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

DEC 18 1956

Mr. Glenn E. Northway, President
Eagle Copper Corporation
5525 Wilshire Boulevard
Los Angeles 26, California

Re: Docket No. DMEA-452 (Copper)
Eagle Copper Corporation
The New Yorker Group of Claims
Yuma County, Arizona

Dear Mr. Northway:

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

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

Careful study of all our information, although noting a small amount of copper mineralization on your lease, indicates to us that the probability of disclosing significant ore reserves 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 Mineral Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

WPKlugescheid/er 12/14/56
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Region III (2)
Chron.

R.C.G.

File Copy
Surname
Klugescheid.
Bishop

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

December 14, 1956

Memorandum

To: The Administrator

From: Chief, Base Metals Division

Subject: Denial of Application, Docket No. DMEA-4452 (Copper), Eagle Copper Corporation, The New Yorker Group of Claims, Yuma County, Arizona

The cited application, dated August 30, 1956 was received in this office September 5.

The Applicant proposed to explore for a disseminated ore body which he believed to be of considerable size and to exist under the capping. This was to be done by 5,000 feet of diamond drilling. This amount of work was thought to be sufficient to either prove or disprove the presence of sufficient ore. If the program proved promising, more help would have been requested. The estimated cost of the work was $52,479.00.

This property is part of a group of claims formerly controlled by the Harqua Hala Minerals Corporation (DMEA-3379) which was examined in October-November 1954 and the application denied. Little work has been done since that time. The Applicant did, however, drill six EX drill holes, the cores of which were logged by J. N. Faick of the Geological Survey.

Most of the area included within the limits of the New Yorker claims is underlain with a coarse-grained, slightly porphyritic, intrusive igneous rock classified in the field as a quartz monzonite. In most of the area the quartz monzonite is exposed at the surface. The monzonite in places is weakly mineralized with malachite and azurite, and it has been prospected to a considerable extent for copper ores by three shallow shafts and numerous pits and trenches. The zone prospected is about 1,800 feet long and about 200 feet wide, but only the southern part of it is mineralized.

There is little evidence of primary mineralization; however, a little pyrite was seen in a few of the dumps and siderite was observed in some of the diamond drill core. The copper is most abundant within a few feet of the surface. The deepest copper staining noted was about 200 feet below the surface in drill hole No. 3.

The assay results of the diamond drill cores are as follows:

Drill Hole No.	Depth-Feet	Max. Silver Content Oz./Ton	Max. per cent Copper
1.	200	0.98	Trace
2.	226	1.02	0.10
3.	330	0.62	0.20
4.	100	0.91	0.10
5.	70	1.14	0.60
6.	60	1.06	0.70

No part of hole No. 1 contained more than a trace of copper. The remainder of the holes were barren in depth. The results in the above table are maximum results and not average results for a sampled section of hole.

Inspection of the property and the drilling results show that only extremely low-grade copper ores in comparatively small amounts exist on this property. Most of the copper is in the form of secondary minerals concentrated within a few feet of the surface, and the drilling indicates that the amount of copper diminishes with increasing depth.

We concur with the recommendations of the examiner, the Field Team, and the commodity members of the Bureau of Mines and the Geological Survey that the application be denied.

W. R. Griswold

W. R. Griswold

WPKlugescheid/er
Copy to: Docket
Base Metals
Chron.

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

December 12, 1956

Memorandum

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

From: Assistant Chief, Branch of Base Metals

Subject: Review of Field Team (Geologic) examination report, Docket No. DMEA 4452 (copper), Eagle Copper Corp., New Yorker Group of Claims, Yuma County, Arizona. $52,479.00

The applicant proposed to explore the property for copper mineralization by 5,000 feet of diamond drilling at an estimated total cost of $52,479.00.

Examination of the property and analyses of drill cores disclosed that the copper is weak and not extensive. The examiner believes that copper does not exist in mineable quantities.

I agree with the recommendation of the Field Team that the application for DMEA assistance to explore the New Yorker Group of Claims be denied.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
F i l e s

RECEIVED
DEC 12 1956
D.M.E.A.

December 12, 1956

Memorandum

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

From: Assistant Chief, Branch of Base Metals

Subject: Review of Field Team (Geologic) examination report, Docket No. DMEA 4452 (copper), Eagle Copper Corp., New Yorker Group of Claims, Yuma County, Arizona. $52,479.00

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J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
F i l e s

RECEIVED
DEC 12 1956
D.M.E.A.

IN REPLY REFER TO:

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

RECEIVED
DEC 12 1956

December 10, 1956

Re: DMEA 4452
Eagle Copper Corp.
New Yorker Group
Yuma Co. Arizona
$52,479 - Copper

Memorandum

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

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

Subject: Review of Field Team Report.

The applicant requested assistance in further drilling a zone showing, at surface "oxide" copper minerals, azurite and malachite.

The property was the subject of application #3379 and was thoroughly examined by field men. The application was denied.

A new group, the present applicant took over the property, and drilled six diamond drill holes. The cores were examined by the geologist examiner and he concluded the low grade near surface copper mineralization decreases with depth and other drilling is not warranted. He and the Field Team recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

December 10, 1956

Re: DMEA 4452
Eagle Copper Corp.
New Yorker Group
Yuma Co. Arizona
$52,479 - Copper

Memorandum

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

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

Subject: Review of Field Team Report.

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A new group, the present applicant took over the property, and drilled six diamond drill holes. The cores were examined by the geologist examiner and he concluded the low grade near surface copper mineralization decreases with depth and other drilling is not warranted. He and the Field Team recommend that the application be denied.

I concur with the recommendation.

NENelson:btr
G 12/10/56

N. E. Nelson

N. E. Nelson

cc: J. W. Pennington, 3623
Director's reading file (4212)
Branch reading file (4212)
DMEA (3)
Chron. file
Docket file

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

RECEIVED DEC 3 1956 D.M.E.A.

224 New Customhouse
Denver 2, Colorado

November 30, 1956

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Geologic Report of Examination Docket DMEA 4452 (Copper)
Eagle Copper Corporation(The New Yorker Group of Claims)
Yuma County, Arizona

Enclosed are the original and three copies of the Geologic Report of Examination on the subject application, by J. N. Faick, Geologist, USGS, and its transmittal by W. L. Emerick, through E. N. Harshman, Member Region III Field Team. The Bureau of Mines did not participate in this examination because the property was previously examined and a comprehensive joint report submitted, under Docket DMEA 3379, and there has been no significant change as a result of additional work since that time.

The Geologist Examiner found that the property shows only extremely low-grade copper ore in small amounts and that the copper is in the form of secondary minerals concentrated within a few feet of the surface, with drilling indicating the amount of copper diminishing in depth. He does not anticipate the discovery of significant copper ore in minable amounts by the Applicant's proposed exploration, and he recommends denial of the application. The Field Team concurs with the recommendation.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
12-7-56
(date)

DMEA
DEPARTMENT OF THE INTERIOR
NOV 29 1956
REGION III
DENVER, COLORADO

MINERAL DEPOSITS
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NOV 28 1956

U.S. GEOLOGICAL SURVEY
DENVER, COLORADO
RECEIVED
DEC 3 1956
D.M.E.A.

Box 4126 University Station
Tucson, Arizona

TRANSMITTED
NOV 30 1956

November 26, 1956

MEMORANDUM

To: Executive Officer, DMEA Field Team Region III

From: W. L. Emerick Through: E. N. Harshman

Subject: Docket DMEA-4452 (Copper) Eagle Copper Corporation, (The New Yorker Group of Claims), Yuma County, Arizona

Enclosed are the original and 9 copies of a report by John N. Faick of a field examination of the New Yorker Group of Claims, Yuma County, Arizona. Evidence of significant amounts of ore could not be found; therefore it is recommended that the application be denied.

This property was previously examined and reported upon with U. S. Bureau of Mines participation, as DMEA-3379. There has been no significant change in the property since it was first examined; therefore, another examination by a Bureau engineer would not be required.

W L Emerick
W. L. Emerick

WLE:ms

cc.: Executive Officer (9)
Storms
Emerick

Reviewed by
DMEA OPERATING COMMITTEE
12-7-56
(date)

FOR UNITED STATES GOVERNMENT USE ONLY

TRANSMITTED

NOV 30 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED DEC 3 1956 D.M.E.A.

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-4452 (Copper), Eagle Copper Corporation

(The New Yorker Group of Claims)

Yuma County, Arizona

J. N. Faick, Geologist
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
12-7-56
(date)

November 26, 1956

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DMEA

DMEA-4452 (COPPER), EAGLE COPPER CORPORATION

(THE NEW YORKER GROUP OF CLAIMS)

YUMA COUNTY, ARIZONA

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Conclusions and Recommendations	7

ILLUSTRATIONS

Fig. 1 - Main Workings, New Yorker Claims---Folder on back cover

RECEIVED
DEC 3 1956
D.M.E.A.

INTRODUCTION

In October 1956 an application was submitted to the Defense Minerals Exploration Administration for Government participation in exploration of part of the New Yorker group of claims, situated in the Ellsworth District in Yuma County, about 9 miles by road south of Salome, Arizona. The application was submitted by the Eagle Copper Corporation, 5525 Wilshire Blvd., Los Angeles 36, California, of which Glen E. Northway is president, and L. Thoral Lake is vice-president and secretary.

The property of the Eagle Copper Corporation consists of 19 unpatented mining claims leased for 5 years with rights of renewal from the Harqua Hala Minerals Corporation. Of these claims only 11 are included in the application for exploration assistance. These claims are New Yorker 1 to 4, and 7 to 10, inclusive; the Big Al No. 1, the Bashor No. 1, and the Nelson No. 1. The claims are referred to as the New Yorker group.

The property was examined November 8, 1956 by the writer, accompanied by Mr. Northway and by Frank R. Wicks, Consulting Engineer. The property is part of a group of claims formerly controlled by the Harqua Hala Minerals Corp. (DMEA 3379) which in October-November 1954 was thoroughly investigated by Leonid Bryner and J. N. Faick, of the U. S. Geological Survey, and by T. M. Romslo, of the U. S. Bureau of Mines. The first exploration proposals were denied by DMEA and denial of the new application is being recommended.

As the property had been examined in 1954, and little work was done since that time, the report which follows will be of a summary nature and will concern itself primarily with the new data recently made available. For additional details the reader is referred to the comprehensive report submitted by Leonid Bryner and T. M. Romslo in 1954.

GEOLOGY

Most of the area included within the limits of the New Yorker claims is underlain with a coarse-grained, slightly porphyritic intrusive igneous rock, locally referred to as granite, but which is classified in the field as quartz monzonite. In most of the area the quartz monzonite is exposed at the surface, but in some places it is concealed by a thin veneer of residual debris. Small arroyos on or near the property contain shallow transported gravel, which in places is firmly cemented by caliche.

The monzonite in places is weakly mineralized with malachite and azurite, and it has been prospected to a considerable extent for copper ores, by three shallow shafts and numerous pits and trenches. The deepest shaft, which is unsafe to enter, is said to be 85 feet deep. A short drift was driven from it on the 40-foot level. Northway and Lake recently completed drilling ~~4~~ 6 EX size drill holes totaling about 1,000 feet. Most of these workings and the drill holes are shown on Fig. 1.

The zone prospected is about 1,800 feet long and a couple hundred feet wide; however, only the southern part of it is mineralized. Copper stains and trace amounts of malachite, azurite and chrysocola and limonite are present in about half of the workings. There is little evidence of primary mineralization; however a little pyrite was seen in a few of the dumps, and siderite was observed in some of the diamond drill core.

