

Dear Mr. Burch:

This will acknowledge receipt of your letter dated September 25, 1956, regarding a new application for DMEA aid on the Rockin Chair Claims in Santa Fe County, New Mexico.

You are at liberty to file another application if you so desire. In the event that you make a new application for DMEA aid, please make reference to your previous application which was docketed number DMEA 3895, and give a complete report of all work you have accomplished on the property since the last DMEA field examination.

Attached is a copy of the general requirements for making a DMEA application for exploration assistance and all of the enclosures noted therein. If you believe your work, since the last DMEA field examination on your property, has resulted in additional information which justified further exploration work, due consideration will be give your new application.

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures

HMC:ytl
cc: Sec.Op.Comm. (2)
Shaw (2)
Harshman
Subject
Chron.

COPY

2712-42nd Street
Lubbock, Texas
September 25, 1956

RECEIVED
OCT - 1 1956

Mr. W. M. Traver
Bureau of Mines
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3895
Rockin Chair Claims
Santa Fe County, N.M.

Dear Sir:

I would like to make an inquiry pertaining to application for aid in an exploration project, Docket No. DMEA-3895 Beryl-Mica dated July 11, 1955.

After W. D. McMillam, and D. R. MacLaren, examined our property, Mr. Raymond Hogan and I, did some mining and recovered 500. lbs. of beryl which we shipped to Custer, South Dakota.

By reducing the total estimated cost of the July 11, 1955 application of $257,711.50 to a new total cost project of $10,000 and with the warranty, invoice that I am enclosing that reveals evidence of the beryl question.

Would this be sufficiently to justify a new application to Mr. Raymond Hogan and I?

Yours very truly,

/s/
Ray Burch

(y)

COPY

Docket Copy
Surname:

Hopkins
F. Johnson
Kilsgaard
Gehen
Selfridge

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

OCT 12 1955

Messrs. Ray Hogan and Ray Burch
P. O. Box 42
Cordova, New Mexico

Re: Docket No. DMEA-3895 - Beryl-Mica
Ray Hogan and Ray Burch
Rockin Chair Group of Claims
Rio Arriba County, New Mexico

Gentlemen:

Your application for aid in an exploration project and other information available to us in Washington relating to the above-named property have been reviewed.

Projects approved by this Agency 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, although noting a small amounts of beryl-mica on your claims, indicates to us that the probability of disclosing minable ore reserves 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 without prejudice to the property. If future work at your property reveals evidence which could materially alter this opinion, be assured we will be pleased to consider a new application.

We wish to thank you for your interest in the Defense Minerals program and for bringing your property to our attention.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

JHopkins:gad 10/11/55
Copy to: Kindom Uranium Corp.
Admr. R. File
Docket
Field Team, Region III
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Hopkins

R.C.L.

KINDOM URANIUM CORPORATION
Engineering Division
323 Tulane Drive S.East
Albuquerque New Mexico

RECEIVED
OCT 13 1955

October 8, 1955

Mr. C.O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Washington 25, D.C.

Dear Sir:

Ref: Decision taken on Exploration assistance of Ray Hogan and Ray Burch, docket DMEA 3895.

We will appreciate you very much to inform us what decision had being taken concerning the application for exploration under docket DMEA 3895 of Ray Hogan and Ray Burch.

Your office in Denver suggested to write you directly requesting the status of the above application for the exploration of Beryl ore.

Yours very truly,

KINDOM URANIUM CORPORATION

By

John J. Moya-President

Send copies to:
Kindom Uranium Corporation
323 Tulane Drive S.E. Albuquerque.N.M.

Ray Burch and Ray Hogan
2712-42nd Street, Lubbock, Texas

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

F. L. Kromm

October 11, 1955

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: A denial of exploration assistance and Summary Report

By: James Hopkins

1. Docket No. DMEA-3895 (Beryl-Mica)
Property: Rockin Chair Group of Claims Nos.1 to 19
Located in Sections 5 & 6 T 20 N R 11 E
Section 31 T 21 N R 11 E
Sections 35 & 36 T 21 N R 10 E
Rio Arriba County, New Mexico

Applicants: Raymond Hogan and Ray Burch
Box 42 Cordova, New Mexico

Application: Received 7/11/55.
Proposes: Test Pits, Trenches and diamond drilling
Amount: $257,711.50

No contract: Application denied.

Comments:

Government assistance was requested to explore 19 Rockin Chair Claims for beryl.

The formation in the area of the Rockin Chair group are pre-cambrian schists and gneisses which have been intruded by granite and pegmatite.

Although several pegmatites are reported within the limits of the claims, the discovery has been on Rockin Chair No. 2 Claim. The production consists of 600 lbs. of beryl produced from hand cobbing 120 tons of pegmatite from an open cut 20' long, 8' wide and an average depth of 8' on the north side of a feldspar-quartz-mica dike. The core of this dike is exposed over a length of about 550 feet and a width of 55 to 75 feet.

The pegmatite on Rockin Chair No. 2 ranges in width from 80' to 100' and is over 1,000' long. Two zones comprise the pegmatite. The outer consists of 30% quartz, 23% albite, 27% microcline perthite and 8% muscovite. The core consists of 35% quartz, 10% albite, 50% microcline perthite and 5% muscovite. Beryl occurs in either cleavelandite or quartz.

The field examiners found only three beryl crystals in place -- the largest being three inches in diameter.

In the walls of the pits and at places along the outcrop there are masses of muscovite mica books. All are marked by "A" structure but a moderate amount of sheet mica could be obtained from them. Recoverable sheet would be about 2%. Only a small amount will be as large as No. 3 grade. The recoverable amount would be negligible.

Only a few grains of columbite were seen.

Minable Ore Reserves:

The Field Team estimates that there are 3,400 tons of dike rock per foot of depth. This will average not more than (beryl) 0.5% which is not commercial ore.

Conclusions:

Because of the very limited area in which beryl has been found the Field Team concludes that the chance of making a significant discovery of beryl, mica, or tantalite-columbite is poor. The Field Team, therefore, recommends that the application be denied without prejudice. The Nonmetallic Minerals Division, DMEA, concurs in this recommendation. The Commodity Specialists of the Geological Survey and the Bureau of Mines also concur in the recommendation.

not clear. what has [illegible] to do with mica, etc?

James Hopkins
Nonmetallic Minerals Division

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

RECEIVED
OCT 6 - 1955

October 4, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3895 (Beryl-Mica), Ray Hogan and Ray Burch, Rockin Chair Group of Claims, Rio Arriba County, New Mexico

In reply to your letter of September 22, 1955 enclosed are four copies of a joint memorandum from the field. They believe that the amount of recoverable mica of strategic grade would be insignificant.

W. M. Traver

Enclosures

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR

DMEA
Date Rec'd

GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

BUREAU OF MINES
Denver, Colorado

October 3, 1955

RECEIVED
OCT 6 - 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. N. Harshman E.N.H.
J. F. Shaw JFS

From: D. R. MacLaren
W. D. McMillan

Subject: Report of Examination, DMEA Docket 5795 (Beryl-mica), Ray Hogan and Ray Burch, Rockin Chair Group of Claims, Rio Arriba County, New Mexico

On page 5, third paragraph, third sentence of the subject report states "The recoverable sheet mica of all grades and qualities might be as much as 2 percent." The meaning would have been clearer had the sentence ended "...2 percent of the masses of muscovite." As pointed out in the report much of the sheet mica will contain mineral stains and only a small amount will be as large as No. 3 grade. Therefore, the recoverable mica of strategic grade is believed to be insignificant.

D R MacLaren
D. R. MacLaren, Geologist
Geological Survey

W. D. McMillan
W. D. McMillan, Mining Engineer
Bureau of Mines

DRMaclaren:arh

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

October 4, 1955

RECEIVED
OCT 6 - 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3895 (Beryl-Mica), Ray Hogan and Ray Burch, Rockin Chair Group of Claims, Rio Arriba County, New Mexico

In reply to your letter of September 22, 1955 enclosed are four copies of a joint memorandum from the field. They believe that the amount of recoverable mica of strategic grade would be insignificant.

