DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMA Docket No. 1979-X

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Routing Slip

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DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMA Docket No. 1979

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This document has been recorded as

EXPLORATION LOAN

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

CODE 310 2612

To: ~~Copper Br.~~ Date 8-20-51

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CONTROLLED DOCUMENT

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

November 29, 1951

Memorandum

To: Reports and Records

From: Acting Administrator
Defense Minerals Exploration Administration

Subject: DMA 1979 - Copper prospect, King County, Washington

Under date of August 17, 1951, Priestley Mining and Milling Company, P.O. Box 278, North Bend, Washington, submitted the subject application, DMA 1979, for an exploration project in the amount of $22,750.

A letter of the same date (Nov. 29, 1951) is being sent to the applicant denying the application because of insufficient evidence to indicate the geologic probability of making a significant discovery.

We herewith return the complete docket, comprised as follows:

2 Copies of form MF-103 with replies to questions attached. Also letter of transmittal.

Letter of acknowledgement dated August 20, 1951.

2 Maps and 2 copies of Review of Application with covering letter.

2 Copies of letter to applicant dated November 2, 1951, advising that application had been referred to the field.

3 Copies of the field team report recommending denial with 5 copies of memo dated October 24, 1951, to M. E. Volin regarding visit to mine. Also memo (5 copies) from executive officer covering same.

Letter dated November 6, 1951, with enclosures (copy of Review of Application, MF-103 and map).

Sincerely yours,

C O Mattheedorf

Acting Administrator
Defense Minerals Exploration
Administration

400
FILE COPY
SURNAME:

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

November 29, 1951

Houk
Nelson
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Theyer
H E Johnson
Mittendorf

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LHouk:lm
11/29/51

Sincerely yours,

C. O. Mittendorf (fw)

Acting Administrator
Defense Minerals Exploration
Administration

P.N.
12-10

cc: Admn. Reading File
Reports and Records
C. H. Johnson, USBM
E. T. McKnight, USGS
Field Team Reg. II
L. Houk
Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1201 N. Division St.
Spokane 2, Wash.
November 26, 1951

DEPARTMENT OF THE INTERIOR
RECEIVED
DEC 3 1951
Defense Minerals Administration,
Production Expansion Division.

MEMORANDUM

To: Chief, Copper Branch, Defense Minerals Administration
Washington 25, D. C.

From: Field Team, Region II

Subject: DMA Docket 1979, Priestley Mining & Milling Co.,
King County, Wash.

Enclosed herewith is the following docket material which should have accompanied the Field Team letter of Nov. 1, 1951, concerning the subject property:

1 copy Form MF-103
5 copies each of two maps to be attached to the examining engineer's report of October 24, 1951

By Field Team, Region II

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

M. E. Volin, Member
(U. S. Bureau of Mines)

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
Nov 30 2 01 PM '51

Enclosures

1201 N. Division St.
Spokane 2, Wash.
November 26, 1951

MEMORANDUM

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Washington 25, D. C.

From: Field Team, Region II

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A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

M. E. Volin, Member
(U. S. Bureau of Mines)

Enclosures

1201 N. Division St.
Spokane 2, Wash.
November 26, 1951

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To: Chief, Copper Branch, Defense Minerals Administration
Washington 25, D. C.

From: Field Team, Region II

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(U. S. Geological Survey)

M. E. Volin, Member
(U. S. Bureau of Mines)

Enclosures

1201 N. Division St.
Spokane 2, Wash.
November 26, 1951

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A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

M. E. Volin, Member
(U. S. Bureau of Mines)

Enclosures

1201 N. Division St.
Spokane 2, Wash.
November 26, 1951

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Washington 25, D. C.

From: Field Team, Region II

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By Field Team, Region II

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

R. E. Volin, Member
(U. S. Bureau of Mines)

Enclosures

OFFICE OF THE ADMINISTRATOR

Area 1979

NOV 9 3 56 PM '51

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.

BASE METALS BR.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

November 6, 1951

DEPARTMENT OF THE INTERIOR
RECEIVED
NOV 1 9 1951
Defense Minerals Administration,
Production Expansion Division.

Mr. Tom Lyon, Chairman
Coordinating Committee
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Lyon:

Re: DMA Docket 1979

Enclosed is a copy of "Review of Application for Exploration Assistance" and a copy of MF 103 submitted by the Priestley Mining and Milling Company, North Bend, Washington.

Upon checking our files we find that a Field Team report concerning this property, prepared by E. A. Magill, U. S. Bureau of Mines, was recently submitted to your office. Therefore we have no further use for the enclosed data.

If further information concerning the subject property is required, please advise.

Sincerely yours,

Thor H. Kiilsgaard

Thor H. Kiilsgaard
for A. E. Weissenborn
Executive Officer, DMA
Field Team, Region II

Enclosures as indicated.

310

FILE COPY
SURNAME:

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

NOV 2 1951

Mr. Jay E. Van Gundy
Priestley Mining and Milling Company
P. O. Box 278
North Bend, Washington

Re: DMA Docket 1979

Dear Mr. Van Gundy:

This is to inform you that your application for aid for an exploration project has been referred to the field team for further study. You will hear from Mr. A. E. Weissenborn, Executive Officer, DMA Field Team, Region II, South 157 Howard Street, Spokane Washington, or one of his staff when they are ready to visit your property.

Very truly yours,

SIGNED

Tom Lyon, Director
Supply Division

RVWaugh:pk
10/26/51

Copy to: Administrator's Reading File
Field Team, Region II
Copper Branch
Coordinating Committee
Mr. Nelson
DMA Docket

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

Mr. A. E. Weissenborn
Executive Officer, DMA Field Team
South 157 Howard Street
Spokane 8, Washington

NOV 2 1951

Dear Sir:

We attach "Review of Application for Exploration Assistance"

GM: 1979

Docket No. Copper

Commodity Mr. Jay E. Van Gundy, Priestley Mining & Milling Co.
P. O. Box 278--North Bend, Washington

Applicant

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

SIGNED

Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

NOV 2 1951

Mr. Jay E. Van Sundy
Priestley Mining and Milling Company
P. O. Box 278
North Bend, Washington

Re: DMA Docket 1979

Dear Mr. Van Sundy:

This is to inform you that your application for aid for an exploration project has been referred to the field team for further study. You will hear from Mr. A. E. Weissenborn, Executive Officer, DMA Field Team, Region II, South 157 Howard Street, Spokane Washington, or one of his staff when they are ready to visit your property.

Very truly yours,

SIGNED

Tom Lyon, Director
Supply Division

RVWaugh:pk
10/26/51

Copy to: Administrator's Reading File
Field Team, Region II
Copper Branch
Coordinating Committee
Mr. Nelson
DMA Docket

Nov 5

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

NOV 2 1951

Mr. A. E. Weissenborn
Executive Officer, DMA Field Team
South 157 Howard Street
Spokane 8, Washington

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. 1979

Commodity Copper

Applicant Mr. Jay E. Van Gundy, Priestley Mining & Milling Co.
P. O. Box 278--North Bend, Washington

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

Tom Lyon
Chairman
Coordinating Committee

Lowell B. Moon
For the Bureau of Mines

T. P. Thayer
For the Geological Survey

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

Mr. A. E. Weissenborn
Executive Officer, DMA Field Team
South 157 Howard Street
Spokane 8, Washington

Dear Sir:

We attach "Review of Application for Exploration Assistance"

on: 1979

Docket No. Copper

Commodity Mr. Jay E. Van Gundy, Priestley Mining & Milling Co.
P. O. Box 278--North Bend, Washington

Applicant

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Very truly yours,

Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

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

Mr. A. E. Weissenborn
Executive Officer, DMA Field Team
South 157 Howard Street
Spokane 8, Washington

NOV 2 1951

Dear Sir:

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Docket No. 1979

Commodity Copper

Applicant Mr. Jay E. Van Gundy, Priestley Mining & Milling Co.
P. O. Box 278--North Bend, Washington

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

SIGNED

Chairman
Coordinating Committee

For the Bureau of Mines

For the Geological Survey

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OFFICIAL FILE COPY

1201 N. Division St.
Spokane 2, Wash.
November 1, 1951

To	Init.	Date
210		

MEMORANDUM

To: Chief, Copper Branch, Defense Minerals Administration, Washington 25, D. C.

From: DMA Field Team, Region II

Subject: Application for exploration assistance, Priestley Mining and Milling Co., Buena Vista mining district, King County, Wash., DMA Docket 1979

Enclosed herewith is the examining engineer's report (5 copies) concerning the subject property, together with a supplemental memorandum reporting results of additional underground core drilling.

The probability of disclosing minable base metal reserves on the Lennox group by further exploration is considered remote. The Field Team, therefore, concurs with the examining engineer and recommends that the subject application for exploration assistance be denied.

In 1948 a modest exploration program consisting of crosscutting and diamond drilling was started by the Priestley Mining & Milling Co. Work completed to date indicates that the deposit consists of a sporadically distributed series of sulfide lenses. These lenses, ranging from 1 to 4 feet wide, are predominantly pyrite. Although the vein structure is not particularly strong or persistent, it is accompanied by an alteration halo marked by sericitization and sparsely disseminated sulfides. The single shipment made from the property consisted of 2380 pounds of hand-sorted ore containing 1.58 percent copper, 10.42 ounces of silver, and 1.14 ounces gold per ton.

