File Copy
Surname
Griswold
Gerken
Kiilsgaard
Selfridge

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

NOV - 4 1955

Mr. George Nair
George Nair & Ward Nair,
Partnership
Granby Star Route
Granby, Colorado

Re: Docket No. DMEA-3467 (Copper)
George Nair & Ward Nair, partnership
Ruth Claims
Grand County, Colorado

Dear Mr. Nair:

Your application for aid for an exploration project and other reports available to us in Washington concerning your claims have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting a small amount of copper mineralization on your property, 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.

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

WRGriswold/er 11/3/55
Copy to: Docket
Admr File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Region III (2)
Chron.

Sincerely yours,

Frank E. Johnson
ACTING Administrator

R.C.L.

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

November 3, 1955

Memorandum

To: The Administrator

From: Chief, Base Metals Division

Subject: Denial of Application on Docket No. DMEA-3467, George Nair and Ward Nair, partnership, Ruth Claims, Grand County, Colorado.

The application covers a group of 57 claims in Grand County, Colorado, in the high rugged country just south of the Rocky Mountain National Park boundary.

The outlined project was ambitious, about 12 miles of access road over wild country, with also some 4500 feet of crosscut and drift and a 400-foot shaft. The whole project was set up on the occurrence of a little copper stain and a few specks of chalcopyrite in a couple of small pegmatite dikes. Literally nothing of the faintest significance is visible and we regret that the field engineers had to take such an arduous trip on such a wild goose chase. There is no possibility of anything but a denial.

W. R. Griswold

File Copy

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

500

November 3, 1955

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W. R. Griswold

W. R. Griswold

WRG/er
Copy to: Docket
Base Metals
Chron.

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

RECEIVED
NOV - 2 1955

November 1, 1955

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: J. W. Pennington, Branch of Base Metals

Subject: Field Team Examination Report, DMEA Docket No. 3467, Copper, Ruth group of claims, Grand County, Colorado George Nair and Ward Nair, Report dated October 14, 1955 Report received October 24, 1955, estimated cost of project $297,500

The applicant proposed to explore the Ruth claims by a 3000-foot adit, a 1000-foot drift, and a 400-foot shaft and a 500-foot drift. An access road estimated to cost $100,000 was also included. The total estimated cost of the project was $297,500.

Examination of the Ruth claims by J. E. O'Rourke, Geological Survey and C. M. Harrer, Bureau of Mines, revealed that the only known deposits of copper are very small, low-grade and unlikely ever to be of economic importance.

The examiners recommended that George and Ward Nair's application for exploration assistance totaling $297,500 be denied.

I concur with their recommendation.

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals
Thor Kiilsgaard, U.S.G.S.
J. W. Pennington
F i l e s

RECEIVED
NOV - 2 1955

November 1, 1955

Memorandum

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Copy to: Division of Minerals
Branch of Base Metals
Thor Kiilsgaard, U.S.G.S.
J. W. Pennington
F i l e s

IN REPLY REFER TO:

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

RECEIVED
OCT 26 1955

October 25, 1955

Griswold

Re: DMEA 3467
George and Ward Nair
Ruth Group
Grand County, Colorado
$297,500.00 - Copper

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

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

Subject: Review of Field Team Report.

The application concerned a large group of claims in a difficultly accessible location. The overly ambitious project would consist of:--

Road work	$100,000.00
Adit, 3,000 feet) Crosscut, 1,000 feet)	140,000.00
Shaft, 400 feet) Drift, 500 feet)	57,500.00
	$297,500.00

In support of the application two assay certificates were furnished. One showed 0.78% copper, the other 0.64% copper and 3.42% fluorine.

The examiners found that chalcopyrite and fluorite occur in pegmatite in granitic gneiss along with pyrite and crystalline hematite. The copper deposits seen are very small, low grade and inaccessible and unlikely to be of economic importance. Work done by the applicants consists of two open cuts on two small pegmatites.

Three samples taken by the examiners returned:--

H-792, 0.4 feet	0.29% copper
H-793, 1.9 feet	0.03% copper
H-794, 7.0 feet	0.34% copper

In view of the meager showings the examiners and the Field Team recommend that the application be denied.

I concur with their recommendations.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
OCT 26 1955

October 25, 1955

Re: DMEA 3467
George and Ward Hair
Ruth Group
Grand County, Colorado
$297,500.00 - Copper

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

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

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Three samples taken by the examiners returned:--

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M-793, 1.9 feet	0.03% copper
M-794, 7.0 feet	0.34% copper

In view of the meager showings the examiners and the Field Team recommend that the application be denied.

I concur with their recommendations.

M. E. Nelson

M. E. Nelson

MENelson:iml
G-10/25/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
H. M. Meyer, 3623

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

RECEIVED OCT 2 0 1955

October 14, 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 3467 (Copper), George Nair and Ward Nair, Ruth group of claims, Grand County, Colorado

Enclosed are the original and three copies of the report pertaining to the above application. The examiners conclude that the proposed exploration would not result in the discovery of significant reserves of copper ore, and they therefore recommend that the application be denied.

We concur with this recommendation.

W. M. Traver

By J. W. Townsend
J. W. Townsend

E. N. Harshman
E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
10-24-55
(date)

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 13 1955
BUREAU OF MINES
Denver, Colorado

October 11, 1955

TRANSMITTED
OCT 14 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman
John F. Shaw

Subject: DMEA Docket 3467 (Copper), George Nair and Ward Nair, Ruth group of claims, Grand County, Colorado

Enclosed are the original and eight copies of a joint engineering and geologic report by J. E. O'Rourke, U. S. Geological Survey, and C. M. Harrer, U. S. Bureau of Mines, covering their examination of the subject property.

The applicant proposed to explore the claims by a 3000-foot adit and 1,000 feet of drifting on the Ruth Nos. 1, 5, 7, 8 and 9 claims, and a 400-foot shaft and 500 feet of drifting on the Ruth Nos. 16 and 17 claims. The cost of an access road was estimated at $100,000.00, and the total estimated cost of the project was $297,500.

The examiners conclude that the known copper deposits on the claims are very small and low grade and that the proposed work will not result in a significant discovery. They recommend denial of the application for exploration assistance.

We concur with this recommendation.

E. N. Harshman
E. N. Harshman
Member, Field Team

John F. Shaw
John F. Shaw
Supervising Mining Engineer

Enclosures (9)

ENHarshman:arh

Reviewed by
DMEA OPERATING COMMITTEE
10-24-55
(Date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

JOINT REPORT OF EXAMINATION BY EXAMINING TEAM

REGION III

DMEA 3467

George Nair and Ward Nair

Ruth Group of Claims

Grand County, Colorado

Copper

Joint Engineering and Geologic Report

By

J. E. O'Rourke, Geologist
Geological Survey

C. M. Harrer, Mining Engineer
Bureau of Mines

October 14, 1955

Reviewed by
DMEA OPERATIONAL [illegible]
10-24-55

DMEA 3467

GEORGE NAIR AND WARD NAIR
RUTH GROUP OF CLAIMS
GRAND COUNTY, COLORADO

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Joint engineering and geologic report — Page

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Present status 5
    Exploration and development 5
    Mining, milling and other facilities 5
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ILLUSTRATIONS

Figure — Follows page

1. Location map, George and Ward Nair, Ruth group of claims, Grand County, Colorado 2
2. Claims and exploration map, Ruth group of claims, Grand County, Colorado 2
3. Map showing location of Ruth prospect, Grand County, Colorado 2

DMEA 3467

GEORGE NAIR AND WARD NAIR
RUTH GROUP OF CLAIMS
GRAND COUNTY, COLORADO

SUMMARY

George and Ward Nair, brothers, have applied for Defense Minerals Exploration Administration assistance to explore their Ruth group of unpatented mineral locations for copper ore. They own the Ruth claims 1 to 57 by right of location. The claims comprise 1,178 acres in secs. 5, 6, 7, 8 and 9, T. 2 N., R. 74 W., just south of Rocky Mountain National Park, at altitudes ranging between 10,500 to 12,500 feet above sea level. The claims are in very rough terrain and accessible over narrow and tortuous pack trails.

They propose to construct an access road for $100,000.00; drive a 3,000-foot adit on a hypothetical vein and drive 1,000 feet of crosscut therefrom, all at a cost of $140,000.00; and sink a 400-foot shaft on an additional vein and drift 500 feet therefrom at a cost of $57,500.00. Total cost of the project was estimated at $297,500.00.

Ore deposits on the Ruth claims are found in pegmatites in granitic gneiss. Chalcopyrite, malachite, pyrite, fluorite and crystalline hematite are concentrated in the walls of shear zones and in brecciated parts of the dikes.

Not all the pegmatites in the area are mineralized, nor are all the fractured zones.

The only known deposits of copper ore are very small, low-grade, and inaccessible. They are unlikely ever to be of economic importance.

It is recommended that George and Ward Nair's application for exploration assistance totaling $297,500.00 be denied.