W. M. Traver

W. M. Traver

Enclosures

IN REPLY REFER TO:

DMEA
Data Rec...

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

OCT 4 ...

BUREAU OF ...
Denver, Colo...

October 3, 1955

RECEIVED
OCT 6 - 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. N. Harshman
J. F. Shaw

E.N.H.

From: D. R. MacLaren
W. D. McMillan

Subject: Report of Examination, DMEA Docket 3895 (Beryl-mica), Ray Hogan and Ray Burch, Rockin Chair Group of Claims, Rio Arriba County, New Mexico

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DRMaclaren

D. R. MacLaren, Geologist
Geological Survey

W.D. McMillan

W. D. McMillan, Mining Engineer
Bureau of Mines

DRMaclaren:arh

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

RECEIVED
OCT 6 - 1955

October 4, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3895 (Beryl-Mica), Ray Hogan and Ray Burch, Rockin Chair Group of Claims, Rio Arriba County, New Mexico

In reply to your letter of September 22, 1955 enclosed are four copies of a joint memorandum from the field. They believe that the amount of recoverable mica of strategic grade would be insignificant.

W. M. Traver

W. M. Traver

Enclosures

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

DMEA
Date Rec'd
OCT 6 1955

October 3, 1955

RECEIVED
OCT 6 - 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. N. Harshman
J. F. Shaw

From: D. R. MacLaren
W. D. McMillan

Subject: Report of Examination, DMEA Docket 3895 (Beryl-mica), Ray Hogan and Ray Burch, Rockin Chair Group of Claims, Rio Arriba County, New Mexico

On page 5, third paragraph, third sentence of the subject report states "The recoverable sheet mica of all grades and qualities might be as much as 2 percent." The meaning would have been clearer had the sentence ended "...2 percent of the masses of muscovite." As pointed out in the report much of the sheet mica will contain mineral stains and only a small amount will be as large as No. 3 grade. Therefore, the recoverable mica of strategic grade is believed to be insignificant.

D. R. MacLaren, Geologist
Geological Survey

W. D. McMillan, Mining Engineer
Bureau of Mines

DRMaclaren:arh

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

RECEIVED
SEP 28 1955

September 27, 1955

Memorandum

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

From: Commodity-Industry Analyst, Branch of Rare and Precious Metals

Subject: Field Team report on application for exploration aid, DMEA Docket No. 3895 (beryl)

The Field Team estimates that the pegmatite contains about one half percent beryl, which in a zoned pegmatite ordinarily is high enough grade to warrant investigation. However, in this instance the beryl crystals apparently are too small to be hand cobbed and therefore an exploration project would have little chance of success. I concur with the recommendation that the application be denied without prejudice.

Horace T. Reno

Horace T. Reno

Docket Copy
Surname:

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

SEP 22 1955

Mr. W. M. Traver
Executive Officer, DMEA
Field Team, Region III
Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. DMEA-3895 Beryl-Mica
Ray Hogan and Ray Burch
Rockin Chair Group of Claims
Rio Arriba County, New Mexico

Dear Mr. Traver:

Reference is made to the Field Team examination report, dated August 30, 1955, on the Rockin Chair No. 2 Claim.

In the discussion of the occurrence of mica in the pegmatite on page 5 of the report, it is estimated that the quantity of recoverable sheet mica of all grades and qualities might be as much as two percent.

Judging from the context, it is not clear to us whether it is meant that the entire core of the pegmatite or only the "masses of muscovite" might contain this quantity of recoverable sheet mica.

We will greatly appreciate clarification of this question so that we may properly evaluate the report.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Approved:

/s/ Robert W. Geehan
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

JHopkins:gad 9/20/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Dietrich, 3061
Mr. Kiilsgaard, 5222
Mr. Houk
Mr. Hopkins

IN REPLY REFER TO:

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

RECEIVED
SEP 1 5 1955

September 15, 1955

Re: DMEA 3895
Raymond Hogan & Ray Burch
Rockin Chair No. 2 Claim
Santa Fe Co., New Mexico
$257,711.00 - Beryl, Mica

Memorandum

To: L. G. Houk, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

The applicants proposed an ambitious program of diamond drilling, pitting and trenching of a large pegmatite from which 600 pounds of beryl has been produced by hand cobbing.

The examiners conclude that the pegmatite is low grade, basing their conclusion on the production and low crystal count of the well-exposed pegmatitic mass. Mica is present in quantity but most of it is not of commercial quality.

The conclusions of the examiners are well supported.

I concur with the denial recommendation of the Field Team.

N. E. Nelson

N. E. Nelson

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

September 6, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint report of Examination, DMEA Docket 3895, (Beryllium), Raymond Hogan and Ray Burch, Santa Fe County, New Mexico

Enclosed are the original and three copies of the report pertaining to the above application.

We concur in the recommendation that the application be denied.

W. M. Traver

E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
9-16-55
(date)

DMEA
Date Rec'd.

SEP 2 1955

BUREAU OF MINES
Denver, Colorado

Region III

Building 20
Denver Federal Center
Denver 2, Colorado
August 31, 1955

Memorandum

TRANSMITTED

SEP 6 1955

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman and John F. Shaw

Subject: DMEA 3895 (Beryllium) Raymond Hogan and Ray Burch, Rockin Chair No. 2 Claim, Santa Fe County, New Mexico

Enclosed are the original and 8 copies of a joint engineering and geologic report by D. R. MacLaren, Geologist, Geological Survey, and W. D. McMillan, Mining Engineer, Bureau of Mines, covering docket DMEA 3895.

The application requested exploration assistance in the amount of $257,711.00 to explore the Rockin Chair No. 2 claim by 12,825 feet of diamond-core drilling.

A field examination was made on July 27, 1955, by W. D. McMillan and D. R. MacLaren. The examining team concluded that there was little possibility of making a significant discovery of beryllium, mica, or tantalite-columbite.

It is recommended that the application be denied.

for D R MacLaren
E. N. Harshman
Member Field Team

John F. Shaw
Supervising Mining Engineer

Enclosure

cc 8 ✓
E. N. Harshman
Sub
Chron

JFS:ph

Reviewed by
DMEA OPERATING COMMITTEE
9-16-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3895

Raymond Hogan and Ray Burch

Rockin Chair No. 2 Claim

Santa Fe County, New Mexico

Beryllium

Joint Engineering and Geologic Report

By

W. D. McMillan, Mining Engineer
Bureau of Mines

Donald R. MacLaren, Geologist
Geological Survey

August 30, 1955

Reviewed by
DMEA OPERATING COMMITTEE
9-16-55
(date)

DMEA 3895

RAYMOND HOGAN AND RAY BURCH
ROCKIN CHAIR NO. 2 CLAIM
SANTA FE COUNTY, NEW MEXICO

CONTENTS

Engineering report	Page
Introduction	1
Location, topography and physical features	2
Labor and living conditions	2
Ownership, history and production	3
Geology and description of deposits	3
Minable ore reserves	6
Present status	6
Exploration and development	6
Mining equipment and other facilities	6
Conclusions	6
Recommendations	6

ILLUSTRATIONS

Figure	Follows page
1. Location map, Rockin Chair Claim Group, Raymond Hogan and Ray Burch, Santa Fe County, New Mexico	2
2. Sketch showing part of a pegmatite dike on Rockin Chair No. 2 claim, Santa Fe County, New Mexico	3

DMEA 3895

RAYMOND HOGAN AND RAY BURCH
ROCKIN CHAIR NO. 2 CLAIM
SANTA FE COUNTY, NEW MEXICO

JOINT ENGINEERING AND GEOLOGIC REPORT

By W. D. McMillan and D. R. MacLaren

INTRODUCTION

Raymond Hogan and Ray Burch of Lubbock, Texas, applied to Defense Minerals Exploration Administration for assistance for exploration of 19 Rockin Chair claims for beryllium in Rio Arriba and Santa Fe Counties, New Mexico.