The proposed exploration includes an unspecified amount of core drilling from surface to probe vein structures exposed in the upper workings. An appraisal of exploration completed to date indicates that such extensions already have been probed by underground core drilling.

By Field Team, Region II

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 6 1951

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

M. E. Volin

M. E. Volin, Member
(U. S. Bureau of Mines)

1201 N. Division St.
Spokane 2, Wash.
November 1, 1951

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A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

M. E. Volin, Member
(U. S. Bureau of Mines)

1201 N. Division St.
Spokane 2, Wash.
November 1, 1951

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A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

M. B. Volin, Member
(U. S. Bureau of Mines)

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By Field Team, Region II

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

H. E. Volin, Member
(U. S. Bureau of Mines)

1201 N. Division St.
Spokane 2, Wash.
November 1, 1951

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By Field Team, Region II

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

R. E. Volin, Member
(U. S. Bureau of Mines)

DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. 1979

To: Reports and Records Branch

From: Copper Branch, Supply Division

Date: October 26, 1951

The following action has been taken this date on the above Controlled Document.

Forwarded to Field Team II (thur Mr. Lyon's Office for Signature)

Type of request changed to:

Denied ☐ Withdrawn ☐

Approved in amount of $

Other action, specify:

FILE COPY
SURNAME:

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

Hugh
Johnson
Nelson
Moon
Thayer
Fergusson
Mittendorf

DEC 10 1951

Mr. J. E. Van Gundy
Priestley Mining and Milling Co.
P.O. Box 278
North Bend, Washington

Re: DMA docket 1979
Copper

Dear Mr. Van Gundy:

Your application for aid for an exploration project on a copper deposit located in King County, Washington, and docketed as DMA 1979, has been reviewed by this office.

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

A very careful study of your proposal revealed the following:

> The probability of disclosing minable base metal reserves on the Lennex group by further exploration is not considered sufficiently favorable to justify Government participation.

Under these circumstances, your application for exploration aid to the extent of 50% of $22,750 is denied. Should additional information become available, we would be glad to have you resubmit your proposal for consideration.

LHouk'lm
12/4/51

Sincerely yours,

C. O. Mittendorf (for) J.N. 12-10

Acting Administrator
Defense Minerals Exploration
Administration

cc: Admn. Reading File
✓ Reports and Records
C. H. Johnson, USBM
E. T. McKnight, USGS
Field Team Reg. II
L. Houk
Docket
C. O. Mittendorf

UNITED STATES
DEPARTMENT OF INTERIOR
OSCAR L. CHAPMAN-SECRETARY

DEFENSE MINERALS ADMINISTRATION

Report by Examination Team
Region II

DMA No. 1979 Priestly Mining and Milling Co.

King County, Wash.

E. A. Magill
U. S. Bureau of Mines

October 24, 1951

PRIESTLY MINING AND MILLING CO.
King County, Wash.

DMA Docket No. 1979

By E. A. Magill

RECOMMENDATIONS

It is recommended that the application of the Priestly Mining and Milling Company for $22,750 exploration loan for diamond drilling at the Lennox mine be denied.

APPLICANT

The applicant is the Priestly Mining and Milling Company, J. E. Van Gundy, Manager, P. O. Box 278, North Bend, Wash.

LOCATION OF DEPOSIT

The property, consisting of 45 unpatented lode mining claims in secs. 7, 8, 17, and 18, T. 25 N., R. 10 E., W.M., Buena Vista Mining District, King County, Wash., is reached from North Bend, Wash. by 23 miles of gravelled road. This road follows up to Northport by the Snoqualmie River to a point near its confluence with Lennox Creek. The mine workings are at an altitude of about 2,600 feet.

OWNERSHIP

The property, owned by the Lennox Mining Co., Seattle, Wash., has been held under lease by the applicant since 1940.

HISTORY AND PAST PRODUCTION

Discovery in the early 1900's was immediately followed by the driving of the upper drifts. The lower crosscut adit started in 1948 by the Priestly Mining Co. had been advanced 670 feet by 1950. In the spring

of that year an exploration program consisting of 3 diamond drill holes totaling 941 feet drilled from the lower crosscut was carried out.

The only recorded production from the property is the single shipment in 1938 to the A. S. & R. Smelter, Tacoma, Wash. This shipment, consisting of 2,380 pounds of selected ore from the upper adits, contained 1.58 percent copper, 10.42 ounces of silver and 1.14 ounces gold per ton.

DESCRIPTION OF PROPOSAL

The applicant proposes to:

1. Deepen the No. 1 drill hole as shown on attached map to intersect downward projection of vein explored in upper adit. The required additional drilling in this hole is estimated by the applicant at 250 feet.

2. Deepen the No. 3 drill hole until it completely passes through the disseminated mineralization or encounters a favorable ore structure.

3. Drill a hole on line with the original No. 3 hole but inclined downward at 45°. Probe at depth by an inclined hole mineralization penetrating the original No. 3 hole.

4. Drill an unspecified number of surface holes to check downward extensions of veins exposed in the upper adits.

TECHNICAL FEASIBILITY

Geologic Setting

The country rock in the Lennox mine area is granodiorite of the Snoqualmie batholith. Locally, masses of diorite having gradational contacts with the granodiorite are exposed at both the upper adits and the lower crosscut.

The vein structures in the upper adits strike about east-west and dip 35° to 50° south. These structures are irregular and contain lenses of sulphides consisting chiefly of pyrite. In some instances these lenses attain widths of several feet. The vein structures exposed are not particularly strong nor persistent. Characteristically, they vary in width from 1 foot to 4 feet and locally are enveloped in an alteration halo of several feet in width. A channel sample taken across the full vein width of 1.3 feet in the middle adit was assayed with the following results:

	Percent
Copper	0.35
	Ounces
Silver	4.28
Gold	0.12

The lower crosscut is marked near the face by a gradational contact between granodiorite and diorite. The fractured zone continuing from 320 to 360 feet from the portal has been sericitized and contains sparse disseminated sulphides. Sampling of this zone resulted in mineral assays for gold, silver and copper. ? cvg

Analysis of exploration work completed to date suggests that the diamond drilling probably probed the downward extension of vein structures explored by the upper adits.

The No. 3 drill hole penetrated disseminated sulphides between 268 feet and the bottom of the hole at 419 feet. This mineralization consisted of scattered veins of pyrite, chalcopyrite, and pyrrhotite.

Although no assay data is available, an examination of the core indicated that the percentage of sulphides is extremely small.

Mine Workings

The mine workings consist of an adit drift 20 feet long at an altitude of 2,697 feet, a 120-foot drift at an altitude of 2,654 feet, and a crosscut adit 670 feet in length at an altitude of 2,000 feet. In addition to these underground workings several open pits and short adits on the hillside presumably follow the outcrop of the vein or veins exposed in the upper adits.

Reserves

There are no measurable ore reserves in the Lennox mine.

Milling Methods

Milling facilities have not been installed on the property. However, several suitable mill sites with ample water supply are available.

Rate of Production

The Lennox mine, currently, is dormant.

Marketing Facilities

Crude ore or copper concentrates can be shipped to the American Smelting & Refining Co. plant at Tacoma, Wash. Lead and zinc concentrates resulting from any future operation probably can be shipped to the Bunker Hill smelter at Kellogg, Idaho.

EQUIPMENT AND FACILITIES

Installed

The property is completely equipped to carry on a small mining operation. The camp consists of 5 cabins, a cookhouse, and several storage

buildings. At the lower crosscut adit, compressor and tool sheds have been built. Principal items of equipment consist of the following:

315-cfm Chicago pneumatic compressor, powered by a Caterpillar Diesel engine.
Drifter
Pipe
Rails
Mine cars
Ventilation tubing
Air-driven blower
3-kw light plant, gas-engine driven
Dodge pick-up truck 4x4 3/4-ton
Miscellaneous small tools
Diamond drill, Sprague & Hanwood, gasoline-engine driven, 300-foot capacity.

Required

In the event a diamond drilling project is approved, the applicant intends to purchase an air-driven drill capable of a maximum depth of 1,000 feet.

LABOR SUPPLY

Labor for mine operation would have to be recruited from Seattle, Wash. Wage rates competitive with those paid in the logging industry would have to be established. Such rates currently range between $15.00 and $20.00 per day.

POWER

Inasmuch as electric power is not available in the area, the mine's power requirements must be met either by gasoline or Diesel units.

TRANSPORTATION

North Bend, the nearest railhead, is 23 miles from the mine. This railhead, served by both the Northern Pacific and the Chicago, Milwaukee & St, Paul Railroads, is 60 miles from the Tacoma smelter and about 325 miles from the lead-zinc plant at Kellogg, Idaho.

COMPETENCE OF APPLICANT

The applicant is considered entirely competent to supervise the proposed exploration program.

DISCUSSION OF PROPOSAL

Geologic considerations apparently were not carefully evaluated in connection with the prior exploration work. The known vein structures are not impressively persistent. The mineralization penetrated in the No. 3 diamond drill hole is a relatively common occurrence in the Cascade granodiorite.

SUPPLEMENT

Assay Data Furnished by
Priestly Mining & Milling Co.
on Lennox Mine
King County, Wash.