INTRODUCTION

George Nair and Ward Nair of Granby, Colorado, own a contiguous group of 57 unpatented lode claims which they wish to explore for copper. They have applied for Defense Minerals Exploration Administration assistance to explore their claims with a program of underground exploration at an estimated cost of $297,500.00.

The applicants claims were examined by a joint Bureau of Mines and Geological Survey team on August 16-17, 1955, accompanied by George Nair, one of the partners. The property is difficultly accessible with horses.

ACKNOWLEDGMENTS

George Nair, one of the partners, served as guide during the examination and contributed his knowledge of the property. The team was accompanied by J. F. Abel, Bureau of Mines engineering aide.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Ruth group of 57 unpatented mineral lode locations forms a contiguous group in approximate sections 5, 6, 7, 8 and 9, T. 2 N., R. 74 W., 6th principal meridian, in Grand County, Colorado, figures 1, 2 and 3. The property lies between the headwaters of Roaring Fork and Hell Canyon creeks at altitudes ranging between 10,500 to 12,500 feet above sea-level. The claims are in very rough and steep terrain and are difficultly accessible over narrow, rocky and tortuous horse trails. Supplies and labor would have to be trucked in from Granby, Colorado, to the Roaring Fork ranger station at the east end of the Granby reservior (about 15 miles) and then transported by pack horses

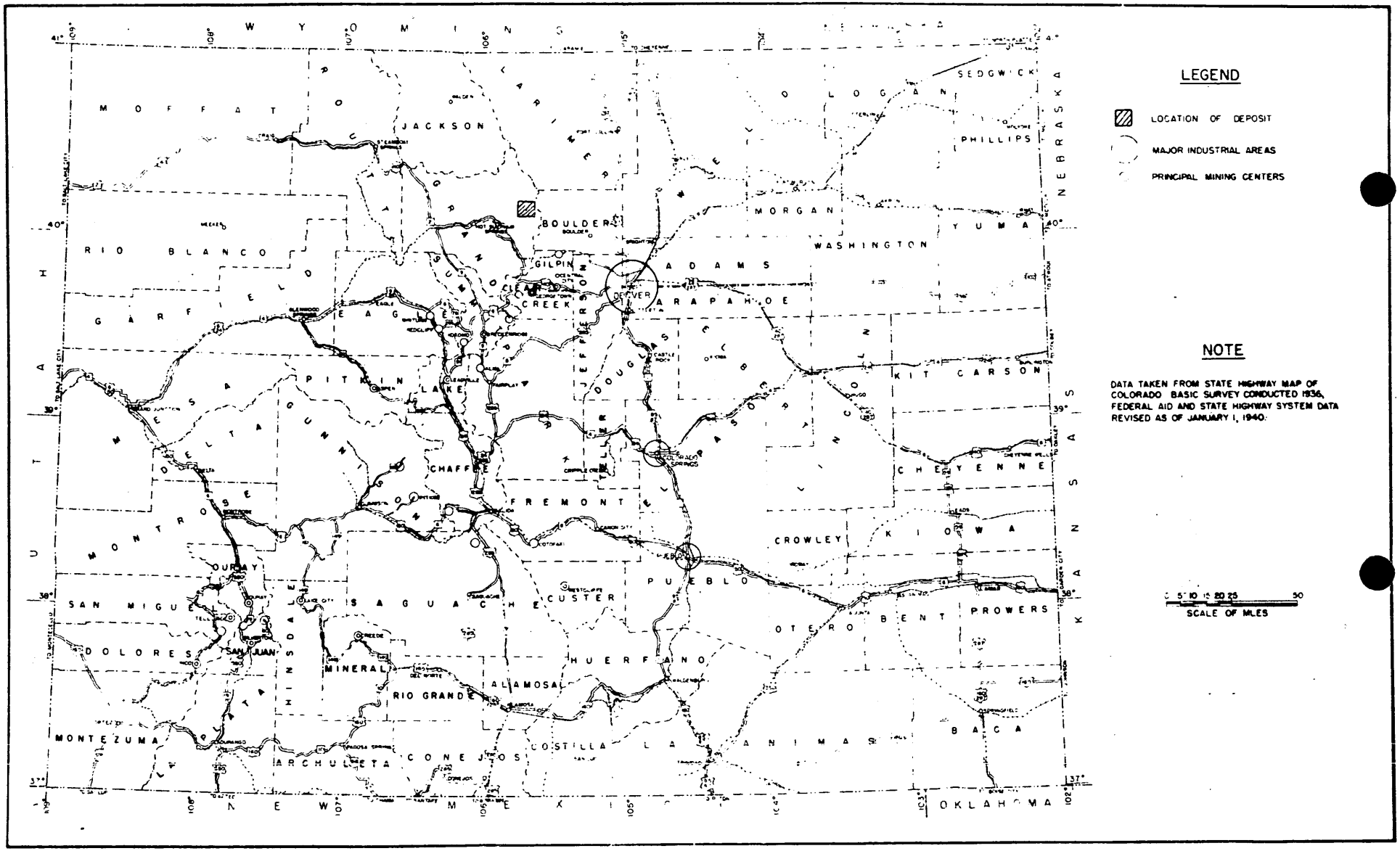
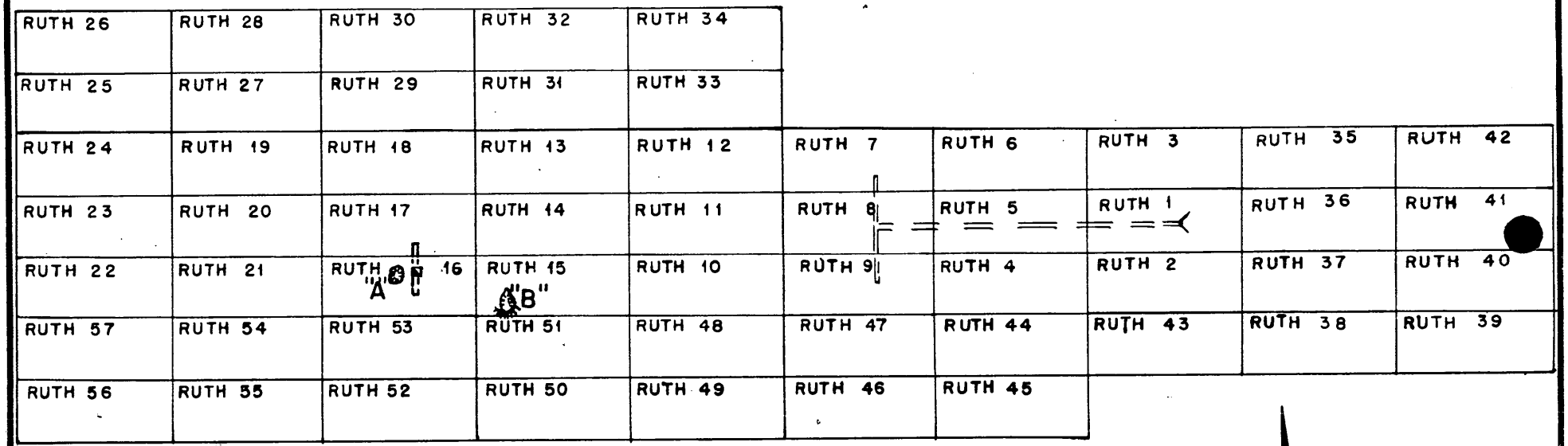


FIGURE 1 - LOCATION MAP, GEORGE AND WARD NAIR, RUTH GROUP OF CLAIMS, GRAND COUNTY, COLO. DMEA 3467



LEGEND:

- Proposed Shaft
- Proposed Underground Workings

"A" 5'x7'x7' Pit on Pegmatite (Location of Samples H-792 and H-793)

"B" 6'x10'x15' Cut on Pegmatite (Location of Sample H-794)

SCALE: 1" = 1,500'

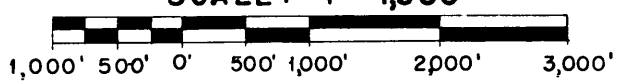


FIGURE 2 — CLAIM AND EXPLORATION MAP, RUTH GROUP OF CLAIMS, GRAND COUNTY, COLORADO, (D.M.E.A. 3467)

