DMA Form 1

DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 3444

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Exploration Assistance

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Cys to USBM & USGS

Routing Slip

To:	500	Date	8/13/54
To:	[illegible]	Date	8/4/54
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DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 24 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

September 17, 1954

Memorandum

To: DMEA Field Team, Region II

From: Donald F. Kellum and Willard P. Puffett, Geologists, Geological Survey

Subject: Docket No. DMEA 3444 (copper), Copper Canyon Mining Company, Inc., Skamania County, Washington

APPLICANT

Copper Canyon Mining Company, Incorporated
P. O. Box 567
Camas, Washington

Reviewed by
DMEA OPERATING COMMITTEE
10-25-54
(date)

RECOMMENDATIONS

It is recommended that the application be denied. The quartz veins exposed on the applicant's property are too narrow and too sparsely mineralized with copper minerals to merit further exploration.

SUMMARY

On the applicant's property are at least three narrow quartz veins enclosed in chloritized, gray, hornblende diorite. The main vein, explored by two adits, strikes N. 65° W., dips about 75° N., ranges between 2 to 18 inches in thickness, and can be traced over a strike length of more than 400 feet. The other veins strike parallel to this vein, but are much narrower. Ore Minerals in the vein include bornite, chalcopyrite, and azurite. Samples taken across the vein range in values from 1.11 to 3.04 percent copper and 0.8 to 2.1 ounces per ton of silver, with only a trace of gold.

EXAMINATION

The applicant's property was examined on August 17, 1954, by Willard P. Puffett and Donald F. Kellum, geologists of the Geological Survey. Mr. Ernest E. Bower, president; Mr. Hugh Ringquist, vice-president; and Mr. Walter M. Novak, treasurer, Copper Canyon Mining Company, Inc., accompanied the examiners to the property. The East and West drifts were mapped, and a tape

and compass survey was made of the immediate area including a third smaller adit. Maps based on the survey accompany this report. A total of five samples were taken across the main vein; three were from the West drift, and two from the East drift. No other veins seen on the property merited sampling. Seven hours were spent on the examination.

PROPERTY

Copper Canyon Mining Company, Inc., consists of nine unpatented claims: Copper Canyon No. 1, Copper Canyon No. 2, Copper Canyon No. 3, Idaho No. 1, Idaho No. 2, Morning, Greenleaf, Gem, and Sunday, in section 21, T. 3 N., R. 5 E., Columbia National Forest, ~~Washougal~~ SKAMANIA County, Washington. The applicant's property was reported erroneously on the DMEA application map to be in section 16.

The property can be reached from the town of Washougal, Washington, by following the paved Washougal River road northeast for about 3.3 miles to County Road No. 11. Turn left on County Road No. 11 and continue for 0.2 miles to Mines Road; turn right on the dirt Mines Road for 4.7 miles to a fork; continue on the left fork of the road 2.7 miles to the Copper Canyon property. Access is reported possible throughout the year with the exception of occasional periods of snowfall in January and February. Road condition is fair, and the major portion of the road is subject to logging traffic.

The mine workings are at the bottom of a moderately steep-sided, narrow, stream valley at approximately 2,200 feet elevation. Timber cover in the area is sparse, due not only to a forest fire in 1902, but also to a heavy talus mantle derived from underlying hornblende diorite. This mantle of talus, which is extensive in the area and most prevalent west of the stream, limits outcrops to bedrock portions of the stream channel. The creek, a perennial stream, contains sufficient water for mining purposes.

COMPETENCY OF THE APPLICANT

Mr. Bowers, president of the company, is an automobile dealer in Seattle, Washington. Mr. Novak, treasurer, is a mining machinery salesman in Portland, Oregon. It is not known whether they have had any mining experience.

Mr. Ringquist, vice-president, states that he has worked 15 years at the Morning mine in the Coeur d'Alene district of Idaho; has worked at Grandview mines in Stevens County, Washington, during 1923 and 1924; and is presently working in Camas, Washington. He will supervise operations at the mine; however, Mr. Ringquist appears more optimistic concerning the potentialities of the property than inspection will admit.

Mr. A. M. Andresen, a mining man from Fairbanks, Alaska, is acting consultant.

APPLICANT'S PROPERTY RIGHTS

The property consists of nine unpatented claims held by right of location. These have been deeded to the applicant.

GEOLOGY

According to the State Geologic Map of Washington, the area surrounding the Copper Canyon property is underlain by Tertiary intrusives. The mine workings and stream bed outcrops indicate that the rock in the immediate area is a chloritized hornblende diorite. Talus on both sides of the stream consists also of diorite.

The main vein on the Copper Canyon property has been explored by the East and West drifts over a strike length totaling 440 feet. This vein strikes N. 60° to 65° W. and dips northward 60-80 degrees. The vein contains bornite and chalcopyrite in pockets and streaks in a banded, and in places, vuggy quartz gangue. Secondary copper minerals, including azurite, malachite, and cuprite (?) occur in oxidized portions of the vein. The vein ranges in thickness from 2 to 18 inches, with an average thickness of 7 inches. Wall rock is gray chloritic hornblende diorite.

Several other thin copper-stained veins occur in hornblende diorite outcrops in the stream bed and a continuation of one of these veins was prospected by an adit shown near station 13 on the accompanying map. These veins apparently are parallel to the vein followed by the East and West drifts, but do not contain sufficient ore minerals to constitute ore.

A short roadcut south from the portal of the East drift exposed a very narrow, black-stained and badly broken quartz vein as shown at station 8 of the map. This vein also parallels the main vein, but contains no ore minerals of consequence.

Five samples were taken. The assay data are shown on the accompanying map of the East and West drifts (map no. 3).

As the veins are so narrow and sparsely mineralized, it is doubtful that any ore reserves can justifiably be assigned to the property.

PAST OPERATION

The applicant has produced $4\frac{1}{2}$ tons of ore from the 7-foot winze in the East drift. The Tacoma Smelter settlement sheet shows the shipment contained 0.20 percent zinc, 5.51 percent copper

and 3.59 ounces silver per ton.

There is no known record of any other past production.

The mine, according to Mr. Ringquist, has been known in the past as the Yellowjacket and the Hoo Hoo.

MATERIALS AND SUPPLIES

Equipment on the property, in addition to the Denver Gardner compressor, includes a Leyer No. 55 jackhammer and a GMC $1\frac{1}{2}$-ton truck, the latter is owned by Mr. Ringquist.

Timber for mining operations could be obtained in limited quantities locally. Power could be obtained by running a 10- or 12-mile transmission line, or by using the creek as a more immediate source with the use of a Pelton wheel.

APPLICANT'S PROPOSAL

The applicant proposes to extend both the East and West drift 500 feet farther along the presently exposed vein, a total of 1,000 feet of drifting. A discussion with Mr. Ringquist revealed that the company was also considering sinking a shaft in the West drift and drifting southeastward along the vein at a lower level under the creek. This was proposed as the vein was believed to be both widening and increasing in grade with depth.

Although the vein is traced over a strike distance of 440 feet, the spotty character of mineralization and narrowness of the vein do not indicate that increase in depth, or extension of present drifting will reveal sufficient mineralization to constitute an ore body.

At present, there is no evidence to support a favorable recommendation.

Enclosures

Distribution:
DMEA (Orig. & 3)
USBM (2)
USGS (SRO)
Docket
Puffett

File Copy
Surname
Griswold
Hedges
Newcomb
Selfridge

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

NOV 5 - 1954

Mr. Ernest A. Bowers, President
Copper Canyon Mining Co., Inc.
Post Office Box 567
Camas, Washington

Re: Docket No. DMEA-344 (Copper)
Copper Canyon Mining Co., Inc.
Copper Canyon, et al, claims
Skamania County, Washington

Dear Mr. Bowers:

The application of your company for aid for an exploration project and other reports available to us in Washington concerning 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 property, indicates to us that the probability of disclosing mirable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

G. O. Mittendorf (for)

Administrator

WRGriswold/er 11/4/54

Copyto: Docket
Admr. R. File
Operating Committee
Base Metals
Region II (2)
Mr. C. H. Johnson, USBM
Mr. Kiilsgaard, USGS
Chron.