Their proposal was for 12,825 feet of diamond-core drilling in 75 holes and an unspecified number of pits and trenches at an estimated total cost of $257,711.00. Government participation at 75 percent would be $193,283.25.

An examination was made on July 27, 1955, by a DMEA Region III examining team consisting of W. D. McMillan of the Bureau of Mines and Donald R. MacLaren and W. R. Griffitts of the Geological Survey, accompanied by the owners, Raymond Hogan and Ray Burch of Lubbock, Texas, and John J. Moyer, another claim owner, of Santa Fe, New Mexico.

The formation in the area of the Rockin Chair group are pre-Cambrian schists and gneisses which have been intruded by granite and pegmatite. Although several pegmatites are reported within the limits of the claims, the discovery has been the Rockin Chair No. 2 claim. The production consists of 600 pounds of beryl produced by hand cobbing, 120 tons of pegmatite from an open cut 20 feet long, 8 feet

wide, and an average of 8 feet deep on the north side of a feldspar-quartz-mica dike. The core of this dike is exposed over a length of about 550 feet and a width of 50 to 75 feet, with a strike of N. 85° E. No dip determinations could be made.

In view of the very limited discovery work which indicated only 0.50 percent beryl, exploration with Government assistance is not justified.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The Rockin Chair claim group is located in sections 5 and 6, T. 20 N., R. 11 E., Santa Fe County, New Mexico; section 31, T. 21 N., R. 11 E., and sections 35 and 36, T. 21 N., R. 10 E., Rio Arriba County, New Mexico, as shown on figure 1. They are on Borrego Mesa at a mean elevation of 7,900 feet with a relief of 600 feet. The property can be reached by traveling over a Forest Service truck trail about 6 miles long northeast of Cordova. The trail can be travelled by cars throughout the year except during December, January and February.

The claims are covered with pines and native grasses.

The nearest market for beryl is at Arvada, Colorado. The ore would be transported by truck to Santa Fe, 44 miles and thence by rail for 474 miles.

LABOR AND LIVING CONDITIONS

There is an ample supply of Latin American and Indian labor at Cordova and Espanola, 6 and 30 miles respectively from the deposit.

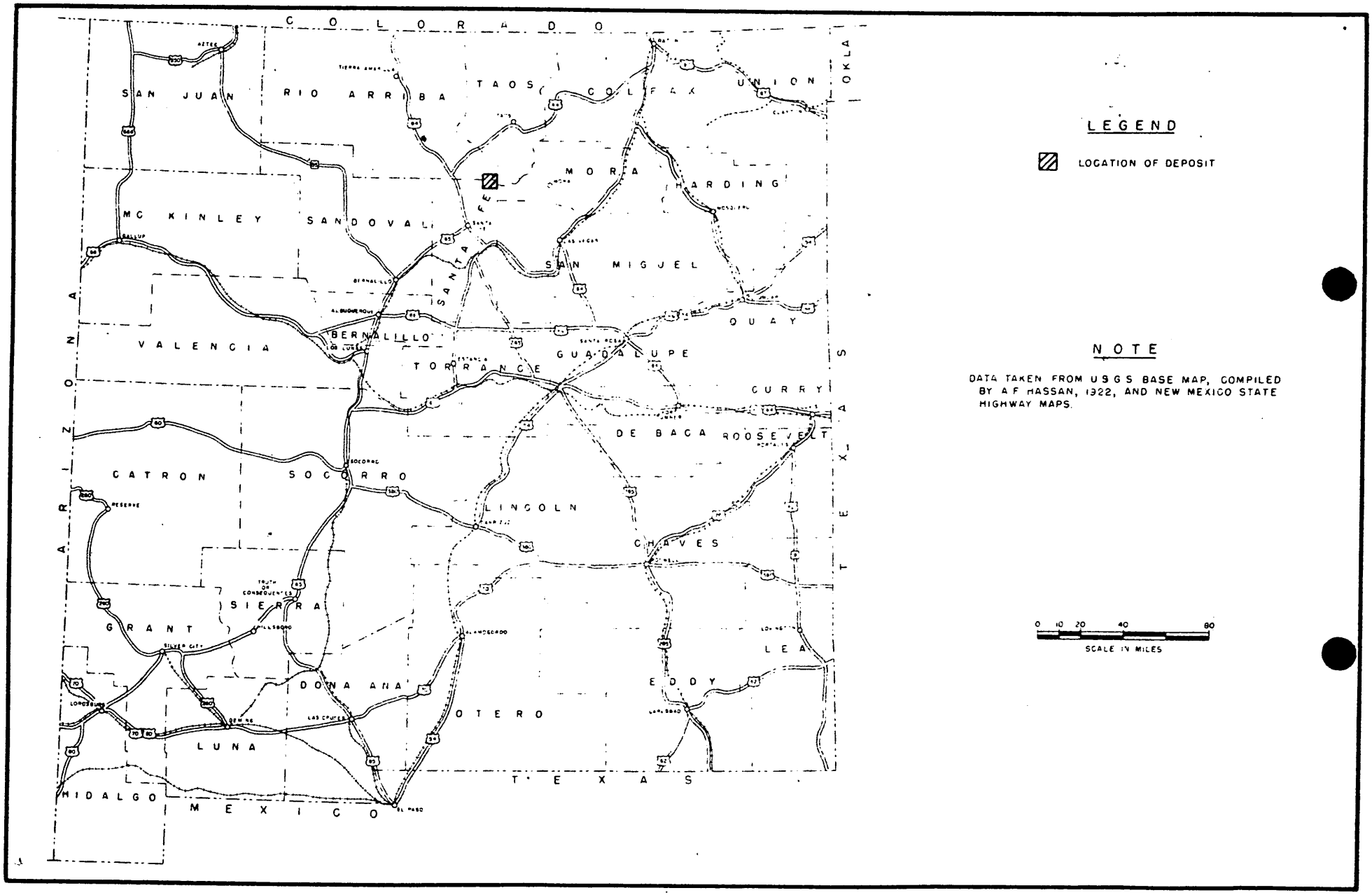


FIGURE 1 - LOCATION MAP, ROCKING CHAIR CLAIM GROUP, RAYMOND HOGAN AND RAY BURCH, SANTA FE COUNTY, NEW MEXICO.
DMEA 3895

The applicants have a trailer camp on a mesa 2 miles from Cordova. Living quarters are available at Cordova and Espanola.