In the southern part of the area the monzonite is slightly fractured, and most of the mineralization apparently took place near the fractures. All of the copper appears to be of secondary origin and is most abundant within a few feet of the surface. The deepest copper staining noted by the writer was about 200 feet below the surface as revealed by drill hole No. 3.

~~Four~~ Six EX drill holes were drilled, the cores of which were logged by the writer. Hole No. 4 was drilled north at -45°, the other 5 holes are vertical. Logs of the core follow:

Hole No.	Interval	Remarks
1	1-86	Quartz monzonite, poor core; 17 ft. recovered.
	86-200 (Bott.)	Quartz monzonite, poor core; 22 ft. recovered. About 5% limonite in thin irregular stringers. Limonite probably derived by weathering of siderite.

Hole No.	Interval	Remarks
2	1-80	Quartz monzonite. Disseminated pyrite altered to limonite at 17-18 ft. and 43-48 ft. Monzonite slightly altered to about 80 ft.
	80-114	Unaltered monzonite. Siderite vein 1/4" wide from 92 to 93 ft.
	114-147	Core slightly sheared and iron stained 142-145.
	147-226 (Bott.)	Scattered thin stringers of limonite probably derived from siderite. Monzonite is fresh but slightly shattered.
3	0-57	Quartz monzonite. Traces of limonite and supergene copper minerals.
	57-80	Q. Monzonite containing a few thin veinlets of limonite.
	80-152	Q. Monzonite. Core lost at 108-9; possible fault.
	152-163	Poor core. Iron and Manganese stain on fractures.
	163-172	No core. Fault.
	172-190	Q. Monzonite; poor core.
	190-195	Massive, dark gray Q. Monzonite.
	195-214	Slightly mineralized Q. Monzonite. Iron and Manganese Oxide and Jasper at 204-205. Chrysocola and Jasper disseminated and in tight fractures at 212-214.
	214-290	Q. Monzonite.
	290-330 (Bott.)	Q. Monzonite, poor core. Slightly brecciated. Not mineralized.
4	0-50	Q. Monzonite. 25% core recovery.
	50-100 (Bott.)	Barren Q. Monzonite.
5	0-50	Q. Monzonite, unaltered.
	50-70 (Bott.)	Slightly altered, gray quartz monzonite.
6	0-25	Q. Monzonite. Fractured and weathered.
	25-37	Unaltered Q. Monzonite.
	37-60 (Bott.)	Slightly altered Q. monzonite. Brecciated and barren.

As noted in the above logs, the cores of the six holes drilled on the applicant's property do not reveal significant amounts of mineralization, alteration or ground preparation. Apparently the dominant primary minerals are siderite and pyrite, both of which occur in minute amounts. All of the copper minerals seen by the writer are of supergene origin and are most abundant within a few feet of the surface, and, as revealed by the drill cores, the quantity decreases with increasing depth.

SAMPLES AND ANALYSES

Mr. Wicks provided the writer with certificates showing the results of two qualitative spectrographic analyses of specimens and assays of 35 core or sledge samples from the drill holes. None of these revealed the presence of any elements in significant quantities. The samples contain traces of gold ranging from nil to 0.14 ounces per ton. They also contain small amounts of silver and copper, as shown below:

Description	Ounces Silver	Percent Copper
Hole No. 1 76- 85 feet	0.98	Trace
" " 1 86-101 ft., sludge	0.86	Trace
" " 1 186-200 ft., sludge	0.92	Trace
" " 1 196-200 ft.	0.94	Trace
Hole No. 2 43-48 ft.	1.02	0.10
Hole No. 3 20 ft.	0.48	0.10
" " 3 220 ft.	0.62	0.20
Hole No. 4 30 ft.	0.91	0.10
" " 4 86 ft.	0.62	trace

Description	Ounces Silver	Percent Copper
Hole No. 5 15 ft.	0.98	0.3
" " 5 15-20 ft.	0.88	0.1
" " 5 20 ft.	0.94	0.2
" " 5 25 ft.	0.90	0.1
" " 5 30 ft.	1.06	0.6
" " 5 35 ft.	1.14	0.4
" " 5 40 ft.	0.91	0.5
" " 5 45 ft.	0.66	0.2
" " 5 50 ft.	1.01	0.3
" " 5 60 ft.	0.74	0.1
" " 5 60-70 ft.	0.98	Trace
Hole No. 6 5 ft.	0.91	0.2
" " 6 5-10 ft.	0.58	Trace
" " 6 10-15 ft.	0.70	"
" " 6 0-15 ft.	0.86	"
" " 6 15-20 ft.	0.92	0.10
" " 6 15-25 ft.	0.88	0.20
" " 6 20-25 ft.	0.93	0.40
" " 6 25-28 ft.	1.06	0.70
" " 6 28 ft.	1.04	0.40
" " 6 25-35 ft.	0.94	0.30
" " 6 31-35 ft.	1.02	0.30
" " 6 35-40 ft.	0.72	Trace
" " 6 35-45 ft.	0.95	0.40
" " 6 40-45 ft.	0.92	0.10
" " 6 45-50 ft.	0.68	Trace

In addition to the above samples from the diamond drill holes the applicant obtained a sample from a small pit in an arroyo near the southeast corner of the New Yorker No. 1 claim. This sample contained 1.32 ounces of silver and 4.46 percent of copper. This represents a high-grade secondary concentration of malachite and azurite in gravels cemented with caliche. The sample is not typical and the remaining material contains only minor traces of copper. In connection with the previous application the Harqua Hala Minerals Corporation

submitted results of samples of four dumps from the main workings on the New Yorker group. The numerical average of these samples is 0.6 ounces of silver and 0.38 percent copper. These assays represent the more highly mineralized parts of the New Yorker group and are not characteristic of the property.

APPLICANT'S PROPOSED EXPLORATION

The applicant proposes to explore the area for a disseminated copper ore body of considerable size. Diamond drilling to the extent of 5,000 feet was requested in order to prove or disprove the existance of such an ore body. The cost of the drilling is $33,000, as established by Boyles Brothers bid of $6.60 per foot for AX core. Other costs to be charged to the proposed project bring its total to $52,479.00.

CONCLUSIONS AND RECOMMENDATIONS

Inspection of the New Yorker property and cores of holes drilled thereon, and the sample analyses provided by the applicant show that only extremely low-grade copper ores in comparatively small amounts exist on the New Yorker property. Most of the copper is in the form of secondary minerals concentrated within several feet of the surface and drilling indicates that the amount of copper diminishes with increasing depth. Most of the copper appears to be concentrated in a relatively small area on the north half of the New Yorker No. 1 claim. The copper does not exist in minable amounts; therefore it is recommended that the application be denied.

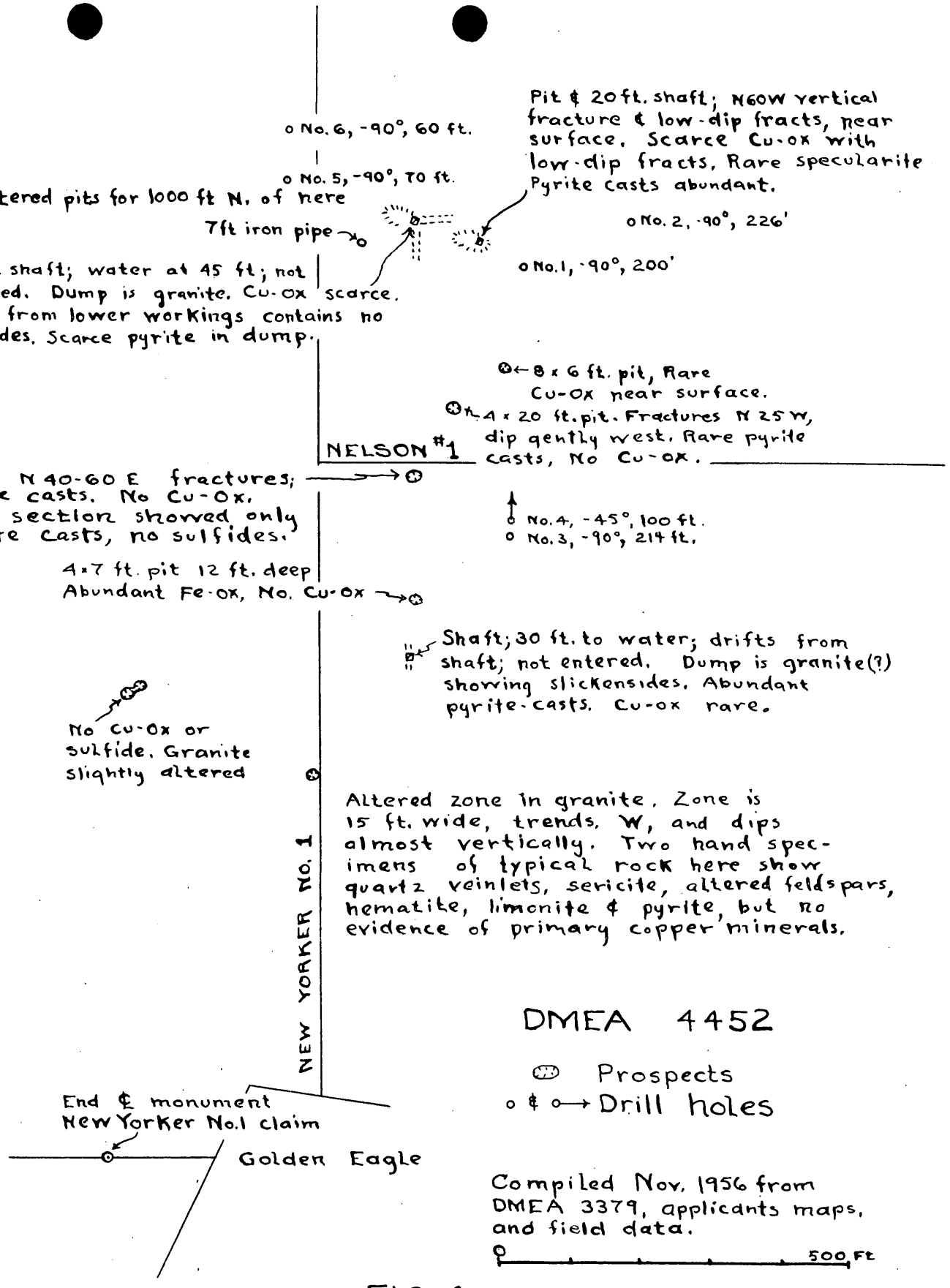

FIG. 1

MAIN WORKINGS, NEW YORKER CLAIMS
YUMA COUNTY, ARIZONA

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D.M.E.A.

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

224 New Customhouse
Denver 2, Colorado

November 30, 1956

RECEIVED DEC 3 1956 DMEA

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Geologic Report of Examination Docket DMEA 4452 (Copper)
Eagle Copper Corporation (The New Yorker Group of Claims)
Yuma County, Arizona

Enclosed are the original and three copies of the Geologic Report of Examination on the subject application, by J. N. Faick, Geologist, USGS, and its transmittal by W. L. Emerick, through E. N. Harshman, Member Region III Field Team. The Bureau of Mines did not participate in this examination because the property was previously examined and a comprehensive joint report submitted, under Docket DMEA 3379, and there has been no significant change as a result of additional work since that time.