R.C.S.

File Copy
Surname

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

500

November 4, 1954

Memorandum

To: Administrator

From: Chief, Base Metals Division

Subject: Denial of Application, Copper Canyon Mining Company, Inc.
Docket No. DMEA-3444, (Copper), Skamania County, Washington

The cited application concerns a narrow vein which has been explored by drifts over a strike length of more than 400 feet. The vein, essentially quartz, is narrow, with an average width of 7 inches. A little copper mineralization is present, assays ranging from one to three percent.

Apparently it is of far too insignificant a nature to warrant serious consideration and we concur with the Field Team and Commodity members in recommending denial.

W. R. Griswold

W. R. Griswold

WRG/er

Copy to: Docket
Base Metals
Chron

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

November 4, 1954

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To: Administrator

From: Chief, Base Metals Division

Subject: Denial of Application, Copper Canyon Mining Company, Inc. Docket No. DMEA-3444, (Copper), Skamania County, Washington

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W R Griswold

W. R. Griswold

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 2 - 1954

November 2, 1954

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-3444 (Copper), Copper Canyon Mining Company, Skamania County, Washington

I have reviewed the examination report by Kellum and Puffett, dated September 17, 1954, on the above-named application, and believe that it adequately supports the recommended denial. The width and grade of the vein, which is well exposed in some 200 feet of adit, are too poor to constitute mineable reserves, nor is there evidence to justify better expectations at depth.

C. H. Johnson

C. H. Johnson

Copy to - T. H. Kiilsgaard, USGS
Minerals Division
C. H. Johnson
Files

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 2 - 1954

November 1, 1954

Re: DMEA-3444
Copper Canyon Mining
Company, Inc.
Skamania Co., Wash.
$32,878 - Copper

Memorandum

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

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

Subject: Concurrence with Field Team recommendation for denial

The applicant proposed to extend East and West drifts a total of 1,000 feet.

The Field Team has recommended this application be denied.

Three narrow quartz veins occur on the property. One of the veins has been traced for over 440 feet, but its thickness ranges only between 2 and 18 inches. Five Field Team samples, taken from this main vein, range in grade from 1.11 to 3.04% copper and 0.8 to 2.1 oz./ton of silver. The average thickness of the vein is about 7 inches. Bornite and chalcopyrite occur in pockets and streaks in a quartz gangue.

These narrow, sparsely mineralized veins do not warrant further exploration. A significant amount of ore cannot reasonably be expected to be found by the proposed work.

I concur with Field Team's conclusions and recommend this application be denied.

E. L. Newcomb

E. L. Newcomb

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 2 - 1954

November 1, 1954

Re: DMEA-3444
Copper Canyon Mining
Company, Inc.
Skamania Co., Wash.
$32,878 - Copper

Memorandum

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I concur with Field Team's conclusions and recommend this application be denied.

E. L. Newcomb

ELNewcomb:hlm
G-11/1/54

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

September 20, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-3444 (copper)
Copper Canyon Mining Company, Inc.
Skamania County, Washington

Dear Mr. Selfridge:

Enclosed are the original and three copies of a memorandum dated September 17, 1954, prepared by Donald F. Kellum and Willard P. Puffett, Geological Survey.

The examiners state that the quartz veins exposed on the applicant's property are too narrow and too sparsely mineralized with copper minerals to merit further exploration.

The Field Team concurs with the field examiners' recommendation that the application be denied.

By Field Team, Region II

John S. Vhay

John S. Vhay, Acting Exec. Officer
U. S. Geological Survey

Thomas E Howard

Thomas E. Howard, Acting Member
For: Wing G. Agnew
U. S. Bureau of Mines

Enclosure as indicated
cc: USBM (2)
Puffett

Reviewed by
DMEA OPERATING COMMITTEE
10-25-54
(date)

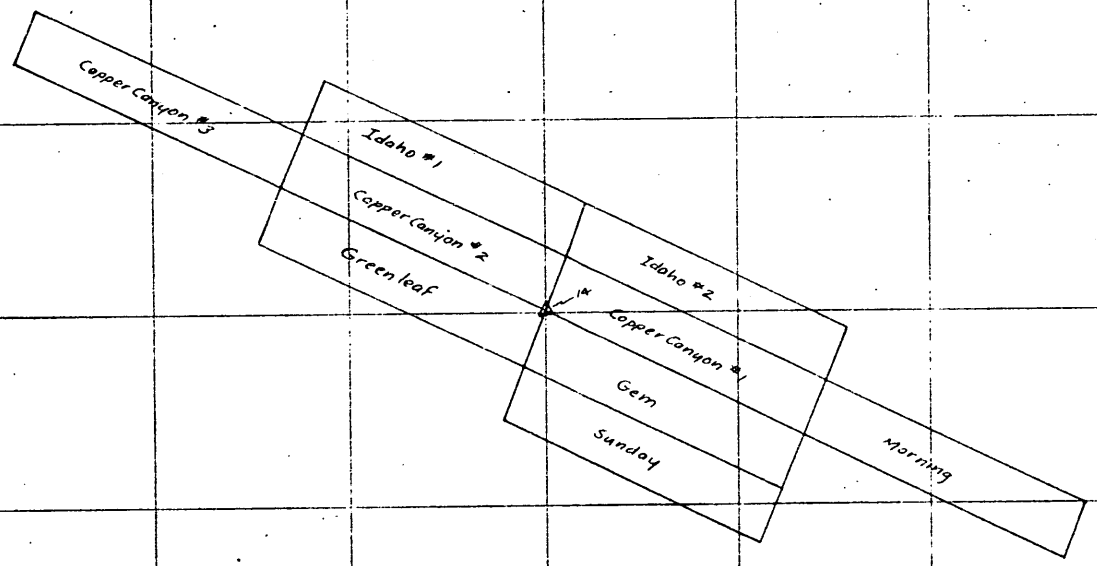
Docket No. DMEA 3444 (Copper)

Copper Canyon Mine
Skamania Co. Wash.
Claims
8-17-54

N

1" = 1000'

Note These claims are in Sec. 21, not Sec. 16 of T 3N; R. 5E. as was indicated on DMEA application map.



MAP #1

"ALBANENE" NO. 195M KOLB CO., N.Y.
REG. U.S. PAT. OFF.

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

September 20, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-344 (copper)
Copper Canyon Mining Company, Inc.
Okanogan County, Washington

Dear Mr. Selfridge:

Enclosed are the original and three copies of a memorandum dated September 17, 1954, prepared by Donald F. Kellum and Willard P. Puffett, Geological Survey.

The examiners state that the quartz veins exposed on the applicant's property are too narrow and too sparsely mineralized with copper minerals to merit further exploration.

The Field Team concurs with the field examiners' recommendation that the application be denied.

By Field Team, Region II

John H. Vasy, Acting Exec. Officer
U. S. Geological Survey

Thomas E. Howard, Acting Member
For: Wing G. Agnew
U. S. Bureau of Mines

Enclosure as indicated
cc: DMEM (2)
Puffett

Reviewed by
DMEA OPERATING COMMITTEE
10-25-54
(date)

[illegible] OF THE INTERIOR
[illegible] Minerals [illegible]
RECEIVED
SEP 24 1954

[illegible]
[illegible] Report
[illegible] Washington

September [illegible], 1954

Memorandum

To: DMEA Field Team, Region [illegible]

From: [illegible] Weller and Hilbert [illegible], geologists, Geological Survey

Subject: Docket No. [illegible] (Copper), Copper Canyon [illegible] Area, [illegible] County, Washington

APPLICANT

Copper Canyon Mining Company, Incorporated
P. O. Box [illegible]
[illegible], Washington

RECOMMENDATION

It is recommended that the application be denied. The quartz veins exposed on the applicant's property are too narrow and too sparsely mineralized with copper minerals to merit further exploration.