DEPARTMENT OF THE INTERIOR

EXAMINATION REPORT
DMEA 3467

PREPARED FOR DEFENSE
MINERALS EXPLORATION ADMINISTRATION

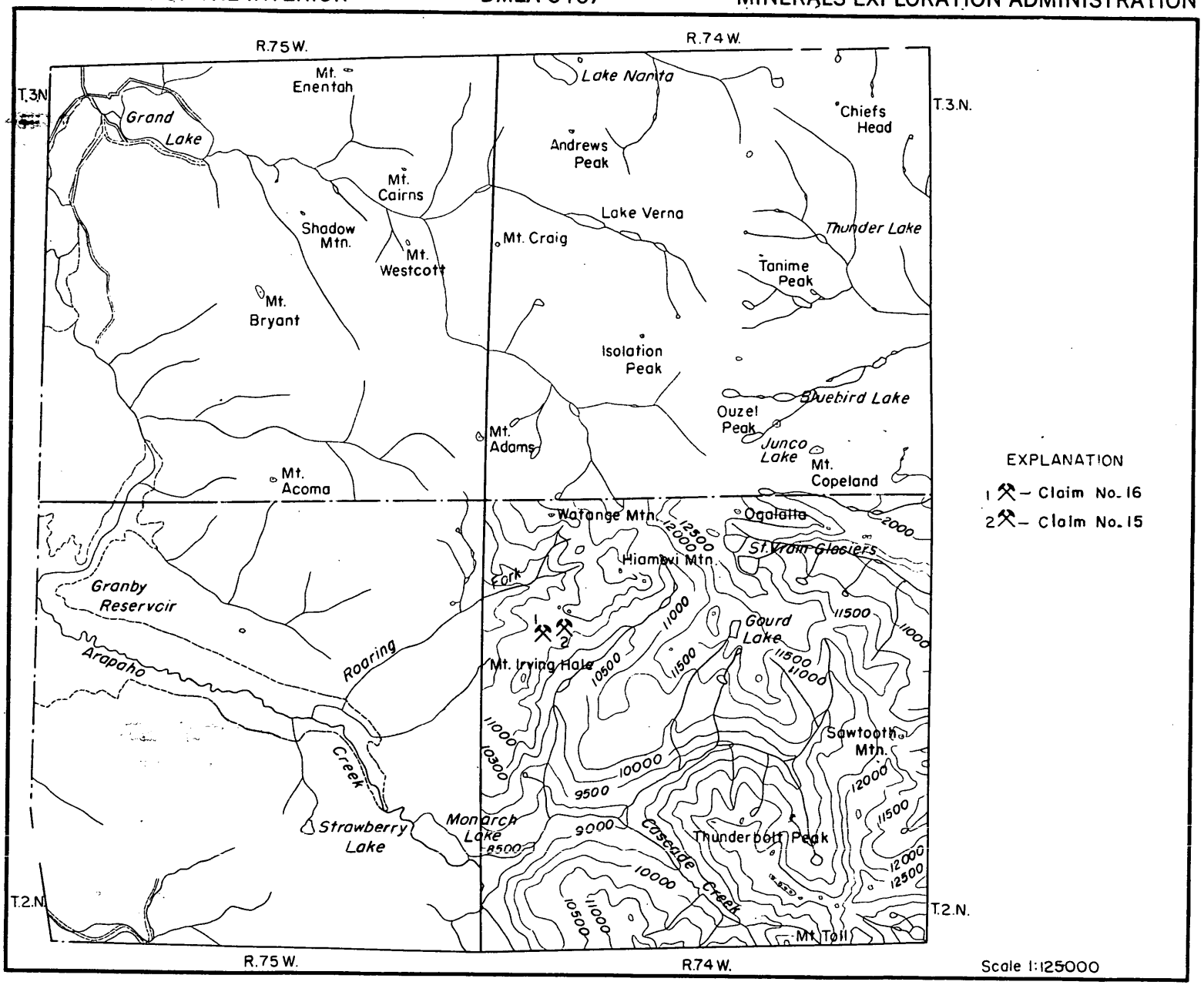


FIG. 3 – MAP SHOWING LOCATION OF RUTH PROSPECT, GRAND COUNTY, COLORADO

over about 6 miles of steep and tortrous trails to the property. An access road to the property would be a difficult and expensive undertaking. Granby, Colorado, is on the Denver and Rio Grande Western Railroad and U. S. Highway 40. It is about 90 miles northwest of Denver, Colorado. The property is just south of the southern boundary of Rocky Mountain National Park.

HISTORY AND PRODUCTION

The Ruth group of claims is an original location by the applicants George and Ward Nair who are brothers. There has been no production from the property and work has been limited to general prospecting and the exposure of two small pegmatites on the Ruth claims nos. 15 and 16 (fig. 2). The exposure on the Ruth No. 15 claim is a pit of 5 x 7 foot cross-section and 7 feet deep. The exposure of a pegmatite on the Ruth No. 16 claim consists of a shallow hillside cut about 15 feet long, 6 feet wide and exposes a face about 10 feet high.

OWNERSHIP

The property was originally located by the brothers George and Ward Nair in 1954 as a contiguous group of 57 standard mineral lode locations (600 x 1,500 feet). The location certificate is recorded on page 239, in book 109 of the Grand County records at Hot Sulphur Springs, Colorado. The group of claims covers about 1,178 acres of very rough terrain. The claims and the approximate location of the only development work are shown on figure 2.

GEOLOGY

Ore deposits of the Ruth group of claims are found in pegmatite dikes in granitic gneiss. Chalcopyrite, pyrite, fluorite, and crystalline hematite are concentrated in the walls of shear zones and in brecciated parts of the dikes. The parts of the dikes that are not highly fractured appear to be barren. Not all the pegmatites in the area are mineralized, nor are all the fractured zones in pegmatites mineralized.

The dike on the Ruth claim no. 16, (figures 2 and 3) is poorly exposed but it is about 4 feet thick and 10 feet long. Two malachite coated fractures, one 2-inches thick and another 4-inches thick can be followed about 5 feet. The brecciated parts of the pegmatite and adjacent granitic gneiss are heavily impregnated with black hematite. Two samples were taken across the 2.3 feet of mineralized face exposed in the prospect pit. Sample H-792 was taken across a width of 0.4 feet and assayed 0.27 percent copper. Sample H-793 was taken across the remaining width of 1.9 feet northeast of sample H-792 and assayed 0.03 percent copper.

The dike on the Ruth claim no. 15, (figures 2 and 3) is exposed for 35 feet and reaches a maximum thickness of 7 feet. It strikes N. 55° W., and dips 60° N.E. It is cut by several closely spaced, gouge-filled fractures that strike N. 10° E. and dip 60° S.E. The mineralized zone is about 3.5 feet thick on both sides of the fractured zone. The rest of the pegmatite seems to be barren. Sample H-794 was taken across the mineralized width of 7 feet and assayed 0.34 percent copper.

The other pegmatites in the area are likewise a few tens of feet long and a few feet thick. Several other outcrops showing signs of copper mineralization are said to exist, but the applicant could not relocate them. He considers the prospects that were examined to be the best deposits on the property.

The only known deposits are thus small, low-grade and inaccessible. They are unlikely ever to be of economic importance.

MINABLE ORE RESERVES

There is no basis on which to estimate any kind of ore reserves. There has been no production from the claims to date and all analyses taken and an examination of the property indicate that any possible reserves would be very small, low-grade and sub-economic.

PRESENT STATUS

Exploration and development

Work on the 57 Ruth claims (fig. 2) consisted of intermittent prospecting of a very general nature and a few assays. Development work has been limited to shallow cuts on the Ruth claims No. 15 and No. 16. A pegmatite is exposed on the Ruth No. 15 claim in a pit of 5 x 7 foot cross-section, 7 feet deep. On the Ruth claim No. 16, a pegmatite is exposed in a side hill cut which is 6 feet wide and about 15 feet long and exposes a face about 10 feet high.

Mining, milling and other facilities

There is no mining equipment on the property other than a few pieces of hand drill steel, hammers and a shovel. There are no milling or other facilities on the property other than a crude and decrepit cabin.

APPLICANTS PROJECT PROPOSAL AND COSTS

George and Ward Nair propose to explore their Ruth group of contiguous claims as follows:

1. Construct an access road to the property at an over all cost of $100,000.00. Access now is over about 8 miles of steep and tortuous horse trails and foot paths. The access road with grades that could be negotiated by trucks would be considerably longer and would involve much rock work and bridging. The applicants have not mapped a route and there was no basis on which to judge their estimate. They consulted several contractors before arriving at their figure which may be realistic for the terrain involved.

2. From their claim no. 1 at a point in a canyon bottom (fig. 2) they propose to drive 3,000 feet of adit along a hypothetical vein to determine whether it contains copper in sufficient quantity to be of economic importance. In addition, they propose to crosscut 500 feet in both a north and a south direction from the end of crosscut to pick up any possible paralleling veins. The total length of crosscuts would be 1,000 feet. Costs are estimated at $35.00 per foot of adit crosscut and drift. Cost of this stage would be $140,000.00 (4,000 feet x $35.00). Their costs for this stage of exploration are probably low.

3. In the vicinity of a pegmatite exposure on their Ruth claim no. ~~15~~ 16 (fig. 2) they propose to sink a shaft about 400 feet deep and to crosscut from its bottom for 250 feet in both a north and south direction. Costs are estimated at $100.00 per foot of shaft sunk, and $35.00 per foot of crosscut therefrom. Cost of this stage of the

project would be $57,500.00 (500 feet of shaft at $100.00 per foot plus 500 feet of crosscut at $35.00 per foot). Costs of this stage of the project are probably realistic.

