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File Copy
Surname

Kilsgaard
J Lewis
Selfridge
K Johnson

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

DEC 23 1954

Mr. Vernon M. Osterberg, Partner
Devils Canyon Mining Company
Route 1, Box 97
Port Blakely, Washington

Re: Docket No. DMEA-3557 (Copper-Molybdenum)
Devils Canyon Mining Company
Buena Vista Mining District
King County, Washington

Dear Mr. Osterberg:

Your application 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-molybdenum mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

G. O. Mittendorf

Administrator

WRGriswld/er 12/20/54
Copy to: Docket
Admr. R. File
Op. Committee
Region II (2)
Base Metals
Mr. C. H. Johnson, USBM
Mr. Kiilsgaard, USGS
Chron.

R.C.S.

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

December 20, 1954

Memorandum

To: Administrator

From: Chief, Base Metals Division

Subject: Denial of Application, Docket No. DMEA-3557, Vernon M. Osterberg, Devil's Canyon Mining Co. Buena Vista Mining District, King County, Washington, Copper-Molybdenum

The cited application is based upon the existence of weak fracture zones in grano-diorite. A little bit of casual mineralization (copper and molybdenum) is noted in and near the fractures, but evidently the mineralization was not sufficiently intense to be of a significant nature.

W. R. Griswold

File Copy
Surname

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

December 20, 1954

Memorandum

To: Administrator

From: Chief, Base Metals Division

Subject: Denial of Application, Docket No. DMEA-3557, Vernon M. Osterberg, Devil's Canyon Mining Co. Buena Vista Mining District, King County, Washington, Copper-Molybdenum

The cited application is based upon the existence of weak fracture zones in grano-diorite. A little bit of casual mineralization (copper and molybdenum) is noted in and near the fractures, but evidently the mineralization was not sufficiently intense to be of a significant nature.

W. R. Griswold

WRG/er

Copy to: Docket
Base Metals
Chron.

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
DEC 15 1954

December 14, 1954

Re: DMEA-3557
Devils Canyon Mining Company
(Devils Canyon Prospect)
King Co., Wash.
Copper-Molybdenum

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 field examination indicated sparse amounts of chalcopyrite and molybdenite occur in a weak fracture zone in biotite granodiorite. Mineralized joints are common, but too widely spaced to be mined.

Samples taken over widths of 1.5-4.0 feet assayed no gold, 0.1-0.2 oz./ton silver, 0.35-0.55% copper, and .04-0.3% molybdenum.

The amount of mineralization and the general character of the deposit is not sufficiently promising to justify DMEA assistance.

I concur with the 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.

Defense Minerals Administration
RECEIVED
DEC 15 1954

December 14, 1954

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King Co., Wash.
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I concur with the Field Team's conclusions and recommend this application be denied.

E. L. Newcomb

ELNewcomb:hlm
G-12/14/54

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

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

December 9, 1954

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-3557 (Copper-Molybdenum) Devils Canyon Mining Company, King County, Washington

I have reviewed the examination report by Puffett, November 23, 1954, transmitted with and concurred in by the Field Team November 30, 1954. The examination appears to have been made with care, and the information reported fully justifies the recommended denial. Sampling and mapping of the best showings indicated that only very small tonnages of material containing a few tenths of a percent of copper, and minor molybdenum, could be expected.

C. H. Johnson

C. H. Johnson

Copy to - T. H. Kiilsgaard, USGS
Minerals Division
Base Metals Branch
Files

So. 157 Howard Street
Spokane 4, Washington

November 30, 1954

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

Re: Docket No. DMEA-3557 (copper-molybdenum)
Devils Canyon Mining Company
King County, Washington

Dear Mr. Selfridge:

Enclosed are the original and three copies of an examination report on the cited docket which has been prepared by Willard P. Puffett, Geologist, Geological Survey.

The Field Team concurs with Mr. Puffett's recommendation that the application be denied on the basis that the sparse amount of disseminated ore minerals exposed on the applicant's property does not suggest that further exploration is justified.

By Field Team, Region II

A. E. Weissenborn, Executive Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosure 1 (in quad.)
cc: USGM (2)
Puffett

12-8-54
(Date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D.C.
[illegible] Howard Street
Spokane 4, Washington

November 23, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3557 (copper-molybdenum), Application examination, Devils Canyon Mining Company, Buena Vista Mining District, King County, Washington

APPLICANT

Vernon H. Osterberg, Route 1, Box 77, Port Blakely, Washington
Dr. G. M. Osterberg, 5106 12th Ave. NE, Seattle, Washington
Carl Johnston, 245 S. Montgomery Street, Bremerton, Washington
Edwin Saurers, Box 301, North Bend, Washington
J. B. Pennington, 2563 Perkins Lane, Seattle, Washington

dba Devil's Canyon Mining Company, a partnership
803 Central Building
Seattle, Washington

SUMMARY

The applicants have found some sparsely disseminated chalcopyrite and molybdenite in a very weakly defined fracture zone near the base of a steep cliff of biotite granodiorite. The ore minerals occur within a few inches of prominent joints which strike about N. 10° E. and dip about 70° either to the east or to the west. Moderate amounts of iron stain mark the location of the higher grade concentrations of the ore sulfides. The joints along which the ore sulfides occur are not closely spaced, and the intervening areas between the joints are essentially barren of sulfides. Some of the mineralized areas along the joints are rich enough to be mined, and the mineralized zones are too widely spaced to constitute a minable large low-grade deposit. Three samples of the mineralized zones assayed nil gold, from 0.1 to 0.4 ounce per ton of silver, from 0.35 to 0.50 percent copper, and from 0.015 to 0.302 percent molybdenite. The highest grade molybdenite assay is from a selected sample showing the highest concentration of molybdenite.

RECOMMENDATION

It is recommended that the application be denied.

12-8-54

EXAMINATION

The Devil's Canyon Mining Company prospect was examined for DMEA by Willard P. Puffett, geologist, Geological Survey, on Thursday, November 11, 1954. Mr. Edwin Saurers and his son Ralph and Mr. Carl Johnston, members of the partnership, accompanied the DMEA examiner. An entire day was spent on the examination, of which 3½ hours were spent in examining, mapping, and sampling the prospect and the rest in traveling to and from the property.