SUMMARY

On the applicant's property are at least three narrow quartz veins enclosed in chloritized, gray, hornblende diorite. The main vein, explored by two adits, strikes N. [illegible] E., dips about 75 [illegible], ranges between 2 to 13 inches in thickness, and can be traced over a strike length of more than 400 feet. The other veins strike parallel to this vein, but are much narrower. Ore minerals in the vein include bornite, chalcopyrite, and azurite. Samples taken across the vein range in values from 1.11 to [illegible] percent copper and [illegible] to 2.1 ounces per ton of silver, with only a trace of gold.

INTRODUCTION

The applicant's property was examined on August [illegible], 1954, by [illegible] and [illegible] Weller, geologists of the Geological Survey. Mr. [illegible] Bowar, president; Mr. [illegible], vice-president; and Mr. Walter [illegible] Bowar, treasurer, Copper Canyon Mining Company, Inc., accompanied the examiners to the property. The east and west drifts were mapped, and

Reviewed by
DMEA OPERATING COMMITTEE
10-25-54
(date)

and compass survey was made of the immediate area including a third smaller adit. Maps based on the survey accompany this report. A total of five samples were taken across the main vein; three were from the West drift, and two from the East drift. No other veins seen on the property merited sampling. Seven hours were spent on the examination.

PROPERTY

Copper Canyon Mining Company, Inc., consists of nine unpatented claims: Copper Canyon No. 1, Copper Canyon No. 2, Copper Canyon No. 3, Idaho No. 1, Idaho No. 2, Morning, Greenleaf, Gem, and Sunday, in section 21, T. 3 N., R. 9 E., Columbia National Forest, Skamania County, Washington. The applicant's property was reported erroneously on the MMA application map to be in section 16.

SKAMANIA

The property can be reached from the town of Washougal, Washington, by following the paved Washougal River road northeast for about 3.5 miles to County Road No. 11. Turn left on County Road No. 11 and continue for 3.2 miles to Mines Road; turn right on the dirt Mines Road for 4.7 miles to a fork; continue on the left fork of the road 2.2 miles to the Copper Canyon property. Access is reported possible throughout the year with the exception of occasional periods of snowfall in January and February. Road condition is fair, and the major portion of the road is subject to logging traffic.

The mine workings are at the bottom of a moderately steep-sided, narrow, stream valley at approximately 2,700 feet elevation. Timber cover in the area is sparse, due not only to a forest fire in 1906, but also to a heavy talus mantle derived from underlying hornblende diorite. This mantle of talus, which is extensive in the area and most prevalent west of the stream, limits outcrops to bedrock portions of the stream channel. The creek, a perennial stream, contains sufficient water for mining purposes.

CHARACTER OF THE APPLICANT

Mr. Bowers, president of the company, is an automobile dealer in Seattle, Washington. Mr. Novak, treasurer, is a mining machinery salesman in Portland, Oregon. It is not known whether they have had any mining experience.

Mr. Ringquist, vice-president, states that he has worked 15 years at the Morning Mine in the Coeur d'Alene district of Idaho; had worked at Granview mines in Stevens County, Washington, during 1923 and 1924; and is presently working in Camas, Washington. He will supervise operations at the mine; however, Mr. Ringquist appears more optimistic concerning the potentialities of the property than inspection will admit.

Mr. A. M. Andresen, a mining man from Fairbanks, Alaska, is acting consultant.

APPLICANT'S PROPERTY RIGHTS

The property consists of nine unpatented claims held by right of location. These have been deeded to the applicant.

GEOLOGY

According to the State Geologic Map of Washington, the area surrounding the Copper Canyon property is underlain by Tertiary intrusives. The mine workings and stream bed outcrops indicate that the rock in the immediate area is a chloritized hornblende diorite. Talus on both sides of the stream consists also of diorite.

The main vein on the Copper Canyon property has been explored by the East and West drifts over a strike length totaling 440 feet. This vein strikes N. 50° to 65° W. and dips northward 60-80 degrees. The vein contains bornite and chalcopyrite in pockets and streaks in a banded, and in places, vuggy quartz gangue. Secondary copper minerals, including azurite, malachite, and cuprite (?) occur in oxidized portions of the vein. The vein ranges in thickness from 2 to 18 inches, with an average thickness of 7 inches. Wall rock is gray chloritic hornblende diorite.

Several other thin copper-stained veins occur in hornblende diorite outcrops in the stream bed and a continuation of one of these veins was prospected by an adit shown near station 13 on the accompanying map. These veins apparently are parallel to the vein followed by the East and West drifts, but do not contain sufficient ore minerals to constitute ore.

A short raise out south from the portal of the East drift exposed a very narrow, black-coated and badly broken quartz vein as shown at station 8 of the map. This vein also parallels the main vein, but contains no ore minerals of consequence.

Five samples were taken. The assay data are shown on the accompanying map of the East and West drifts (map no. 3).

As the veins are so narrow and sparsely mineralized, it is doubtful that any ore reserves can justifiably be assigned to the property.

PAST OPERATION

The applicant has produced 4½ tons of ore from the 7-foot winze in the East drift. The Tacoma Smelter settlement sheet shows the shipment contained 0.20 percent zinc, 5.51 percent copper

and 5.33 ounces silver per ton.

There is no known record of any other past production.

The mine, according to Mr. Ringquist, has been known in the past as the Yellowjacket and the Boo Boo.

MATERIALS AND SUPPLIES

Equipment on the property, in addition to the Denver Gardner compressor, includes a Layer No. 35 jackhammer and a 1½-ton truck, the latter is owned by Mr. Ringquist.

Timber for mining operations could be obtained in limited quantities locally. Power could be obtained by running a 10- or 12-mile transmission line, or by using the creek as a more immediate source with the use of a Pelton wheel.

APPLICANT'S PROPOSAL

The applicant proposes to extend both the East and West drift 500 feet farther along the presently exposed vein, a total of 1,000 feet of drifting. A discussion with Mr. Ringquist revealed that the company was also considering sinking a shaft in the West drift and drifting southeastward along the vein at a lower level under the creek. This was proposed as the vein was believed to be both widening and increasing in grade with depth.

Although the vein is traced over a strike distance of 440 feet, the spotty character of mineralization and narrowness of the vein do not indicate that increase in depth, or extension of present drifting will reveal sufficient mineralization to constitute an ore body.

At present, there is no evidence to support a favorable recommendation.

Enclosures

Distribution:
TRA (Orig. & 3)
[illegible] (2)
[illegible] (2)
Hochen
Duffett

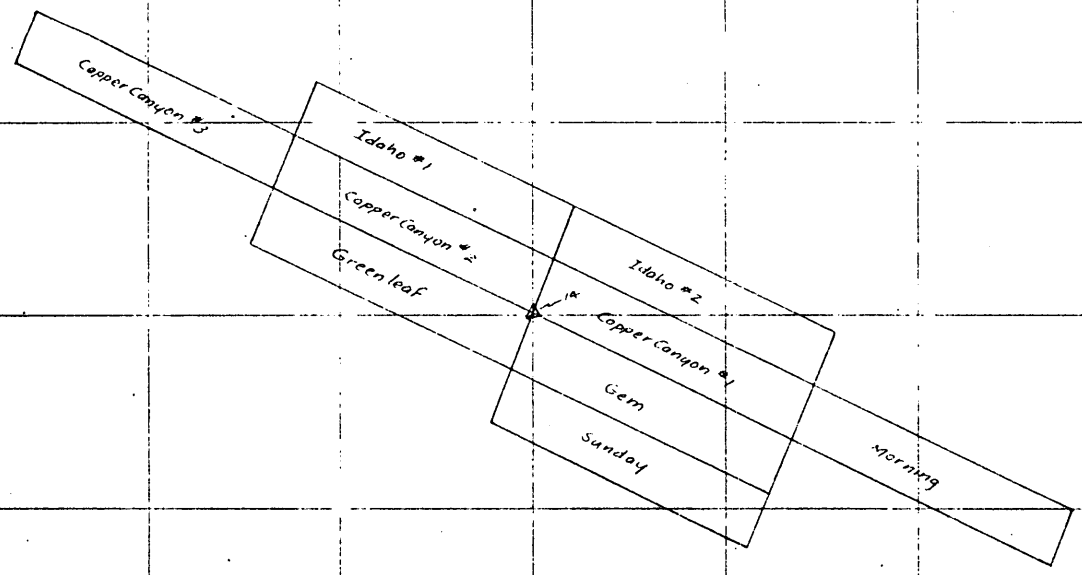
Docket No. DMEA 3444 (Copper)