Recapitulation of Applicants Costs

Road construction	$100,000.00
3,000 feet of drift - adit at $35.00 per ft.	105,000.00
1,000 feet of crosscuts from the drift adit at $35.00 per ft.	35,000.00
400 feet of shaft at $100.00 per ft.	40,000.00
500 feet of drift from shaft at $35.00 per ft.	17,500.00
Total cost of applicants project	$297,500.00

CONCLUSIONS

Ore deposits on the Ruth claims are found in pegmatites in granitic gneiss. Chalcopyrite, malachite, pyrite, fluorite and crystalline hematite are concentrated in the walls of shear zones and in brecciated parts of the dikes.

Not all the pegmatites in the area are mineralized, nor are all the fractured zones in the pegmatites mineralized.

The only known deposits of copper are very small, low-grade, and inaccessible. They are unlikely ever to be of economic importance.

RECOMMENDATIONS

It is recommended that George and Ward Nair's application for DMEA assistance for $297,500.00 to explore their Ruth group of claims be denied.

/ph

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

October 14, 1955

25th New Customhouse
Denver 2, Colorado

Griswold

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, DMEA Docket 3467 (Copper), George Hair and Ward Hair, Ruth group of claims, Grand County, Colorado

Enclosed are the original and three copies of the report pertaining to the above application. The examiners conclude that the proposed exploration would not result in the discovery of significant reserves of copper ore, and they therefore recommend that the application be denied.

We concur with this recommendation.

W. H. Traver

By J. W. Townsend
J. W. Townsend

E. M. Hartman
E. M. Hartman

Enclosures

IN REPLY REFER TO:

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

Date Rec'd
OCT 13 1955
BUREAU OF MINES
Denver, Colorado

October 11, 1955

TRANSMITTED
OCT 14 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman
John F. Shaw

Subject: DMEA Docket 3467 (Copper), George Nair and Ward Nair, Ruth group of claims, Grand County, Colorado

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The examiners conclude that the known copper deposits on the claims are very small and low grade and that the proposed work will not result in a significant discovery. They recommend denial of the application for exploration assistance.

We concur with this recommendation.

E. N. Harshman
E. N. Harshman
Member, Field Team

John F. Shaw
John F. Shaw
Supervising Mining Engineer

Enclosures (9)

ENHarshman:arb

Reviewed by
DMEA Office
(Sept 1)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

JOINT REPORT OF EXAMINATION BY EXAMINING TEAM

REGION III

DMEA 3467

George Nair and Ward Nair

Ruth Group of Claims

Grand County, Colorado

Copper

Joint Engineering and Geologic Report

By

J. E. O'Rourke, Geologist
Geological Survey

C. M. Harrer, Mining Engineer
Bureau of Mines

October 14, 1955

BMEA 3467

GEORGE NAIR AND WARD NAIR
RUTH GROUP OF CLAIMS
GRAND COUNTY, COLORADO

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ILLUSTRATIONS

Figure — Follows Page

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3. Map showing location of Ruth prospect, Grand County, Colorado 2

DMEA 3467

GEORGE NAIR AND WARD NAIR
RUTH GROUP OF CLAIMS
GRAND COUNTY, COLORADO

SUMMARY

George and Ward Nair, brothers, have applied for Defense Minerals Exploration Administration assistance to explore their Ruth group of unpatented mineral locations for copper ore. They own the Ruth claims 1 to 57 by right of location. The claims comprise 1,178 acres in secs. 5, 6, 7, 8 and 9, T. 2 N., R. 74 W., just south of Rocky Mountain National Park, at altitudes ranging between 10,500 to 12,500 feet above sea level. The claims are in very rough terrain and accessible over narrow and tortuous pack trails.

They propose to construct an access road for $100,000.00; drive a 3,000-foot adit on a hypothetical vein and drive 1,000 feet of crosscut therefrom, all at a cost of $140,000.00; and sink a 400-foot shaft on an additional vein and drift 500 feet therefrom at a cost of $57,500.00. Total cost of the project was estimated at $297,500.00.

Ore deposits on the Ruth claims are found in pegmatites in granitic gneiss. Chalcopyrite, malachite, pyrite, fluorite and crystalline hematite are concentrated in the walls of shear zones and in brecciated parts of the dikes.

Not all the pegmatites in the area are mineralized, nor are all the fractured zones.

The only known deposits of copper ore are very small, low-grade, and inaccessible. They are unlikely ever to be of economic importance.

It is recommended that George and Ward Nair's application for exploration assistance totaling $297,500.00 be denied.

INTRODUCTION

George Nair and Ward Nair of Granby, Colorado, own a contiguous group of 57 unpatented lode claims which they wish to explore for copper. They have applied for Defense Minerals Exploration Administration assistance to explore their claims with a program of underground exploration at an estimated cost of $297,500.00.

The applicants claims were examined by a joint Bureau of Mines and Geological Survey team on August 16-17, 1955, accompanied by George Nair, one of the partners. The property is difficultly accessible with horses.

ACKNOWLEDGMENTS

George Nair, one of the partners, served as guide during the examination and contributed his knowledge of the property. The team was accompanied by J. F. Abel, Bureau of Mines engineering aide.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Ruth group of 57 unpatented mineral lode locations forms a contiguous group in approximate sections 5, 6, 7, 8 and 9, T. 2 N., R. 74 W., 6th principal meridian, in Grand County, Colorado, figures 1, 2 and 3. The property lies between the headwaters of Roaring Fork and Hell Canyon creeks at altitudes ranging between 10,500 to 12,500 feet above sea-level. The claims are in very rough and steep terrain and are difficultly accessible over narrow, rocky and tortuous horse trails. Supplies and labor would have to be trucked in from Granby, Colorado, to the Roaring Fork ranger station at the east end of the Granby reservior (about 15 miles) and then transported by pack horses

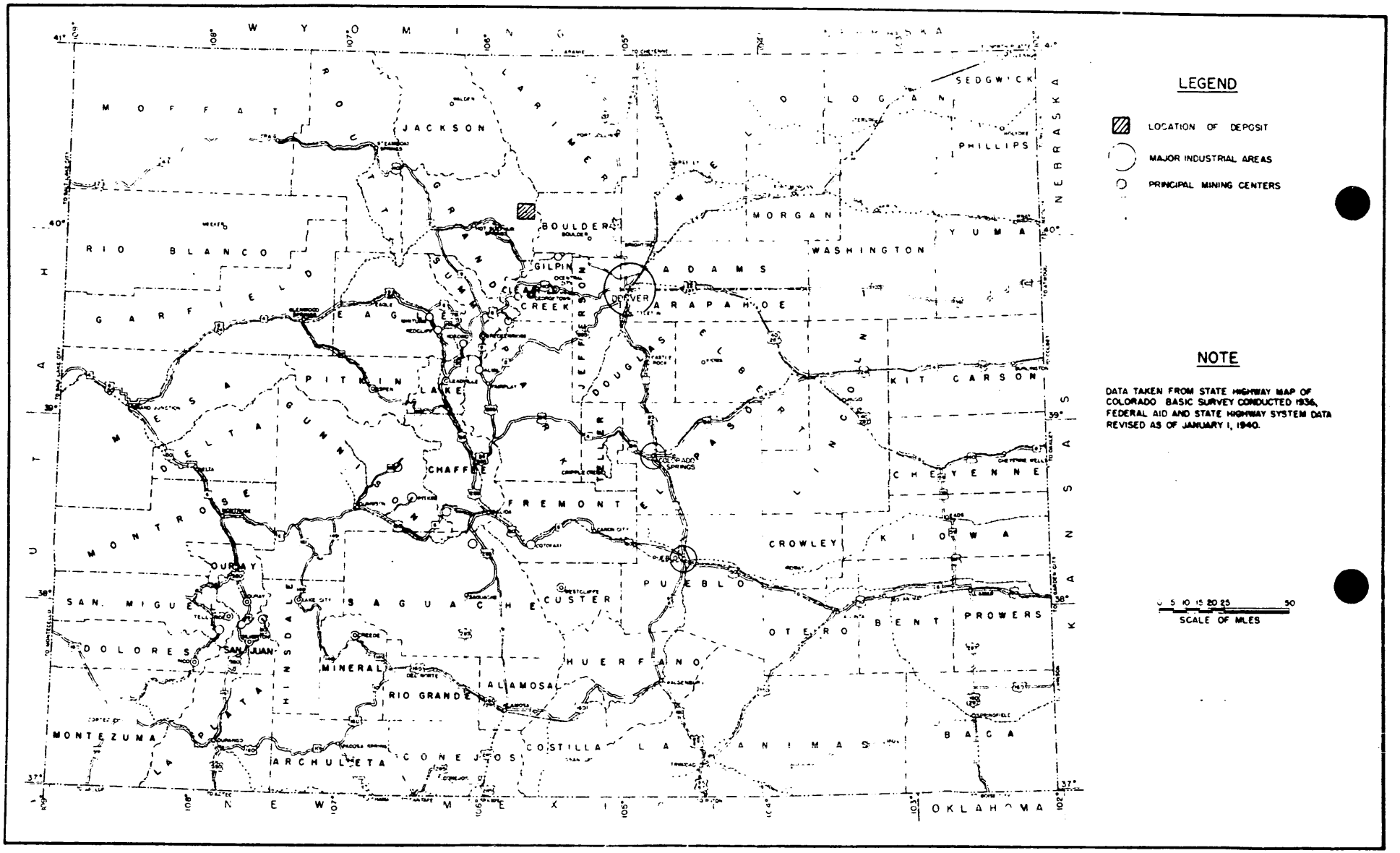
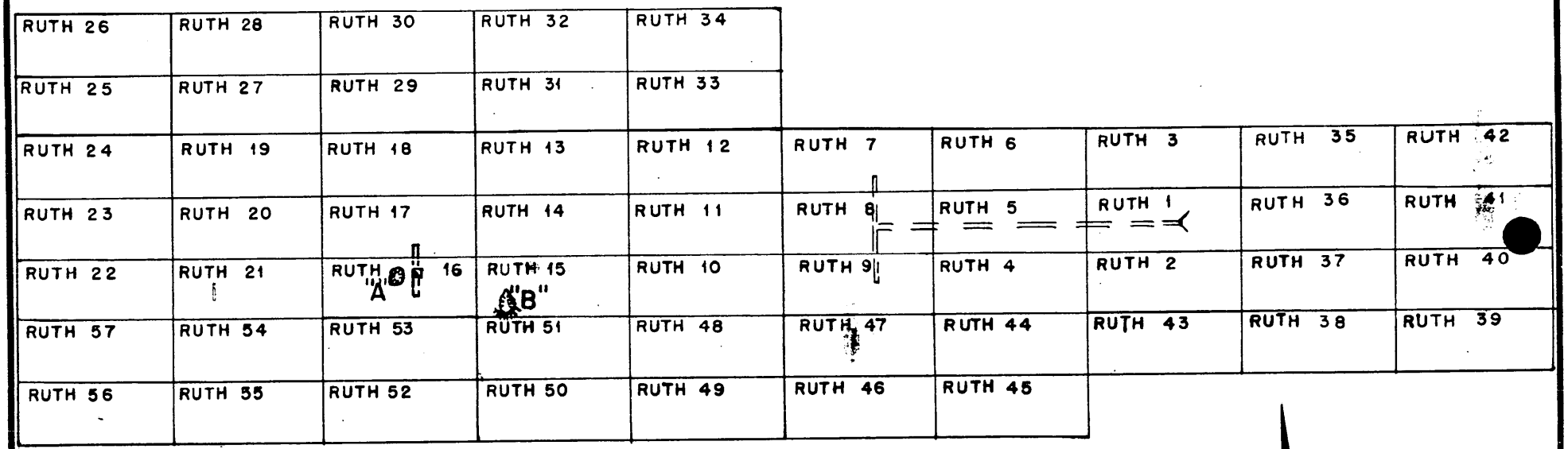