NAME AND LOCATION OF PROPERTY

The Devil's Canyon Mining Company property comprises 10 unpatented claims in sec. 27, T. 25 N., R. 10 E., W.M., Buena Vista mining district, King County, Washington. These claims are a part of the 28 unpatented claims formerly owned by Consolidated Molybdenum, Incorporated. Apparently the Devil's Canyon Mining Company represents a reorganization by members of the former corporation, which had previously submitted an application for DMEA assistance under Docket No. DMA-1658K. Figure 1 shows the outline and names of the claims listed in the present application. According to the application these 10 claims are recorded in Mining Records of King County, Washington, vol. 18, pages 372 to 379, inclusive. The records were not checked by the DMEA examiner.

The property can be reached by driving north from North Bend, Washington, along the road which follows the North Fork of the Snoqualmie River. From this road, a mine to market road extends to near the junction of Lennox Creek and Cougar Creek. The end of the road is 26 miles from Highway 10 in North Bend. The road is in fair condition throughout its entire length and can probably be used all year except during periods of heavy snowfall.

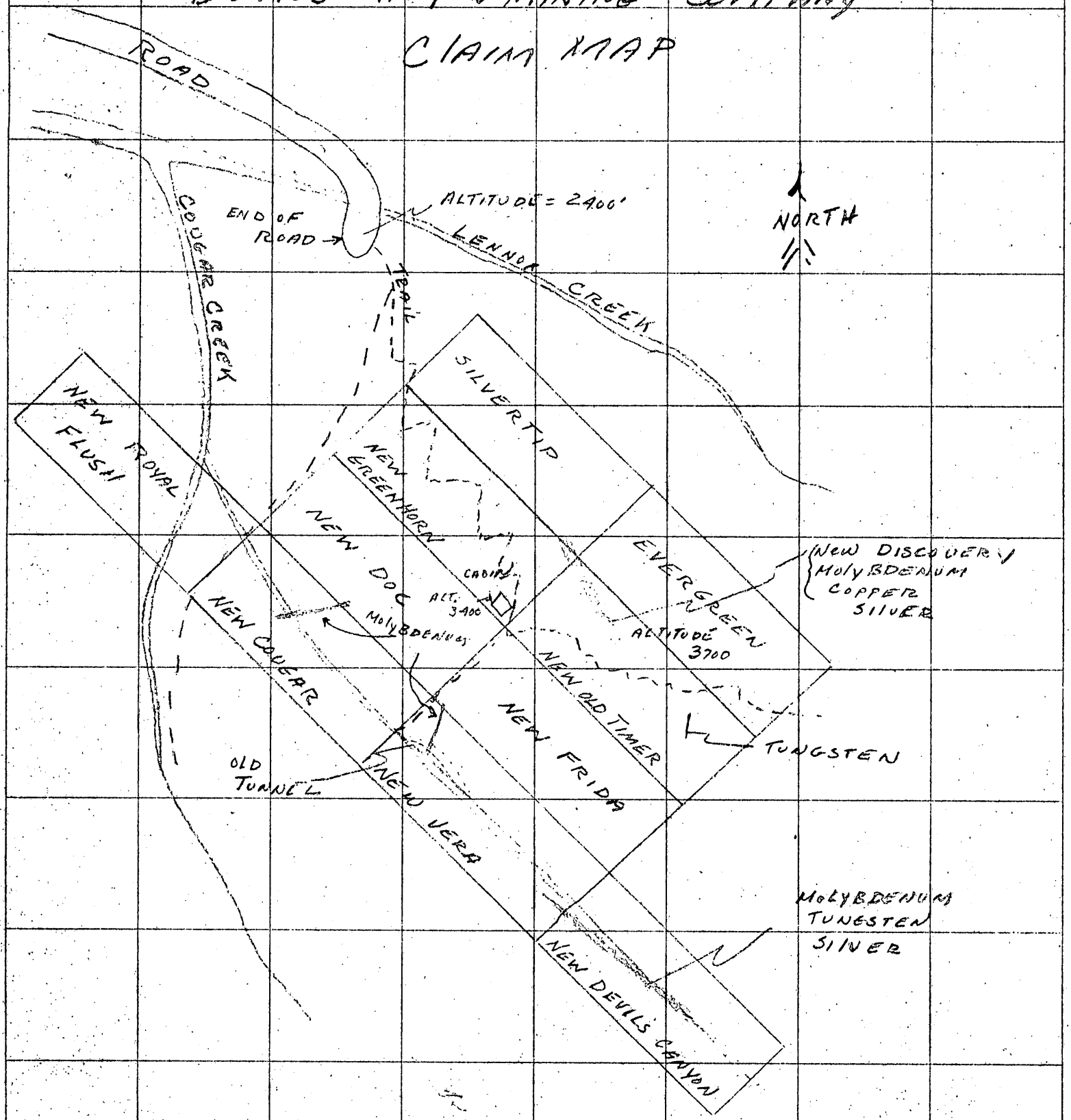
From the end of the road, at an altitude of 2,400 feet, a trail leads southward up a relatively steep timber-covered slope to an old cabin on the New Greenhorn claim, at an altitude of 3,400 feet. Here the trail branches, one branch continuing to the old workings on the New Devil's Canyon claim, the other branch leading eastward up the hill to the new discovery on the New Old Timber claim.

This south hillslope is covered with a moderate to heavy stand of timber composed predominantly of hemlock, although at the higher altitudes considerable Alaskan cedar and fir are growing.

The new discovery is near the base of a steep, bare cliff of granodiorite, below which is an extensive talus deposit. A short adit, probably an old cave, occurs near the base of the cliff, to the west of a deep ravine. There are no other workings on this prospect.

Docket No. DMEA 3557 (Cu, Mo)

DEVIL'S CANYON MINING COMPANY
CLAIM MAP



TRACED FROM MAP SUBMITTED BY APPLICANT

FIGURE 1

"ALBANENE" No. 190M K&E CO., N.Y. REG. U.S. PAT. OFF.

COMPETENCY OF APPLICANT

Mr. David Saurers, partner, has been engaged in prospecting and mining operations in the Devil's Canyon area for a number of years. The other members of the partnership have been interested in mining in the area for a number of years, but it is believed that most of this interest has been to grubstake numerous prospectors. Insofar as is known, none of the partners have ever been associated with a producing mine, and therefore it is extremely doubtful that there are men within the partnership competent to supervise a mining operation.

GEOLOGY

Available maps show that the entire area surrounding the applicant's prospect is underlain by Snoqualmie granodiorite. Two miles to the south a quartz diorite complex has been mapped.