OWNERSHIP, HISTORY AND PRODUCTION

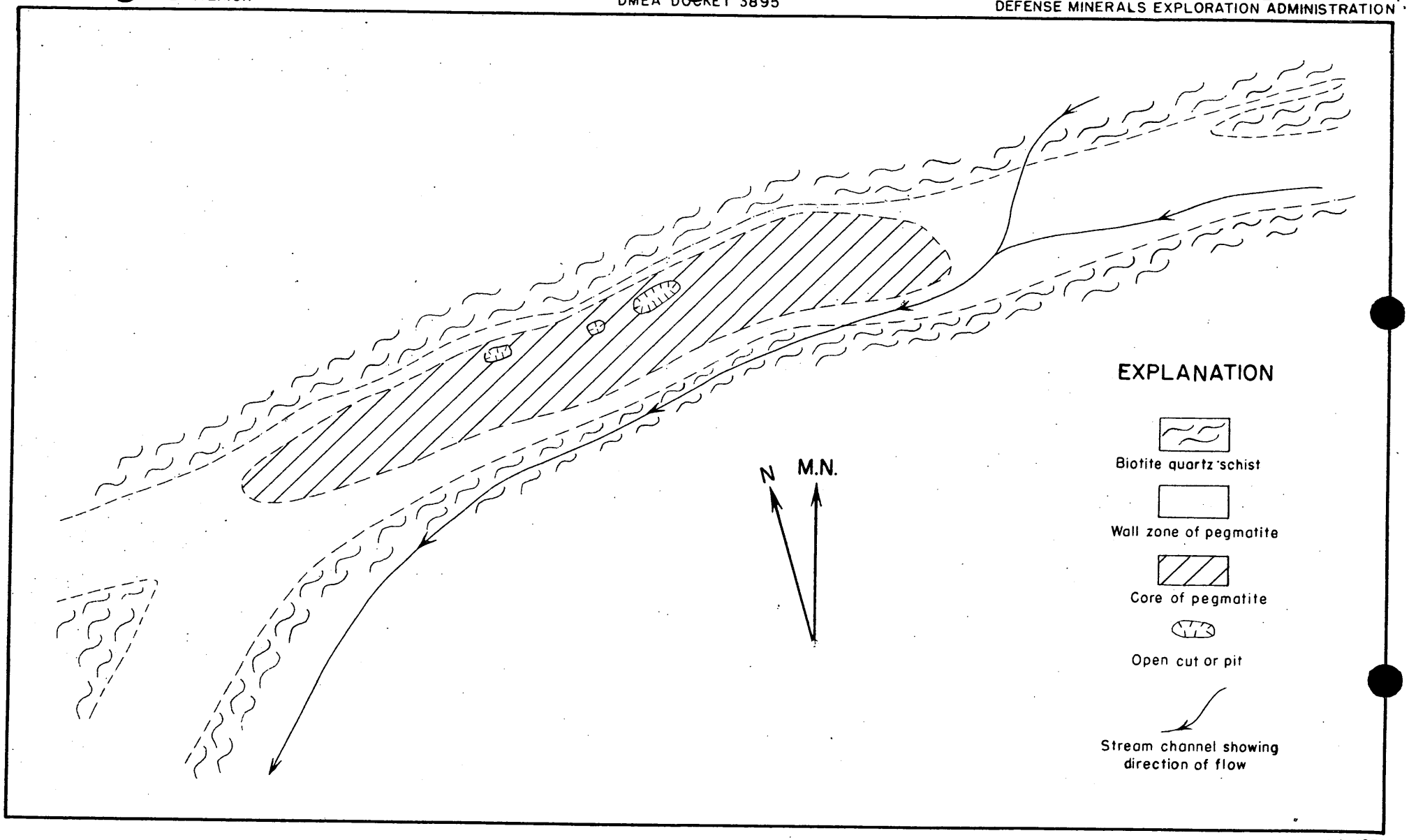
The Rockin Chair claim Nos. 1 and 2, subject of this application, were located by George Lopez and Silvianita T. Lopez, his wife; Fred Cordova and Lena O. Cordova, his wife; Ricardo Lopez and Benita R. Lopez, his wife; Eurjencio Lopez and Orlinda Lopez, his wife; Christobal Ortiz and Sabinita L. Ortiz, his wife; and Melaquias Romero, a single person, on April 19, 1955, and were recorded at the Santa Fe County courthouse on April 20, 1955, book 101, pages 488 and 489, certificate nos. 206, 560 and 206, 561.

On April 21, 1955, Raymond Hogan and Ray Burch executed a 90-day purchase from the locators for payments of $2,000.00 at the end of the 90-day period and another $3,000.00 six months thereafter. According to Hogan and Burch, the first payment has been made.

From May 1955 to the end of July 1955, the applicants had made a bulldozer cut the southwest side of the pegmatite dike near the northwestern end of the Rockin Chair No. 2 and had sunk several pits. At the bulldozer cut about 120 tons of rock was excavated. Hand sorting recovered about 600 pounds of beryl, 500 pounds having been shipped to the Government buying station at Custer, South Dakota.

GEOLOGY AND DESCRIPTION OF DEPOSITS

The rocks in the area of the Rockin Chair claims are schists and gneisses of pre-Cambrian age that have been intruded by granite



July, 1955

FIGURE 2.-SKETCH SHOWING PART OF A PEGMATITE DIKE ON ROCKING CHAIR NO. 2 CLAIM, SANTA FE COUNTY, NEW MEXICO

100 0 200 Feet

and pegmatite. Although several pegmatites are reported within the limits of the claims, on only one has there been any discovery of strategically important minerals. On Rockin Chair No. 2 claim there is a pegmatite that ranges in width from 80 feet to 100 feet and is over 1,000 feet long. It was traced for 900 feet along the outcrop (fig. 2) without reaching either end as shown on figure 2. The dike is fairly straight over most of the length examined, striking N. 85° E. However, near the southwestern end of the traced portion, the strike swings to S. 45° W. There appears to be a split in the dike at the point where the swing starts, as there is another mass of pegmatite that continues along the N. 85° E. strike. No dip determinations could be made. The dike is in a biotite-quartz schist that contains layers of gneissic biotite granite. Near the pegmatite the schist contains considerable muscovite.

Two distinguishable zones comprise the pegmatite. The outer or wall zone consists of approximately 30 percent quartz, 23 percent albite, 27 percent microcline perthite, and 8 percent muscovite. The mineral grains average about an inch across near the eastern end of the mapped portion and slightly larger near the western end. None of the minerals are coarse enough to be recoverable by hand cobbing, and no mineral of value other than muscovite and feldspar was identified. The core of the dike is exposed over a length of about 550 feet and a width of 50 to 75 feet. It consists of about 35 percent white quartz, 10 percent albite, 50 percent microcline perthite, and 5 percent muscovite. Quartz in the core forms irregular masses several feet across, some of the quartz masses being surrounded by

the platy cleavelandite variety of albite. Beryl appears to occur in either cleavelandite or in quartz.

At the time of the examination only three beryl crystals were found in place, two in quartz and one in cleavelandite. The largest crystal was in quartz and was about 3 inches in diameter. Larger crystals were found by the applicant two of which were seen at his camp. They are about 8 inches in diameter, and are the largest so far found.

There are three small pits in the dike from which it is estimated that about 100 tons of pegmatite have been taken. From this material it is estimated that about 500 pounds of beryl has been sorted and shipped. Settlement sheets were not available. On the basis of the 500-pound shipment and the beryl now stored at the camp and lying about on the pit dump, it is estimated that the rock moved contained about one-half percent beryl. The beryl content of the rock taken from the largest pit may have been slightly higher as it yielded most of the beryl recovered so far.

In the walls of the pits and at places along the outcrop of the pegmatite there are masses of muscovite. The mica books are all marked by "A" structure, but a moderate amount of sheet mica could probably be obtained from them. The recoverable sheet mica of all grades and qualities might be as much as 2 percent. Much of the sheet mica will contain mineral stains and only a small amount will be as large as No. 3 grade.

Only a few sand-sized grains of columbite were seen by the

examiners, and the applicants presented no evidence that more or larger grains had been found.

MINABLE ORE RESERVES

Ore exposures on the property consist mainly of quartz, feldspar, mica and scattered beryl. The core of this dike is partially exposed for a length of about 550 feet and a width of about 50 to 75 feet which would amount to 3,400 tons of dike rock per foot of depth. Exploration to date has been on less than 5 percent of the estimated tonnage per foot of depth.

PRESENT STATUS

Exploration and Development

To date development consists of an open cut and several pits.

Mining Equipment and Other Facilities

These consist of a portable LeRoi Compressor, 2 pneumatic drills, a D-7 bulldozer, a 1/2 ton Willis truck, a house trailer, and two tents.

CONCLUSIONS

Because of the very limited area in which beryl has been found, it is concluded that the chance of making a significant discovery of beryl, mica, or tantalite-columbite is poor.

RECOMMENDATIONS

The examining team recommends that the application should be denied without prejudice.

/ph

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

RECEIVED AUG - 1 1955

224 New Customhouse
Denver 2, Colorado

July 25, 1955

Memorandum

To: J. F. Shaw
E. N. Harshman

From: Field Team, Region III

Subject: Docket DMEA-3895 (Beryl-Mica), Ray Hogan and Ray Burch, Rocking Chair group of claims, Rio Arriba County, New Mexico

Enclosed is a copy of a letter from the Chairman of the Operating Committee regarding the subject application and also a review of the application by N. E. Nelson, USGS, and L. G. Kouk, Commodity Industry Analyst.

The brochure was forwarded to Mr. Shaw, July 19, 1955.

If the applicant's option to purchase is still in force, a field examination and suitable report are required.