FIGURE 1 - LOCATION MAP, GEORGE AND WARD NAIR, RUTH GROUP OF CLAIMS, GRAND COUNTY, COLO. DMEA 3467



LEGEND:

- Proposed Shaft
- Proposed Underground Workings

"A" 5'x 7'x 7' Pit on Pegmatite (Location of Samples H-792 and H-793)

"B" 6'x10'x 15' Cut on Pegmatite (Location of Sample H-794)

SCALE: 1" = 1,500'

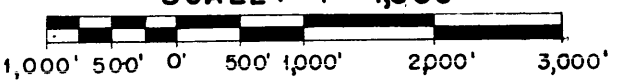


FIGURE 2 — CLAIM AND EXPLORATION MAP, RUTH GROUP OF CLAIMS, GRAND COUNTY, COLORADO, (D.M.E.A. 3467)

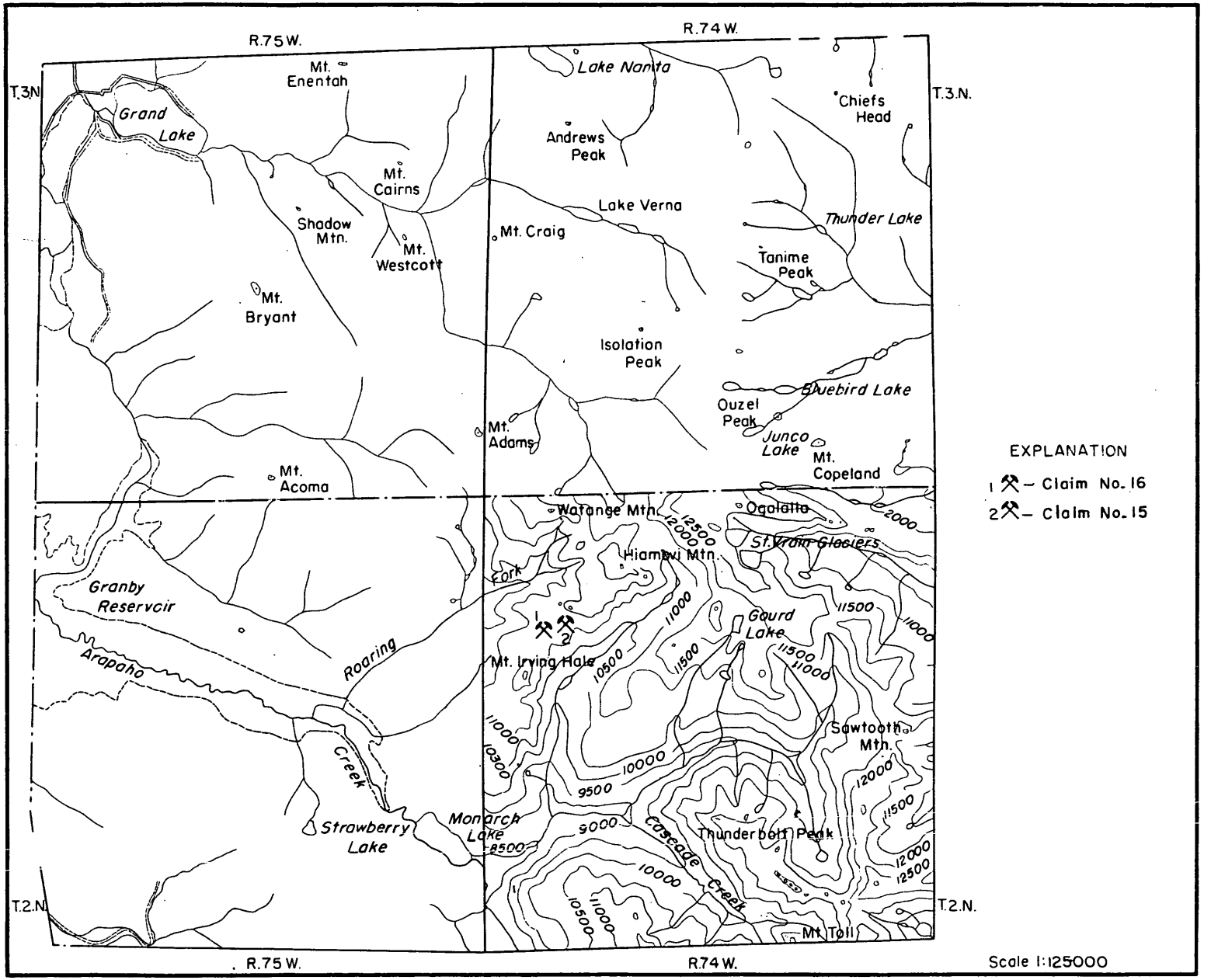


FIG. 3- MAP SHOWING LOCATION OF RUTH PROSPECT, GRAND COUNTY, COLORADO

over about 6 miles of steep and tortrous trails to the property. An access road to the property would be a difficult and expensive undertaking. Granby, Colorado, is on the Denver and Rio Grande Western Railroad and U. S. Highway 40. It is about 90 miles northwest of Denver, Colorado. The property is just south of the southern boundary of Rocky Mountain National Park.

HISTORY AND PRODUCTION

The Ruth group of claims is an original location by the applicants George and Ward Nair who are brothers. There has been no production from the property and work has been limited to general prospecting and the exposure of two small pegmatites on the Ruth claims nos. 15 and 16 (fig. 2). The exposure on the Ruth No. 15 claim is a pit of 5 x 7 foot cross-section and 7 feet deep. The exposure of a pegmatite on the Ruth No. 16 claim consists of a shallow hillside cut about 15 feet long, 6 feet wide and exposes a face about 10 feet high.

OWNERSHIP

The property was originally located by the brothers George and Ward Nair in 1954 as a contiguous group of 57 standard mineral lode locations (600 x 1,500 feet). The location certificate is recorded on page 239, in book 109 of the Grand County records at Hot Sulphur Springs, Colorado. The group of claims covers about 1,178 acres of very rough terrain. The claims and the approximate location of the only development work are shown on figure 2.