Numerous small mining properties occur throughout the area. These include the Priestley Mining Company property, the Jack Pot mine, the Bear Basin mine, and the Rainbow mine. All of these properties have apparently been developed along persistent shear zones in the granodiorite, in which chalcopyrite, molybdenite, scheelite, and gold and silver minerals have been deposited in varying concentrations. Insofar as is known, none of the mining properties in the area have had any significant production.

Figure 2 is a sketch map of the Devil's Canyon prospect. Near the base of a steep, bare cliff of granodiorite, sparse to moderate amounts of iron stain with scant copper stain has marked the location of the ore minerals. These ore minerals are chalcopyrite, molybdenite, bornite, and various copper carbonates.

A prominent group of joints are exposed in the granodiorite. These joints strike from N. 10° E. to N. 20° E. and dip from 70° E. to 75° W. The ore minerals are found to be concentrated in bands near the joints, extending away from the joints for only a few inches. Within the mineralized portion of the granodiorite, the percentage of ore minerals is low, probably not exceeding 1 or 2 percent copper.

Between the mineralized zones, the granodiorite appears quite fresh with no visible evidence of hydrothermal alteration. Biotite is the only mafic mineral present. A few pieces of float were found in the area which contain hornblende as the mafic mineral. It may be that there is a broad altered zone in which the sulfides occur where the only evidence of alteration is the formation of biotite from the amphibole minerals. A few tiny grains of chalcopyrite were seen in the granodiorite at a few places some distance from prominent joints, but these few scattered grains of chalcopyrite are not believed to represent any indication of the proximity of an ore body.

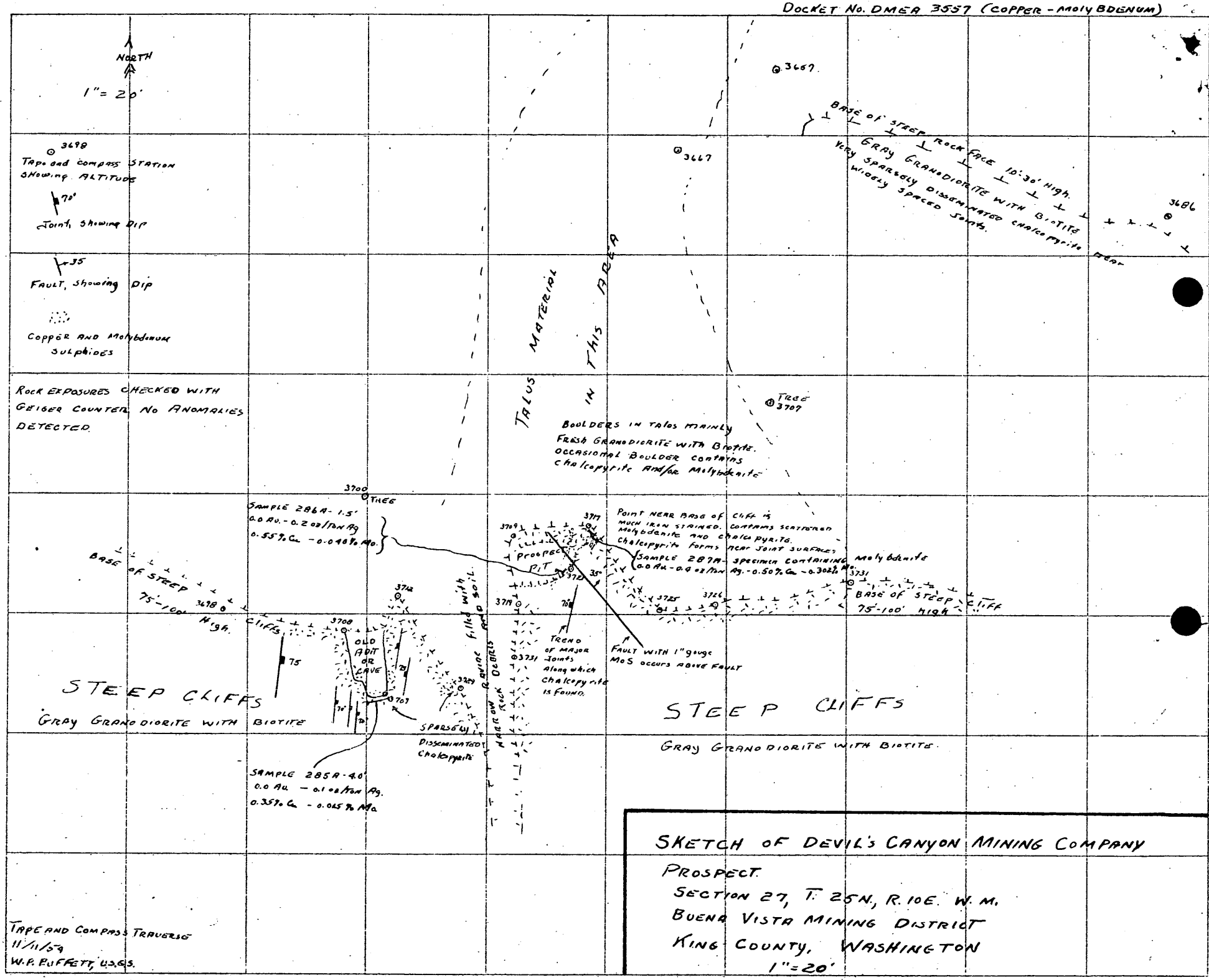

NORTH
1" = 20'
3698
Tape and compass station showing altitude
70°
Joint, showing dip
35
Fault, showing dip
Copper and Molybdenum sulphides
Rock exposures checked with Geiger counter. No anomalies detected.
3667
Base of steep rock face 10'-30' high.
Gray Granodiorite with Biotite very sparsely disseminated chalcopyrite near widely spaced joints.
3686
Talus material in this area
Boulders in talos mainly fresh Granodiorite with Biotite. Occasional boulder contains chalcopyrite and/or Molybdenite
Tree 3707
3700
Tree
Sample 286A - 1.5'
0.0 Au. - 0.2 oz/ton Ag
0.55% Cu - 0.048% Mo.
Prospect pit
3719
3709
Point near base of cliff is much iron stained. Contains scattered Molybdenite and chalcopyrite. Chalcopyrite forms near joint surfaces
Sample 287A - specimen containing Molybdenite
0.0 Au - 0.9 oz/ton Ag. - 0.50% Cu - 0.302% Mo.
3731
3725
3726
Base of steep cliff 75'-100' high
Base of steep 75'-100' high cliffs
3698
3708
3712
Old adit or cave
Filled with talus soil
Talus and rock debris
3729
3707
75
70°
Steep cliffs
Gray Granodiorite with Biotite
Sparsely disseminated chalcopyrite
Trend of major joints along which chalcopyrite is found.
Fault with 1" gouge MoS occurs above fault
Steep cliffs
Gray Granodiorite with Biotite
Sample 285A - 4.0'
0.0 Au - 0.1 oz/ton Ag.
0.35% Cu - 0.045% Mo
Tape and compass traverse
11/11/59
W.P. Puffett, U.S.G.S.
Sketch of Devil's Canyon Mining Company Prospect
Section 27, T. 25N., R. 10E. W.M.
Buena Vista Mining District
King County, Washington
1" = 20'