W. M. TRAVER,

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

HMC:pw

cc: Subject
Chron
Sec.Op.Comm. (2)

Docket File
Surname:

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

JUL 20 1955

Messrs. Ray Hogan and Ray Burch
P. O. Box 42
Cordova, New Mexico

Re: Docket No. DMEA-3895 - Beryl-Mica
Ray Hogan and Ray Burch
Rocking Chair Group of Claims
Rio Arriba County, 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. J. M. Traver, Executive Officer, DMEA Field Team, Region III, 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 you may give the members of the Field Team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

JHopkins:pk 7/20/55
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region III
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Hopkins

Docket File
Surname:

Hopk
I. L. Kaven
Martin
J. Johnson

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

JUL 20 1955

Mr. W. H. Traver
Executive Officer, DMEA
Field Team, Region III
Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. DMEA-3895 - Beryl-Mica
Ray Hogan and Ray Burch
Rocking Chair Group of Claims
Rio Arriba County, New Mexico

Dear Mr. Traver:

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

Copies of memoranda from H. E. Nelson of the Geological Survey, dated July 15, 1955, and from Horace T. Reno of the Bureau of Mines, dated July 14, 1955, are enclosed for your information.

If a contract is recommended, please furnish the following: (a) Nine copies of a map showing the proposed work, beryl-mica pegmatite exposures and mining claims; (b) Six executed copies of Owner's Consent to Lien; (c) Bids from 3 contractors if independent drilling is proposed.

Before arranging for a field examination we suggest that you ascertain if the applicant's option to purchase is still in force.

Sincerely yours,

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

Approved:

/s/ Robert W. Geehan (SHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (SHB)
Member, Geological Survey

Enclosures 4

JHopkins:pk ~~7/19~~ 7/20/55
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk
Mr. Hopkins

R.C.S.

IN REPLY REFER TO:

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

RECEIVED
JUL 18 1955

July 15, 1955

Re: DMEA 3895
Ray Hogan & Ray Burch
Rockin Chair Group
Santa Fe & Rio Arriba
Counties, New Mexico
$257,711.50 - Beryl & Mica

Memorandum

To: L. G. Houk, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Application

This seems to be a raw prospect and the applicants may be over enthusiastic as to the possibilities.

Since beryl and mica are present in a large pegmatite an examination appears warranted.

I recommend referral to the Field Team for an appraisal. A program involving less supervision, etc., may be justified.

N. E. Nelson

N. E. Nelson

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

RECEIVED
JUL 1 5 1955

July 14, 1955

Memorandum

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

From: Commodity-Industry Analyst, Branch of Rare and Precious Metals

Subject: Application for Exploration Aid. DMEA Docket No. 3895 (beryl-mica)

It is recommended that subject application be referred to the Field Team for an examination of the property. The applicant's proposed program and estimated costs are not realistic, but the property may warrant exploration on a small scale.

Horace T. Reno

Horace T. Reno

Enclosure

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

RECEIVED
JUL 15 1955

July 14, 1955

Memorandum

To: [illegible] Hook, Chief, Division of Non-Metallic Minerals, [illegible]

From: Geologist-Mineralogy Analyst, Branch of Rare and Precious Metals

Subject: Application for Exploration Aid. [illegible] Docket No. 3895 (Emplemites)

It is recommended that subject application be referred to the Field Team for an examination of the property. The applicant's proposed program and estimated costs are not realistic, but the property has warrant exploration on a small scale.

Horace T. Reno

Enclosure

HTReno:jlmc

Copy to: Division of Minerals
[illegible] (3 copies)
Branch of Rare and Precious Metals
H. T. Reno
FILES

July 11, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

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 III.

DMEA-3895 Ray Hogan & Ray Burch

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

Kindom Uranium Corp.
323 Tulane Drive S.E.
Albuquerque, New Mexico

July 11, 1955
Subject: DMEA-3895
Re: Exploration Assistance

Gentlemen:

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

Your application has been assigned Docket Number DMEA-3895 and referred to the Nonmetallic Minerals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

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

RECEIVED
JUL 11 1955

224 New Customhouse
Denver 2, Colorado

July 7, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: (Mica-Beryllium), Application of Ray Hogan and Ray Burch, Partnership, (Rockin Chair claims), Santa Fe and Rio Arriba Counties, New Mexico

Enclosed are the original and two copies of the subject application in the amount of $257,711.50.

A review of the application indicates that the option will expire unless $2,000.00 is paid prior to July 20, 1955.

The original copy of the application has the signed copies of the Option Agreement and Partnership Agreement. Only one set of maps accompanied the application, and it is being retained in this office with one copy of the application.

W. M. Traver

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

JUL 5 1955

RECEIVED
JUL 11 1955
BUREAU OF MINES
Denver, Colorado

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. 3895
Metal or Mineral Beryl & Mica
Date Received 7-11-55
Estimated Cost $257,771.50
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: RAY HOGAN AND RAY BURCH (Parnership)

Address: P.O. Box 42, Cordova, New Mexico
(Send a copy of correspondences to: C/o Kindom Uranium Corp. 323 Tulane Drive S.E. Albuquerque, 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 mining claims located within Section 5 and 6 T-20N, R-11E, Santa Fe County, N.M., and Section 31, T-21 N, R-11E and Section 35 and Section 36, T-21N, R-10 in Rio Arriba County, New Mexico

(*b*) State any mine name by which the property is known. Rocking Chair Claim No. 1 to 19

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise The owners control 100% on 7 claims, namely: Rocking Chair No 13 to No 19-Other claims option to buy

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

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

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

(*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 and Mica (muscovite-film)

(*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 30 days and be completed within 10 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)? Yes

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

[x] Money [ ] Use of equipment owned by you [ ] Other Will also furnish their share cost by rendering their own time and labor

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 _____, 195__

Raymond Hogan
(Applicant)

By Ray Busch

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

GEO. L. DICKINSON
GEO. G. DICKINSON
ROBERT L. DICKINSON

DICKINSON LABORATORIES

ASSAYERS — CHEMISTS — METALLURGISTS
UMPIRES
P. O. BOX 1145 WATER ANALYSIS PHONE 2-9264
1300 WEST MAIN ST. EL PASO, TEXAS

DMEM Rec'd
JUL 5 1955
BUREAU OF MINES
Denver, Colorado

April 7, 1955.

Lab. No. 6398

CERTIFICATE OF ANALYSIS

TO Mr. Raymond Hogan,
Lubbock, Texas.

Sample of Ore Received April 5

Marked For Beryllium

	% Beryllium As Be	% Beryllium As BeO
Sample No. 1	4.57	12.66
" " $\frac{1}{00}$	0.15	0.26

Charges $16.00 Paid

Respectfully submitted,
DICKINSON LABORATORIES
Geo L Dickinson
Chemist

APPLICATION FOR AID WITH THE DMEA (Page 1)

1. Name of Applicant: Ray Hogan and Ray Burch (Parnership)

3 (f).-All the claims are unpatented land. The following claims are owned out-right by the applicants:

NAME OF CLAIMS	BOOK	PAGE	County	State
Rockin Chair No 13	109	192	Santa Fe	New Mexico
" " No 14	104	190	Santa Fe	" "
" " No 15	104	188	" "	" "
" " No 16	104	189	" "	" "
" " No 17	104	191	" "	" "
Rockin Chair No18	22	432	Rio Arriba	New Mexico
Rockin Chair No 19	22	432	Rio Arriba	New Mexico

The following twelve (12) mining claims are under option by the applicants: (Option agreement attached)

NAME OF CLAIMS	BOOK	PAGE	COUNTY	STATE
Rocking Chair No 1	101	488	Santa Fe	New Mexico
" " No 2	101	489	" "	" "
" " No 3	101	490	" "	" "
Rockin Chair No 4	101	491	" "	" "
Rockin Chair No 5	21	368	Rio Arriba	New Mexico
" " No 6	21	368	" "	" "
" " No 7	21	370 369	" "	" "
" " No 8	21	369	" "	" "
" " No 9	21	370	" "	" "
" " No 10	21	370	" "	" "
" " No 11	21	371	" "	" "
" " No 12	21	492	" "	" "

4 (d).- The property can be reached through the U.S. Highway 285 from Santa Fe, New Mexico to the town of Espanola, N.M., a distance of about 25 miles to the cut-off of the New Mexico Highway No 76 to the town of Cordova, N.M., a distance of about 14 miles, both of these highway are paved and from the town of Cordova through a dirt road of the National Forest for about 3 miles and then through an indian trail of about 2 miles to the mining claims of the Rockin Chair claim No 2.