GEOLOGY

Ore deposits of the Ruth group of claims are found in pegmatite dikes in granitic gneiss. Chalcopyrite, pyrite, fluorite, and crystalline hematite are concentrated in the walls of shear zones and in brecciated parts of the dikes. The parts of the dikes that are not highly fractured appear to be barren. Not all the pegmatites in the area are mineralized, nor are all the fractured zones in pegmatites mineralized.

The dike on the Ruth claim no. 16, (figures 2 and 3) is poorly exposed but it is about 4 feet thick and 10 feet long. Two malachite coated fractures, one 2-inches thick and another 4-inches thick can be followed about 5 feet. The brecciated parts of the pegmatite and adjacent granitic gneiss are heavily impregnated with black hematite. Two samples were taken across the 2.3 feet of mineralized face exposed in the prospect pit. Sample H-792 was taken across a width of 0.4 feet and assayed 0.27 percent copper. Sample H-793 was taken across the remaining width of 1.9 feet northeast of sample H-792 and assayed 0.03 percent copper.

The dike on the Ruth claim no. 15, (figures 2 and 3) is exposed for 35 feet and reaches a maximum thickness of 7 feet. It strikes N. 55° W., and dips 60° N.E. It is cut by several closely spaced, gouge-filled fractures that strike N. 10° E. and dip 60° S.E. The mineralized zone is about 3.5 feet thick on both sides of the fractured zone. The rest of the pegmatite seems to be barren. Sample H-794 was taken across the mineralized width of 7 feet and assayed 0.34 percent copper.

The other pegmatites in the area are likewise a few tens of feet long and a few feet thick. Several other outcrops showing signs of copper mineralization are said to exist, but the applicant could not relocate them. He considers the prospects that were examined to be the best deposits on the property.

The only known deposits are thus small, low-grade and inaccessible. They are unlikely ever to be of economic importance.

MINABLE ORE RESERVES

There is no basis on which to estimate any kind of ore reserves. There has been no production from the claims to date and all analyses taken and an examination of the property indicate that any possible reserves would be very small, low-grade and sub-economic.

PRESENT STATUS

Exploration and development

Work on the 57 Ruth claims (fig. 2) consisted of intermittent prospecting of a very general nature and a few assays. Development work has been limited to shallow cuts on the Ruth claims No. 15 and No. 16. A pegmatite is exposed on the Ruth No. 15 claim in a pit of 5 x 7 foot cross-section, 7 feet deep. On the Ruth claim No. 16, a pegmatite is exposed in a side hill cut which is 6 feet wide and about 15 feet long and exposes a face about 10 feet high.

Mining, milling and other facilities

There is no mining equipment on the property other than a few pieces of hand drill steel, hammers and a shovel. There are no milling or other facilities on the property other than a crude and decrepit cabin.

APPLICANTS PROJECT PROPOSAL AND COSTS

George and Ward Nair propose to explore their Ruth group of contiguous claims as follows:

1. Construct an access road to the property at an over all cost of $100,000.00. Access now is over about 8 miles of steep and tortuous horse trails and foot paths. The access road with grades that could be negotiated by trucks would be considerably longer and would involve much rock work and bridging. The applicants have not mapped a route and there was no basis on which to judge their estimate. They consulted several contractors before arriving at their figure which may be realistic for the terrain involved.

2. From their claim no. 1 at a point in a canyon bottom (fig. 2) they propose to drive 3,000 feet of adit along a hypothetical vein to determine whether it contains copper in sufficient quantity to be of economic importance. In addition, they propose to crosscut 500 feet in both a north and a south direction from the end of crosscut to pick up any possible parallaling veins. The total length of crosscuts would be 1,000 feet. Costs are estimated at $35.00 per foot of adit crosscut and drift. Cost of this stage would be $140,000.00 (4,000 feet x $35.00). Their costs for this stage of exploration are probably low.

3. In the vicinity of a pegmatite exposure on their Ruth claim no. ~~15~~ 16 (fig. 2) they propose to sink a shaft about 400 feet deep and to crosscut from its bottom for 250 feet in both a north and south direction. Costs are estimated at $100.00 per foot of shaft sunk, and $35.00 per foot of crosscut therefrom. Cost of this stage of the

project would be $57,500.00 (500 feet of shaft at $100.00 per foot plus 500 feet of crosscut at $35.00 per foot). Costs of this stage of the project are probably realistic.

Recapitulation of Applicants Costs

Road construction	$100,000.00
3,000 feet of drift - adit at $35.00 per ft.	105,000.00
1,000 feet of crosscuts from the drift adit at $35.00 per ft.	35,000.00
400 feet of shaft at $100.00 per ft.	40,000.00
500 feet of drift from shaft at $35.00 per ft.	17,500.00
Total cost of applicants project	$297,500.00

CONCLUSIONS

Ore deposits on the Ruth claims are found in pegmatites in granitic gneiss. Chalcopyrite, malachite, pyrite, fluorite and crystalline hematite are concentrated in the walls of shear zones and in brecciated parts of the dikes.

Not all the pegmatites in the area are mineralized, nor are all the fractured zones in the pegmatites mineralized.

The only known deposits of copper are very small, low-grade, and inaccessible. They are unlikely ever to be of economic importance.

RECOMMENDATIONS

It is recommended that George and Ward Mair's application for DMEA assistance for $297,500.00 to explore their Ruth group of claims be denied.

/ph

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 18 1954

224 New Customhouse
Denver 2, Colorado

October 14, 1954

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 3467 (Copper), George and Ward Nair, Ruth claims, Grand County, Colorado

Enclosed is a copy of a letter from the applicant requesting that the field examination be delayed until next spring. We are also enclosing a copy of our reply.

W. H. King

Enclosures

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

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 18 1954

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
October 13, 1954

Mr. George Nair
Granby Star Route
Granby, Colorado

Re: DMEA 3467 (Copper), George and Ward Nair (Ruth claims), Grand County, Colorado

Dear Mr. Nair:

Reference is made to our telephone conversation of October 4, 1954, regarding the examination of your Ruth group of claims included under the captioned loan application and your letter of October 11 suggesting that we defer the field investigation until the spring of 1955.

Such an arrangement is satisfactory and we will appreciate you notifying this office several days in advance next spring when the snow is melted so we can make a satisfactory examination.

Very truly yours,

W. M. TRAVER

W. M. Traver, Chief
Mineral Resources Branch
Mining Division, Region IV

WMT/kp

cc WHKing (2)
AHKoschmann
ENHarshman
DMEA 3467
Chron

Resources Branch

Date Rec'd
MAR 15 1954
BUREAU OF MINES
Denver, Colorado

Leadville Colo
February 11th 1954

Bureau of Mines,
Denver Colo.

3467

Gentlemen:

In response to the request for the payment of work done, I would very grateful that the money be sent in the spring. As there is already snow on Iles Creek.

Yours Sincerely

George Weir

File Copy
Surname
Griswold
Selfridge
Johnson

500

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

SEP 22 1954

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

Re: Docket No. DMEA-3467 (Copper)
George and Ward Nair
Ruth Claims
Grand County, Colorado

Dear Mr. King:

Referring to your letter of August 25, covering the cited application, you are hereby authorized to make a field examination as you had requested.

For your information, we are enclosing copies of memorandums by Mr. C. H. Johnson, USBM, dated September 13, and Mr. E. L. Newcomb, USGS, dated September 3.

In view of the magnitude of this proposed project (estimated cost $297,500.00), it would be well to emphasize to the Applicants that they would be required to finance fifty per cent of such sum, and that it would be futile for them to undertake such a program without being reasonably sure as to the necessary financial arrangements.

Sincerely yours,

George C. Selfridge (by ESF)

Chairman, Operating Committee

Enclosures 4

WRGriswold/bjl (9/21/54)

APPROVED:
J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Kiilsgaard
Mr. C. H. Johnson
Chron.

R.C.J.

File Copy
Surname

Griswold
Kiilsgaard
Hedges
Selfridge
Johnson

500

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

SEP 22 1954

Messrs George and Ward Nair
Granby Star Route
Granby, Colorado

Re: Docket No. DMEA-3467 (Copper)
Ruth Claims
Grand County, Colorado

Gentlemen:

Your application for Government assistance to explore your property has been reviewed by the Base Metals Division of the Defense Minerals Exploration Administration, and has been referred for a field examination to:

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

The Regional Office will contact you at an early date as to when the 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 (for)

Administrator

WRGriswold/bjl (9/21/54)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Kiilsgaard
Mr. C. H. Johnson
Chron.
Region IV (2)

A.C.S.

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

September 13, 1954

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-3467 (Copper) George Nair and Ward Nair, Ruth Group, Grand County, Colorado

The above-named application is returned herewith. It does not appear to me to warrant a field examination, as no information is submitted as to the existence of copper mineralization on the property.