The Geologist Examiner found that the property shows only extremely low-grade copper ore in small amounts and that the copper is in the form of secondary minerals concentrated within a few feet of the surface, with drilling indicating the amount of copper diminishing in depth. He does not anticipate the discovery of significant copper ore in minable amounts by the Applicant's proposed exploration, and he recommends denial of the application. The Field Team concurs with the recommendation.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosures
WMT:ytl
cc
Sec. Op. Comm. (4) (w/ report and tr. ltr.)
Docket 4452 (" " "
Harshman (" " "
Storms (" " "
~~Faick~~ EMERICK (" " "
Mining Division (" " "
Chron. (" " "

Reviewed by
DMEA OPERATING COMMITTEE
12/7/56
(date)

DMEA
DEPARTMENT OF THE INTERIOR

NOV 29 1956

REGION III
DENVER, COLORADO
Box 4125 University Station
Tucson, Arizona

TRANSMITTED
NOV 30 1956

MINERAL DEPOSITS
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NOV 28 1956
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

RECEIVED
DEC 3 1956
DMEA

November 26, 1956

MEMORANDUM

To: Executive Officer, DMEA Field Team Region III

From: W. L. Emerick Through: E. N. Harshman

Subject: Docket DMEA-4452 (Copper) Eagle Copper Corporation, (The New Yorker Group of Claims), Yuma County, Arizona

Enclosed are the original and 9 copies of a report by John N. Faick of a field examination of the New Yorker Group of Claims, Yuma County, Arizona. Evidence of significant amounts of ore could not be found; therefore it is recommended that the application be denied.

This property was previously examined and reported upon with U. S. Bureau of Mines participation, as DMEA-3379. There has been no significant change in the property since it was first examined; therefore, another examination by a Bureau engineer would not be required.

W L Emerick
W. L. Emerick

WLE:ms

cc.: Executive Officer (9)
Storms
Emerick

Reviewed by
DMEA OPERATING COMMITTEE

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TRANSMITTED
NOV 30 1956
NOV 30
NOV 30 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-4452 (Copper), Eagle Copper Corporation

(The New Yorker Group of Claims)

Yuma County, Arizona

J. N. Faick, Geologist
U. S. Geological Survey

November 26, 1956

Reviewed by
DMEA OPERATING COMMITTEE
(8810)

RECEIVED
DEC 3 1956
D.M.E.A.

DMEA-4452 (COPPER), EAGLE COPPER CORPORATION

(THE NEW YORKER GROUP OF CLAIMS)

YUMA COUNTY, ARIZONA

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ILLUSTRATIONS

Fig. 1 - Main Workings, New Yorker Claims---Folder on back cover

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D.M.E.A.

INTRODUCTION

In October 1956 an application was submitted to the Defense Minerals Exploration Administration for Government participation in exploration of part of the New Yorker group of claims, situated in the Ellsworth District in Yuma County, about 9 miles by road south of Salome, Arizona. The application was submitted by the Eagle Copper Corporation, 5525 Wilshire Blvd., Los Angeles 36, California, of which Glen E. Northway is president, and L. Thoral Lake is vice-president and secretary.

The property of the Eagle Copper Corporation consists of 19 unpatented mining claims leased for 5 years with rights of renewal from the Harqua Hala Minerals Corporation. Of these claims only 11 are included in the application for exploration assistance. These claims are New Yorker 1 to 4, and 7 to 10, inclusive; the Big Al No. 1, the Bashor No. 1, and the Nelson No. 1. The claims are referred to as the New Yorker group.

The property was examined November 8, 1956 by the writer, accompanied by Mr. Northway and by Frank R. Wicks, Consulting Engineer. The property is part of a group of claims formerly controlled by the Harqua Hala Minerals Corp. (DMEA 3379) which in October-November 1954 was thoroughly investigated by Leonid Bryner and J. N. Faick, of the U. S. Geological Survey, and by T. M. Romslo, of the U. S. Bureau of Mines. The first exploration proposals were denied by DMEA and denial of the new application is being recommended.

As the property had been examined in 1954, and little work was done since that time, the report which follows will be of a summary nature and will concern itself primarily with the new data recently made available. For additional details the reader is referred to the comprehensive report submitted by Leonid Bryner and T. M. Romslo in 1954.

GEOLOGY

Most of the area included within the limits of the New Yorker claims is underlain with a coarse-grained, slightly porphyritic intrusive igneous rock, locally referred to as granite, but which is classified in the field as quartz monzonite. In most of the area the quartz monzonite is exposed at the surface, but in some places it is concealed by a thin veneer of residual debris. Small arroyos on or near the property contain shallow transported gravel, which in places is firmly cemented by caliche.

The monzonite in places is weakly mineralized with malachite and azurite, and it has been prospected to a considerable extent for copper ores, by three shallow shafts and numerous pits and trenches. The deepest shaft, which is unsafe to enter, is said to be 85 feet deep. A short drift was driven from it on the 40-foot level. Northway and Lake recently completed drilling ~~4~~ 6 EX size drill holes totaling about 1,000 feet. Most of these workings and the drill holes are shown on Fig. 1.

The zone prospected is about 1,800 feet long and a couple hundred feet wide; however, only the southern part of it is mineralized. Copper stains and trace amounts of malachite, azurite and chrysocola and limonite are present in about half of the workings. There is little evidence of primary mineralization; however a little pyrite was seen in a few of the dumps, and siderite was observed in some of the diamond drill core.

In the southern part of the area the monzonite is slightly fractured, and most of the mineralization apparently took place near the fractures. All of the copper appears to be of secondary origin and is most abundant within a few feet of the surface. The deepest copper staining noted by the writer was about 200 feet below the surface as revealed by drill hole No. 3.

Six ~~Four~~ EX drill holes were drilled, the cores of which were logged by the writer. Hole No. 4 was drilled north at -45°, the other 5 holes are vertical. Logs of the core follow:

Hole No.	Interval	Remarks
1	1-86	Quartz monzonite, poor core; 17 ft. recovered.
	86-200 (Bott.)	Quartz monzonite, poor core; 22 ft. recovered. About 5% limonite in thin irregular stringers. Limonite probably derived by weathering of siderite.

Hole No.	Interval	Remarks
2	1-80	Quartz monzonite. Disseminated pyrite altered to limonite at 17-18 ft. and 43-48 ft. Monzonite slightly altered to about 80 ft.
	80-114	Unaltered monzonite. Siderite vein 1/4" wide from 92 to 93 ft.
	114-147	Core slightly sheared and iron stained 142-145.
	147-226 (Bott.)	Scattered thin stringers of limonite probably derived from siderite. Monzonite is fresh but slightly shattered.
3	0-57	Quartz monzonite. Traces of limonite and supergene copper minerals.
	57-80	Q. Monzonite containing a few thin veinlets of limonite.
	80-152	Q. Monzonite. Core lost at 108-9; possible fault.
	152-163	Poor core. Iron and Manganese stain on fractures.
	163-172	No core. Fault.
	172-190	Q. Monzonite; poor core.
	190-195	Massive, dark gray Q. Monzonite.
	195-214	Slightly mineralized Q. Monzonite. Iron and Manganese Oxide and Jasper at 204-205. Chrysocola and Jasper disseminated and in tight fractures at 212-214.
	214-290	Q. Monzonite.
	290-330 (Bott.)	Q. Monzonite, poor core. Slightly brecciated. Not mineralized.
4	0-50	Q. Monzonite. 25% core recovery.
	50-100 (Bott.)	Barren Q. Monzonite.
5	0-50	Q. Monzonite, unaltered.
	50-70 (Bott.)	Slightly altered, gray quartz monzonite.
6	0-25	Q. Monzonite. Fractured and weathered.
	25-37	Unaltered Q. Monzonite.
	37-60 (Bott.)	Slightly altered Q. monzonite. Brecciated and barren.

As noted in the above logs, the cores of the six holes drilled on the applicant's property do not reveal significant amounts of mineralization, alteration or ground preparation. Apparently the dominant primary minerals are siderite and pyrite, both of which occur in minute amounts. All of the copper minerals seen by the writer are of supergene origin and are most abundant within a few feet of the surface, and, as revealed by the drill cores, the quantity decreases with increasing depth.

SAMPLES AND ANALYSES

Mr. Wicks provided the writer with certificates showing the results of two qualitative spectrographic analyses of specimens and assays of 35 core or sledge samples from the drill holes. None of these revealed the presence of any elements in significant quantities. The samples contain traces of gold ranging from nil to 0.14 ounces per ton. They also contain small amounts of silver and copper, as shown below:

Description	Ounces Silver	Percent Copper
Hole No. 1 76- 85 feet	0.98	Trace
" " 1 86-101 ft., sludge	0.86	Trace
" " 1 186-200 ft., sludge	0.92	Trace
" " 1 196-200 ft.	0.94	Trace
Hole No. 2 43-48 ft.	1.02	0.10
Hole No. 3 20 ft.	0.48	0.10
" " 3 220 ft.	0.62	0.20
Hole No. 4 30 ft.	0.91	0.10
" " 4 86 ft.	0.62	Trace

Description	Ounces Silver	Percent Copper
Hole No. 5 15 ft.	0.98	0.3
" " 5 15-20 ft.	0.88	0.1
" " 5 20 ft.	0.94	0.2
" " 5 25 ft.	0.90	0.1
" " 5 30 ft.	1.06	0.6
" " 5 35 ft.	1.14	0.4
" " 5 40 ft.	0.91	0.5
" " 5 45 ft.	0.66	0.2
" " 5 50 ft.	1.01	0.3
" " 5 60 ft.	0.74	0.1
" " 5 60-70 ft.	0.98	Trace
Hole No. 6 5 ft.	0.91	0.2
" " 6 5-10 ft.	0.58	Trace
" " 6 10-15 ft.	0.70	"
" " 6 0-15 ft.	0.86	"
" " 6 15-20 ft.	0.92	0.10
" " 6 15-25 ft.	0.88	0.20
" " 6 20-25 ft.	0.93	0.40
" " 6 25-28 ft.	1.06	0.70
" " 6 28 ft.	1.04	0.40
" " 6 25-35 ft.	0.94	0.30
" " 6 31-35 ft.	1.02	0.30
" " 6 35-40 ft.	0.72	Trace
" " 6 35-45 ft.	0.95	0.40
" " 6 40-45 ft.	0.92	0.10
" " 6 45-50 ft.	0.68	Trace

In addition to the above samples from the diamond drill holes the applicant obtained a sample from a small pit in an arroyo near the southeast corner of the New Yorker No. 1 claim. This sample contained 1.32 ounces of silver and 4.46 percent of copper. This represents a high-grade secondary concentration of malachite and azurite in gravels cemented with caliche. The sample is not typical and the remaining material contains only minor traces of copper. In connection with the previous application the Harqua Hala Minerals Corporation

submitted results of samples of four dumps from the main workings on the New Yorker group. The numerical average of these samples is 0.6 ounces of silver and 0.38 percent copper. These assays represent the more highly mineralized parts of the New Yorker group and are not characteristic of the property.

APPLICANT'S PROPOSED EXPLORATION

The applicant proposes to explore the area for a disseminated copper ore body of considerable size. Diamond drilling to the extent of 5,000 feet was requested in order to prove or disprove the existance of such an ore body. The cost of the drilling is $33,000, as established by Boyles Brothers bid of $6.60 per foot for AX core. Other costs to be charged to the proposed project bring its total to $52,479.00.

CONCLUSIONS AND RECOMMENDATIONS

Inspection of the New Yorker property and cores of holes drilled thereon, and the sample analyses provided by the applicant show that only extremely low-grade copper ores in comparatively small amounts exist on the New Yorker property. Most of the copper is in the form of secondary minerals concentrated within several feet of the surface and drilling indicates that the amount of copper diminishes with increasing depth. Most of the copper appears to be concentrated in a relatively small area on the north half of the New Yorker No. 1 claim. The copper does not exist in minable amounts; therefore it is recommended that the application be denied.