Copper Canyon Mine
Skumania Co. Wash.
Claims
8-17-54

N

1" = 1000'

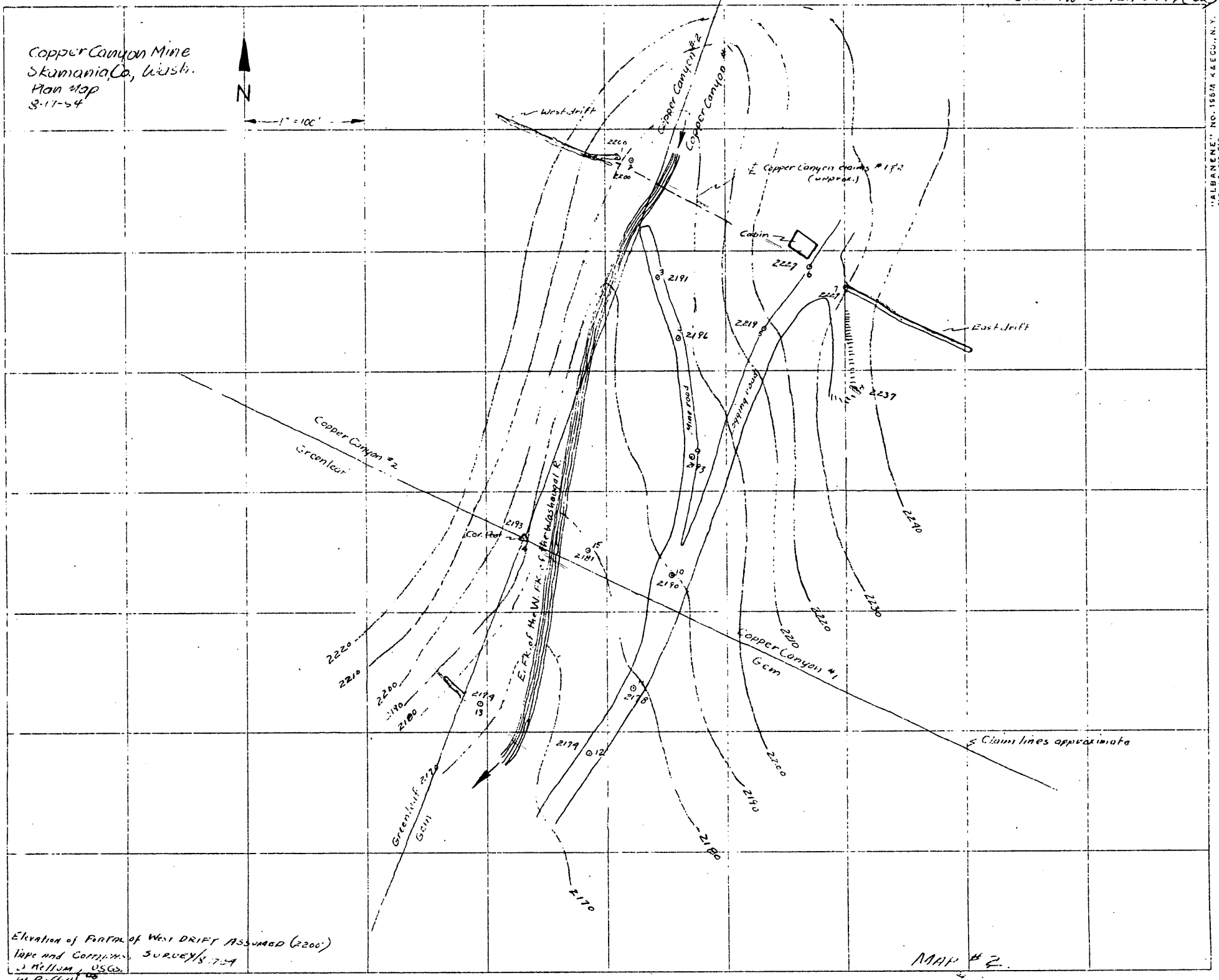
Note: These claims are in Sec 21, not Sec 16 of T 3N; R. 5 E. as was indicated on DMEA application map.



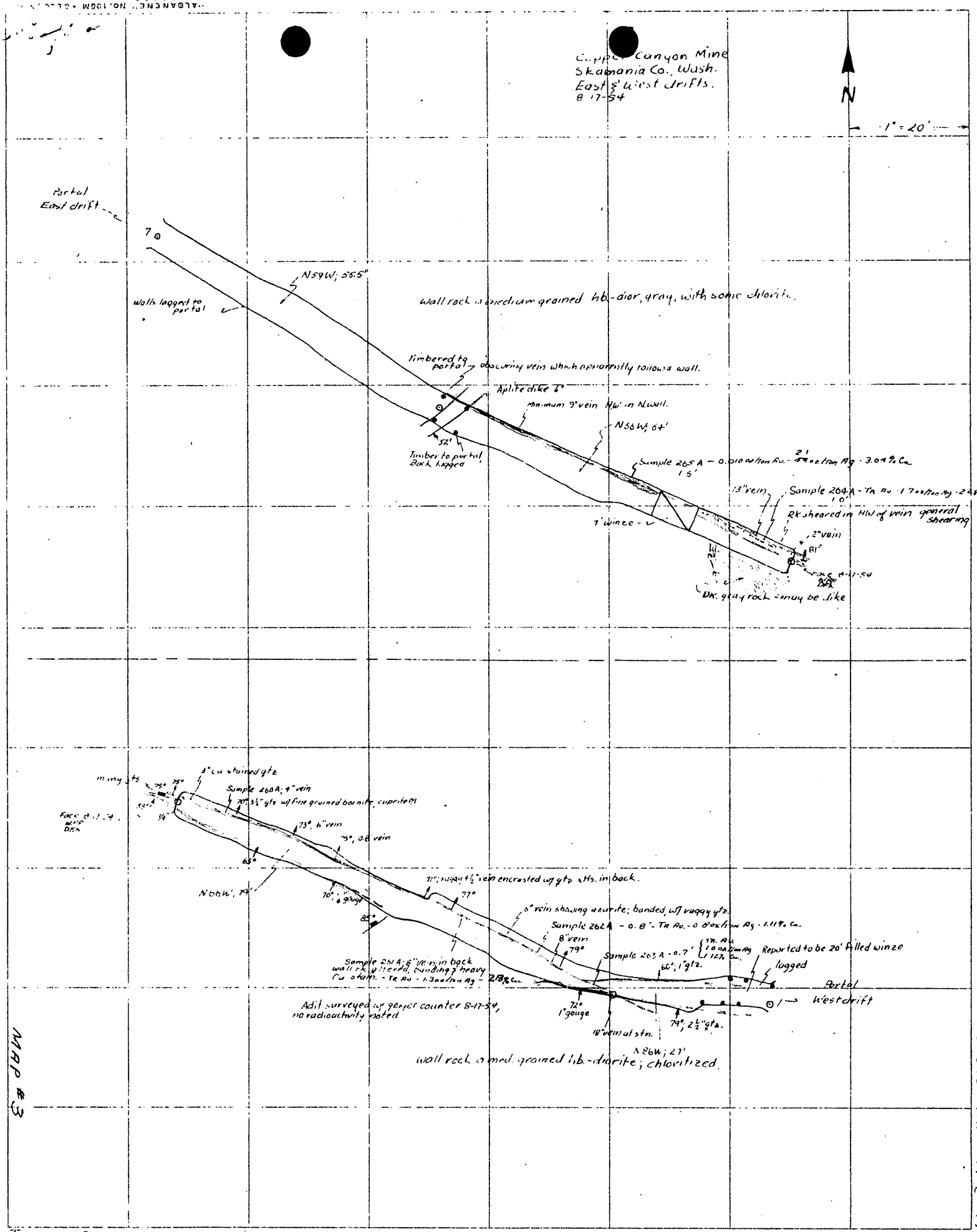
MAP #1

"ALBANENE" NO. 1500 K.E.C., N.Y.
REQ. U.S. PAT. OFF.