Figure 2

Although a few specimens of float near the base of the cliff contain sparse to moderate amounts of molybdenite, this mineral was found at only one locality in the cliff face. This is in the "nose" of the cliff just to the east of the ravine marked on the accompanying map (fig. 2). The molybdenite appeared to be concentrated near a prominent joint just above a flat fault, which is marked by about 1 inch of gouge. A selected sample of the higher-grade portion of the rock in which the molybdenite occurs assayed 0.0 gold, 0.4 ounce per ton of silver, 0.50 percent copper, and 0.302 percent molybdenum.

A sample 4 feet wide, taken of the mineralized area in the face of the short adit, assayed no gold, 0.1 ounce per ton of silver, 0.35 percent copper, and 0.015 percent molybdenum. Another sample taken in a small prospect pit above the higher-grade molybdenum occurrence assayed no gold, 0.2 ounce per ton silver, 0.55 percent copper, and 0.040 percent molybdenum, over a width of 1.5 feet. No other localities appeared worthy of sampling.

The man accompanying the examiner showed him a location a few tens of feet down the hill where sparsely disseminated chalcopyrite occurs in the face of a steep ledge of the granodiorite. Careful inspection showed that here again the chalcopyrite occurred as sparse disseminations of the ore mineral near joints in the rock. No samples were taken in this area.

APPLICANT'S PROPOSAL

The applicant did not submit any definite proposal for exploration with his application. A generalized statement saying that core drilling and tunnelling are imperative for further examination was all that was included.

Prior to the examination, a short conference was held with Mr. V. M. Osterberg, in Seattle, Washington. He stated that the company wanted to spend about $1,000 or $2,000 in exploration.

CONCLUSIONS

The sparse amount of disseminated ore minerals exposed on the applicant's property does not suggest that further exploration is justified.

Distribution:
- DMEA (Orig. & 3)
- USBM (2)
- USGS (GRU)
- Rocket
- Puffett

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

November 30, 1954

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

Re: Docket No. DMEA-3557 (copper-molybdenum)
Devils Canyon Mining Company
King County, Washington

Dear Mr. Selfridge:

Enclosed are the original and three copies of an examination report on the cited docket which has been prepared by Willard P. Puffett, Geologist, Geological Survey.

The Field Team concurs with Mr. Puffett's recommendation that the application be denied on the basis that the sparse amount of disseminated ore minerals exposed on the applicant's property does not suggest that further exploration is justified.

By Field Team, Region II

A. E. Weissenborn

A. E. Weissenborn, Executive Officer
U. S. Geological Survey

Wing G. Agnew

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosure 1 (in quad.)
cc: USBM (2)
Puffett

Reviewed by
DMEA OPERATING COMMITTEE
12-8-54
(date)

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

November 23, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3557 (copper-molybdenum), Application examination, Devils Canyon Mining Company, Buena Vista Mining District, King County, Washington

APPLICANT

Vernon M. Osterberg, Route 1, Box 97, Port Blakely, Washington
Dr. G. M. Osterberg, 6106 12th Ave. NE, Seattle, Washington
Carl Johnston, 245 S. Montgomery Street, Bremerton, Washington
Edwin Saurers, Box 301, North Bend, Washington
J. B. Pennington, 2563 Perkins Lane, Seattle, Washington

dba Devil's Canyon Mining Company, a partnership
803 Central Building
Seattle, Washington

Reviewed by
DMEA OPERATING COMMITTEE
12-8-54
(date)

SUMMARY

The applicants have found some sparsely disseminated chalcopyrite and molybdenite in a very weakly defined fracture zone near the base of a steep cliff of biotite granodiorite. The ore minerals occur within a few inches of prominent joints which strike about N. 10° E. and dip about 70° either to the east or to the west. Moderate amounts of iron stain mark the location of the higher grade concentrations of the ore sulfides. The joints along which the ore sulfides occur are not closely spaced, and the intervening areas between the joints are essentially barren of sulfides. None of the mineralized areas along the joints are rich enough to be mined, and the mineralized zones are too widely spaced to constitute a minable large low-grade deposit. Three samples of the mineralized zones assayed nil gold, from 0.1 to 0.4 ounce per ton of silver, from 0.35 to 0.50 percent copper, and from 0.015 to 0.302 percent molybdenite. The highest grade molybdenum assay is from a selected sample showing the highest concentration of molybdenum.

RECOMMENDATION

It is recommended that the application be denied.

EXAMINATION

The Devil's Canyon Mining Company prospect was examined for DMEA by Willard P. Puffett, geologist, Geological Survey, on Thursday, November 11, 1954. Mr. Edwin Saurers and his son Ralph and Mr. Carl Johnston, members of the partnership, accompanied the DMEA examiner. An entire day was spent on the examination, of which 3½ hours were spent in examining, mapping, and sampling the prospect and the rest in traveling to and from the property.

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The property can be reached by driving north from North Bend, Washington, along the road which follows the North Fork of the Snoqualmie River. From this road, a mine to market road extends to near the junction of Lennox Creek and Cougar Creek. The end of the road is 26 miles from Highway 10 in North Bend. The road is in fair condition throughout its entire length and can probably be used all year except during periods of heavy snowfall.