June 10, 1938

2380# dry wt. shipment to Tacoma Smelter

Assays:

Au	1.14 oz.
Ag	10.42 oz.
Cu	1.58%
Pb	1.2%
Zn	8.3%
As	6.18%
Sb	.67%

Nov. 19, 1942

Laucks Lab. Inc., Seattle

Samples Marked	J-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12
Au oz.	0.62	.23	.52	.27	1.49	.02	.20	.03	.02	Tr	Tr	Tr
Ag oz.	0.3	.5	7.2	.3	4.6	.3	.2	2.5	1.5	.5	.6	.7
Zn %	.81	3.55	4.31	1.85	1.89	.20	.69	.93	.56	No	assay	for
Pb %	.11	.11	3.41	.33	.19	.06	.22	.08	.06	-	-	-
Cu %	.92	.90	1.46	.62	.99	.28	Tr	.62	Tr	-	-	-

The above samples J-1 to J-5 are designated as coming from the upper tunnels. J-6 to J-12, not designated as to location, possibly from intermediate caved tunnel and cut.

April 10, 1947

Lambert-McKamey Lab. Seattle

Samples Marked	L-1	-2	-3	-4	-5	-6	-7	-8
Au oz.	0.30	.22	.24	.10	.06	.10	.14	.16
Ag oz.	17.75	3.24	2.34	1.12	.14	.38	.26	.42
Pb %	3.90	.50	.70	.30	.10	.05	Tr	.25
Zn %	6.40	4.75	4.00	3.45	7.50	1.70	2.00	2.75
Cu %	3.80	1.85	Tr	Nil	.55	Tr	Tr	Nil

Samples L-1 to L-3, Incl., are marked from highest tunnel; L-5 and L-6 from 2nd highest; L-7 from Calcite Tunnel, and L-8, same location "broken down."

L-9 from Calcite Tunnel as follows:

Au .06; Ag .36; Pb .30; Zn 6.20

L-10, same Tunnel:

Cu -- Tr; Mo -- Tr; Sb -- Nil; Ti -- 0.15%

May 26, 1951

Peter Mack, Assayer, Wallace, Idaho

		#10	#11	$12
Au	oz.	.55	.28	.17
Ag	oz.	3.8	4.0	18.4
Pb	%	Tr	1.2	1.2
Zn	%	Tr	2.1	3.3
Cu	%	.28	.24	1.98

#10: Dump sample from highest tunnel

#11: From face of same; ave. across 3-1/2'

#12: 12" under talc slip 5' back of face in 2d highest tunnel.

#13 Lower tunnel - 4' back of collar of No. 1 diamond drill hole, across 2 banded streaks resembling rhodonite, 12" and 5" wd, respectively: Au - .02; Ag - Tr; Cu - Zn nil.

#14 Across 4' of banded vein at timbering 115' ahead of Sta. 6: Au - .03; Ag - Tr. Cu & Zn - nil.

May 7, 1951

Abbot A. Hanks, Inc., San Francisco, Calif.

Sulfides from core sample at 116-1/2' - 123' diamond drill hole #3:

Au None
Ag 0.55 oz.

UNITED STATES
DEPARTMENT OF INTERIOR
OSCAR L. CHAPMAN-SECRETARY

DEFENSE MINERALS ADMINISTRATION

Report by Examination Team
Region II

DMA No. 1979 Priestly Mining and Milling Co.

King County, Wash.

E. A. Magill
U. S. Bureau of Mines

October 24, 1951

PRIESTLY MINING AND MILLING CO.
King County, Wash.

DMA Docket No. 1979

By R. A. Magill

RECOMMENDATIONS

It is recommended that the application of the Priestly Mining and Milling Company for $22,750 exploration loan for diamond drilling at the Lennox mine be denied.

APPLICANT

The applicant is the Priestly Mining and Milling Company, J. E. Van Gundy, Manager, P. O. Box 278, North Bend, wash.

LOCATION OF DEPOSIT

The property, consisting of 45 unpatented lode mining claims in secs. 7, 8, 17, and 18, T. 25 N., R. 10 E., W.M., Buena Vista Mining District, King County, Wash., is reached from North Bend, Wash. by 23 miles of gravelled road. This road follows up to Northport by the Snoqualmie River to a point near its confluence with Lennox Creek. The mine workings are at an altitude of about 2,600 feet.

OWNERSHIP

The property, owned by the Lennox Mining Co., Seattle, Wash., has been held under lease by the applicant since 1940.

HISTORY AND PAST PRODUCTION

Discovery in the early 1900's was immediately followed by the driving of the upper drifts. The lower crosscut adit started in 1948 by the Priestly Mining Co. had been advanced 670 feet by 1950. In the spring

of that year an exploration program consisting of 3 diamond drill holes totaling 941 feet drilled from the lower crosscut was carried out.

The only recorded production from the property is the single shipment in 1938 to the A. S. & R. Smelter, Tacoma, Wash. This shipment, consisting of 2,380 pounds of selected ore from the upper adits, contained 1.58 percent copper, 10.42 ounces of silver and 1.14 ounces gold per ton.

DESCRIPTION OF PROPOSAL

The applicant proposes to:

1. Deepen the No. 1 drill hole as shown on attached map to intersect downward projection of vein explored in upper adit. The required additional drilling in this hole is estimated by the applicant at 250 feet.

2. Deepen the No. 3 drill hole until it completely passes through the disseminated mineralization or encounters a favorable ore structure.

3. Drill a hole on line with the original No. 3 hole but inclined downward at 45°. Probe at depth by an inclined hole mineralization penetrating the original No. 3 hole.

4. Drill an unspecified number of surface holes to check downward extensions of veins exposed in the upper adits.

TECHNICAL FEASIBILITY

Geologic Setting

The country rock in the Lennox mine area is granodiorite of the Snoqualmie batholith. Locally, masses of diorite having gradational contacts with the granodiorite are exposed at both the upper adits and the lower crosscut.

The vein structures in the upper adits strike about east-west and dip 35° to 50° south. These structures are irregular and contain lenses of sulphides consisting chiefly of pyrite. In some instances these lenses attain widths of several feet. The vein structures exposed are not particularly strong nor persistent. Characteristically, they vary in width from 1 foot to 4 feet and locally are enveloped in an alteration halo of several feet in width. A channel sample taken across the full vein width of 1.3 feet in the middle adit was assayed with the following results:

	Percent
Copper	0.35
	Ounces
Silver	4.28
Gold	0.12

The lower crosscut is marked near the face by a gradational contact between granodiorite and diorite. The fractured zone continuing from 330 to 360 feet from the portal has been sericitized and contains sparse disseminated sulphides. Sampling of this zone resulted in mineral assays for gold, silver and copper.

Analysis of exploration work completed to date suggests that the diamond drilling probably probed the downward extension of vein structures explored by the upper adits.

The No. 3 drill hole penetrated disseminated sulphides between 268 feet and the bottom of the hole at 419 feet. This mineralization consisted of scattered veins of pyrite, chalcopyrite, and pyrrhotite.

Although no assay data is available, an examination of the core indicated that the percentage of sulphides is extremely small.

Mine Workings

The mine workings consist of an adit drift 20 feet long at an altitude of 2,697 feet, a 120-foot drift at an altitude of 2,654 feet, and a crosscut adit 670 feet in length at an altitude of 2,000 feet. In addition to these underground workings several open pits and short adits on the hillside presumably follow the outcrop of the vein or veins exposed in the upper adits.

Reserves

There are no measurable ore reserves in the Lennox mine.

Milling Methods

Milling facilities have not been installed on the property. However, several suitable mill sites with ample water supply are available.

Rate of Production

The Lennox mine, currently, is dormant.

Marketing Facilities

Crude ore or copper concentrates can be shipped to the American Smelting & Refining Co. plant at Tacoma, Wash. Lead and zinc concentrates resulting from any future operation probably can be shipped to the Bunker Hill smelter at Kellogg, Idaho.

EQUIPMENT AND FACILITIES

Installed

The property is completely equipped to carry on a small mining operation. The camp consists of 5 cabins, a cookhouse, and several storage

buildings. At the lower crosscut adit, compressor and tool sheds have been built. Principal items of equipment consist of the following:

- 315-cfm Chicago pneumatic compressor, powered by a Caterpillar Diesel engine.
- Drifter
- Pipe
- Rails
- Mine cars
- Ventilation tubing
- Air-driven blower
- 3-kw light plant, gas-engine driven
- Dodge pick-up truck 4x4 3/4-ton
- Miscellaneous small tools
- Diamond drill, Sprague & Henwood, gasoline-engine driven, 300-foot capacity.

Required

In the event a diamond drilling project is approved, the applicant intends to purchase an air-driven drill capable of a maximum depth of 1,000 feet.

LABOR SUPPLY

Labor for mine operation would have to be recruited from Seattle, Wash. Wage rates competitive with those paid in the logging industry would have to be established. Such rates currently range between $15.00 and $20.00 per day.

POWER

Inasmuch as electric power is not available in the area, the mine's power requirements must be met either by gasoline or Diesel units.

TRANSPORTATION

North Bend, the nearest railhead, is 23 miles from the mine. This railhead, served by both the Northern Pacific and the Chicago, Milwaukee & St. Paul Railroads, is 60 miles from the Tacoma smelter and about 325 miles from the lead-zinc plant at Kellogg, Idaho.

COMPETENCE OF APPLICANT

The applicant is considered entirely competent to supervise the proposed exploration program.

DISCUSSION OF PROPOSAL

Geologic considerations apparently were not carefully evaluated in connection with the prior exploration work. The known vein structures are not impressively persistent. The mineralization penetrated in the No. 3 diamond drill hole is a relatively common occurrence in the Cascade granodiorite.