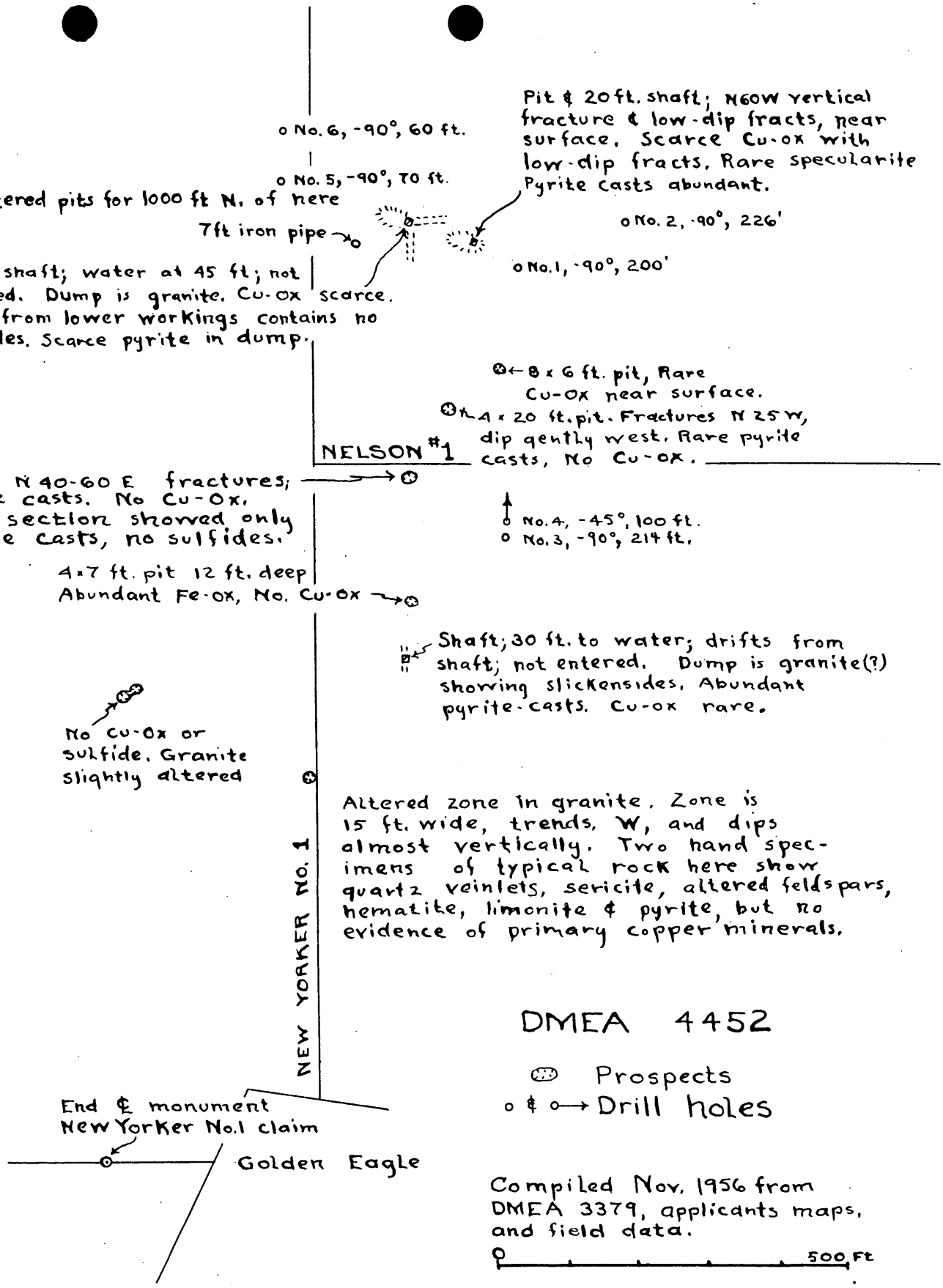

FIG. 1
MAIN WORKINGS, NEW YORKER CLAIMS
YUMA COUNTY, ARIZONA

RECEIVED
DEC 3 1956
D.M.E.A.

RECEIVED
OCT - 1 1956

224 New Customhouse
Denver 2, Colorado

September 25, 1956

Docket
Flagpocked
Tally

Memorandum

To: Messrs. Shaw (2)
and Emerick

From: DMEA Field Team, Region III

Subject: Docket DMEA 4452 (Copper) Eagle Copper Corporation (The New Yorker Group of Claims) Yuma County, Arizona

Enclosed is the subject application in the amount of $52,479. A field examination and suitable report are requested.

Enclosed for your further information is a copy of a letter from the Chairman of the Operating Committee, dated September 20, 1956, together with memoranda of review of the application by J. W. Pennington, and H. E. Nelson.

Please note that if a project is favorably considered by the field examiners, three bids for drilling must be submitted by the Applicant.

Will you please return the brochure with the report of examination.

W. M. TRAVER

W. M. Traver
By Executive Officer

Enclosures

EMC:ytl

cc: Sec. of Opp. Comm. (2)
Docket
Chron.

RECEIVED
OCT - 1 1956

September 26, 1956

Memorandum

To: W. R. Storms

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4452 (Copper) Eagle Copper Corporation (The New Yorker Group of Claims) Yuma County, Arizona

Enclosed please find the application for Eagle Copper Corporation, Docket DMEA 4452, in the amount of $52,479.

A field examination and suitable report are required. The completed report should be forwarded directly to the Executive Officer with a copy of the memorandum of transmittal to this office.

A. S. Konselman, for
W. H. King

Enclosure

cc: W. M. Traver (3)
E. N. Harshman
W. L. Emerick
Sec. Op. Com. (2)

File Copy
Surname
Klugescheid
Selfridge
Yopes

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

500

SEP 20 1956

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

Re: Docket No. DMEA-4452 (Copper)
Eagle Copper Corporation
The New Yorker Group of Claims
Yuma County, Arizona

Dear Mr. Traver:

The cited application for exploration assistance is being referred to your office for consideration, a field examination of the property if warranted, and recommendations.

If the project is favorably considered by the Field Team, three bids must be submitted for the diamond drilling.

The Applicant quotes a bid by Boyles Bros. Drilling Co. but the complete bid was not included with the application.

Drilling in a deposit of this alleged type is ordinarily done with churn drills as core recovery, especially near the surface, is generally very poor.

Copies of memoranda dated September 7 and 10, 1956, by J. W. Pennington, Bureau of Mines, and N. E. Nelson, Geological Survey, respectively, relating to the project are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

WPKlugescheid/er 9/18/56

Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Kiilsgaard, USGS
Mr. Pennington, USBM
Chron.

APPROVED:

P. F. Yopes

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

File Copy
Surname
Klugescheid, Lisowski
Yager
Kiilsgaard
Selfridge
Lehman

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

SEP 2 0 1956

Mr. Glenn E. Northway, President
Eagle Copper Corporation
5525 Wilshire Boulevard
Los Angeles 36, California

Re: Docket No. DMEA-4452 (Copper)
Eagle Copper Corporation
The New Yorker Group of Claims
Yuma County, Arizona

Dear Mr. Northway:

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

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

If the Field Team requires additional information concerning your application, they will contact you at an early date.

Sincerely yours

C. O. Mittendorf

Administrator

WPKlugescheid/er 9/18/56
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Region III (2)
Chron.

R.S.L.

IN REPLY REFER TO:

Kleoge

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

RECEIVED
SEP 11 1956

September 10, 1956

Re: DMEA 4452
Eagle Copper Corp.
New Yorker Group
Yuma County, Arizona
$52,479.00 - Copper

Memorandum

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

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

Subject: Review of application.

The applicant requests assistance in exploring, by 5,000 feet of core drilling, what appears to be a portion of an old crater. The applicant has done 1,000 feet of drilling and proposes to continue the search for a disseminated ore body.

Nominal values in copper were found in the holes to a depth of 200 feet below which drilling was difficult. The proposed work would continue some of the holes and drill new ones as in the opinion of the consultant better material may exist at greater depths. The meagre data concerning surface and near surface copper mineralization do not lend much support to the opinion, but an examination, especially of the drill cores, appears to be warranted.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
SEP 11 1956

September 10, 1956

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New Yorker Group
Yuma County, Arizona
$52,479.00 - Copper

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Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-9/10/56

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. W. Pennington, 3623

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

RECEIVED
SEP 10 1956

Date September 7, 1956

DMEA Docket No. 4452
DMEA Contract No.
Commodity Copper
Name of applicant Eagle Copper Corp.
Name of property New Yorker Group Claims
Location of property Yuma County, Arizona
Estimated cost of project $52,479.00

Memorandum

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

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

Subject: Review of application
(Application, Field Team Report, etc.)

1. Date of subject document: 9/4/56. 2. Date received by reviewer: 9/5/56.

3. Prior reports on this property known to reviewer: Yes [ ], No [x].

4. Prior reports on nearby properties known to reviewer: Yes [x], No [ ].

5. Information available on past production: Yes [ ], No [x].

6. Other pertinent factors known to reviewer: Yes [ ], No [x].

7. Explain items marked yes above: Report available on Harqua Hala or Bonanza mine which is about one mile south of New Yorker Group Claims. Also report on Harqua Hala property which may be same as New Yorker Group as it is stated in engineer's report that Harqua Hala Minerals Corp. was connected with property.

8. Factors needing special consideration:
   a. Location [ ]
   b. Ownership [ ]
   c. Evidence of mineralization [ ]
   d. Geology [ ]
   e. Proposed exploration method [ ]
   f. Alternate exploration method [ ]
   g. Costs [ ]
   h. _____ [ ]

9. Action advised:
   a. Obtain information from applicant [ ]
   b. Refer to Field Team [x]
   c. Denial [ ]
   d. Agree with Field Team [ ]
   e. Disagree with Field Team [ ]
   f. Suggest alternate plan [ ]
   g. Request another examination [ ]
   h. Approval [ ]
   i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary)

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

RECEIVED
SEP 10 1956

Date September 7, 1956

DMEA Docket No. 4452
DMEA Contract No.
Commodity Copper
Name of applicant Eagle Copper Corp.
Name of property New Yorker Group Claims
Location of property Yuma County, Arizona
Estimated cost of project $52,479.00

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

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(Application, Field Team Report, etc.)

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   d. Agree with Field Team [ ]
   e. Disagree with Field Team [ ]
   f. Suggest alternate plan [ ]
   g. Request another examination [ ]
   h. Approval [ ]
   i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary)

September 5, 1956

Eagle Copper Corp.
Mr. Glenn E. Northway
5525 Wilshire Blvd.
Los Angeles 36, California

Subject: DMEA-4452
Re: Exploration Assistance
New Yorker Group

Dear Mr. Northway

The receipt of your application dated August 30, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4452 and referred to the Base Metals Division.

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

Sincerely yours,

Allen S. Dakan
~~Robert E. Adams~~ Chief
Operations Control and
Statistics Division

September 5, 1956

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
-4452 Eagle Copper Corp.
New Yorker Group

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

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

RECEIVED
SEP - 4 1956

August 31, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Application for DMEA Aid (Copper) Eagle Copper Corporation, (New Yorker group) Yuma County, Arizona

Enclosed are three copies of the subject application in the amount of $52,479.00.