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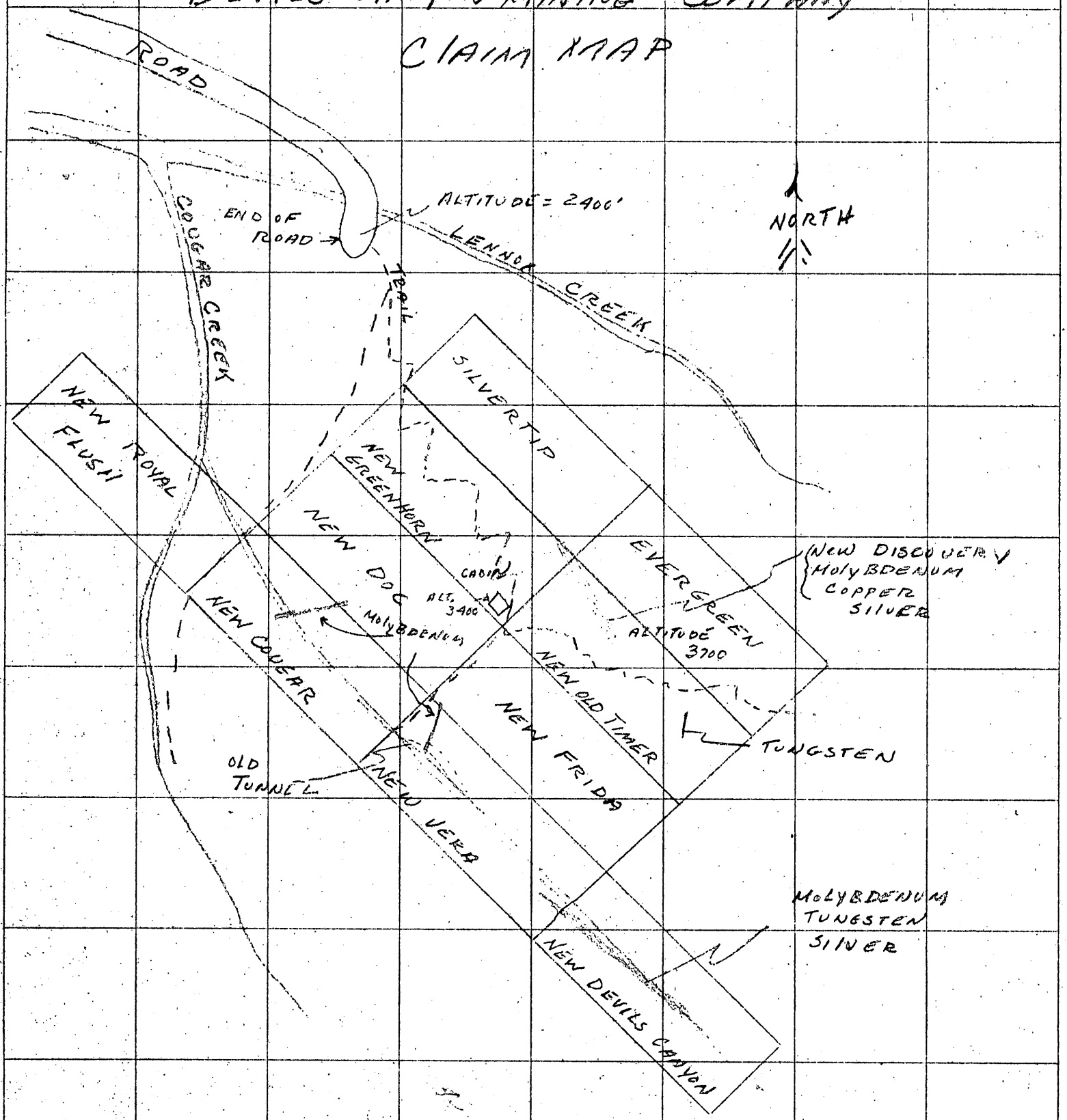
The new discovery is near the base of a steep, bare cliff of granodiorite, below which is an extensive talus deposit. A short adit, probably an old cave, occurs near the base of the cliff, to the west of a deep ravine. There are no other workings on this prospect.

Docket No. DMEA 3557 (Cu, Mo)

DEVIL'S CANYON MINING COMPANY
CLAIM MAP



TRACED FROM MAP SUBMITTED BY APPLICANT

FIGURE 1

"ALBANENE" No. 195M-K&E CO., N.Y. REG. U.S. PAT. OFF.

COMPETENCY OF APPLICANT

Mr. Edwin Saurers, partner, has been engaged in prospecting and mining operations in the Devil's Canyon area for a number of years. The other members of the partnership have been interested in mining in the area for a number of years, but it is believed that most of this interest has been to grubstake numerous prospectors. Insofar as is known, none of the partners have ever been associated with a producing mine, and therefore it is extremely doubtful that there are men within the partnership competent to supervise a mining operation.

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Available maps show that the entire area surrounding the applicant's prospect is underlain by Snoqualmie granodiorite. Two miles to the south a quartz diorite complex has been mapped.

Numerous small mining properties occur throughout the area. These include the Priestley Mining Company property, the Jack Pot mine, the Bear Basin mine, and the Rainbow mine. All of these properties have apparently been developed along persistent shear zones in the granodiorite, in which chalcopyrite, molybdenite, scheelite, and gold and silver minerals have been deposited in varying concentrations. Insofar as is known, none of the mining properties in the area have had any significant production.

Figure 2 is a sketch map of the Devil's Canyon prospect. Near the base of a steep, bare cliff of granodiorite, sparse to moderate amounts of iron stain with scant copper stain has marked the location of the ore minerals. These ore minerals are chalcopyrite, molybdenite, bornite, and various copper carbonates.

A prominent group of joints are exposed in the granodiorite. These joints strike from N. 10° E. to N. 20° E. and dip from 70° E. to 75° W. The ore minerals are found to be concentrated in bands near the joints, extending away from the joints for only a few inches. Within the mineralized portion of the granodiorite, the percentage of ore minerals is low, probably not exceeding 1 or 2 percent copper.

Between the mineralized zones, the granodiorite appears quite fresh with no visible evidence of hydrothermal alteration. Biotite is the only mafic mineral present. A few pieces of float were found in the area which contain hornblende as the mafic mineral. It may be that there is a broad altered zone in which the sulfides occur where the only evidence of alteration is the formation of biotite from the amphibole minerals. A few tiny grains of chalcopyrite were seen in the granodiorite at a few places some distance from prominent joints, but these few scattered grains of chalcopyrite are not believed to represent any indication of the proximity of an ore body.