C. H. Johnson

C. H. Johnson

Attachment

Copy to - Mr. Newcomb, USGS
Minerals Division
C. H. Johnson
Files

IN REPLY REFER TO:

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

September 3, 1954

Griswold

Re: DMEA-3467
Nair Brothers
(Ruth Claims)
Grand Co., Colorado
$297,500 - Copper

Memorandum

To: W. R. Griswold
Defense Minerals Exploration Administration

From: E. L. Newcomb
U. S. Geological Survey

Subject: Review of application

The letter of transmittal from the Field Team, which accompanied this application, states that authorization for a field examination should be given. They recommend no additional information be requested by Washington from the applicant.

As the application lacks considerable essential data for its appraisal, it seems best to follow the Field Team's recommendation.

E. L. Newcomb

E. L. Newcomb

IN REPLY REFER TO:

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

September 3, 1954

Re: DMEA-3467
Bair Brothers
(Ruth Claims)
Grand Co., Colorado
$297,500 - Copper

Memorandum

To: W. R. Griswold
Defense Minerals Exploration Administration

From: E. L. Newcomb
U. S. Geological Survey

Subject: Review of application

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E. L. Newcomb

ELNewcomb:hlm
G-9/3/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
C. H. Johnson, 3621

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

August 30, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

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 IV.

DMEA - 3467 George & Ward Nair

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

August 30, 1954
Subject: DMEA-3467
Re: Exploration Assistance

Messrs. George & Ward Nair
Granby Star Route
Granby, Colorado

Gentlemen:

The receipt of your application dated August 18, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3467 and referred to the Base Metals Division.

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

Sincerely yours,

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

224 New Customhouse
Denver 2, Colorado

August 25, 1954.

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region IV

Subject: (Copper) - Application of George Nair and Ward Nair, a partnership, Ruth Claims, Grand County, Colorado.

Enclosed are three copies of the subject application in the amount of $297,500.00. The fourth copy of the application is being retained in this office.

One of the applicants brought in the original application September 16, 1953 and has made several visits to this office since that time. On each visit our personnel have explained to him the requirements to be fulfilled in the preparation of an application but without avail. The enclosed application was received by mail.

We suspect that a completed application would be denied by a field examination. It is requested that a field examination be authorized without further demands on the applicants for additional information.

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosures

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

224 New Customhouse
Denver 2, Colorado

August 25, 1954.

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region IV

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W H King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosures

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

224 New Customhouse
Denver 2, Colorado

August 25, 1954.

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To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region IV

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W H King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosures

HMC:cwm

cc: Docket
Administrator, DMEA
WMTraver
AHKoschmann
Chron.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Mining Division
Date Rec'd
AUG 24 1954
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. 3467
Metal or Mineral Copper
Date Received
Estimated Cost $297,500
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: George Nair and Ward Nair a partnership, Granby Star Route, Granby, Colorado

(*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 The following described mining claims: Ruth Claims #1 through 457, located in Secs. 5,6,7,8 and 9, Tp. 2 N. R. 74 W. of 6th P. M. These claims are in an unorganized mining distriction, and the Location Certificate is recorded in Book 109, page 239, of Grand County records. These claims are unpatented.

(*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 Owners

(*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 .....

(*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 ..... 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? See attached statement.

☐ Money ☐ Use of equipment owned by you ☐ 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 August 18, 1953

Ward Nair
(Applicant)

By George Nair

George Nair

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

The following is submitted as a supplement to executed Form MF 103, with which this statement is transmitted. References are to the paragraphs and subparagraphs listed on the said application form.

4. (a) Operations to date have consisted of prospecting throughout the entire region, the taking of samples, and the laying out of mining claims covering the principal ore bodies. The above listed persons are the only parties in interest in the said claims. There are no existing working and production facilities located on the said claims. The land is accessible by trail, which is suitable for horses, about four miles long, leading from the road to Monarch Lake, being Colorado Highway #280.

4. (b) There has been no production on the said claims, and the reserves have not been determined.

4. (c) There has been no technologic information developed concerning the said property, with the exception of assays of the ore, which are enclosed herewith, together with a sketch showing the points at which ore samples were taken.

4. (d) Granby, Colorado, is the logical shipping, supply and residence point in respect to the mining claims. From Granby to the Granby Dam, the road is a first class, oiled surfaced highway, for a distance of approximately five miles. State Highway #280, to Monarch Lake, is a gravel road, approximately ten miles long. From this point, it is approximately five miles to the location of the ore bodies, over which there is no road constructed as yet. Granby is located on U. S. Highway #40, eighty-seven miles from Denver, and is on the main line of the Denver & Rio Grande Western Railroad.

4. (e) None of the items listed in 4 (e) are available at the present time, since the operation has not developed to a point where arrangements would be made for these items. Water and power should be available through the Colorado Big Thompson project.

5. (b) (c) and (d), and 6 - (a) (b) (c) (d) (e) (f) (g) and (h). Financing arrangements for a development project, and exploration projects, have not been undertaken by the applicants, pending a preliminary survey of the entire operation. At the time of the completion of such a survey, a definite statement can be made of the method by which applicants will furnish their share of the cost of

the proposed project. If such a survey demonstrates that an exploration and development project would be economically feasible, applicants will furnish their share of the cost, probably through the obtaining of other financing, in addition to that which they are able to provide.

George Nair

Ward Nair

By George Nair

I suggest a tunnel in the vein on Claim #1, and a shaft in vein on Claim #15.

			nu 45	nu 46	nu 49	nu 50	nu 52	nu 55	nu 56
nu 39	nu 38	nu 43	nu 44	nu 47	nu 48	nu 51	nu 53	nu 54	nu 57
nu 40	nu 37	nu 2	nu 4	nu 9	nu 10	nu 15	nu 16	nu 21	nu 22
					SHAFT HERE →				
nu 41	nu 36	nu 1	nu 5	nu 8	nu 11	nu 14	nu 17	nu 20	nu 23
TUNNEL HERE →		VEIN							
nu 42	nu 35	nu 3	nu 6	nu 7	nu 12	nu 13	nu 18	nu 19	nu 24
			VEIN						
					nu 33	nu 31	nu 29	nu 27	nu 25
					nu 34	nu 32	nu 30	nu 28	nu 26

Same Work done on claim 1 also claim 15
also claim 14 also claim 17
The veins are close together and can
be trace for several miles
The 57 claims is only part of the era
We have work on this for 21 years

2114 CURTIS STREET

TELEPHONE MAin 1852

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 2, COLORADO

Folio 6097

Date Sept. 10, 1953.

George Nair,
Granby,
Colorado.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	GOLD OUNCES PER TON	SILVER OUNCES PER TON	COPPER PER CENT (WET)	LEAD PER CENT (WET)	ZINC PER CENT	IRON PER CENT	INSOLUBLE PER CENT	VALUE PER TON
Claim No. 15	trace	trace	0.78					

No radioactivity.

This assay was taken 4 ft from surface out of about 3 ft width

Gold at _____ per ounce Copper at _____ per unit

Silver at _____ per ounce Zinc at _____ per unit

Lead at _____ per unit _____

Charge $ 2.50

CHARLES O. PARKER & CO.
CHEMISTS, ASSAYERS and ENGINEERS

SUPPLEMENTAL STATEMENT - ADDITIONAL

The following is submitted as an additional supplementary statement to executed form MF103, to which this supplemental statement is attached and with which it is transmitted. The statement has to do with question 6 of the said application.

It is impossible, under the present circumstances, to itemize the estimate of costs listed under Paragraphs A through H of question 6. It is contemplated that in order to properly explore and commence development of the included properties, a tunnel should be driven on Claim 1, approximately 3000 ft. in length, with approximately 500 ft. of cross-cut tunnel from the end of the tunnel. Claim No. 1 is located in a valley and it appears that such a tunnel would be the most economical method of exploration and preliminary production. Under the circumstances, and taking into account the terrain and other factors, it is estimated that the expense of such a tunnel would not exceed $35.00 a ft., at the most, for a total for the tunnel of $140,000.00.

On Claim 15, it is my opinion based on research and development to this point, that a shaft should be driven. Claim No. 15 is located on the top of a ridge, and it is believed that a shaft approximately 400 ft. deep would be necessary in order to reach the most desirable point of extraction of the minerals. There should be a 250 ft. cross-cut tunnel driven both north and south from the bottom of the shaft, at the 400 ft. level. I estimate the cost of such a shaft to be $100.00 a foot and the 500 feet of tunnel to be $35.00 a foot, for a total of $37,500.00.

In order to do the necessary work, and to drive the tunnel and shaft, it will be necessary to construct a road into the area wherein the minerals are located. The cost of such a road should not exceed the sum of $100,000.00 and would be necessary to carry out the work outlined above.

An additional assay report is attached hereto, showing the percentage of copper and of fluorine in a general sample taken at the surface on portions of these claims. It is to be emphasized that this is a general sample and not selected for the highest grade.