The Applicant's proposed exploration consists of diamond drilling, and he quotes one bid price of $6.60 per foot.

One copy of the application is being retained in our file.

DMEA Field Team, Region III

W.M. Traver

By W. M. Traver
Executive Officer

Enclosures

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

RECEIVED
SEP - 4 1956

August 31, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Application for DMEA Aid (Copper) Eagle Copper Corporation, (New Yorker group) Yuma County, Arizona

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DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

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.

DEPARTMENT OF THE INTERIOR
RECEIVED AUG 31 1956
REGION III
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. 4452
Metal or Mineral Copper
Date Received 9-5-56
Estimated Cost $52,479
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: Eagle Copper Corporation, c/o Glenn E. Northway
5525 Wilshire Blvd., Los Angeles 36, Calif.

(*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. **See Addenda for answers to all of the following:**

(*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 See Adenda

(*b*) State any mine name by which the property is known. See Adenda

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

(*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 See Adenda

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

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.

16—66551-1

See Adenda

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 30 days and be completed within 90 days 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 and [X] 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 January 30, 1956

EAGLE COPPER CORPORATION
(Applicant)

By G. E. Nolbury, (President)
L. Thorald Lake, (Secretary)

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

Addendum Sheet No. 1
For Form MF-103
August 30, 1956

Eagle Copper Corporation
c/o Northway & Lake
5525 Wilshire Blvd.
Los Angeles 36, Calif.

1. Eagle Copper Corporation, Inc. Arizona 1956
403 Arizona Title Building, Phoenix, Arizona

1b. A Corporation. Arizona

1c. President & Treasurer: Glenn E. Northway
520 N. Las Palmas Ave., Los Angeles 4, Calif.

Vice President & Secretary: L. Thoral Lake
4223 Don Mariano Dr., Los Angeles 8, Calif.

Assistant Treasurer: William J. Oakes
9369 Loyola Blvd., Los Angeles 45, Calif.

Assistant Secretary: Dorothy Shattuck
204 Tranquilla Rd., Pacific Palisades, Calif.

1d. ————————

2. Noted

3. Applicant has a lease, five years with renewal rights on 19 claims in the Ellsworth Mining District, Yuma County, Arizona, but applicant wishes to make application for exploration aid on eleven of these lode claims only, as eight of the group are not considered important to the present project. The eleven claims applicant wishes to include in this application are New Yorker Nos. 1-2-3-4 & 7-8-9-10, and the Big Al No. 1, the Bashor No. 1 and the Nelson No. 1. Excluded in the application are the New Yorker Nos. 5-6 & 11-12-13-14-15, and the Big Al No.2. Excluded also are all claims in the Ellsworth Mining District located by the same original locator but not included in current lease. See Engineers report attached.

3b. The New Yorker Group

3c. Lessee, with no option to purchase.

3d. Copy of lease attached hereto, with copy of assignment to applicant.

3e. Applicant does not own any of the land and knows of no liens or encumbrances against the land owned by Lessor Company.

3f. See engineer's report attached hereto, page 2, for list of unpatented claims and the recording data.

4a. See engineer's report attached. Total footage of mine development work is about 500 lineal feet, comprising 40 or more test pits, shallow shafts and open cuts. No underground workings accessible except one 20 foot drift forty feet below the surface in one shaft. No work in progress now. 1,000 feet of core drilling has just been completed at the sole expense of lessee.

4b. No production. Ore reserves not calculated.

4c. See engineer's report attached; no data herewith need be returned to applicant.

Addendum Sheet No. 2
For Form MF-103
August 30, 1956

Eagle Copper Corporation
c/o Northway & Lake
5525 Wilshire Blvd.
Los angeles 36, Calif.

4d. Engineer's report gives required information. Motel accomodations at Salome, Ariz. for examiners. Applicants will furnish transportation to property on advance notice.

4e. Manpower for work in connection with drilling program available on short notice. Water and water tank truck available for drill crews.

5a. Copper ores.

5b. Present application for aid is for core drilling only. Purpose is to explore for disseminated ore body of considerable size, now believed to exist below cappings. Applicant can and will furnish necessary funds, and work to carry through a program of 5,000 feet of drill hole with DMEA aid, and it is believed that 5,000 feet of hole will be sufficient to prove or disprove. More work will be necessary later to fully develop, if and when a sizable ore body is indicated by exploration. 1,000 feet of drilling, plus test pits, have shown favorable results but not sufficient to be conclusive. 2 maps are attached hereto.

5c. Start of diamond drilling by contract can commence within 30 days, and first 5,000 feet of drilling should be completed within 90 days. Remainder of program could then be accelerated by a second crew and rig, if deemed advisable. Completion in that event, should be within six months from starting date.

5d. Proposed work to be done by a competent Diamond Drilling Co. under contract, supervised by applicant's officers L. Thoral Lake and/or Glenn E. Northway, plus engineering consultation by Frank R. Wicks. Mr. Northway has had extensive mining experience in copper and other ores dating back as far as 1915. Mr. Lake has been engaged in the mining business on and off since 1932. Both of these men are experienced in diamond core drilling procedure having just completed 1,000 feet of diamond core drilling on the subject property, as well as drilling experience in the Mojave, California area. Mr. Wicks is a prominent mining and consulting engineer.

6a.	All actual drilling under this program will be done by contract. Bid price as submitted by Boyles Bros. Drilling Co. is $6.60 per foot for AX hole. The basic price for 5,000 feet at $6.60 per foot -		$33,000.00
6b.	Attendant costs: Moving in & out, contract price -	$ 300.00	
	Hauling water from Salome, Ariz. to drill site 9 miles (including truck, tank & driver) contract price 75¢ per foot of hole. 5,000 feet at 75¢ per foot -	3,750.00	
	Supervisor-Forman for 90 days at $35.00 per day -	3,150.00	
	Engineering consultant 20 days at $100.00 per day -	2,000.00	
	Travel expense - maximum	2,000.00 ?	11,200.00
6c.	Core boxes 1 set each for 7 holes @ $180.00 per set-	1,260.00	
	Gasoline & oil for Jeep or truck @ $4.00 per day; 90 days-	360.00 ?	
	Casing pipe and hole collars where needed -	450.00	
	Cement -	100.00	2,170.00

(Continued next sheet)

Addendum Sheet No. 3
For Form MF-103
August 30, 1956

Eagle Copper Corporation
c/o Northway & Lake
5525 Wilshire Blvd.
Los Angeles 36, Calif.

6d.	Jeep or Power wagon rental 90 days @ $7.00 - per day; one or the other as needed	$ 630.00 ?	
	Sample buckets, pans, small tools for core splitting etc. -	150.00	$ 780.00
6e.	None		
6f.	One shed building containing 2 rooms. One 10X12, for core storage and tools; one 8X10 for shelter and records. -		1,200.00 ?
6g.	Accounting -	1,000.00 ?	
	Workmen's compensation, withholding, unemployment tax etc. -	500.00 ?	
	Public liability and equipment insurance -	200.00	
	Sampling and assay work $200.00 per hole -	1,400.00 How and Sample?	4,300.00
6h.	Contingencies 2% of overall estimated cost -		1,029.00 ?
	ESTIMATED TOTAL COST OF PROGRAM AS OUTLINED - - - - - - - - - - - -		$ 52,479.00

7a. Yes.

7b. Money principally. It is estimated that the rental of company equipment to the project will amount to approximately $4,000.00

Exhibit 3-d

Eagle Copper Corporation
c/o/ Northway & Lake
525 Wilshire Blvd.
Los Angeles 36, Calif.

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MINING LEASE

THIS AGREEMENT, entered into this 19th day of January, 1956, by and between Harqua Hala Minerals Corporation, an Arizona corporation organized 1953 under the laws of the State of Arizona, and having its principal place of business at 563 La Mirada Avenue, San Marino, California, hereinafter termed LESSOR, and, Glenn E. Northway and L. Thoral Lake, of Los Angeles, California, hereinafter termed LESSEES.

WITNESSETH:

WHEREAS, the lessor is the owner of the following unpatented mining claims situate in Ellsworth Mining District, Yuma County, Arizona, described as follows:

New Yorker	No. 1 recorded in book 41, page 179,
New Yorker	Nos. 2 to 15 incl. recorded in Book 41, pages 368 to 381 inclusive.
Bashor	No. 1 recorded in Book 43, page 481.
Nelson	No. 1 recorded in Book 41, page 180.
Big Al No. 1	Recorded in Docket 4, (or Book 4 or 41) page 284.
Big Al	No. 2

NOW, THEREFORE, in consideration of the sum of Ten ($10.00) Dollars in hand paid to LESSORS by LESSEES, receipt whereof is hereby acknowledged, and of the mutual covenants and conditions hereinafter set forth to be kept and performed by the parties hereto, it is mutually agreed as follows, to wit:

That the LESSORS hereby leases to LESSEES all of the above described mining claims for a period of five (5) years from the date hereof, and LESSORS warrant that all of the properties involved herein, are in good standing, are owned by them, are free of liens and encumbrances or other claims, and that they now hold

peaceful possession and will defend their title thereto, and that the terms of this lease shall be as follows:

Par. 1. LESSEES shall have immediate and exclusive possession of the properties and shall have ninety (90) days from this date for preliminary examination thereof. On or before the end of said (90) days LESSEES may commence actual exploration and development of the properties in such manner as is deemed best by LESSEES. LESSEES shall have a total of nine (9) months from the date hereof for such exploration, during which time they agree to spend a sum equal to $60.00 per claim, on claims held by them, in such work; and at the end of said nine (9) months period, if a sum equal to Sixty ($60.00) Dollars per claim has not been spent, then they shall pay the difference between the actual money spent and $60.00 per claim on all claims retained by them, to LESSORS as a rental, and LESSEES shall have the right at any time to relinquish one or more of the claims by notice in writing to LESSORS, and shall be liable for rental on only those claims which they retain.

Par. 2. LESSEES shall be permitted to erect any structures deemed by them to be necessary, and shall be permitted to use materials found on the premises for such purposes.

Par. 3. Commencing nine (9) months after the date to this agreement, LESSEES shall pay to LESSORS a rental amounting to Ten ($10.00) Dollars per claim per month on those claims which they have retained. Said sums shall be deemed to be advance royalties and shall be credited to production from any portion of leased premises. Said rental to be paid monthly in advance during the balance of this lease, and shall be due on the tenth day of each month.

Par. 4. LESSEES shall have the right to extract, mine, mill, ship, treat and/or concentrate and sell any values of whatsoever kind or nature found in or on said premises or properties, and shall cause to be paid to LESSORS a royalty of ten (10) percent of the net mint or smelter, return, and said payment may be made direct to LESSORS by the smelter, mill or purchasing agency, together with a copy of the settlement sheets.

Par. 5. LESSEES agree to perform all work necessary and required by law to protect the claims which they retain and keep them in good standing and to file proper notices with copies to LESSORS, on or before the 15th day of May, each year, commencing with the fiscal year starting July 1, 1956, and LESSORS agree to perform this work for the current 1955-56 fiscal year.

Par. 6. LESSORS will furnish notices of non-responsibility, and LESSEES agree to post and keep posted such notices on the property and on any building or structures erected by LESSEES, and LESSEES further agree to keep the leased premises and every part thereof free and clear of liens and to carry proper insurance as required by law, and to save LESSORS harmless from all costs, loss or damage from injury to any persons or other property as a result of any work or operations of the premises while in the possession and occupancy of the LESSEES.