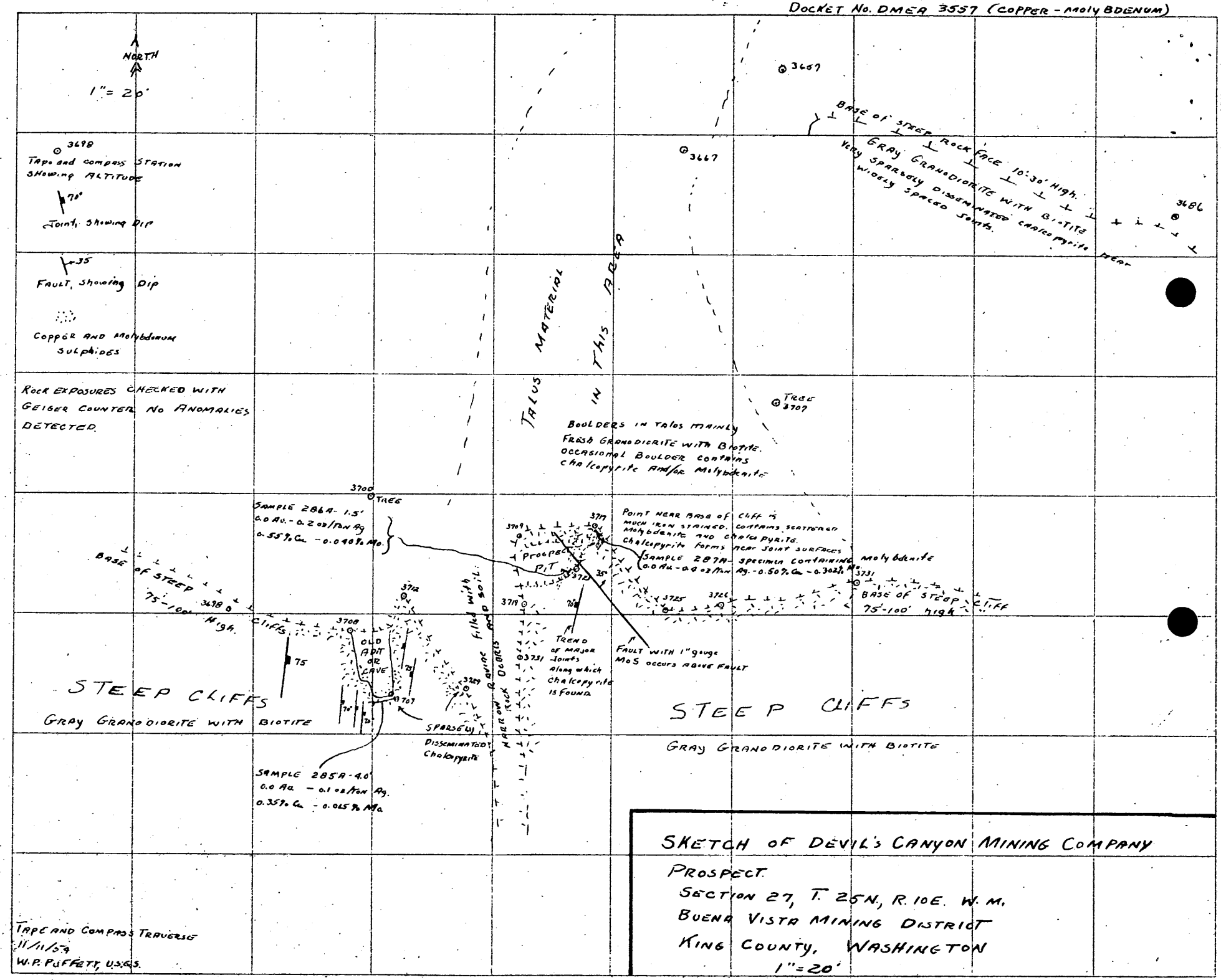

Figure 2

"ALBANENE" NO. 195M K&E CO., N.Y. REG. U.S. PAT. OFF.

Although a few specimens of float near the base of the cliff contain sparse to moderate amounts of molybdenite, this mineral was found at only one locality in the cliff face. This is in the "nose" of the cliff just to the east of the ravine marked on the accompanying map (fig. 2). The molybdenite appeared to be concentrated near a prominent joint just above a flat fault, which is marked by about 1 inch of gouge. A selected sample of the higher-grade portion of the rock in which the molybdenite occurs assayed 0.0 gold, 0.4 ounce per ton of silver, 0.50 percent copper, and 0.302 percent molybdenum.

A sample 4 feet wide, taken of the mineralized area in the face of the short adit, assayed no gold, 0.1 ounce per ton of silver, 0.35 percent copper, and 0.015 percent molybdenum. Another sample taken in a small prospect pit above the higher-grade molybdenum occurrence assayed no gold, 0.2 ounce per ton silver, 0.55 percent copper, and 0.040 percent molybdenum, over a width of 1.5 feet. No other localities appeared worthy of sampling.

The men accompanying the examiner showed him a location a few tens of feet down the hill where sparsely disseminated chalcopyrite occurs in the face of a steep ledge of the granodiorite. Careful inspection showed that here again the chalcopyrite occurred as sparse disseminations of the ore mineral near joints in the rock. No samples were taken in this area.

APPLICANT'S PROPOSAL

The applicant did not submit any definite proposal for exploration with his application. A generalized statement saying that core drilling and tunnelling are imperative for further examination was all that was included.

Prior to the examination, a short conference was held with Mr. V. M. Osterberg, in Seattle, Washington. He stated that the company wanted to spend about $1,000 or $2,000 in exploration.

CONCLUSIONS

The sparse amount of disseminated ore minerals exposed on the applicant's property does not suggest that further exploration is justified.

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

Route 1, Box 97 - Port Blakely, Wash
Nov 24, 1954

United States Department of the Interior
Defense Minerals Exploration Administration,
Washington 25, D.C.

RECEIVED
NOV 29 1954

Re: DMEA 3557
Devil's Canyon Mine.

Gentlemen:

Thank you for your letter of acknowledgement of Nov. 10, 1954.

We are sorry your prior letters addressed to 803 Central Bldg, Seattle 4, Wash., were returned, but this was due to the fact we had "slipped up" on notifying the postman. This matter has now been corrected. Thank you for calling this to our attention.

Very truly yours,

Vernon M. Oestreicher

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

November 10, 1954
Subject: DMEA-3557
Re: Exploration Assistance
Devils Canyon Mine

Mr. Vernon M. Osterberg
Devils Canyon Mining Co.
Rt. 1, Box 97
Port Blakely, Washington

Dear Sir:

The receipt of your application dated October 18, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3557 and referred to the Base Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

NOTE: A similar acknowledgment letter, dated November 2, 1954, was sent to the Devils Canyon Mining Co., 803 Central Bldg., Seattle, Washington, and was returned unclaimed.