SUPPLEMENT

Assay Data Furnished by
Priestly Mining & Milling Co.
on Lennox Mine
King County, Wash.

June 10, 1938

2380# dry wt. shipment to Tacoma Smelter

Assays:

Au	1.14 oz.
Ag	10.42 oz.
Cu	1.58%
Pb	1.2%
Zn	8.3%
As	6.18%
Sb	.67%

Nov. 19, 1942

Laucks Lab. Inc., Seattle

Samples Marked		J-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12
Au	oz.	0.62	.23	.52	.27	1.49	.02	.20	.03	.02	Tr	Tr	Tr
Ag	oz.	0.3	.5	7.2	.3	4.6	.3	.2	2.5	1.5	.5	.6	.7
Zn	%	.81	3.55	4.31	1.85	1.89	.20	.69	.93	.56	No assay for		
Pb	%	.11	.11	3.41	.33	.19	.06	.22	.03	.06	-	-	-
Cu	%	.92	.90	1.46	.62	.99	.28	Tr	.62	Tr	-	-	-

The above samples J-1 to J-5 are designated as coming from the upper tunnels. J-6 to J-12, not designated as to location, possibly from intermediate caved tunnel and cut.

April 10, 1947

Lambert-McKenzy Lab. Seattle

Samples Marked		L-1	-2	-3	-4	-5	-6	-7	-8
Au	oz.	0.30	.22	.24	.10	.06	.10	.14	.16
Ag	oz.	17.75	3.24	2.34	1.12	.14	.38	.26	.42
Pb	%	3.90	.50	.70	.30	.10	.05	Tr	.25
Zn	%	6.40	4.75	4.00	3.45	7.50	1.70	2.00	2.75
Cu	%	3.80	1.35	Tr	Nil	.55	Tr	Tr	Nil

Samples L-1 to L-3, Incl., are marked from highest tunnel; L-5 and L-6 from 2nd highest; L-7 from Calcite Tunnel, and L-8, same location "broken down."

L-9 from Calcite Tunnel as follows:

Au .06; Ag .36; Pb .30; Zn 6.20

L-10, same Tunnel:

Cu — Tr; Mo — Tr; Sb — Nil; Ti — 0.15%

May 26, 1951

Peter Mack, Assayer, Wallace, Idaho

		#10	#11	#12
Au	oz.	.55	.28	.17
Ag	oz.	3.8	4.0	18.4
Pb	%	Tr	1.2	1.2
Zn	%	Tr	2.1	3.3
Cu	%	.28	.24	1.98

#10: Dump sample from highest tunnel

#11: From face of same; ave. across 3-1/2'

#12: 12" under talc slip 5' back of face in 2d highest tunnel.

#13 Lower tunnel - 4' back of collar of No. 1 diamond drill hole, across 2 banded streaks resembling rhodonite, 12" and 5" wd, respectively: Au - .02; Ag - Tr; Cu - Zn nil.

#14 Across 4' of banded vein at timbering 115' ahead of Sta. 6: Au - .03; Ag - Tr. Cu & Zn - nil.

May 7, 1951

Abbot A. Hanks, Inc., San Francisco, Calif.

Sulfides from core sample at 116-1/2' - 123' diamond drill hole #3:

Au None
Ag 0.55 oz.

UNITED STATES
DEPARTMENT OF INTERIOR
OSCAR L. CHAPMAN-SECRETARY

DEFENSE MINERALS ADMINISTRATION

Report by Examination Team
Region II

1979

DMA No. 1 Grizzly Mining and Milling Co.

King County, Wash.

R. A. Magill
U. S. Bureau of Mines

October 24, 1951

PRIESTLY MINING AND MILLING CO.
King County, Wash.

DMA Docket No. 1979

By R. A. Nagill

RECOMMENDATIONS

It is recommended that the application of the Priestly Mining and Milling Company for $22,750 exploration loan for diamond drilling at the Lennox mine be denied.

APPLICANT

The applicant is the Priestly Mining and Milling Company, J. E. Van Cundy, Manager, P. O. Box 274, North Bend, Wash.

LOCATION OF DEPOSIT

The property, consisting of 45 unpatented lode mining claims in secs. 7, 8, 17, and 18, T. 25 N., R. 10 E., W.M., Puget Vista Mining District, King County, Wash., is reached from North Bend, Wash. by 23 miles of gravelled road. This road follows up to Northport by the Snoqualmie River to a point near its confluence with Lennox Creek. The mine workings are at an altitude of about 2,600 feet.

OWNERSHIP

The property, owned by the Lennox Mining Co., Seattle, Wash., has been held under lease by the applicant since 1940.

HISTORY AND PAST PRODUCTION

Discovery in the early 1900's was immediately followed by the driving of the upper drifts. The lower crosscut adit started in 1948 by the Priestly Mining Co. had been advanced 670 feet by 1950. In the spring

of this year an exploration program consisting of 3 diamond drill holes totaling 941 feet drilled from the lower crosscut was carried out.

The only recorded production from the property is the single shipment in 1938 to the A. S. & R. Smelter, Tacoma, Wash. This shipment, consisting of 2,330 pounds of selected ore from the upper adits, contained 1.58 percent copper, 10.42 ounces of silver and 1.14 ounces gold per ton.

DESCRIPTION OF PROPOSAL

The applicant proposes to:

1. Deepen the No. 1 drill hole as shown on attached map to intersect downward projection of vein explored in upper adit. The required additional drilling in this hole is estimated by the applicant at 250 feet.

2. Deepen the No. 3 drill hole until it completely passes through the disseminated mineralization or encounters a favorable ore structure.

3. Drill a hole on line with the original No. 3 hole but inclined downward at 45°. Probe at depth by an inclined hole mineralization penetrating the original No. 3 hole.

4. Drill an unspecified number of surface holes to check downward extensions of veins exposed in the upper adits.

TECHNICAL FEASIBILITY

Geologic Setting

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The vein structures in the upper adits strike about east-west and dip 35° to 50° south. These structures are irregular and contain lenses of sulphides consisting chiefly of pyrite. In some instances these lenses attain widths of several feet. The vein structures exposed are not particularly strong nor persistent. Characteristically, they vary in width from 1 foot to 4 feet and locally are enveloped in an alteration halo of several feet in width. A channel sample taken across the full vein width of 1.3 feet in the middle adit was assayed with the following results:

	Percent
Copper	0.35
	Ounces
Silver	4.28
Gold	0.12

The lower crosscut is marked near the face by a gradational contact between granodiorite and diorite. The fractured zone continuing from 320 to 360 feet from the portal has been sericitized and contains sparse disseminated sulphides. Sampling of this zone resulted in mineral assays for gold, silver and copper.

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The No. 3 drill hole penetrated disseminated sulphides between 268 feet and the bottom of the hole at 419 feet. This mineralization consisted of scattered veins of pyrite, chalcopyrite, and pyrrhotite.

Although no assay data is available, an examination of the core indicated that the percentage of sulphides is extremely small.

Mine Workings

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Reserves

There are no measurable ore reserves in the Lennox mine.

Milling Methods

Milling facilities have not been installed on the property. However, several suitable mill sites with ample water supply are available.

Rate of Production

The Lennox mine, currently, is dormant.

Marketing Facilities

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EQUIPMENT AND FACILITIES

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Diamond drill, Sprague & Henwood, gasoline-engine driven, 300-foot capacity.

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LABOR SUPPLY

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TRANSPORTATION

North Bend, the nearest railhead, is 23 miles from the mine. This railhead, served by both the Northern Pacific and the Chicago, Milwaukee & St. Paul Railroads, is 60 miles from the Tacoma smelter and about 325 miles from the lead-zinc plant at Kellogg, Idaho.

COMPETENCE OF APPLICANT

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DISCUSSION OF PROPOSAL

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Zn	%	.81	3.55	4.31	1.85	1.89	.20	.69	.93	.56	No assay for		
Pb	%	.11	.11	3.41	.33	.19	.06	.22	.03	.06	-	-	-
Cu	%	.92	.90	1.46	.62	.99	.28	Tr	.62	Tr	-	-	-

The above samples J-1 to J-5 are designated as coming from the upper tunnels. J-6 to J-12, not designated as to location, possibly from intermediate caved tunnel and cut.

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Ag	oz.	17.75	3.24	2.34	1.12	.14	.33	.26	.42
Pb	%	3.90	.50	.70	.30	.10	.05	Tr	.25
Zn	%	6.40	4.75	4.00	3.45	7.50	1.70	2.00	2.75
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May 7, 1951

Abbot A. Hanks, Inc., San Francisco, Calif.

Sulfides from core sample at 116-1/2' - 123' diamond drill hole #3:

Au None
Ag 0.55 oz.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1201 N. Division St.
Spokane 2, Wash.

October 24, 1951

MEMORANDUM

To: M. E. Volin, Member, DMA Field Team, Region II

From: E. A. Magill

Subject: Diamond drilling by Priestly Mining and Milling Co. at Lennox mine, King County, Wash.

A brief visit was made to the Lennox mine on October 9, 1951. At the time of the visit the Priestly Mining and Milling Co. had advanced their No. 1 diamond drill to a depth of approximatly 700 feet. This hole is a horizontal hole from the face of the crosscut, drilled the same direction as the crosscut, in order to prospect for the downward extension of the vein exposed in the upper workings.

According to Mr. Van Gundy, who is the engineer in charge, the drilling had not encountered the vein. However, several sections of the core show sparsely disseminated chalcopyrite and pyrite.