Docket No OMEA 3444 (Cu)



"ALBANENE" NO. 1561A K&E CO., N.Y. REG. U.S. PAT. OFF.



MAP #3

Docket No. 3444 (Copper)

Tape and Brunton Survey
D Kellum
W Corfeld } USGS

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

August 23, 1954

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-3444 (Copper) Copper Canyon Mining Company, Inc., Copper Canyon Prospect, Skamania County, Washington

I have gone over the above-named application, which is returned herewith.

The prospect was examined by L. G. Chichester, a Bureau of Mines Engineer, November 22, 1952. I am sending for a copy of his report which will be made available to you. Notes on file here add little to the information contained in the application except that the strike of the vein is South 40° East and the dip 77° Northeast and that the vein had a known strike length of 300 feet. The latter information presumably was gained from surface inspection. Inasmuch as the tunnel mapped at the time of examination had a length of about 90 feet as shown on the Bureau map accompanying the application, it is evident the applicant had done nothing more on the prospect except perhaps to take some additional samples.

I should think the vein might be worth prospecting, although it appears to have dropped off in grade near the face. This, however, is a question on which the field team should be asked to express an opinion and I would be glad to concur with a referral to the field team.

The application is attached herewith.

C. H. Johnson
C. H. Johnson

Attachment

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

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

August 13, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region II

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 II.

DMEA - 3444 Copper Canyon Mining Co., Inc.

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

August 13, 1954

Copper Canyon Mining Co., Inc.
P. O. Box 567
Camas, Washington

Subject: DMEA-3444
Re: Exploration Assistance

Gentlemen:

The receipt of your application dated August 2, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3444 and referred to the Base Metals Division.

Kindly refer to DMEA-3444 in any future correspondence relating to your application.

Sincerely yours,

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 10, 1954

Copper Canyon Mining Co., Inc.
P. O. Box 567
Camas, Washington

Re: DMEA application (copper)
Copper Canyon Mine
Skamania County, Washington

Gentlemen:

This will acknowledge receipt of your application for Government assistance in an exploration project. We have forwarded your application to our Washington office for their consideration and you will no doubt hear from them regarding it in the near future.

It is our policy to examine all DMEA applicant's properties. However, before scheduling an examination of your property, we will contact you as to the date and other particulars.

Sincerely,

John S. Vhay
Acting Member, DMEA
Field Team, Region II

cc: USBM (2)
DMEA (2)
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
No. 157 Howard Street
Spokane 4, Washington

August 10, 1954

Copper Canyon Mining Co., Inc.
P. O. Box 367
Cashmere, Washington

Re: DMEA application (copper)
Copper Canyon Mine
Chelan County, Washington

Gentlemen:

This will acknowledge receipt of your application for Government assistance in an exploration project. We have forwarded your application to our Washington office for their consideration and you will no doubt hear from them regarding it in the near future.

It is our policy to examine all DMEA applicant's properties. However, before scheduling an examination of your property, we will contact you as to the date and other particulars.

Sincerely,

John S. Vhay
Acting Member, DMEA
Field Team, Region II

cc: USBM (2)
DMEA (2)
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 10, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: DMEA application (Copper)
Copper Canyon Mine
Skamania County, Washington

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application submitted by the Copper Canyon Mining Co., Inc., for Government assistance in exploring a copper property in Skamania County, Washington. One copy of the application is being retained for our files.

I might point out that this is not the same company who applied for a loan under the name of Copper Canyon Mining Corp. (Docket No. DMEA-3270).

A field examination of this property will be made at the earliest possible date.

Sincerely yours,

John S. Vhay

John S. Vhay
Acting Member, DMEA
Field Team, Region II

Enclosure

cc: USBM (2)
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 10, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: DMEA application (Copper)
Copper Canyon Mine
Skamania County, Washington

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application submitted by the Copper Canyon Mining Co., Inc., for Government assistance in exploring a copper property in Skamania County, Washington. One copy of the application is being retained for our files.

I might point out that this is not the same company who applied for a loan under the name of Copper Canyon Mining Corp. (Docket No. DMEA-3270).

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Sincerely yours,

John S. Vhay
Acting Member, DMEA
Field Team, Region II

Enclosure

cc: USBM (2)
Puffett

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
AUG 6 1954
U. S. G. S.
SPOKANE, WASH.

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. 3444
Metal or Mineral Copper
Date Received
Estimated Cost $32,878
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: Copper Canyon Mining Co. Inc.
P.O.Box 567
Camas, Washington
Incorporated under the laws of the State of Washington

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. See note attached

(*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 note attached

(*b*) State any mine name by which the property is known. Copper Canyon

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

(*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

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

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

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

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

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

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

5. *The exploration project.*—(*a*) [redacted]te the mineral or minerals for which you w[redacted]o 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 10 days and be completed within 12 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 [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 August 2, 1954

Copper Canyon Mining Co. Inc.
(Applicant)

By Ernest E. Bowers Pres

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

COPPER CANYON MINING CO., Inc.
P. O. Box 567
Camas, Washington

1. (c) Ernest E. Bowers, President. 10638 20th Ave So. Seattle 88 Washington
Hugh Ringquist, Vice President. 526 Evergreen Highway, Camas, Wash.
Walter M. Novak, Treasurer. 6403 S.E. 32nd, Portland 2, Oregon.

3. (a) Nine adjoining unpatented mining claims, all in Sec 21, Township 3N, Range 5E, WM, Skamania County, State of Washington

(f)

Claim #	44294	Copper Canyon #2	July 21, 1952	Book H Page 238
"	44295	Copper Canyon #1	July 21, 1952	Book H Page 238
"	44535	Copper Canyon #3	Sept 23, 1952	Book H Page 254
"	44536	Morning	Sept 23, 1952	Book H Page 255
"	45663	The Gem	June 30, 1953	Book H Page 276
"	46030	The Greenleaf	Sept 28, 1953	Book H Page 289
"	46031	The Sunday	Sept 28, 1953	Book H Page 290
"	46146	Idaho #2	Oct 28, 1953	Book H Page 292
"	45030	Idaho	Feb 13, 1953	Book H Page 259

(c) All of the above claims were located by Hugh Ringquist and other persons. The said other persons have deeded their interests to Hugh Ringquist who in turn has deeded to the Copper Canyon Mining Co Inc. All conveyances are of record in Skamania County.

4. (a) The work already done on this property consists of a tunnel approximately 70 feet in length. Some grading and clearing around the mine. An access road to the proposed ~~night~~ site of the new tunnel across the creek. Fair roads run to the mine.

(b) Attached hereto is a copy of the smelter return from the only ore taken from the property. This ore, 4 1/2 tons, was taken from the floor of the tunnel near the face.

(c) The formation consists mainly of a dioritic rock and granite. The vein contains the copper ores bornite, malachite, azurite and chrysocolla. The gangue material being mainly quarts. Attached is a map .

(d) The property is readily accessible by road about 20 miles northeast of Camas, Washington and the Columbia river. Camas would be the shipping point by rail or water, or the ore can be moved by truck from the mine to the smelter at Tacoma at an estimated shipping cost of $8.00 per ton. The road from Camas to the mine is usable throughout the year with the exception of an occasional snow in January or February.

(e) All supplies readily available from Vancouver or Portland within an hours run to the mine. Electric power could be made available thru a 10-12 mile transmission line when production should warrant. Ample water the year around in the east fork of the north fork of the Washougal river that runs thru the property.