60932

File Copy
Surname
Griswold
Selfridge
Mitchell

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

NOV 5 - 1954

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-3557 (Copper-Molybdenum-Tungsten)
Devils Canyon Mining Company
Buena Vista Mining District
King County, Washington

Dear Mr. Weissenborn:

We have your letter of October 27 enclosing copies of the cited application.

We note that you have written to the applicant requesting additional information and, if such information is provided, you will then schedule a field examination. We will therefore, hold the matter in abeyance until hearing from you further.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

WRGriswold/er 11/4/54

APPROVED:

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

E. L. Newcomb (HB)
Member, Geological Survey

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

R.C.G.

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

Minerals Administration
RECEIVED
NOV 5 - 1954

November 5, 1954

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-3557 (Copper) Devils Canyon Mining Company, Devils Canyon Mine, King County, Washington

The above-named application is returned herewith. The Field Team states that it will have an examination made as soon as applicant furnishes some requested additional information.

The Bureau of Mines appears to have nothing in its report files on the Devils Canyon mine.

C. H. Johnson

C. H. Johnson

Attachment

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

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

RECEIVED
NOV 5 1954

November 5, 1954

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-3557 (Copper) Devils Canyon Mining Company, Devils Canyon Mine, King County, Washington

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C. H. Johnson

Attachment

CHJohnson:ks

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

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

RECEIVED

November 5, 1954

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-3557 (Copper) Devils Canyon Mining Company, Devils Canyon Mine, King County, Washington

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C. H. Johnson

Attachment

CHJohnson:ks

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

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

November 2, 1954
Subject: DMEA-3557
Re: Exploration Assistance
Devils Canyon Mine

Devils Canyon Mining Co.
803 Central Bldg.
Seattle, Washington

Gentlemen:

The receipt of your application dated October 18, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3557 and referred to the Base Metals Division.

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

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Operations Control and
Statistics Division

Returned unclaimed
11-9-54

60932

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

November 2, 1954
Subject: DMEA-3557
Re: Exploration Assistance
Devils Canyon Mine

Devils Canyon Mining Co.
803 Central Bldg.
Seattle, Washington

Gentlemen:

The receipt of your application dated October 18, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3557 and referred to the Base Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

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

November 2, 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 - 3557 Devils Canyon Mining Co.

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

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

Department of the Interior
Defense Minerals Administration
RECEIVED
NOV 1 - 1954

October 27, 1954

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

Re: Application for exploration aid
(copper-molybdenum-tungsten(?))
Devils Canyon Mining Co.
King County, Washington

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application for aid in an exploration project submitted by Vernon M. Osterberg and others of the Devils Canyon Mining Co. (a partnership), to explore a deposit in the Buena Vista Mining District, King County, Washington.

Attached are copies of a letter we have written to the applicant requesting necessary information which is lacking from the application; a field examination will be scheduled when this information is received.

Yours sincerely,

John S. Vhay

John S. Vhay
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: USBM (2)
Puffett

Bureau of Mines
RECEIVED
NOV 1 - 1954

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

October 27, 1954

Mr. Vernon M. Osterberg
Route 1, Box 97
Port Blakely, Washington

Re: Application for exploration aid
(copper-molybdenum-tungsten(?))
Devils Canyon Mining Co.
King County, Washington

Dear Mr. Osterberg:

Your application for aid in an exploration project has been received and is being forwarded to our Washington office.

You should send us immediately the names of the 10 claims covered by the application, a map of the claims showing all workings, and, if possible, the approximate location on the claims of the ore-bearing structure. Also, please let us know the name and address of whoever will accompany our field examiners when an examination is made of the property.

We will try to schedule a field examination in November if we hear from you.

Sincerely yours,

John S. Vhay
For: A. A. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)
Puffett

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 1 - 1954

October 27, 1954

Mr. Vernon M. Oesterberg
Route 1, Box 97
Port Blakely, Washington

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(copper-molybdenum-tungsten(?))
Devils Canyon Mining Co.
King County, Washington

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Sincerely yours,

John S. Vhay
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
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
OCT 19 1954
U. S. G. S.
SPOKANE, WASH.

DEPARTMENT OF THE INTERIOR
Office Minerals Administration
RECEIVED
NOV 1 - 1954

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3557
Metal or Mineral Copper-Moly-Tung.
Date Received
Estimated Cost Not Given
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: Vernon M Osterberg (Rt 1, Box 97, Port Blakely, Wn) Dr. GM Osterberg (6106 12th Ave NE, Seattle, Wn) Carl Johnston (245 S Montgomery St. Bremerton, Wn) Edwin Saurers (Box 301, North Bend, Wn) JB Pennington (2563 Perkins Lane, Seattle, Wn) dba Devils Canyon Mining Co (a partnership) 803 Central Bldg, Seattle, Wn.

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

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

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract 10 claims, all situated in Sec. 27, twp. 25N., R10E, W.M., Buena Vista Mining District, King County, Wn.

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

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

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

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Claims are recorded in Volume 18, pages 372 to 379, inclusive, Mining Records of King County, Wash.

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. See attached sheet.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. none

(*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. See attached sheet

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

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

All are available, except electric power.

16—66551-1

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Copper, Molybdenum. Later on, Tungsten also.)

(*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. Drive in one tunnel about 40 feet, and core drill.

(*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. See attached sheet

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.). None

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

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

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

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

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

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

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

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

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

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

[X] Money [ ] Use of equipment owned by you [ ] Other

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 Oct 18, 1954, 195__

Devil Canyon Mining Co.
(Applicant)

By Vernon M. Ostberg

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

Minerals Administration
RECEIVED
NOV 1 - 1954

4. (a) Have blasted open face of cliff where new discovery exists. (Old tunnel 200 feet long is on another portion of property.) We are starting new tunnel at new discovery site. We are doing this work ourselves. As to accesibility the present mine to market road has its terminus within ¼ mile of our property.

(c) The ore at the new discovery is mineralized biotite grandiorite and is impregnated with Chalcopyrite, Bornite, Malachite, Molybdenite and Silver. The fault in which this ore is found is 150 to 300 feet wide. The strike runs south. It may be a chimney formation. Overhanging cliffs and overburden.hamper prospecting. Core drilling and tunneling are imperative for further examination. Preliminary assays (we used relatively poor samples to be conservative) are attached. Indications are the ore will increase in value with deeper penetration.