Par. 7. LESSEES shall furnish LESSORS a map of drill holes and the logs thereof, plus assay reports each ninety (90) days, and LESSEES shall box and save all cores for LESSORS inspection. It is further agreed that LESSOR, or LESSOR'S agent shall be permitted to enter upon and examine the properties, the workings, records and the books at any reasonable time.

Par. 8. LESSEES may terminate this lease at any time upon giving LESSORS thirty (30) days notice in writing of their intention so to do, and LESSEES shall have ninety (90) days to remove from said properties all machinery, equipment and personal or other property placed upon the premises by LESSEES, with the exception of underground timbering, mining tracks and pipe lines.

Par. 9. It is agreed by the parties hereto, that the LESSEES shall have the right to assign this lease, provided that said LESSEES shall have first given LESSORS a notice in writing of their intention to assign, at least fifteen (15) days in advance of such assignment, and LESSEES shall confirm such assignment notice when the assignment is actually made effective.

Par. 10. It is further agreed by the parties hereto that time is of the essence of this agreement, and that failure on the part of the LESSEES to do or perform any of the things herein required, in the manner and at the times as set forth herein shall constitute a breach of this agreement, and the LESSORS shall have the right to terminate this lease and to remove any and all persons therefrom, if, after giving notice of such default to LESSEES, such default is not corrected within sixty (60) days from date of such notice. And, in the event such default is not corrected within sixty (60) days, LESSEES shall have thirty (30) days in which to remove machinery, equipment and personal, or other property belonging to said LESSEES.

Par. 11. In the event it is necessary for either party to serve the other with a notice, such mail shall be addressed to the LESSORS at 563 LaMirada Avenue, San Marino, California; and to LESSEES at 5525 Wilshire Boulevard, Los Angeles 36, California.

Par. 12. It is further agreed that in the event LESSEES shall fully perform all of the terms and conditions herein contained, that this lease may be renewed for an additional five (5) year term by LESSEES notifying LESSORS in writing of their intention to renew, at least thirty (30) days prior to the expiration of this lease. And, it is further agreed that this lease may be renewed each five (5) year period by giving thirty (30) days prior notice to so renew before current lease expires.

Par. 13. LESSORS agree to give LESSEES the right of access to the leased premises over any portion owned by them, and LESSEES shall be permitted to use any water now available as well as any water developed by said LESSEES on the leased premises.

This lease shall extend to and bind the heirs, executors, administrators and/or assigns of both parties hereto.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed the day and year first above written.

HARQUA HALA MINERALS CORPORATION

S/ Nelson T. Zuver
President

S/ H. E. Albro
Ass't. Secretary

LESSORS

S/ Lenn E. Northway

S/ Thoral Lake

LESSEES

ASSIGNMENT OF MINING LEASE

Know all men, that we, L. Thoral Lake and Glenn E. Northway of 5525 Wilshire Blvd., Los Angeles, California being the within named Lessees, in consideration of a valuable consideration, the receipt whereof is hereby acknowledged, do hereby sell, assign, transfer, set over and convey unto Eagle Copper Corporation, a corporation organized under the laws of the State of Arizona, the within mining lease,

To have and to hold forever, subject nevertheless, to the conditions therein contained.

IN WITNESS WHEREOF, the said Lessees have hereinto set their hand and seal in Salome, Arizona this 14th. day of April, 1956

Glenn E. Northway

L. Thoral Lake

Glenna Ferrell
NOTARY PUBLIC

My Commission Expires January 16, 1960

State of Arizona
County of Yuma } ss

8538

I hereby certify that the within instrument was filed and recorded at the request of
Glenn Northway
1956 MAY 31 AM 9 00
in Docket 167 Photostated
on Page 173 INDEXED
Witness my hand and official seal the day and year aforesaid. Vernon C. Wright
County Recorder
By Lenore R. McFarlin
Deputy Recorder

Glenn Northway, c/o, Eagle Copper Corp.
Room 212
5525 Wilshire Blvd., Los Angeles, California

Eagle Copper Corporation
c/o Northway & Lake
525 Wilshire Blvd.
Los Angeles 36, Calif.

STATE OF ARIZONA

ARIZONA CORPORATION COMMISSION

GREAT SEAL OF THE STATE OF ARIZONA
DITAT DEUS
1912

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To all to Whom these Presents shall Come, Greeting:

BE IT KNOWN THAT EAGLE COPPER CORPORATION

HAVING SUBMITTED TO THE ARIZONA CORPORATION COMMISSION EVIDENCE OF COMPLIANCE WITH THE LAWS OF THE STATE OF ARIZONA GOVERNING THE INCORPORATION OF COMPANIES, IS, BY VIRTUE OF THE POWER VESTED IN THE COMMISSION UNDER THE CONSTITUTION AND THE LAWS OF THE STATE OF ARIZONA, HEREBY GRANTED THIS

CERTIFICATE OF INCORPORATION

AUTHORIZING SAID COMPANY TO EXERCISE THE FUNCTIONS OF A CORPORATION, UNDER THE LAWS NOW IN EFFECT IN THE STATE OF ARIZONA, AND SUBJECT TO SUCH LAWS AS MAY HEREAFTER BE ENACTED, FOR A PERIOD OF TWENTY-FIVE YEARS FROM THE DATE HEREOF, UNLESS SOONER REVOKED BY AUTHORITY OF LAW.

BY ORDER OF THE ARIZONA CORPORATION COMMISSION.

In Witness Whereof, I, WILLIAM T. BROOKS THE CHAIRMAN, HAVE HEREUNTO SET MY HAND AND CAUSED THE OFFICIAL SEAL OF THE ARIZONA CORPORATION COMMISSION TO BE AFFIXED AT THE CAPITOL, IN THE CITY OF PHOENIX, THIS 10th DAY OF April A. D. 1956

William T. Brooks
CHAIRMAN.

ATTEST: [signature]
SECRETARY.

BY
ASSISTANT SECRETARY

NO. 47620

Inc.—382—5M—7-54

PHONE: LAFAYETTE 8276
Ludlow 5-8276

FRANK R. WICKS
CONSULTING MINING AND INDUSTRIAL ENGINEER
6816 HOLMES AVENUE, LOS ANGELES 1, CALIF.

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REPORT OF EXAMINATION.
NEW YORKER LODE MINING CLAIMS.
NEAR SALOME, YUMA COUNTY, ARIZ.

Date of this Report: July 28, 1956

Dates of Examination: February 20, 1956
June 6, 1956

Prior examinations in same area: In January, 1950 and January, February, March, 1952.

Report prepared for: Eagle Copper Corporation,
c/o Messrs. Northway & Lake
5525 Wilshire Boulevard
Los Angeles 36, California

Properties: The New Yorker Nos. 1-2-3-4 and 7-8-9 and 10; and Nelson #1; Bashor #1; Big Al #1. Comprising a single group of 11 full-sized lode mining claims, unpatented.

Location: In the east-central portion of Yuma County, Arizona, eight miles south of Salome, Arizona.

Legal Location: In portions of T-4-N: R-13-W: G&SRB&M.

Access: Via Highway 60-70 to Salome; thence 8 miles southerly and southwesterly, via desert road, known as Harquahala Road or Airport Road, which passes close alongside of the New Yorker Claims. The road is narrow but fairly good; mostly over flat or low rolling country.

Communications: At Salome, a town of 200 or 300 people; post office, telephone, express, bus service.

Railroad: Santa Fe R.R. through Salome, with daily freight but no passenger service.

Mining District: Ellsworth. Land District: Gila

Elevations: 2,000 to 2,200 feet above sea level at property.

Government Reservations: None known.

Titles: The properties discussed in this report are as follows: (See small map attached hereto).

Claim Name	Date of Location	Recorded in Book at Page	
New Yorker No. 1	Dec. 19, 1947	41	179
" 2	Aug. 28, 1948	"	368
" 3	"	"	369
" 4	"	"	370
" 7	"	"	373
" 8	"	"	374
" 9	"	"	375
" 10	"	"	376
Big Al No. 1		"	284
Bashor No. 1		43	481
Nelson No. 1		41	180

All of these claims are unpatented lode locations arranged as shown on attached map, data for which was furnished by original locator, Nelson T. Zuver, along with numerous other claims adjoining and in the same vicinity.

This report does not include a search of titles, other than the recording data above shown. However, the current lease is believed to be in order and the succession of title is understood to be:
Original locators Nelson T. Zuver, et al.
Deeded to Semind Minerals Company.
Subsequently deeded to Harqual Hala Minerals Corp.
Leased by Harqua Hala Minerals Corp., to Glenn E. Northway and L. Thoral Lake.
Lease assigned by them to Eagle Copper Corp.
Lease renewable at five-year intervals; royalty 10%; minimum ten dollars per month per claim.
Usual requirements otherwise.

Assessment Work: Completed for fiscal year 1955-1956. Proof of labor filed. Some work already done for 1956-1957 period.

Principal ores: Green stained copper ore, with some gold and silver value; an occasional spot of high grade chalcopyrite is found; dumps all show some copper minerals; some oxide, some carbonate, and some sulphides.

Prior ore productions: None from these properties.

Total area: 220 acres. Of this area about half is flat or nearly flat ground, partly covered with gravel and sand detrital.

Existing development work: Numerous small open pits and shallow shafts; deepest shaft reported to be 88 feet; two others 30 feet, but none of these are accessible. Six recently cored drill holes; these total 1000 feet of drill hole; the deepest penetration is about 250 feet below the surface. Fair core recovery, boxed for examination.

Present activity: None

Equipment on Properties: None. No buildings.

Water Supply: No water at the surface on the properties. It appears to me that some water might be obtained by drilled wells around 300 feet deep; this water would be in mineral zones and probably no good for domestic or power uses.

Water stands in the lower workings of the Golden Eagle Mine and the Harquahala Mine, near by, but do not know what flow could be expected from them if pumped. During mill operations at those mines many years ago, water was pumped from wells in the Centennial Wash or Harrisburg Wash, about five miles easterly from the New Yorker Group. I do not know the status of the original water rights or the condition of the old pipe line.

Timber: None on the property. Mining timber is bought from Northern Arizona Mills.

Electric Power: Nearest public utility lines are at Harrisburg, 5 miles and Salome, 8 miles. It would be best to figure on Diesel engines for all immediate operations, as the cost of the electric lines would likely be prohibitive.

Climatic Conditions: This is a relatively isolated desert area, quite hot in summer and moderately cold in winter, but suitable for all year operations. Heavy rains at infrequent intervals; average rainfall is about seven inches per annum.

General Description of the Properties:

The mining claims of this group lie immediately northwest from the patented Golden Eagle mines, and about one mile due north from the old Harquahala or Bonanza Mine, thus about the center of the Ellsworth Mining District. The Leased area is a wide flat section surrounded by low, rugged rolling hills, and cut through with many small canyons and dry wash channels, sloping generally to the south.

The Golden Eagle Mine has a good record of early production of gold-copper ores from the northerly end of the holdings and ore with gold-silver-lead minerals from the southerly sections. The Harquahala Mine produced some fabulous ore at times and had a long record of production - principally as gold ore for cyanidation. Both of these properties are likely to resume operations some day.

The indications are that the low lying ground of the New Yorker Groups and the immediately adjoining properties are a portion of an old crater, while the mines just mentioned are more like rim deposits on the circumference of the crater. The rim rocks are mostly pre-Cambrian granitic and shistose types, in contact with fragments of very early sedimentary rocks, - quartzite - limestone breccias, clays and shales, etc., of which little remains at the surface now.

The central core, away from the original rim structures, is mainly of later granitic intrusives, porphyry, and andesite types of several series. Cooling and shrinkage resulted in producing crack, fissure veins, large and small, in a network of formations with no definitely predominating strike, but with wide spread mineralization.