Beryl ores can be shipped to the mill at Arvada, Colorado(Denver) by trucking it from the property to the Santa Fe Railroad Depot at Santa Fe, a distance of about 44 miles and from there to Arvada by rail a distance of about 474 miles more or less.

4 (e).- The manpower availability is plentiful and can be obtained from the Town of Cordova,a distance of about 5 miles from the property. Material and supply can be easily obtained from the Town of Espanola, a distance of about 30 miles from the property and from Santa Fe,N.M, a distance of 44 miles from the claims. There is plenty of water for drinking and mine operation from several mountain creek and from the Town of Cordova, a distance of about 5 miles, electric power also can be obtained from this town.

4. Physical description. The owners have been engaged during the past few days excavating several prospecting pits or trenches within the East half of Rockin Chair claim No. 2, where they recovered several hundred pounds of Beryl in form of large crystals, ranging from a few inches up to 14 inches in faces. Most of these Beryl crystals are found within massive or bodies-pegmatites.

There is not any working places or mining methods at the present.

There is not any production facility at the premises.

The applicant's are the sole owners of several mining claims where this pegmatite body seems to be outcropping at the surface. Some of the claims were on lease to the applicants and now they have a legal option.

The property can be reached through the US Highway No. 285 from Santa, Fe, New Mexico to Espanola, New Mexico a distance of about 25 miles to the cut-off of the N.M. Highway No. 76 to the town of Cordova, N. M. which is also a paved road and being about 14 miles, and from the town of Cordova through a National Forest dirt road for about 3 miles and then through an Indian trail of about 2 miles to the mining property of the Rockin Chair surface pit.

The general accessability to the Rockin Chair claims is rather fair and can be reached and examined at any time during the year except in December, January and February.

4.-b. There has not been any production of any Beryl in the past within the Rockin Chair claims, but some Beryl, mica, columbite and other rare earth minerals has been produced at Harding, N. M. located about 16 miles north from this claim.

There is not any current production at the Rockin Chair claims except for a small stockpile near the trenches excavated by the owner as a prospecting holes consisting of a 1000 pounds of Beryl crystal which range from 2% to 12.66% Beryl (as shown by the accompanying assay sheet).

4.-c. The Beryl crystal minerals found at the Rockin Chair claim seems to be located in a scattered vein type granite pegmatite which is associated with massive body of quartz veins. Most of the ore body appears to be several hundred feet long and about 40 to 60 feet wide in some places and extended almost NE and SW direction. Most of this ore body of pegmatite are in the form of dikes.

The other major mineral found within this claim, and especially where this exploratory pits are located show an abundance of high grade laminated mica in the form of Muscovite, brown and white in color, and close examination this mica seems to be rather pure.

Several crystals of Columbite and titanium and garnet are very commonly found within this area. Much traces of rare earth minerals are also found. Schists and Gneisses and other variety of Feldspar seems to be the main constituent of the pegmatite ore bodies.

The main reason for wishing to explore Beryl and Mica within the Rockin Chair claim is that both minerals are strategical and needed ~~near~~ ore for Defense Production. Another reason for exploring this area is that a favorable Beryl mineralization belt was deposited here and there is a possibility of finding a great source of Beryl minerals. Several miles north and south of this property some good deposits and indication of Beryl and mica are well known such as, the Pecos Belt and Harding Beryl Deposit Belt both almost in line with the Rockin Chair finding.

5.-b. After considerable studies and with present mining methods of recovering beryl and mica ore, the applicant proposed that a combination of core drilling and the digging of pits or trenches by recovering the crystals by hand-pick might be the most suitable method to explore and evaluate the Rockin Chair claims.

A core drilling program carry on throughout the several mining claims will prove the source and also any deposits of beryl or mica. Some of the core drill holes can be planned to be about 100 feet deep or less if necessary and perhaps the drill might be unable to drill but only a few feet deep in some places, if this is the case after the drill is moved to different location, this shallow hole can be loaded and blasted and pit or trenches operation can be started here.

It is proposed that perhaps two digging crew can follow or proceed at the time the core drill is moved in the area or place them several hundred feet apart digging pit by drilling with air-hammer and blasting and removing the broken rock by using a heavy bull-dozer, but the assorting and picking the beryl crystals or mica might be done almost all by hand. The pit will range from 5 to 10 feet in diameter to as much as 30 or 50 feet in diameter and 15 to 25 feet deep in order to expose virgin faces or whatever is needed or recommended by the Geologist or Mining Engineer supervising the exploration work.

In the case where core drill depth reached over 50 feet deep and the core cuttings sample show a slight mineralization of some merit in the mineralization then, the holes can be plugged back to about 25 feet deep and after loading and blasting a pit or trench digging operation might be advisable.

If the digging of trenches and pits by using the drilling hole prove to be a good source of beryl crystal, mica or other valuable mineral and since a hand-picking and assorting in a small amount while locating these veins some recovery and production will take place at the same time without a slowing down of the drilling program.

5.-d. Most of the Engineering, geological work, mining supervision and recommendation would be done by the Engineering Division of the Kindom Uranium Corporation of Albuquerque, New Mexico which will supervise at least for the first six months of the mining development and exploration work of the Rockin Chair property by having a well-experienced mining engineer or geologist at the property.

7. (a) Yes.- the applicants are prepared to furnish their 25% share of the cost by private capital or loan on production.

7. (b) The applicants will also furnish their share cost by render partly their own personally time and labor, if necessary.

2.50

A G R E E M E N T

THIS AGREEMENT, entered into this 21st day of April, 1955, by and between GEORGE LOPEZ and SILVIANITA T. LOPEZ, his wife; FRED CORDOVA and LENA O. CORDOVA, his wife; RICARDO LOPEZ and BENITA R. LOPEZ, his wife; EURJENCIO LOPEZ and ORLINDA LOPEZ, his wife; CRISTOBAL ORTIZ and SABINITA L. ORTIZ, his wife; and MELAQUIAS ROMERO, a single person, hereinafter called First Parties; and RAYMOND HOGAN and RAY BURCH, hereinafter called Second Parties,

WITNESSETH:

1. First Parties represent that they are the owners of the following described unpatented mining claims, located in northern Santa Fe County and southern Rio Arriba County, New Mexico, to-wit:

Mining Claims Rockin Chair Nos. 1, 2, 3, and 4, and 12; these claims are located in Sections 5 & 6, Twp. 20 N., Rge. 11 E., N.M.P.M., Santa Fe County, New Mexico.

Mining Claims Rockin Chair Nos. 5, 6, 7, 8 and 10, located in Section 31, Twp. 21 N., Rge. 11 E.

Mining Claims Rockin Chair No. 9, located in the NE$\frac{1}{4}$ NE$\frac{1}{4}$, Sec. 36, Twp. 21 N., Rge. 10 E., and Mining Claim No. 11, located partly in Section 36 and in Section 35, Twp 21 N., R. 10 E., N.M.P.M., Rio Arriba County, New Mexico.

2. Second Parties desire to examine, test, excavate, ~~[illegible]~~ cored drill and otherwise cause a complete examination of said property for minerals, to-wit: uranium, thorium, mica, berillium, and other valuable ores and First Parties have agreed to grant second parties an option upon said mining claims.

3. For and in consideration of One Dollar ($1.00) in hand paid by Second Parties to First Parties, the receipt of which is hereby confessed and acknowledged, the parties hereto agree as follows, to-wit:

(A) First Parties shall have a ninety (90) day option to examine and test said above described mining claims upon the payment by second parties to first parties of the sum of Six Hundred Dollars ($600.00), and the said sum shall be paid upon the execution of this Agreement.