(d) Access road is within ¼ mile of edge of property and within ½ mile of discovery. Additional road can easily be built. Railway is at North Bend, 25 miles away. Same for supplies and residence, except cabins can be built on site for exployees.

5. (d) V. M. Osterberg - 11 years business and mining
Dr. G. M. Osterberg * 50 years Dentistry and Metallurgy
Carl Johnston - 25 years Electrician, 15 years mining
Edwin Saurers - 30 years mining and prospecting
J. B. Pennington - Attorney

6. (b) Miners, $15 - $17 per day. $200 for geological consultant
(c) Powder, fuse, caps, $200
(d) Rental of Core Drilling Outfit - $200
(e) Repairs to present cabin - Roof, new stove, $100
(f) Powder House - $75
(g)
(h) $100

METALLURGICAL LABORATORY
Willis H. Ott

Metallurgists
5200 Airport Way
Seattle 8

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 1 5 1954

No. 4234

CERTIFICATE OF ANALYSIS

Date Sept. 2, 1954

Submitted by Br. Osterberg

Gold ---------- nil

Silver ---------- 0.30 oz. per ton

Copper ---------- 0.73%

MoS_2 ---------- 0.52%

METALLURGICAL LABORATORY

s/ Willis H. Ott

METALLURGICAL LABORATORY
Willis H. Ott

Metalluggists
5200 Airport Way
Seattle 8

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 1 - 1954

No. 4247 CERTIFICATE OF ANALYSIS Date Sept. 9, 1954

Submitted by Dr. Osterberg

Gold ---------- nil

Silver ---------- 0.40 oz. per ton

Copper ---------- 0.82%

Molybdenum ------- 0.25%

METALLURGICAL LABORATORY

s/ Willis H. Ott

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Bureau of Mines
Minerals Administration
RECEIVED
NOV 1 - 1954

October 27, 1954

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

Re: Application for exploration aid
(copper-molybdenum-tungsten(?))
Devils Canyon Mining Co.
King County, Washington

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application for aid in an exploration project submitted by Vernon M. Osterberg and others of the Devils Canyon Mining Co. (a partnership), to explore a deposit in the Buena Vista Mining District, King County, Washington.

Attached are copies of a letter we have written to the applicant requesting necessary information which is lacking from the application; a field examination will be scheduled when this information is received.

Yours sincerely,

John C. Wiley
For: A. L. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: USBM (2)
Puffett

BUREAU OF MINES
DEPARTMENT OF THE INTERIOR
RECEIVED
[illegible] 1954
BASE METALS BRANCH

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Form Approved
Budget Bureau No. 42-R1035.2.

RECEIVED
NOV 1 - 1954

RECEIVED
OCT 19 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. 3557
Metal or Mineral Copper - Moly. - Tung.
Date Received
Estimated Cost NOT GIVEN
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: Vernon Mantenberg (Lot 1, Bx. 57, Port Blakely, Wn) Dr. Ed Unterberg (6104 12th Ave Ne, Seattle, Wn) Carl Johnston (245 S Montgomery St. Ennenton, Wn) Kenin Lowrey (Box 501, Lynch Cove, Wn) Ed Donnington (2503 Perkins Lane, Seattle, Wn) Devils Canyon Mine Co (a partnership) 803 Central Bldg Seattle

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

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

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract 10 claims, all situated in Sec. 27, Twp. 25 N., R10E, W.M., Ross Vi to Indian District, King County, Wn.

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

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

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

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Claims are recorded in Volume 18, Pages 372 to 379, inclusive, Mining Records of King County, Wash.

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(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. None

(*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. See attached sheet

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

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

All are available, except electric power.

16—66551-1

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Copper, Molybdenum, water on, Lucerne also.)

(*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. Drive in one tunnel about 40 feet, and core drill.

(*c*) The work will start within 10 days and be completed within 12 months from the date of an exploration project contract.

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(*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.). None

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

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

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

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

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

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

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

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

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

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

[X] Money [ ] Use of equipment owned by you [ ] Other

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 Oct 18, 1954

Devil's Canyon Mining Co.
(Applicant)

By Vernon M. Osterberg

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

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED

4. (a) Have blasted open face of cliff where new discovery exists. (Old tunnel 200 feet long is on another portion of property.) We are starting new tunnel at new discovery site. We are doing this work ourselves. As to accessibility the present line to market road has its terminus within ¼ mile of our property.

(c) The ore at the new discovery is mineralized biotite grandiorite and is impregnated with Chalcopyrite, Bornite, Malachite, Molybdenite and Silver. The fault in which this ore is found is 150 to 300 feet wide. The strike runs south. It may be a chimney formation. Overhanging cliffs and overburden.hammer prospecting. Core drilling and tunneling are imperative for further examination. Preliminary assays (we used relatively poor samples to be conservative) are attached. Indications are the ore will increase in value with deeper penetration.

(d) Access road is within ¼ mile of edge of property and within ½ mile of discovery. Additional road can easily be built. Railway is at North Bend, 25 miles away. Same for supplies and residence, except cabins can be built on site for employees.

5. (d) V. M. Osterberg - 11 years business and mining
Dr. G. A. Osterberg * 50 years Dentistry and Metallurgy
Carl Johnston - 25 years Electrician, 15 years mining
Edwin Saurers - 30 years mining and prospecting
J. B. Pennington - Attorney

6. (b) Miners, $15 - $17 per day. $200 for geological consultant
(c) Powder, fuse, caps, $200
(d) Rental of Core Drilling Outfit - $200
(e) Repairs to present cabin - Roof, new stove, $100
(f) Powder house - $75
(g)
(h) $100

Metallurgical Laboratory
Willis H. Ott

Metallurgists
5220 Airport Way
Seattle 8

No. ØØ 4234 Certificate of Analysis Date Sept. 2, 1954

Submitted by Dr. Osterberg

Gold ***----------	nil
Silver ----------	0.30 oz. per ton
Copper ----------	0.73%
MoS_2 ----------	0.52%

METALLURGICAL LABORATORY

s/ Willis H. Ott

METALLURGICAL LABORATORY
Willis H. Ott

Metallurgists
5200 Airport Way
Seattle 8

No. 4247 CERTIFICATE OF ANALYSIS Date Sept. 9, 1954

Submitted by Dr. Osterberg

Gold ---------- nil

Silver ---------- 0.40 oz. per ton

Copper ---------- 0.32%

Molybdenum ------- 0.25%

METALLURGICAL LABORATORY

s/ Willis H. Ott