Very little of this mineralization is strong enough to be commercially worked at the surface, but the indications are excellent for sizable and workable grades of ore at nominal depths. There is much spotted gold ore from an early era of deposition, presumably, and there is ample evidence of later copper deposition, with subsequent leaching, so there is reasonable probability of a good disseminated copper ore body under a relatively thin porous overburden. Some iron oxide gossan shows, but much of the area is under gravel cover.

Coincident with alteration of base minerals by leaching, there is usually a downward migration of a sizable proportion of these minerals, in such manner as to partially impoverish the veins, with a proportionate enrichment of the mass at lower levels, at and immediately below the water level, especially where copper is present.

Judging by the water level in the adjoining mines, I would expect a gradual and moderate increase in copper content down to about 500 feet below the surface, then a very marked increase, due to secondary enrichment between the 500 and 700 feet depth, below which primary ore should be found. It is on this basis that I am willing to recommend exploratory drilling.

Fairly good copper ore has been encountered in most of the shallow diggings on the No. 1 New Yorker Claim and to some extent on the No. 8 Claim. Some good gold ore came from the No. 2 Claim. In two shafts, some water was encountered; I do not know whether it was ground water or storm water from rains. However,

this water contained copper sulphate in solution in both places. One old shaft about 50 feet deep contained water 10 to 12 feet deep, which had six pounds of copper per ton of water. This was my own sample taken four or five years ago. Some are said to have been higher. No tests were made as to rate of flow, but some trials of copper precipitation were made on light iron and cans.

One sample of a soft six-foot vein in one of the wash canyons about midway of New Yorker No. 1 Claim and about 1,000 feet from this shaft, showed $4.69 in gold and silver, per ton of ore, while the copper assay was 4.46% copper. More recently I undertook to duplicate this sample at the same spot but the sample showed low value. Here we had some malacanite, a black copper oxide, and possibly some chalcocite, a copper sulphide.

As none of this sampling was or could be conclusive, we attempted to do some small-core drilling. None of this was really satisfactory as only nominal values were found to depths of 200 feet, and below that depth, the drill work became too slow and tedious and too expensive to continue with a light rig.

The cores from this test drilling were kept in order and are available for examination. All test pits and open cuts are accessible for study and sampling. No attempt has been made as yet to chart structures or ore locations from the present drill cores, as the information is too meager.

The present holes could be used as a part of the program for deeper drilling; would so recommend as to holes numbered 2, 4 and 6. They are approximately in line with the program for

deeper development. It will be less costly to ream out these holes than to start new ones.

I would recommend a program for about 20,000 feet of coring within the limits of the ten claims. However, it would seem best to set the locations for only six holes now, figuring them to be 500 to 700 feet deep, depending upon the formation and the condition of the hole; then to set the program for the remainder of the holes, or suspend the program entirely, depending upon the findings. Of the initial six, present holes No. 2 and 4 should be used now, plus two on the Nelson No. 1 Claim and one each on Claims No. 2 and 3, as marked. This would call for about 4,000 feet of coring, of which 500 feet is already done. With the information thus gained, we could make a very fair appraisal of the formations and thereby map the probable trends, depths, etc.

If a sizable ore body can be found, as I believe it can be, the attendant operating conditions on this property, or in this vicinity are quite favorable for handling low grade copper ores, and for the production of commercial grades of copper concentrate for smelting, or possibly electrolytic processing of sulphate and related treatment of the carbonates. These matters can be worked out later.

Recommendations:

1. Make sure your titles are all right and that the assignments to your company are in proper form.
2. Make application for a government DMEA development and/or exploration loan of suitable size to be able to definitely prove the property.

PHONE: LAFAYETTE 8276

FRANK R. WICKS
CONSULTING MINING AND INDUSTRIAL ENGINEER
6816 HOLMES AVENUE, LOS ANGELES 1, CALIF.

3. Make sure you have the finances necessary to carry through your proportion of the DMEA loan you propose to ask for.
4. Prepare a clear statement of what you propose to furnish in connection with the drilling program, in the way of autos, tank trucks, labor and supervision, money, etc.
5. Be prepared to show the property and all your papers to the examining engineer whom the DMEA probably will send to discuss your problem and your proposal.
6. If and when drilling is begun, be prepared to keep a very careful record of what is done, what the results are and what the costs are.
7. It is best to try to do the actual work between September 15th and December 15th, if you can so arrange.
8. File proof of labor for the current year, just as soon as enough work is done to cover the required sums.
9. Keep me posted as to the progress of the work, please.

Respectfully submitted,

Frank R. Wicks

Consulting Mining and Industrial Engineer, Registered Engineer No. 2370, California.

D.M.E. Exhibit 4-c

PHONE: LAFAYETTE 8276
Ludlow 5-8276

FRANK R. WICKS
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REPORT OF EXAMINATION.

NEW YORKER LODE MINING CLAIMS.

NEAR SALOME, YUMA COUNTY, ARIZ.

Date of this Report: July 28, 1956

Dates of Examination: February 20, 1956
June 6, 1956

Prior examinations in same area: In January, 1950 and January, February, March, 1952.

Report prepared for: Eagle Copper Corporation,
c/o Messrs. Northway & Lake
5525 Wilshire Boulevard
Los Angeles 36, California

Properties: The New Yorker Nos. 1-2-3-4 and 7-8-9 and 10; and Nelson #1; Bashor #1; Big Al#1. Comprising a single group of 11 full-sized lode mining claims, unpatented.

Location: In the east-central portion of Yuma County, Arizona, eight miles south of Salome, Arizona.

Legal Location: In portions of T-4-N: R-13-W: G&SRB&M.

Access: Via High 60-70 to Salome; thence 8 miles southerly and southwesterly, via desert road, known as Harquahala Road or Airport Road, which passes close alongside of the New Yorker Claims. The road is narrow but fairly good; mostly over flat or low rolling country.

Communications: At Salome, a town of 200 or 300 people; post office, telephone, express, bus service.

Railroad: Santa Fe R.R. through Salome, with daily freight but no passenger service.

Mining District: Ellsworth. Land District: Gila

Elevations: 2,000 to 2,200 feet above sea level at property.

Government Reservations: None known.

Titles: The properties discussed in this report are as follows: (See small map attached hereto.)

Claim Name	Date of Location	Recorded in Book at Page	
New Yorker No. 1	Dec. 19, 1947	41	179
" 2	Aug. 28, 1948	"	368
" 3	"	"	369
" 4	"	"	370
" 7	"	"	373
" 8	"	"	374
" 9	"	"	375
" 10	"	"	376
Big Al No. 1		"	284
Bashor No. 1		43	481
Nelson No. 1		41	180

All of these claims are unpatented lode locations arranged as shown on attached map, data for which was furnished by original locator, Nelson T. Zuver, along with numerous other claims adjoining and in the same vicinity.

This report does not include a search of titles, other than the recording data above shown. However, the current lease is believed to be in order and the succession of title is understood to be:
Original locators Nelson T. Zuver, et al.
Deeded to Somind Minerals Company.
Subsequently deeded to Harqua Hala Minerals Corp.
Leased by Harqua Hala Minerals Corp., to Glenn E. Northway & L. Thoral Lake.
Lease assigned by them to Eagle Copper Corp.
Lease renewable at five-year intervals; royalty 10%; minimum ten dollars per month per claim.
Usual requirements otherwise.

Assessment Work: Completed for fiscal year 1955-1956. Proof of labor filed. Some work already done for 1956-1957 period.

Principal ores: Green stained copper ore, with some gold and silver value; an occasional spot of high grade chalcopyrite is found; dumps all show some copper minerals; some oxide, some carbonate, and some sulphides.

Prior ore productions: None from these properties.

Total area: 220 acres. Of this area about half is flat or nearly flat ground, partly covered with gravel and sand detrital.

Existing development work: Numerous small open pits and shallow shafts; deepest shaft reported to be 88 feet; two others 50 feet, but none of these are accessible. Six recently cored drill holes; these total 1000 feet of drill hole; the deepest penetration is about 250 feet below the surface. Fair core recovery, boxed for examination.

Present activity: None

Equipment on Properties: None. No buildings.

Water Supply: No water at the surface on the properties. It appears to me that some water might be obtained by drilled wells around 300 feet deep; this water would be in mineral zones and probably no good for domestic or power uses.

Water stands in the lower workings of the Golden Eagle Mine and the Harquahala Mine, near by, but do not know what flow could be expected from them if pumped. During mill operations at these mines many years ago, water was pumped from wells in the Centennial Wash or Harrisburg Wash, about five miles easterly from the New Yorker Group. I do not know the status of the original water rights or the condition of the old pipe line.

Timber: None on the property. Mining timber is bought from Northern Arizona Mills.

Electric Power: Nearest public utility lines are at Harrisburg, 5 miles and Salome, 8 miles. It would be best to figure on Diesel engines for all immediate operations, as the cost of the electric lines would likely be prohibitive.

Climatic Conditions: This is a relatively isolated desert area, quite hot in summer and moderately cold in winter, but suitable for all year operations. Heavy rains at infrequent intervals; average rainfall is about seven inches per annum.

General Description of the Properties:

The mining claims of this group lie immediately northwest from the patented Golden Eagle mines, and about one mile due north from the old Harquahala or Bonanza Mine, thus about the center of the Ellsworth Mining District. The Leased area is a wide flat section surrounded by low, rugged rolling hills, and cut through with many small canyons and dry wash channels, sloping generally to the south.

The Golden Eagle Mine has a good record of early production of gold-copper ores from the northerly end of the holdings and ore with gold-silver-lead minerals from the southerly sections. The Harquahala Mine produced some fabulous ore at times and had a long record of production - principally as gold ore for cyanidation. Both of these properties are likely to resume operations some day.

The indications are that the low lying ground of the New Yorker Groups and the immediately adjoining properties are a portion of an old crater, while the mines just mentioned are more like rim deposits on the circumference of the crater. The rim rocks are mostly pre-Cambrian granitic and shistose types, in contact with fragments of very early sedimentary rocks, - quartzite-limestone breccias, clays and shales, etc., of which little remains at the surface now.

The central core, away from the original rim structures, is mainly of later granitic intrusives, porphyry, and andesite types of several series. Cooling and shrinkage resulted in producing crack, fissure veins, large and small, in a network of formations with no definitely predominating strike, but with wide spread mineralization.

Very little of this mineralization is strong enough to be commercially worked at the surface, but the indications are excellent for sizable and workable grades of ore at nominal depths. There is much spotted gold ore from an early era of deposition, presumably, and there is ample evidence of later copper deposition, with subsequent leaching, so there is reasonable probability of a good disseminated copper ore body under a relatively thin porous overburden. Some iron oxide gossan shows, but much of the area is under gravel cover.

Coincident with alteration of base minerals by leaching, there is usually a downward migration of a sizable proportion of these minerals, in such manner as to partially impoverish the veins, with a proportionate enrichment of the mass at lower levels, at and immediately below the water level, especially where copper is present.

Judging by the water level in the adjoining mines, I would expect a gradual and moderate increase in copper content down to about 500 feet below the surface, then a very marked increase, due to secondary enrichment between the 500 and 700 feet depth, below which primary ore should be found. It is on this basis that I am willing to recommend exploratory drilling.