More detailed information concerning potential costs and the most expeditious methods of development cannot be obtained until a mineral survey is made by persons qualified to do so. However, it is our position that such a survey will disclose that our representations to this point have been honest and relatively accurate under the circumstances.

George Nair

Ward Nair

By George Nair

(COPY)

MINERS ASSAY OFFICE

George Treder, Prop.

Idaho Springs, Colo.

TO Mr. Geo. Nair DATE April 21st, 1954

Address Grand Lake, Colo. Mine

DESCRIPTION	GOLD Ozs/Ton	SILVER Ozs/ Ton	LEAD %	ZINC %	COPPER %	FLOURINE
Sample					.64	3.42%

Ore Listed above gave assay results as shown

/s/ George W. Treder ASSAYER

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Mining Division
Date Rec'd
AUG 24 1954
BUREAU OF MINES
Denver, Colorado

Mining Division
Date Rec'd
SEP 16 1954
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. 3467
Metal or Mineral Copper
Date Received
Estimated Cost $297,500
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: George Nair and Ward Nair a partnership, Granby Star Route, Granby, Colorado

(*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 The following described mining claims: Ruth Claims #1 through #57, located in Secs. 5,6,7,8 and 9, Tp. 2 N. R. 74 W. of 6th P. M. These claims are in an unorganized mining distriction, and the Location Certificate is recorded in Book 108, page 238, of Grand County records. These claims are unpatented.

(*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 Owners

(*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 Copper

(*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 ..... 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? See attached statement.

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

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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 August 18, 1953

Ward Nair
(Applicant)

By George Nair

George Nair

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U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

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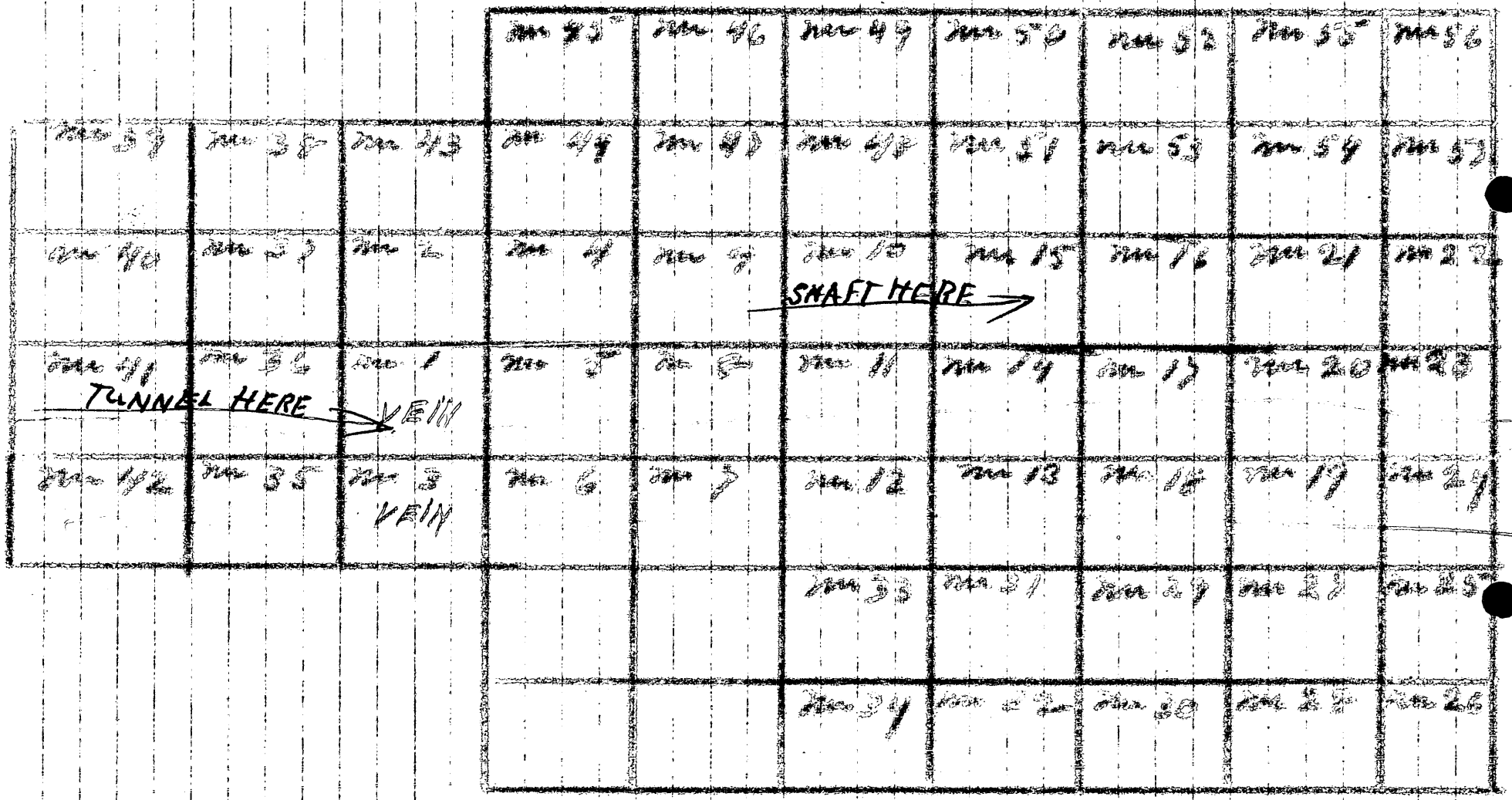
George Nair

Ward Nair

By George Nair

I suggest a tunnel in the vein on Claim #1, and a shaft in vein on Claim #15.


SHAFT HERE
TUNNEL HERE
VEIN
VEIN

Some work done on claim No 1 also claim 15
also claim 14 also claim 17
The veins are close together and can
be trace for several miles
The 57 claims is only part of the era
We have work on this for 21 years

We have work on this for 21 years
The 57 claims is only part of the ore
We have work on claim No 1 also claim 15
also claim 14 also claim 17
The veins are close together and can
be tied for mineral under
one claim
also claim 16

2118 CURTIS STREET TELEPHONE MAin 1852

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 2, COLORADO

Folio 6097

George Nair,
Granby,
Colorado.

Date Sept. 10, 1953.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	GOLD OUNCES PER TON	SILVER OUNCES PER TON	COPPER PER CENT (WET)	LEAD PER CENT (WET)	ZINC PER CENT	IRON PER CENT	INSOLUBLE PER CENT	VALUE PER TON
Claim No. 15	trace	trace	0.78					

No radioactivity.

This assay was taken 4 ft from surface out of about 3 ft width

Gold at _____ per ounce Copper at _____ per unit

Silver at _____ per ounce Zinc at _____ per unit

Lead at _____ per unit _____

Charge $ 2.50

CHARLES O. PARKER & CO.
CHEMISTS, ASSAYERS and ENGINEERS

SUPPLEMENTAL STATEMENT - ADDITIONAL

The following is submitted as an additional supplementary statement to executed form MF103, to which this supplemental statement is attached and with which it is transmitted. The statement has to do with question 6 of the said application.

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On Claim 15, it is my opinion based on research and development to this point, that a shaft should be driven. Claim No. 15 is located on the top of a ridge, and it is believed that a shaft approximately 400 ft. deep would be necessary in order to reach the most desirable point of extraction of the minerals. There should be a 250 ft. cross-cut tunnel driven both north and south from the bottom of the shaft, at the 400 ft. level. I estimate the cost of such a shaft to be $100.00 a foot and the 500 feet of tunnel to be $35.00 a foot, for a total of $57,500.00.

In order to do the necessary work, and to drive the tunnel and shaft, it will be necessary to construct a road into the area wherein the minerals are located. The cost of such a road should not exceed the sum of $100,000.00 and would be necessary to carry out the work outlined above.

An additional assay report is attached hereto, showing the percentage of copper and of fluorine in a general sample taken at the surface on portions of these claims. It is to be emphasized that this is a general sample and not selected for the highest grade.

More detailed information concerning potential costs and the most expeditious methods of development cannot be obtained until a mineral survey is made by persons qualified to do so. However, it is our position that such a survey will disclose that our representations to this point have been honest and relatively accurate under the circumstances.

George Nair

Ward Nair

By George Nair

Miners Assay Office

GEORGE TREDER, Prop.
Idaho Springs, Colo.

TO Mr. Geo. Nair

ADDRESS Grand Lake, Colo.

DATE April 21st, 1954

MINE

DESCRIPTION	GOLD Ozs. per ton	SILVER Ozs. per ton	LEAD Per Cent	ZINC Per Cent	COPPER Per Cent	Fluorine
Sample					.64	3.42%

Gold @ _____ per ounce
Silver @ _____ per ounce
Lead @ _____ per pound
Zinc @ _____ per pound

Ore listed above gave assay results as shown

George H. Treder ASSAYER

CHARGES

$ _____