(B) At the expiration of said ninety (90) day option, if Second Parties desire to continue to work and examine said mining claims,

Ray Burch
Cordova M.M.

Second Parties shall pay to First Parties the sum of Two Thousand Dollars ($2,000.00), and said payment of Two Thousand Dollars ($2,000.00) shall entitle Second Parties to examine, test and work said claims for a period of six (6) months from the date of the payment of said sum.

(C) At the expiration of said six (6) months period, said Second Parties shall have the option to pay an additional sum of Three Thousand Dollars ($3,000.00), with the understanding that upon the payment of this Three Thousand Dollars ($3,000.00), that the same shall constitute payment in full for all of the above described mining claims and First Parties bind themselves and agree that upon the said payment of the above Three Thousand Dollars that they will immediately execute an assignment in and to the above described mining claims to Second Parties. That is to say, the parties agree to purchase the mining claims above set out upon the payments as set forth in this Agreement and upon the final payment of Three Thousand Dollars being made, First Parties shall assign all of their right, title and interest in and to all of said above described mining claims to Second Parties.

4. It is agreed between the parties hereto that during the various periods covered by this option, that Second Parties shall have the right to concentrate and stock pile any ores or minerals which may be found,and sell or dispose of said ores at the option and wish of Second Parties and without the approval of First Parties.

5. Second Parties agree to cause all work to be done in compliance with the mining laws and regulations of the State of New Mexico and shall comply with all State and Federal Statutes.

6. Second Parties are granted the option to pay the entire amount, totalling Five Thousand Dollars ($5,000.00) at any time and upon Second Parties making said payment, First Parties shall grant an assignment to all of said mining claims and/or at the option of Second Parties grant a mineral lease in and to all of said claims.

7. These presents shall inure to the benefit and be binding upon the respective heirs, successors, administrators and assigns of the parties hereto.

IN WITNESS WHEREOF, this Agreement is executed on the day and year first above written.

George T Lopez
Silvianita T Lopez
GEORGE LOPEZ and SILVIANITA T. LOPEZ, his wife

Fred Cordova
Lena O. Cordova
FRED CORDOVA and LENA O. CORDOVA, his wife

Ricardo Lopez
Benita R. Lopez
RICARDO LOPEZ and BENITA R. LOPEZ, his wife

Eurgencio Lopez
Orlinda Lopez
EURJENCIO LOPEZ and ORLINDA LOPEZ, his wife

Cristobal H. Ortiz
Sabinita L. Ortiz
CRISTOBAL ORTIZ and SABINITA L. ORTIZ, his wife

Melaquias Romero
MELAQUIAS ROMERO, a single person

FIRST PARTIES

Raymond Hogan
RAYMOND HOGAN

Ray Burch
RAY BURCH

Second Parties

STATE OF NEW MEXICO
COUNTY OF SANTA FE
No. 206821
I hereby certify that this instrument was filed for record on the 25 day of May A. D., 1955 at 9:30 o'clock A M. and was duly recorded in book 102 of the records of page 243
Witness my hand and Seal of Office
RAMON VALENCIA
County Clerk, Santa Fe Co., N. M.
Eloisa Conzales
Deputy

STATE OF NEW MEXICO)
) ss.
COUNTY OF Rio Arriba)

On this 21 day of April, 1955, before me personally appeared George Lopez and Silvianita T. Lopez, his wife, Fred Cordova and Lena O. Cordova, his wife; Ricardo Lopez and Benita R. Lopez, his wife; Eurjencio Lopez and Orlinda Lopez, his wife; Cristobal Ortiz and Sabinita L. Ortiz, his wife, and Melaquias Romero, a single person; and Raymond Hogan and Ray Burch, to me known to be the persons described in and who executed the foregoing Agreement, and acknowledged for himself that he or she executed the same as his or her own free act and deed.

IN WITNESS WHEREOF, I have herunto set my hand and seal the day and year first above written.

Manuel Martinez
Notary Public

My Commission Expires: 2/14/57

ESTIMATE OF COSTS

a. Independent Contract:

The applicant intends to contract the drilling of the property according to the estimate of cost below.

b. Labor, Supervision, Consultant: (Estimate of costs based on a 10 months period.)
Management -

1 General Manager at $900.00 a month - based on a 10 mos period....	$ 9,000.00
Expenses for General Mgr. at $200.00 a month for " " "	2,000.00
1-Superintendent at $ 850.00 a month based on a 10 mos period	8,500.00
Expenses for Supt at $ 200.00 " " " " " " "	2,000.00
1-Mine Foreman at $ 500.00 " " " " "	5,000.00
Expenses for Mine-Foreman a $ 50.00 a mos " " " "	500.00
1-Maintenance Man at $ 400. a month based " " " "	4,000.00
Expenses " " " $ 50.00 " " " " " " "	500.00
Geological Consultants and Mining Consultants at location based On 10 months period at consultant mining rate	9,000.00
Expenses for consultants and other engineering expenses	2,000.00
Total Labor & Superv.	$ 42,500.00

c. Operating Materials and Supplies: (Estimated on 10 months period)
Fuel:

Diesel for D-7 Bulldozer	2,100.00
Gasoline for all vehicles	2,900.00
Oil " " "	990.00
Grease " " "	650.00
Tires " " "	1,800.00
Repair " " "	1,250.00
Maintenance " "	640.00
Maintenance for Bulldozer	960.00
Miscellaneous material	840.00
Total Operating Materials	$ 12,130.00

d. Operating Equipment (all new equipment, except as specified)

1-Air Compressor	2,500.00
1-Light Plant	1,200.00
1- D-7 Bulldozer (Good used)	21,000.00
2-Air Hammers-45#	1,000.00
1-200 Ft. Air hose for air hammer and air compressor	800.00
2-drill shafts	180.00
1-Pick-up jeep	2,700.00
1-Field automobile	2,200.00
1- 1/2 ton Pick-up truck	1,500.00
1- 2-ton truck (For water hauling)	2,100.00
1-Brunton Compass	44.00
1-Hand level	13,50
1-150 Ft. steel tape	27.50
2-Grease guns	52.00
1-Typewriter	165.00
1-Office Desk and 3 chairs	245.00
1-Steel cabinet	115.00
1-500 gal water tank for storage (including moving to location)	450.00
1-50 barrel water tank for water truck	250.00
1-250 gal gasoline tank for storage	375.00
1-500 gal diesel tank for storage	450.00
1-Set of Cobalt drilling bits	1,875.00
2-Set wrenches and tools for equipment and bulldozer	700.00
1-Welding machine with light plant attachment	672.00
Total Operating Equipment	$ 40,614.00

ESTIMATE OF COSTS (Page 2)

E. Rehabilitation and Repairs:

1-Pick-up Jeep to be used in the project owned by applicants	$ 200.00
1-small air compressor for stand-by " " "	180.00

F. New Buildings, improvements, installation:

1-Tool house to be built at the mine	650.00
1-Bunk-house for miners-4 persons	1,200.00
Electric installation and others	160.00
Total Rehabilitation and Repars and New Buildings.	$ 2,390.00

G. Miscellaneous:

1-part time bookeeper at $ 40/ per/mo for 10 mo period	$ 400.00
Employers Liabilities-insurance	1,100.00
Workman's Compensation for 10 month period	900.00
Insurance for Equipment " " " "	1,200.00
Payroll-Taxes Fed- State " " "	1,400.00
Automobiles insurances	650.00
Legal Fee and recordings	450.00
Licenses for Equipment	310.00
For Surveying mining claims	1,100.00
For drafting and additional mapping fees	450.00
For Assaying and sampling ore	250.00
Stenographic services at $ 200.oo per mo for 10 mo period	2,000.00
State Tax and School tax and others	450.00
For other technical advice and engineering work	500.00
Miscellaneous for labor and supervision	600.00
Miscellaneous for Operating Equipment	550.00
Miscellaneous for Rehabilitation and improvement	350.00
Total Miscellaneous	$ 12,660.00

H. Contigencies:

For repairs and broken parts on bulldozer and other heavy equipment to be audited on completation of project	5,100.00
Total Contigencies	$ 5,100.00

H(a) Contigencies(other than above)

For clean-up, pit building and leveling core-hole location for rotary or cable tool rig. For 171 location @$50.oo per/loc.	8,550.00

ESTIMATED COST FOR CORE*DRILLING
(To be performed by directly sub-contract)

J.-To drill and core-testing 9-holes per claim for 19 claims averaging 75 Ft. per holes..... 171 holes

171-holes averaging 75 Ft. per holes..... 12,825 Feet drilling
Coring about 15 Ft.(average) per hole 2,565.00 Ft. of coring
Totals: 2,565 Ft. of coring and 10,260 Ft. straight drilling.