Fairly good copper ore has been encountered in most of the shallow diggings on the No. 1 New Yorker Claim and to some extent on the No. 8 Claim. Some good gold ore came from the No. 2 Claim. In two shafts, some water was encountered; I do not know whether it was ground water or storm water from rains. However,

this water contained copper sulphate in solution in both places. One old shaft about 50 feet deep contained water 10 to 12 feet deep, which had six pounds of copper per ton of water. This was my own sample taken four or five years ago. Some are said to have been higher. No tests were made as to rate of flow, but some trials of copper precipitation were made on light iron and cans.

One sample of a soft six-foot vein in one of the wash canyons about midway of New Yorker No. 1 Claim and about 1,000 feet from this shaft, showed $4.69 in gold and silver, per ton of ore, while the copper assay was 4.46% copper. More recently I undertook to duplicate this sample at the same spot but the sample showed low value. Here we had some malacanite, a black copper oxide, and possibly some chalcocite, a copper sulphide.

As none of this sampling was or could be conclusive, we attempted to do some small-core drilling. None of this was really satisfactory as only nominal values were found to depths of 200 feet, and below that depth, the drill work became too slow and tedious and too expensive to continue with a light rig.

The cores from this test drilling were kept in order and are available for examination. All test pits and open cuts are accessible for study and sampling. No attempt has been made as yet to chart structures or ore locations from the present drill cores, as the information is too meager.

The present holes could be used as a part of the program for deeper drilling; would so recommend as to holes numbered 2, 4 and 6. They are approximately in line with the program for

deeper development. It will be less costly to ream out these holes than to start new ones.

I would recommend a program for about 20,000 feet of coring within the limits of the ten claims. However, it would seem best to set the locations for only six holes now, figuring them to be 500 to 700 feet deep, depending upon the formation and the condition of the hole; then to set the program for the remainder of the holes, or suspend the program entirely, depending upon the findings. Of the initial six, present holes No. 2 and 4 should be used now, plus two on the Nelson No. 1 Claim and one each on Claims No. 2 and 3, as marked. This would call for about 4,000 feet of coring, of which 500 feet is already done. With the information thus gained, we could make a very fair appraisal of the formations and thereby map the probable trends, depths, etc.

If a sizable ore body can be found, as I believe it can be, the attendant operating conditions on this property, or in this vicinity are quite favorable for handling low grade copper ores, and for the production of commercial grades of copper concentrate for smelting, or possibly electrolytic processing of sulphate and related treatment of the carbonates. These matters can be worked out later.

Recommendations:

1. Make sure your titles are all right and that the assignments to your company are in proper form.
2. Make application for a government DMEA development and/or exploration loan of suitable size to be able to definitely prove the property.

3. Make sure you have the finances necessary to carry through your proportion of the DMEA loan you propose to ask for.
4. Prepare a clear statement of what you propose to furnish in connection with the drilling program, in the way of autos, tank trucks, labor and supervision, money, etc.
5. Be prepared to show the property and all your papers to the examining engineer whom the DMEA probably will send to discuss your problem and your proposal.
6. If and when drilling is begun, be prepared to keep a very careful record of what is done, what the results are and what the costs are.
7. It is best to try to do the actual work between September 15th and December 15th, if you can so arrange.
8. File proof of labor for the current year, just as soon as enough work is done to cover the required sums.
9. Keep me posted as to the progress of the work, please.

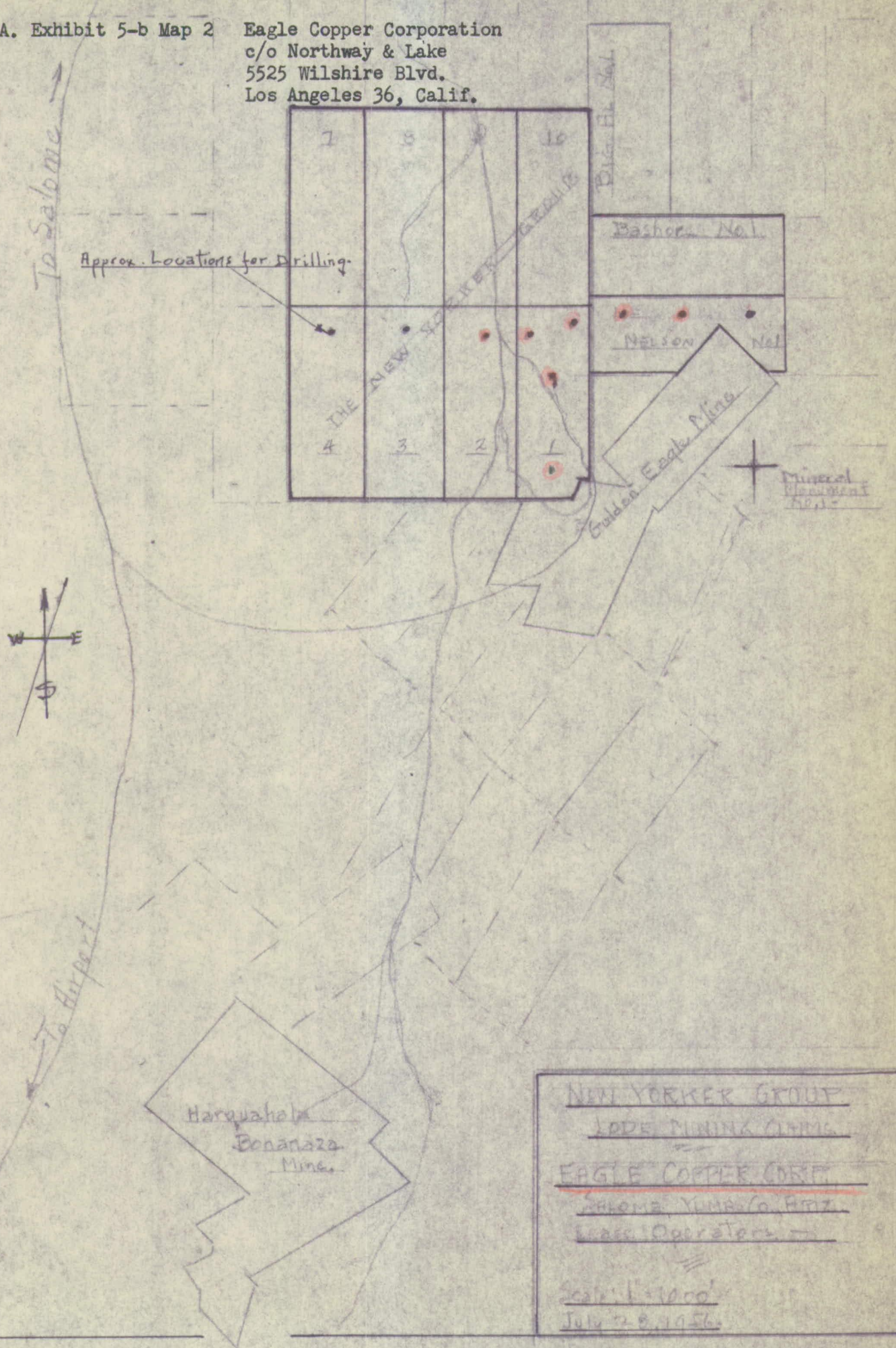
Respectfully submitted,

Frank R. Wicks

Consulting Mining and Industrial Engineer. Registered Engineer No. 2370, California.

D.M.E.A. Exhibit 5-b Map 2

Eagle Copper Corporation
c/o Northway & Lake
5525 Wilshire Blvd.
Los Angeles 36, Calif.



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D.M.E.A. Exhibit 5-b

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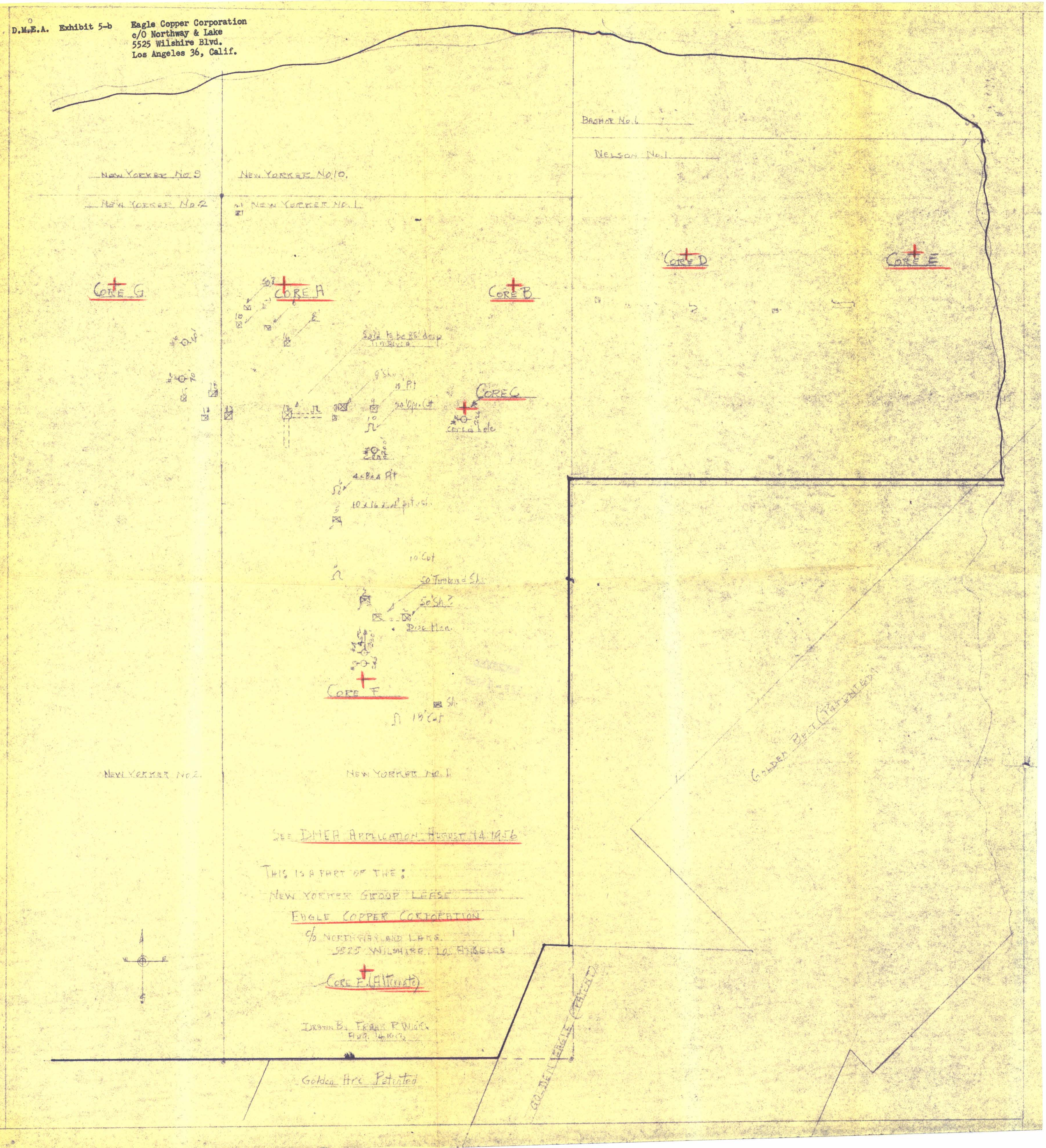

SEE DMEA APPLICATION AUGUST 14 1956

THIS IS A PART OF THE:
NEW YORKER GROUP LEASE
EAGLE COPPER CORPORATION
c/o NORTHWAY AND LAKE.
5525 WILSHIRE, LOS ANGELES

CORE F (ALTERNATE)

DRAWN BY FRANK P. WIGHT
AUG. 14 1956