The Priestly Mining and Milling Co. had submitted an application to do this diamond drilling under a DMA exploration project. Difficulty was encountered in obtaining a subordination agreement from the owners of the property (Lennox Mining & Development Co.), so they have purchased a drill and are doing the work on their own accord.

E. A. Magill

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October 24, 1951

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-4

1201 N. Division St.
Spokane 2, Wash.

October 24, 1951

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From: E. A. Nagill

Subject: Diamond drilling by Priestly Mining and Milling Co. at Lennox mine, King County, Wash.

A brief visit was made to the Lennox mine on October 9, 1951. At the time of the visit the Priestly Mining and Milling Co. had advanced their No. 1 diamond drill to a depth of approximatly 700 feet. This hole is a horizontal hole from the face of the crosscut, drilled the same direction as the crosscut, in order to prospect for the downward extension of the vein exposed in the upper workings.

According to Mr. Van Gundy, who is the engineer in charge, the drilling had not encountered the vein. However, several sections of the core show sparsely disseminated chalcopyrite and pyrite.

The Priestly Mining and Milling Co. had submitted an application to do this diamond drilling under a DMA exploration project. Difficulty was encountered in obtaining a subordination agreement from the owners of the property (Lennox Mining & Development Co.), so they have purchased a drill and are doing the work on their own accord.

E. A. Nagill

1201 N. Division St.
Spokane 2, Wash.

October 24, 1951

MEMORANDUM

To: N. E. Volin, Member, DMA Field Team, Region II

From: E. A. Magill

Subject: Diamond drilling by Priestly Mining and Milling Co. at Lennox mine, King County, Wash.

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E. A. Magill

August 20, 1951

Mr. Jay E. Van Gundy
Priestley Mining & Milling Company
P. O. Box 278
North Bend, Washington

Subject: Lennox Mining Company
Re: Exploration Loan

My dear Mr. Van Gundy:

This will acknowledge receipt of your application dated August 17, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA-1979 and referred to the Copper Branch.

Kindly refer to DMA-1979 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

Dm A
1979

August 14, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 17 1951

Mr. Landon F. Strobel
Executive Secretary
Defense Minerals Administration
Department of Interior
Washington 25, D. C.

Dear Mr. Strobel:

Enclosed are three copies of an application submitted by Mr. Jay E. Van Gundy of the Priestley Mining and Milling Company for a property in the Buena Mining District, King County, Washington. The information given is not complete enough to properly appraise the proposal. Mr. E. A. Magill of the Bureau of Mines is examining a number of other properties in western Washington; therefore, one copy of the application has been sent to him so that he may make a field examination.

Very truly yours,

A. E. Weissenborn
Executive Officer, DMA
Field Team, Region II

Enclosures

cc: U.S.B.M.

Form [redacted]
(April [redacted])

U. S. DEPARTMENT OF THE I[redacted]ERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.
NOV 9 3 57 PM '51

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA 1979

Date received 8-17-51

Participation

Priestley Mining & Milling Co.
P. O. Box-278
North Bend, Washington

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application August 8, 1951

Estimated cost $22,750

Mineral or metal Copper, Zinc, Lead

Percentage of Government participation 50

Location of mine Sec. 18, T.25N., R.10E., W.M.
Buena Mining District
King County, Washington

Date of filing MF-100 June 25, 1951 *

DMA Docket Number, if available 1979

* Application for Mine Serial Number

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. If the space provided for answer is insufficient, on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 17 1951

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Priestley Mining & Milling Co.
(Name of company)

By [signature]
(Signature of authorized official)

August 8, 1951
(Date)

Manager
(Title)

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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

1. Corporation

3. (Information will be furnished later upon request)

4. Has had property under lease (and development) for five years.
(b) Mining Engineer; 30 years experience in developing and producing mining properties in the West; Five and one-half years with Mining Division, War Production Board, and Premium Price Plan for copper, lead and zinc, Washington, D.C., April 1, 1942 to Sept. 15, 1947.

5. Lessee

7. (Same as (3)

8. (Same as (3)

9. One-half of current expense. Sufficient per Mineral Order 5.

10. Lennox Group comprising 45 unpatented lode mining claims in Sec's 7,8,17 & 18, T.25N., R.10E., W.M., Buena Vista Mining District, King County, Washington.

11. Lennox Mining Company. No change.

12. 23 miles northeasterly from North Bend, Washington over graded, gravel roads. Roads are good, one hour driving from North Bend to mine. Ordinarily no disruption of travel during winter months.

13. Lennox Creek, 200 ft. from Portal of lower working tunnel has more than ample flow for all purposes at low water.
315 cu.ft. diesel air-compressor now installed uses 2 to 3 gallons of diesel fuel per hour.

14. Ample camp facilities and other necessary buildings already provided.

15. Concentrates would be truck-hauled 25 miles to Snoqualmie Falls, to C. M. & St.P. R.R., thence shipped to Tacoma for copper processing, or, to Kellogg, Idaho for lead and zinc processing. No mill available. Would have to be constructed.

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2. Moiled sample 3.5' across face, same tunnel. Au. 0.28 oz; Ag. 4.0 oz; Pb. 1.2%; Zn. 2.1%; Cu. 0.24%.
3. From tunnel 35' vertically below. 12" sulfides below 1" talc streak, Au. 0.17 oz; Ag. 18.4 oz; Pb. 1.2%; Zn. 3.3%; Cu. 1.98%
N.B. All above assays by Peter Mack, Osburn, Idaho.
Lower working tunnel 650' vertically below upper tunnels was completed in October, 1950. Portal to face 670'. Three diamond drill holes were drilled from this tunnel during first-half 1951, as follows: #1 160'; #2 290'; #3 419'; total 869'.
(b) No production from any property.
(c) None

19. This project is the first attempt to prove favorable geology or the existence of commercial ore at depth in this district.

20. Copper, as disseminated mineralization.
Copper, lead and zinc as vein deposits.

21. First work proposed is to deepen #1 diamond drill hole from 160' to 400' or more, to prospect for downward projection of veins in upper tunnels.
Secondly, #3 diamond drill hole will be deepened from present depth of 419', an indeterminate distance. This hole penetrated typical granodiorite from collar to depth of 268'. For 151', from 268' to bottom at 419', the hole penetrated an acidic (quartz) formation that was highly and uniformally impreg nated with sulfide minerals throughout. Some slight replacement of disseminated pyrrhotite(?) by chalcopyrite has taken place. More drilling is justified to determine expanse of this dissemination with the expectation of encountering breccias or fractures that may contain commercial ores.

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Fourthly, with gasoline powered diamond drill machine now owned, we propose to drill a number of surface holes below the upper tunnels to follow downward trends of veins in upper tunnels.

23.

(a)	Two miners, 3200 man-hours @ $1.75	$5600
(b)	One superintendent, 8 months @ $750	6000
(c)		none
(d)		none
(e)	Diamond drill equipment	6000
(f)		none
(g)		none
(h)		3900
(i)	Diesel fuel, etc	1250
		$22750

24.

Month	Feet Dia. Drill Hole		Expenditure
1st	276	underground	$7000
2nd	297	"	2300
3rd	267	"	2300
4th	260	"	2300
5th	220	"	2450
6th	100	surface	2800
7th	250	"	1800
8th	250	"	1800
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Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA 1977

Date received

Participation

Priestley Mining & Milling Co.
P. O. Box-278
North Bend, Washington

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. NOV 30 2 01 PM '51

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application August 8, 1951

Estimated cost $22,750

Mineral or metal Copper, Zinc, Lead

Percentage of Government participation 50

Location of mine Sec. 18, T.25N., R.10E., W.M.
Buena Mining District
King County, Washington

Date of filing MF-100 June 25, 1951 *

DMA Docket Number, if available

* Application for Mine Serial Number

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Priestley Mining & Milling Co.
(Name of company)

By J. Ellis Kennedy
(Signature of authorized official)

August 8, 1951
(Date)

Manager
(Title)

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.

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Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA 1979

Date received 8-17-51

Participation

Drisoolley Mining & Milling Co.
P. O. Box-270
North Bend, Washington

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application August 8, 1951

Estimated cost 022,750

Mineral or metal Copper, Zinc, Lead

Percentage of Government participation 50

Location of mine Sec. 10, T.23N., R.10E., W.M.
Vista
Snoqualmie Mining District
King County, Washington

Date of filing MF-100 June 25, 1951 *

DMA Docket Number, if available 1979

* Application for Mine Serial Number

INSTRUCTIONS

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DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 17 1951

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THE PROPERTY

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    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Priestley Mining & Milling Co.
(Name of company)

By J. Van Sandy
(Signature of authorized official)

August 8, 1951
(Date)

Manager
(Title)

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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

1. Corporation

3. (Information will be furnished later upon request)

4. Has had property under lease (and development) for five years.
(b) Mining Engineer; 30 years experience in developing and producing mining properties in the West; Five and one-half years with Mining Division, War Production Board, and, Premium Price Plan for copper, lead and zinc, Washington, D. C., April 1, 1942 to Sept. 15, 1947.

5. Lessee

7. (Same as (3)

8. (Same as (3)

9. One-half of current expense. Sufficient per Mineral Order 5.

10. Lennox Group comprising 45 unpatented lode mining claims in Sec's 7,8,17 & 18, T.25N., R.10E., W.M., Buena Vista Mining District, King County, Washington.