2,565 Ft coring at $ 7.50 per foot	$ 19,237.50
10,260 Ft. of drilling at $ 5.50 per foot	56,430.00
For moving large rig to location From Farming.	2,300.00
Total cost drilling Operat.	$ 77,967.50

Total cost to core-drill and drill above footages under contract with a realiable drilling firm ..... $ 77,967.50

K. Cost for digging pits or trenches: (Cost by using above specify equipment and Estmated and performed by applicants)
For digging pits or trenches with air hammer-holes loading , clean faces and removal of waste under contract or sub-contract as follows:

Pits or Trenches 6 Ft long, 5 Ft. wide and 5 Ft. deep
=150 square feet per pit or trench
=To dig 7 pits or trenches per claim on 19 claims
Total 124 pits averaging 150 sq/ft per pit= 18,600 sq/ft
18,600 sq/ft to dig at $ 3.00 per square foot= $ 55,800.00

Total contract or sub contract: 124 pits or trenches for a total of 18,600 sq/ft..... $ 55,800.00

TOTAL COST PROJECT
TOTAL ESTIMATED FOR ENTIRE PROJECT: $ 257,711.50

PARTNERSHIP AGREEMENT

We, the undersigned, being desirous of forming a limited partnership, pursuant to the laws of the State of New Mexico, and being severally duly sworn, do hereby certify:

1. That the name of the partnership is: Burch-Hogan Exploration Company.

2. That the character of the business of the partnership is to carry on and conduct the business of locating, leasing, buying, selling, exchanging, working and otherwise operating mines and mining property and the products thereof, and of erecting, buying, selling, leasing and operating mills and milling plants, smelters and smelting plants and reduction and refining works and plants, hoisting works and machinery and means of transportation for the reduction of ores and mineral containing gold, silver, uranium, thorium, copper, lead and other metals and minerals; and for the purposes aforesaid to buy, lease, own, erect, operate, construct, and maintain pipe lines, reservoirs, water works, electric pole lines and electric plants and works for the transmission of power and electric energy, and to that end to own, purchase, have and hold the necessary land, property and premises, and generally to carry on and conduct the general business of mining, milling and reducing and refining ores, minerals, metals and bullion.

3. The location of the principal place of business is: Cordova, New Mexico, Box 42.

4. That the name and place of residence of each member, general and limited partners being respectively designated, are as follows:

Limited Partners

Ray Burch, Lubbock, Texas

Raymond Hogan, Lubbock, Texas.

5. That the term for which the partnership is to exist is twenty-five (25) years.

6. That the amount of cash and a description of and the agreed avalue of the other property contributed by each limited partner are as follows:

Ray Burch contributed the sum of Twenty-Five Hundred Dollars ($2500.00) in cash.

Raymond Hogan contributed the sum of Twenty-Five Hundred Dollars ($2500.00) in cash.

DAVID CHAVEZ, JR.
ATTORNEY AT LAW
PLAZA BUILDING
SANTA FE, NEW MEXICO
DIAL 3-6751

Said funds having been expended in locating the following mining claims in Santa Fe County and Rio Arriba County, New Mexico, to-wit: Rockin' Chair Nos. 1-19 inclusive, mining claims No. 13-17 inclusive, being situate in Santa Fe County and mining claims Nos. 18 and 19 being located in Rio Arriba County, New Mexico; that the partnership has entered into a contract to purchase mining claims Nos. 1-12 inclusive from a group in Cordova, New Mexico, represented by Fred Cordova and George Lopez. The mining claims under this contract, Rockin' Chair Nos. 1, 2, 3, 4 and 12, are situate in Santa Fe County, New Mexico and mining claims Rockin' Chair Nos. 5-11 inclusive are located in Rio Arriba County, New Mexico.

That the partnership has purchased and contributes the following physical assets, to-wit: One trailer of the value of Three Hundred ($300) Dollars; tools of the value of One Hundred ($100) Dollars; air compressor of the value of Two Hundred ($200) Dollars; jeep of the value of Three Hundred Fifty ($350) Dollars; Geiger counter of the value of One Hundred ($100) Dollars; Scintilator of the value of Four Hundred Seventy-Five ($475) Dollars; Total: One Thousand, Five Hundred Twenty-Five ($1,525.00) Dollars, and which sum was contributed equally by each partner; that themining claims located by the partnership and the mining claims which are under contract of purchase by the partnership, have an undetermined value, although highly prospective.

7. The additional contributions, agreed to be made by each limited partner and the time at which they shall be made are as follows:

Ray Burch has agreed to contribute the further sum of Three Thousand Dollars ($3,000.00) in money on thirty (30) days written notice, and Raymond Hogan has agreed to contribute the further sum of Three Thousand Dollars ($3,000.00) in money on thirty (30) days written notice; said contributions to be made by the partnership if and when said sums are necessary and required and Ray Burch and Raymond Hogan agree to open a bank account in the City of Santa Fe, New Mexico and deposit to said partnership a reasonable sum of money to be agreed upon by the parties within thirty (30) days, said amount to be not in excess of Three Thousand Dollars ($3,000.00) each; each partner agrees, however, that whatever amount of sums are necessary in the partnership business shall be contributed equally by each partner.

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SANTA FE, NEW MEXICO
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8. The time when the contribution of each limited partner is to be returned is agreed to be the end of said partnership as above stated, to-wit: July _____, 1980.

9. The share of the profits or the other compensation by way of income which each limited partner shall receive by reason of his contributions, is as follows: Neither partner shall be entitled to any profit or compensation unless and until some of the properties of the partnership have been sold or financial arrangements have been made for the development of the property of the partnership.

10. It is further agreed that each of the aforesaid limited partners shall be given a right to substitute an assignee as contributor in his place and on such substitution, the assignee shall be bound to all the terms and conditions of the aforesaid limited partnership,as herein set forth.

11. It is further agreed that there shall be no priority of said limited partners over other limited partners as to contributions or as to compensation by way of income.

12. It is further agreed that at the death, retirement or insanity of one or more of the limited partners, the remaining limited partner shall at his option have the right to continue the business of said partnership, provided that reasonable compensation is made to the heirs, administrators and assigns of deceased partner.

13. It is further agreed that none of the limited partners as hereinabove set forth shall have any right to demand and receive property other than cash in return for his contribution.

14. It is further agreed that the division of all profits made by the partnership and the sharing of all losses shall be made in the manner to be decided by the partnership.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals this 30 day of June, 1955.

Ray Burch
RAY BURCH

Raymond Hogan
RAYMOND HOGAN

Limited Partners

DAVID CHAVEZ, JR.
ATTORNEY AT LAW
PLAZA BUILDING
SANTA FE, NEW MEXICO
DIAL 3-6751

STATE OF NEW MEXICO)
) ss.
COUNTY OF SANTA FE)

On this 30 day of June, 1955, before me personally appeared Ray Burch and Raymond Hogan, to me known to be the persons described in and who executed the foregoing Partnership Agreement, and acknowledged that they executed the same as their free act and deed.

WITNESS my hand and seal the day and year last above written.

L D Sandoval
Notary Public

My Commission Expires:
Nov 16-1955

DAVID CHAVEZ, JR.
ATTORNEY AT LAW
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