5 (b) The strike of the vein on which we wish to drift is northwest-southeast. The portal of the present tunnel lies near the bottom of the canyon on the east side of the creek. The vein continues on the west side and the ore there appears to be richer, bornite predominating. It is proposed to drift 500 feet on the east side and a like distance on the west, using most of the same equipment for both jobs. The slope of the mountains are steep (30° to 40°) so we would soon have a large amount of ore overhead. We have reason to think that the vein will widen with depth. Recent samples taken from the east side tunnel run from 8 to 24%. We are now ready to operate but we need some financial assistance to properly explore the possibilities of this prospect. 500 feet of tunnel on both sides should expose sufficient ore bodies to make this an important discovery.

(c) The work can start immediately from the date of the contract and should take approximately 4 months for each tunnel, a total of 8 months but we would like to be allowed 12 months to complete.

COPPER CANYON MINING CO., Inc.
P. O. Box 567
Camas, Washington

5. (d) Personnel;

Hugh Ringquist, Vice President of the company has been engaged in mining most of his life (40 years) He will supervise the operation and give his entire time to this job.

Walter M. Novak, Treasurer, a graduate mechanical engineer is engaged in business in Portland

Ernest E. Bowers, President, bu iness man in Seattle. Both of the last two named will be closely in contact to this project at all times. We have as a consultant Mr. A. M. Andresen for many years a successful mining man from Fairbanks Alaska.

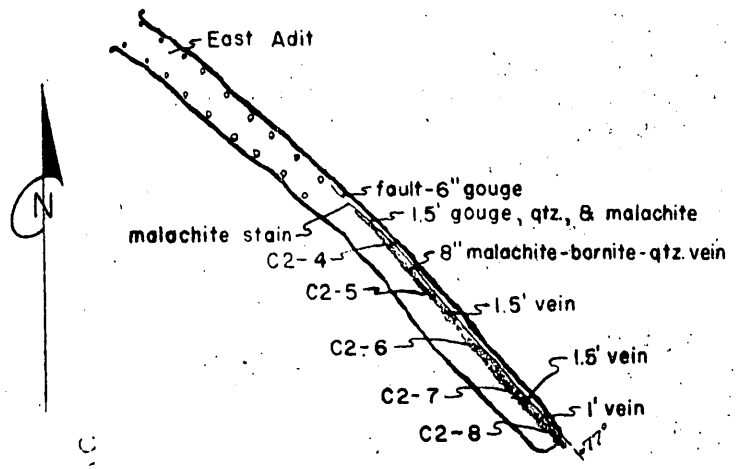
The Copper Canyon Mining Co is a small company owned by the above three persons. These three owners have the desire and the ability to successfully complete the work as outlined and are able to pay for their share of the cost of same.

6. Estimate of Costs;

Labor at face	$8000.00	
Labor outside	-3000.00	$11000.00
Materials and Supplies:		
Compressor supplies incl fuel	1500.00	
Ventilation pipe	500.00	
Tools and supplies incl chain saw	395.00	
Maintenance of truck	400.00	
Electric cap lights	50.00	
Drill steel-fittings-hose	500.00	
Lumber-timbers for portal	400.00	
Air and water pipe	600.00	
Powder-fuse and caps	2000.00	
Rails and ties	1050.00	
Buildings--1 drying room 1 bunk house	1100.00	8495.00
Supervision and overhead:		
Supervisor salary	4000.00	
Social Security	300.00	
State industrial insurance	992.00	
Overhead expense on labor	500.00	
Cartage of supplies	200.00	
Road maintenance and clearing	1000.00	6792.00
Equipment:		
Rent of Drifter	588.00	
1 mine car	100.00	
Rent 7.5 KW Generating Plant	1048.00	
Ventilating fan and motor	170.00	
Rent of compressor (160 cu ft)	1696.00	3602.00
Total estimated cost		29889.00
Plus 10% for possible contingencies		2988.90
		32877.90

delete ~~Note: Please return the enclosed map and smelter statement.~~

Note: It is felt that a unit cost contract would be more practical for the operator in this project.

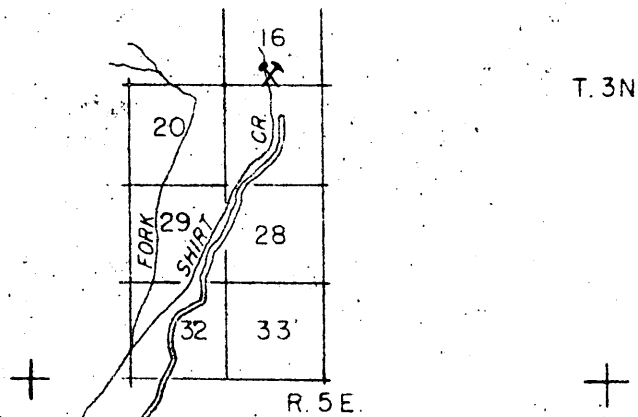


BUREAU OF MINES SAMPLES

Sample No.	% Cu	oz Ag/ton	Remarks
C2-4	2.15	3.20	0.5' channel
C2-5	11.2	7.46	0.8' channel
C2-6	5.80	4.86	1.5' channel
C2-7	2.5	0.84	1.5' channel
C2-8	2.0	0.98	1.0' channel

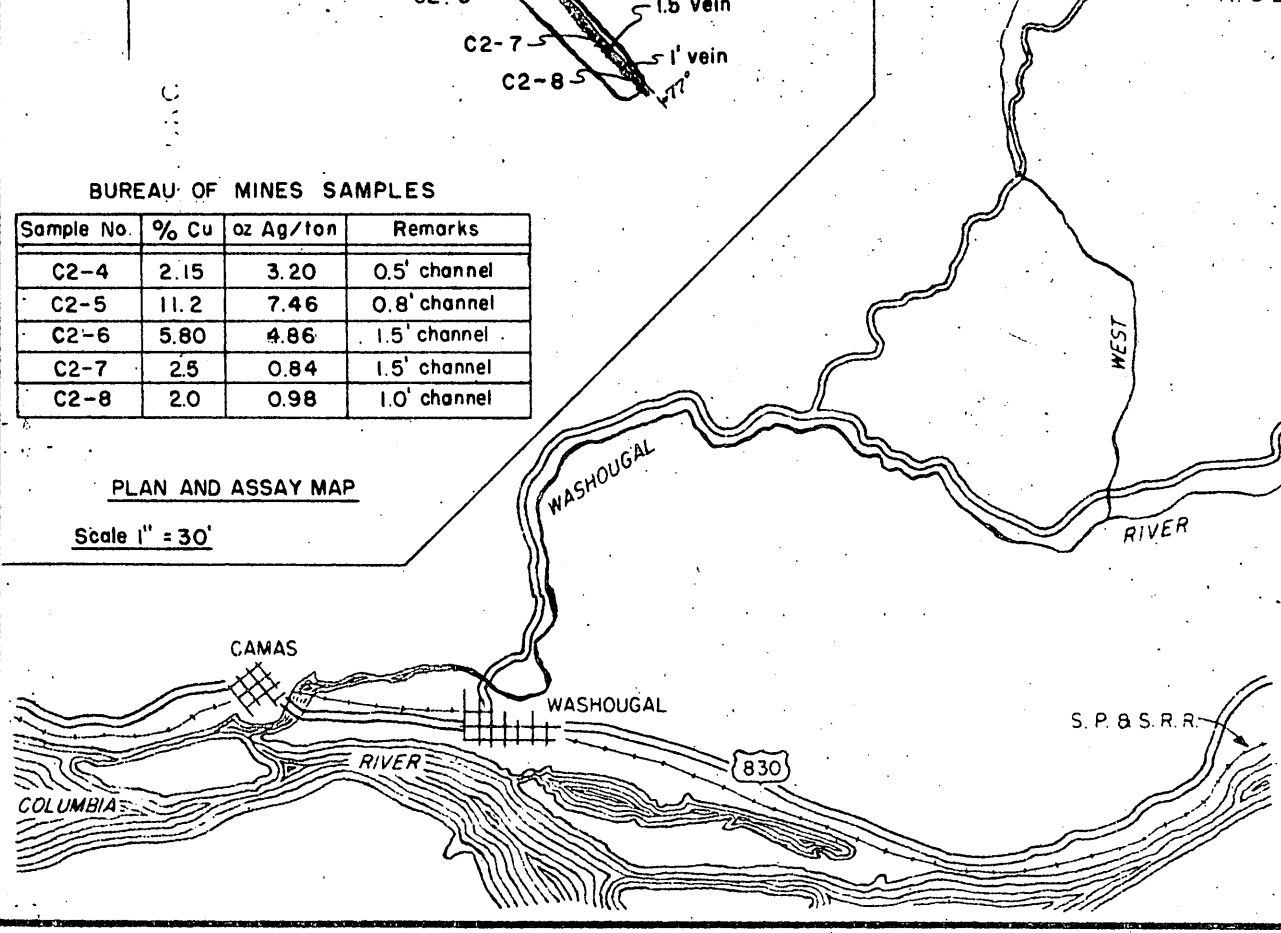
PLAN AND ASSAY MAP

Scale 1" = 30'



INDEX MAP

Scale 1" = 2 miles



U. S. DEPARTMENT OF THE INTERIOR

BUREAU OF MINES

COPPER CANYON PROSPECT

SKAMANIA COUNTY, WASH.