11. Lennox Mining Company. No change.

12. 23 miles northeasterly from North Bend, Washington over graded, gravel roads. Roads are good, one hour driving from North Bend to mine. Ordinarily no disruption of travel during winter months.

13. Lennox Creek, 200ft. from portal of lower working tunnel has more than ample flow for all purposes at low water.
315 cu.ft. diesel air-compressor now installed uses 2 to 3 gallons of diesel fuel per hour.

14. Ample camp facilities and other necessary buildings already provided.

15. Concentrates would be truck-hauled 25 miles to Snoqualmie Falls, to C. M. & StP. R.R., thence shipped to Tacoma for copper processing, or, to Kellogg, Idaho for lead and zinc processing. No mill available. Would have to be constructed.

16. (a) No production. Two upper tunnels (shallow) driven years ago give assays as follows; 1. Hand sample from dump, highest tunnel, Au. 0.55oz; Ag. 3.8oz; Pb. Tr; Zn. Tr; Cu. 0.28%
2. Moiled sample 3.5' across face, same tunnel. Au 0.28oz; Ag 4.0oz; *Pb 12%; Zn 2.1%; Cu 0.24%.
3. From tunnel 35' vertically below. 12" sulfides below 1" talc streak, Au 0.17oz; Ag 18.4oz; Pb 1.2%; Zn 3.3%; Cu 1.98%
N.B. All above assays by Peter Mack, Osburn, Idaho.
Lower working tunnel 650' vertically below upper tunnels was completed in October, 1950. Portal to face 670'. Three diamond drill holes were drilled from this tunnel during first-half 1951, as follows: #1 160'; #2 290'; #3 419'; total 869'.
(b) No production from any property.
(c) None

*Should read Pb. 1.2%

19. This project is the first attempt to prove favorable geology or the existence of commercial ore at depth in this district.

20. Copper, as disseminated mineralization.
Copper, lead and zinc as vein deposits.

21. First work proposed is to deepen #1 diamond drill hole from 160' to 400' or more, to prospect for downward projection of veins in upper tunnels.
Secondly, #3 diamond drill hole will be deepened from present depth of 419', an indeterminate distance. This hole penetrated typical granodiorite from collar to depth of 268'. For 151', from 268' to bottom at 419', the hole penetrated an acidic (quartz) formation that was highly and uniformally impregnated with sulfide minerals throughout. Some slight replacement of disseminated pyrrhotite (?) by cgalcopyrite has taken place. More drilling is justified to determine expanse of this dissemination with the expectation of encountering breecias or fractures that may contain commercial ores.
Thirdly, it is proposed to drill #4 hole on a down angle of 45° in approximately the same azimuth as #3 hole. To penetrate the same horizon as #3 hole, this new hole will be 1000' deep. This will test disseminated zone 700' deeper than flat hole #3.
Fourthly, with gasoline powered diamond drill machine now owned, we propose to drill a number of surface holes below the upper tunnels to follow downward trends of veins in upper tunnels.

23.

(a)	Two miners, 3200 man-hours @ $1.75	$5600
(b)	One superintendent, 8 months @ $750	6000
(c)		none
(d)		none
(e)	Diamond drill equipment	6000
(f)		none
(g)		none
(h)		3900
(i)	Diesel fuel, etc.	1250
		$22750

24.

Month	Feet Dia. Drill Hole		Expenditure
1st	276	underground	$7000
2nd	297	"	2300
3rd	267	"	2300
4th	260	"	2300
5th	220	"	2450
6th	100	surface	2800
7th	250	"	1800
8th	250	"	1800
			$22750

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA 1979

Date received 8-17-51

Participation

Priestley Mining & Milling Co.
P. O. Box-278
North Bend, Washington

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application August 8, 1951

Estimated cost $22,750

Mineral or metal Copper, Zinc, Lead

Percentage of Government participation 50

Location of mine Sec. 18, T.25N., R.10E., W.M.
Buena Vista Mining District
King County, Washington

Date of filing MF-100 June 25, 1951 *

DMA Docket Number, if available 1979

* Application for Mine Serial Number

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 17 1951

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

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*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
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*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
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20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
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CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Priestley Mining & Milling Co.
(Name of company)

By J. Van Duzedy
(Signature of authorized official)

August 8, 1951
(Date)

Manager
(Title)

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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

1. Corporation

3. (Information will be furnished later upon request)

4. Has had property under lease (and development) for five years.
   (b) Mining Engineer; 30 years experience in developing and producing mining properties in the West; Five and one-half years with Mining Division, War Production Board, and Premium Price Plan for copper, lead and zinc, Washington, D.C., April 1, 1942 to Sept. 15, 1947.

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7. (Same as (3)

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9. One-half of current expense. Sufficient per Mineral Order 5.

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12. 23 miles northeasterly from North Bend, Washington over graded, gravel roads. Roads are good, one hour driving from North Bend to mine. Ordinarily no disruption of travel during winter months.

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    315 cu.ft. diesel air-compressor now installed uses 2 to 3 gallons of diesel fuel per hour.

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    3. From tunnel 35' vertically below. 12" sulfides below 1" talc streak, Au. 0.17 oz; Ag. 18.4 oz; Pb. 1.2%; Zn. 3.3%; Cu. 1.98%
    N.B. All above assays by Peter Mack, Osburn, Idaho.
    Lower working tunnel 650' vertically below upper tunnels was completed in October, 1950. Portal to face 670'. Three diamond drill holes were drilled from this tunnel during first-half 1951, as follows: #1 160'; #2 290'; #3 419'; total 869'.
    (b) No production from any property.
    (c) None

19. This project is the first attempt to prove favorable geology or the existence of commercial ore at depth in this district.

20. Copper, as disseminated mineralization.
Copper, lead and zinc as vein deposits.

21. First work proposed is to deepen #1 diamond drill hole from 160' to 400' or more, to prospect for downward projection of veins in upper tunnels.
Secondly, #3 diamond drill hole will be deepened from present depth of 419', an indeterminate distance. This hole penetrated typical granodiorite from collar to depth of 268'. For 151', from 268' to bottom at 419', the hole penetrated an acidic (quartz) formation that was highly and uniformally impreg nated with sulfide minerals throughout. Some slight replacement of disseminated pyrrhotite(?) by chalcopyrite has taken plase. More drilling is justified to determine expanse of this dissemination with the expectation of encountering breccias or fractures that may contain commercial ores.

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Fourthly, with gasoline powered diamond drill machine now owned, we propose to drill a number of surface holes below the upper tunnels to follow downward trends of veins in upper tunnels.

23.

(a)	Two miners, 3200 man-hours @ $1.75	$5600
(b)	One superintendent, 8 months @ $750	6000
(c)		none
(d)		none
(e)	Diamond drill equipment	6000
(f)		none
(g)		none
(h)		3900
(i)	Diesel fuel, etc	1250
		$22750

24.

Month	Feet Dia. Drill Hole		Expenditure
1st	276	underground	$7000
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4th	260	"	2300
5th	220	"	2450
6th	100	surface	2800
7th	250	"	1800
8th	250	"	1800
			$22750

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1979

Commodity COPPER, ZINC, LEAD

Total Amount $22,750

Govt. Participation $11,375.00

1. Name and Address of Applicant PRIESTLEY MINING & MILLING CO.
P.O. BOX - 278 · NORTH BEND WASHINGTON

2. Location of Property SEC 18, T25N, R10E W.M.
BUENA VISTA MINING DISTRICT, KING COUNTY, WASHINGTON

3. Mineral or metal COPPER ZINC LEAD Is it listed in Section 9 of MO-5?

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination ✓

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? YES
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? NO

Does the lease have sufficient time to run to cover a future productive period? — Can't tell

*question numbers are those of MF-103

7. Are subordination agreements necessary? YES

a) MF-201? ?

b) MF-202 ?

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower YES

b) Equipment and supplies YES
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* YES

d) Water (question 13)* YES

e) Power (question 13)* YES

Is a field check needed on any of these points? NO

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* YES

Is a field check needed on this point? NO

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? YES in part

If not, are there sufficient data given so that you can describe the project? YES If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No only shows half of project.

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? YES

If not, what part of it is?

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? YES If so, attach a draft.

e) Are the cost estimates reasonable? Can't judge

f) Should more information be requested from applicant? YES May definit drilling program MS 8 4

g) Is a field examination necessary to complete Exhibit A? YES

11. Exhibit B (question 23-d)*

a) Is it applicable? No

b) If so, are sufficient data furnished? — If so, attach a draft.

c) Is a field check needed? No

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? e applicable f & g not

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? Can't tell

d) Is a field check needed? YES

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? YES

b) Is the schedule adequate for the work proposed? YES

c) Is the schedule excessive for the work proposed? No

d) Are the proposed wages and salaries reasonable? No Supervision way to high

e) Is a field check needed? YES

EXHIBIT A

21. The applicant proposes to:

1. deepen #1 diamond drill hole from 160' to 400' or more to prospect for downward projection of veins in upper tunnel.

2. deepen #3 diamond drill hole from present depth of 419' an undetermined distance to determine extent of discovery with the exception of encountering breccias or fractures that may contain commercial ore.

3. drill #4 hole on a down angle of 45° in approximately the same azimuth as #3 hole. To penetrate the same horizon as #3 hole, this new hole will be 1000' deep. This will test discovery zone 70' deeper than flat hole #3

4. with goodson powered diamond drill machine now owned we propose to drill a number of surface holes below the upper tunnels to follow downward trends of veins in upper tunnels.