ENG'R. L. CHICHESTER	FEB. 1953
DRAWN L. G. C	

E 1925

FORM 6-A SHORT 50M

TACOMA SMELTER

AMERICAN SMELTING AND REFINING COMPANY
SETTLEMENT STATEMENT

TACOMA, WASHINGTON. MARCH 26, 1954 19

SHIPPER COPPER CANYON MINES (HUGH H. RINGQUIST)
BOX 526, EVERGREEN HIGHWAY
CAMAS, WASHINGTON

MATERIAL BULK ORE

SMELTER LOT 594 MINE LOT DATE RECEIVED MARCH 17-54

CAR OR VESSEL TRUCK ENTRY NO. DATED

GOLD QUOT.	SILVER QUOT.	COPPER QUOT. DOMESTIC	
DATE	DATE	DATE March 15-20	DATE
$ PER OZ.	LESS	29.67 LESS 2.75 26.92	LESS

PB.	ZN.	AS.	SB.	NI.	BI.	SN.	FE.	SiO2.	CAO.	S.	Al2O3
-	.20	-	-	-			3.8	76.1	2.3	1.5	5.0

LOT NO.	NO. SACKS REC'D.	NET WGT. INCLUDING CLEAN UP	H2O	DRY WEIGHT	ASSAYS AU	ASSAYS AG	ASSAYS CU	CONTENTS GOLD OZS.	CONTENTS SILVER OZS.	CONTENTS COPPER LBS.
		9,160	2.10	8,968		3.59	5.51		16.10	494
						Less .50			2.24	
						" 1 unit Cu				90
									13.86	404

Silver @ 85.25¢ $11.82
Copper @ 26.92 108.76 $120.58

Base Charge $8.00 35.87

DUE SHIPPER $ 84.71

In this case, we are refunding the sampling charge prepaid by the shipper 12.50

$ 97.21

Please return to
COPPER CANYON MINING CO., Inc.
P. O. BOX 567
Camas, Washington

IMPORTANT: If not advised to the contrary within days from date we will assume the returns are satisfactory.

NOTICE: All prices on Ore. not under contract for a specified time, are subject to change without notice. A reasonable size sample of above lot will be held for a period of 30 days.

MC

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
AUG 6 1954
U. S. G. S.
SPOKANE, WASH.

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. 3444
Metal or Mineral Copper
Date Received
Estimated Cost $32,878
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: Copper Canyon Mining Co. Inc.
P.O.Box 567
Camas, Washington
Incorporated under the laws of the State of Washington

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. See note attached

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

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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 [x] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

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Dated August 2, 1954

Copper Canyon Mining Co. Inc.
(Applicant)

By Ernest E. Jacques Pres.

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

COPPER CANYON MINING Co, Inc.
P. O. Box 567
Camas, Washington

1. (c) Ernest E. Bowers, President. 10638 20th Ave So. Seattle 88 Washington
Hugh Ringquist, Vice President. 526 Evergreen Highway, Camas, Wash.
Walter M. Novak, Treasurer. 6403 S.E. 32nd, Portland 2, Oregon.

3. (a) Nine adjoining unpatented mining claims, all in Sec 21, Township 3N, Range 5E, WM, Skamania County, State of Washington

(f)

Claim #	44294	Copper Canyon #2	July 21, 1952	Book H Page 238
"	44295	Copper Canyon #1	July 21, 1952	Book H Page 238
"	44535	Copper Canyon #3	Sept 23, 1952	Book H Page 254
"	44536	Morning	Sept 23, 1952	Book H Page 255
"	45663	The Gem	June 30, 1953	Book H Page 276
"	46030	The Greenleaf	Sept 28, 1953	Book H Page 289
"	46031	The Sunday	Sept 28, 1953	Book H Page 290
"	46146	Idaho #2	Oct 28, 1953	Book H Page 292
"	45030	Idaho	Feb 13, 1953	Book H Page 259

(c) All of the above claims were located by Hugh Ringquist and other persons. The said other persons have deeded their interests to Hugh Ringquist who in turn has deeded to the Copper Canyon Mining Co Inc. All conveyances are of record in Skamania County.

4. (a) The work already done on this property consists of a tunnel approximately 70 feet in length. Some grading and clearing around the mine. An access road to the proposed ~~right~~ site of the new tunnel across the creek. Fair roads run to the mine.

(b) Attached hereto is a copy of the smelter return from the only ore taken from the property. This ore, 4 1/2 tons, was taken from the floor of the tunnel near the face.

(c) The formation consists mainly of a dioritic rock and granite. The vein contains the copper ores bornite, malachite, azurite and chrysocolla. The gangue material being mainly quartz. Attached is a map .

(d) The property is readily accessible by road about 20 miles northeast of Camas, Washington and the Columbia river. Camas would be the shipping point by rail or water, or the ore can be moved by truck from the mine to the smelter at Tacoma at an estimated shipping cost of $8.00 per ton. The road from Camas to the mine is usable throughout the year with the exception of an occasional snow in January or February.

(e) All supplies readily available from Vancouver or Portland within an hours run to the mine. Electric power could be made available thru a 10-12 mile transmission line when production should warrant. Ample water the year around in the east fork of the north fork of the Washougal river that runs thru the property.

5 (b) The strike of the vein on which we wish to drift is northwest-southeast. The portal of the present tunnel lies near the bottom of the canyon on the east side of the creek. The vein continues on the west side and the ore there appears to be richer, bornite predominating. It is proposed to drift 500 feet on the east side and a like distance on the west, using most of the same equipment for both jobs. The slope of the mountains are steep (30° to 40°) so we would soon have a large amount of ore overhead. We have reason to think that the vein will widen with depth. Recent samples taken from the east side tunnel run from 8 to 24%. We are now ready to operate but we need some financial assistance to properly explore the possibilities of this prospect. 500 feet of tunnel on both sides should expose sufficient ore bodies to make this an important discovery.

(c) The work can start immediately from the date of the contract and should take approximately 4 months for each tunnel, a total of 8 months but we would like to be allowed 12 months to complete.

COPPER CANYON MINING CO., Inc.
P. O. Box 567
Camas, Washington

5. (d) Personnel;

Hugh Ringquist, Vice President of the company has been engaged in mining most of his life (40 years) He will supervise the operation and give his entire time to this job.

Walter M. Novak, Treasurer, a graduate mechanical engineer is engaged in business in Portland

Ernest E. Bowers, President, business man in Seattle. Both of the last two named will be closely in contact to this project at all times. We have as a consultant Mr. A. M. Andresen for many years a successful mining man from Fairbanks Alaska.

The Copper Canyon Mining Co is a small company owned by the above three persons. These three owners have the desire and the ability to successfully complete the work as outlined and are able to pay for their share of the cost of same.