LABOR	$5600.00
SUPERVISION	6000.00
EQUIPMENT	6000.00
SUPPLIES	3900.00
DIESEL FUEL ETC.	1250.00
	$22,750.00

23. d NOT APPLICABLE

e DIAMON DRILL EQUIPMENT	$6000.00
f. NOT APPLICABLE	
g. NOT APPLICABLE	
h. SUPPLIES	$3900.00
i. DIESEL FUEL ETC	$1250.00

DMA-1979

23 a. 2 MINERS, 3200 MAN HOURS @ 1.75 $5600.00

b. ONE SUPERINTENDENT, 8 MOS @ $750 6000.00

c. Not applicable

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data? —

c) Reasonable? —

d) Field check needed? N/A

15. In your judgment, can the proposed work be done in the proposed time? Probably.

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Check feasibility of project and geology. Advise against doing any drilling

Reviewed by: [illegible]
R W Lewis
C Johnson
J B Gowen

Date

INT.-DUP. SEC., WASH., D.C. 99009

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1979

Commodity COPPER, ZINC, LEAD

Total Amount $22,750

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2. Location of Property SEC 18, T25N, R10E W.M.
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If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

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c) None

d) Don't know—needs field examination ✓

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? YES
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? NO

Does the lease have sufficient time to run to cover a future productive period? — Can't tell

*question numbers are those of MF-103

7. Are subordination agreements necessary? YES

a) MF-201? ?

b) MF-202 ?

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower YES

b) Equipment and supplies YES
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* YES

d) Water (question 13)* YES

e) Power (question 13)* YES

Is a field check needed on any of these points? NO

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* YES

Is a field check needed on this point? NO

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? YES - in part

If not, are there sufficient data given so that you can describe the project? YES If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No only shows half of project.

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? YES

If not, what part of it is?

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? YES If so, attach a draft.

e) Are the cost estimates reasonable? Can't judge

f) Should more information be requested from applicant? YES

g) Is a field examination necessary to complete Exhibit A? YES MADS Rep and Welling program for 304

11. Exhibit B (question 23-d)*

a) Is it applicable? No

b) If so, are sufficient data furnished? — If so, attach a draft.

c) Is a field check needed? No

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? e applicable f & g not

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? Can't tell

d) Is a field check needed? YES

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a) Are there sufficient data? YES

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EXHIBIT A

21. The applicant proposes to:

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3. drill #4 hole on a down angle of 45° in approximately the same azimuth as #3 hole. To penetrate the same horizon as #3 hole, this new hole will be 1000' deep. This will test discontinuity zone 70' deeper than flat hole #3

4. with gasoline powered diamond drill machine now owned we propose to drill a number of surface holes below the upper tunnels to follow downward trends of veins in upper tunnels.

LABOR	$5,000.00
SUPERVISION	6000.00
EQUIPMENT	6000.00
SUPPLIES	3900.00
DIESEL FUEL ETC.	1250.00
	$22,750.00

23. d NOT APPLICABLE

e DIAMON DRILL EQUIPMENT	$6000.00
f. NOT APPLICABLE	
g. NOT APPLICABLE	
h. SUPPLIES 3	$3900.00
i. DIESEL FUEL ETC	$1250.00

DMA-1979

23 a. 2 MINERS, 3200 MAN HOURS @ 1.75 $5600.00

b. ONE SUPERINTENDENT, 8 MOS @ $750 6000.00

c. Not applicable.

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data? —

c) Reasonable? —

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? Probably

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Check feasibility of project and geology. Advise against doing more drilling

Reviewed by: [illegible]
[illegible]
[illegible]
J B Gowen

Date

INT.-DUP. SEC., WASH., D.C. 99009

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1679

Commodity Copper Zinc Lead

Total Amount $22,750

Govt. Participation $11,375.00

1. Name and Address of Applicant Pennsylvania Mining Co.
P.O. Box 278 Main Road Spokane

2. Location of Property Sec. 14 T25N, R40 W M
Buena Vista Mining District, King County, Washington

3. Mineral or metal Copper Zinc Lead Is it listed in Section 9 of MO-5?

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination ✓

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? No

Does the lease have sufficient time to run to cover a future productive period? —

*question numbers are those of MF-103

7. Are subordination agreements necessary? Yes

a) MF-201? ?

b) MF-202 ?

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? No

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes

Is a field check needed on this point? No

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? Yes in part

If not, are there sufficient data given so that you can describe the project? Yes If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? ? only

[illegible]

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is?

Is this part a worthwhile exploration project? —

d) Are the cost estimates detailed? [illegible]

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? Yes If so, attach a draft.

e) Are the cost estimates reasonable? [illegible]

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes Maps Submit detailed Program for #304

11. Exhibit B (question 23-d)*

a) Is it applicable? No

b) If so, are sufficient data furnished? _____ If so, attach a draft.

c) Is a field check needed? No

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? [illegible]

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? [illegible]

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? Yes

c) Is the schedule excessive for the work proposed? No

d) Are the proposed wages and salaries reasonable? No [illegible]

e) Is a field check needed? Yes

EXHIBIT A

21. Proposed program:

1. Deepen #1 diamond drill hole from 160' to 400' or more to gauge the horizontal projection from an upper tunnel for

2. Deepen #3 diamond drill hole for present depth of 481' on a sub-terranean distance to determine approximately the extent of recovering breccia or fractures that may contain commercial ore.

3. Drill #4 hole on down angle of 45° in approximately the same azimuth as #3 hole to penetrate the same horizon as #3 hole, this new hole will be 100' deep. This will ~~test~~ discover a vertical zone 70' deeper than the hole #3

4. Not question but that diamond drill machine recommended and proposed should consist of another hole below the upper tunnels to follow downward trends of veins on upper tunnels.

LABOR	$5100.00
SUPERVISION	1000.00
EQUIPMENT	6000.00
SUPPLIES	3700.00
DIESEL FUEL ETC	1250.00
	$22,750.00

23 d. NOT APPLICABLE

e. DIAMOND DRILL EQUIPMENT	$1000.00
f. NOT APPLICABLE	
g. NOT APPLICABLE	
h. SUPPLIES 3	$3700.00
i. DIESEL FUEL ETC	$1250.00

DIR 1979

23 a. 2 MINERS, SALARY MINERS @ 175 $5,000

b. ONE SUPERINTENDENT, SALARY @ $750 [illegible]

c. not applicable.

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data? —

c) Reasonable? —

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? [illegible]

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? [illegible] footage. Advise against doing run drilling

Reviewed by: [illegible]