6. Estimate of Costs;

Labor at face	$8000.00	
Labor outside	3000.00	$11000.00
Materials and Supplies:		
Compressor supplies incl fuel	1500.00	
Ventilation pipe	500.00	
Tools and supplies incl chain saw	395.00	
Maintenance of truck	400.00	
Electric cap lights	50.00	
Drill steel-fittings-hose	500.00	
Lumber-timbers for portal	400.00	
Air and water pipe	600.00	
Powder-fuse and caps	2000.00	
Rails and ties	1050.00	
Buildings--1 drying room 1 bunk house	1100.00	8495.00
Supervision and overhead:		
Supervisor salary	4000.00	
Social Security	300.00	
State industrial insurance	992.00	
Overhead expense on labor	300.00	
Cartage of supplies	200.00	
Road maintenance and clearing	1000.00	6792.00
Equipment:		
Rent of Drifter	588.00	
1 mine car	100.00	
Rent 7.5 KW Generating Plant	1048.00	
Ventilating fan and motor	170.00	
Rent of compressor (160 cu ft)	1696.00	3602.00
Total estimated cost		29889.00
Plus 10% for possible contingencies		2988.90
		32877.90

Pellite ~~Note: Please return the enclosed map and smelter statement.~~

Note: It is felt that a unit cost contract would be more practical for the operator in this project.

FORM 6-A SHORT SOM

TACOMA SMELTER

AMERICAN SMELTING AND REFINING COMPANY
SETTLEMENT STATEMENT

TACOMA, WASHINGTON. MARCH 26, 1954

SHIPPER COPPER CANYON MINES (HUGH H. RINGQUIST)
BOX 526, EVERGREEN HIGHWAY
CAMAS, WASHINGTON

MATERIAL BULK ORE

SMELTER LOT 594 MINE LOT DATE RECEIVED MARCH 17-54

CAR OR VESSEL TRUCK ENTRY NO. DATED

GOLD QUOT.	SILVER QUOT.	COPPER QUOT. DOMESTIC	
DATE	DATE	DATE March 15-20	DATE
$ PER OZ.	LESS	29.67 LESS 2.75 26.92	LESS

PB.	ZN.	AS.	SB.	NI.	BI.	SN.	FE.	SiO2.	CAO.	S.	Al2O3
-	.20	-	-	-			3.8	76.1	2.3	1.5	5.0

LOT NO.	NO. SACKS REC'D.	NET WGT. INCLUDING CLEAN UP.	H2O	DRY WEIGHT	ASSAYS AU	AG	CU	CONTENTS GOLD OZS.	SILVER OZS.	COPPER LBS.
		9,160	2.10	8,968		3.59	5.51		16.10	494
						Less .50			2.24	
						" 1 unit Cu				90
									13.86	404

Silver @ 85.25¢ $11.82
Copper @ 26.92 108.76 $120.58

Base Charge $8.00 35.87

DUE SHIPPER $ 84.71

In this case, we are refunding the sampling charge prepaid by the shipper 12.50

$ 97.21

Please return to
COPPER CANYON MINING CO., Inc.
P. O. Box 567
Camas, Washington

IMPORTANT: If not advised to the contrary within days from date we will assume the returns are satisfactory.

NOTICE: All prices on Ore. not under contract for a specified time, are subject to change without notice.
A reasonable size sample of above lot will be held for a period of 30 days.

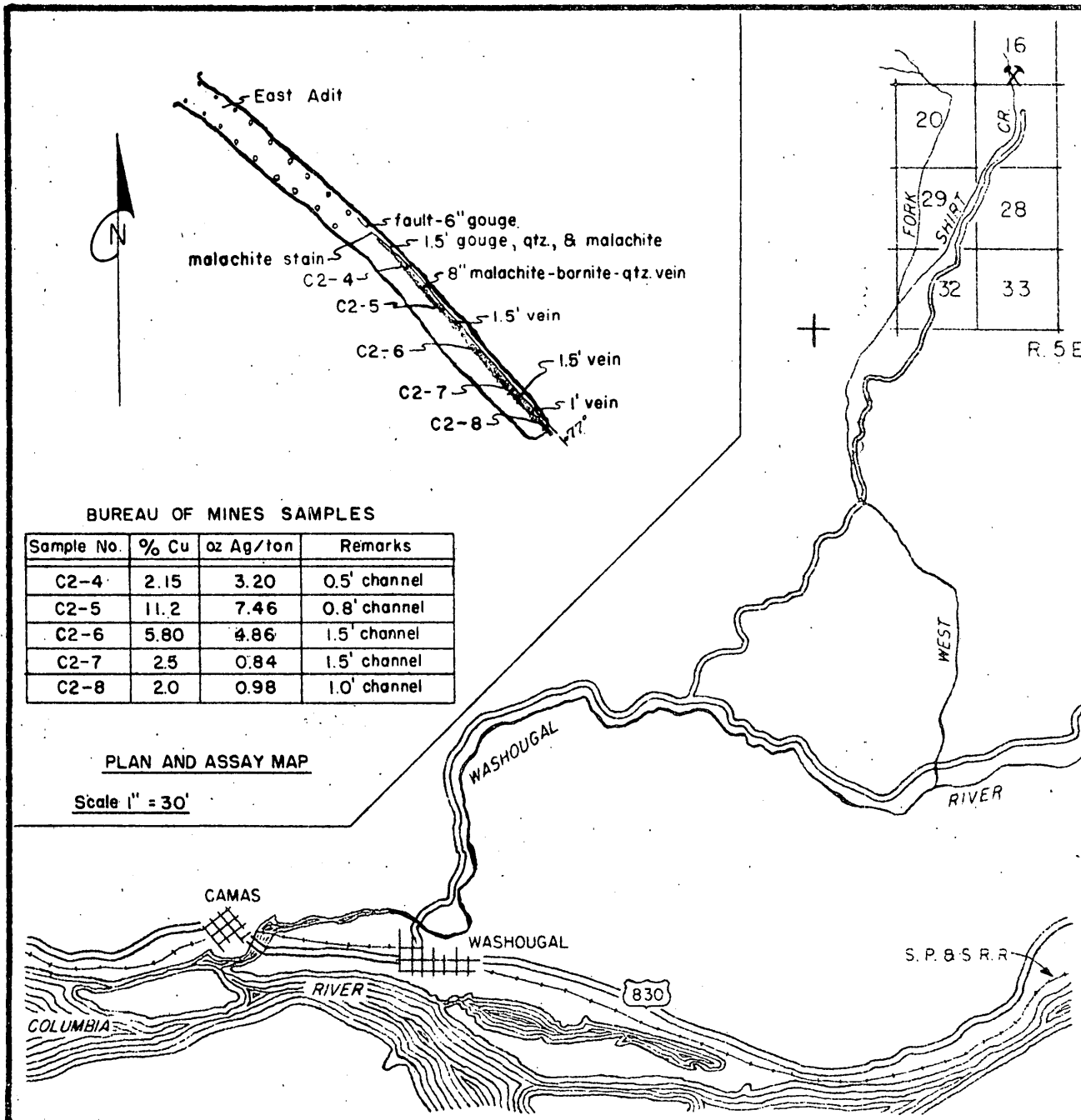
MC

BUREAU OF MINES SAMPLES

Sample No.	% Cu	oz Ag/ton	Remarks
C2-4	2.15	3.20	0.5' channel
C2-5	11.2	7.46	0.8' channel
C2-6	5.80	4.86	1.5' channel
C2-7	2.5	0.84	1.5' channel
C2-8	2.0	0.98	1.0' channel

PLAN AND ASSAY MAP

Scale 1" = 30'



INDEX MAP

Scale 1" = 2 miles

U. S. DEPARTMENT OF THE INTERIOR

BUREAU OF MINES

COPPER CANYON PROSPECT

SKAMANIA COUNTY, WASH.

ENG'R L. CHICHESTER	FEB. 1953
DRAWN L G C	

E-1-825

AIR MAIL

AIR MAIL

9-160 C
RETURN IF NOT DELIVERED
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 2659
Juneau, Alaska
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(GPO)

Operating Committee
Defense Minerals Exploration Adminis.
Washington 25, D. C.