R W Lewis

C H Johnson

Date

INT.-DUP. SEC., WASH., D.C. 99009

Dma 1979

Defense Minerals Administration

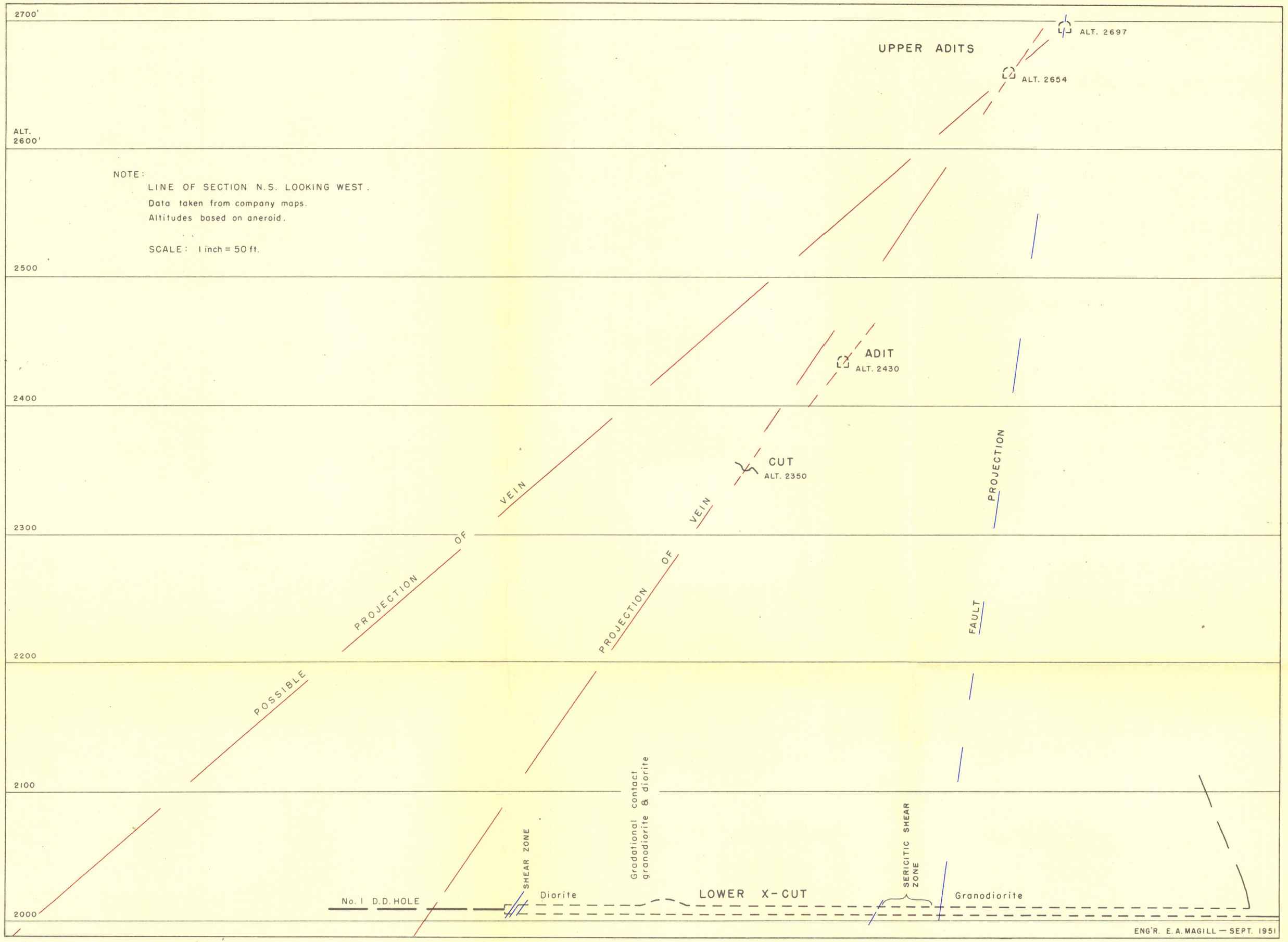
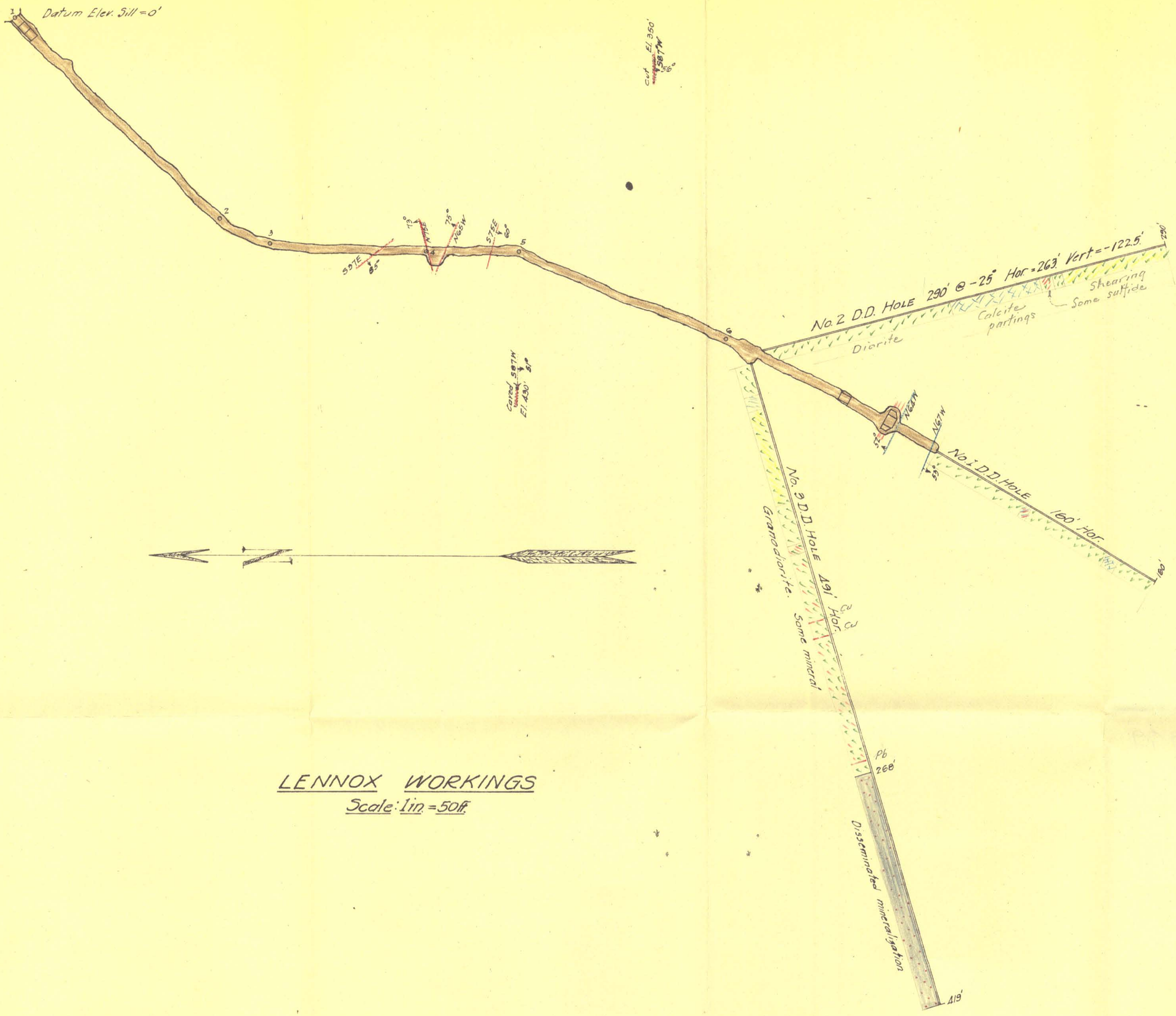


Figure 2.—Cross section A-A', Lennox mine, King County, Wash.

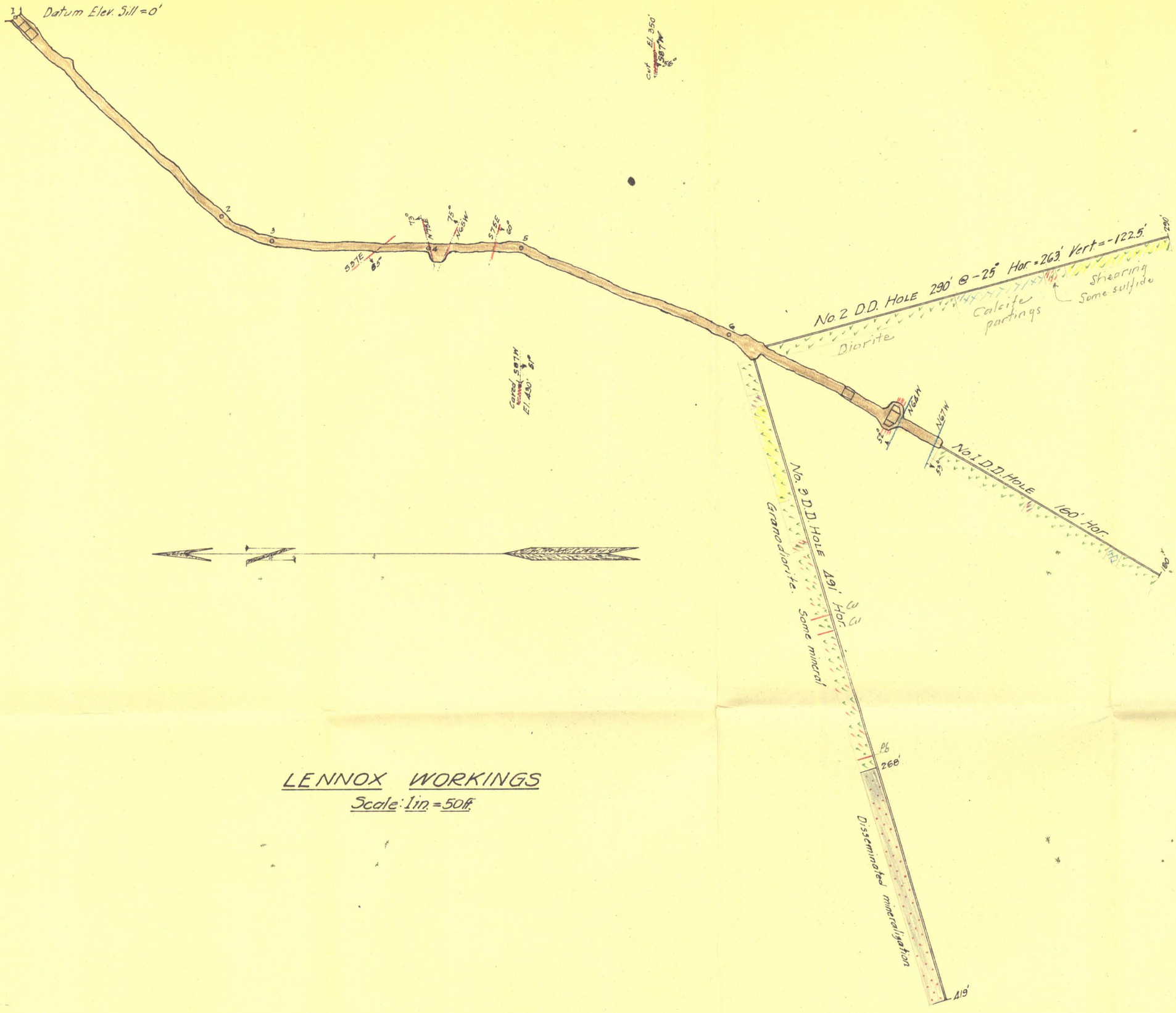


LENNOX WORKINGS

Scale: 1 in. = 50 ft.

Note: Stadia Survey of Upper Tunnels. Positions and Elevations Approximate.

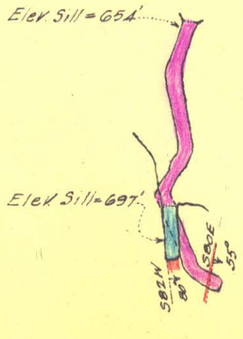
J.E.V.G. 9/6-1951.



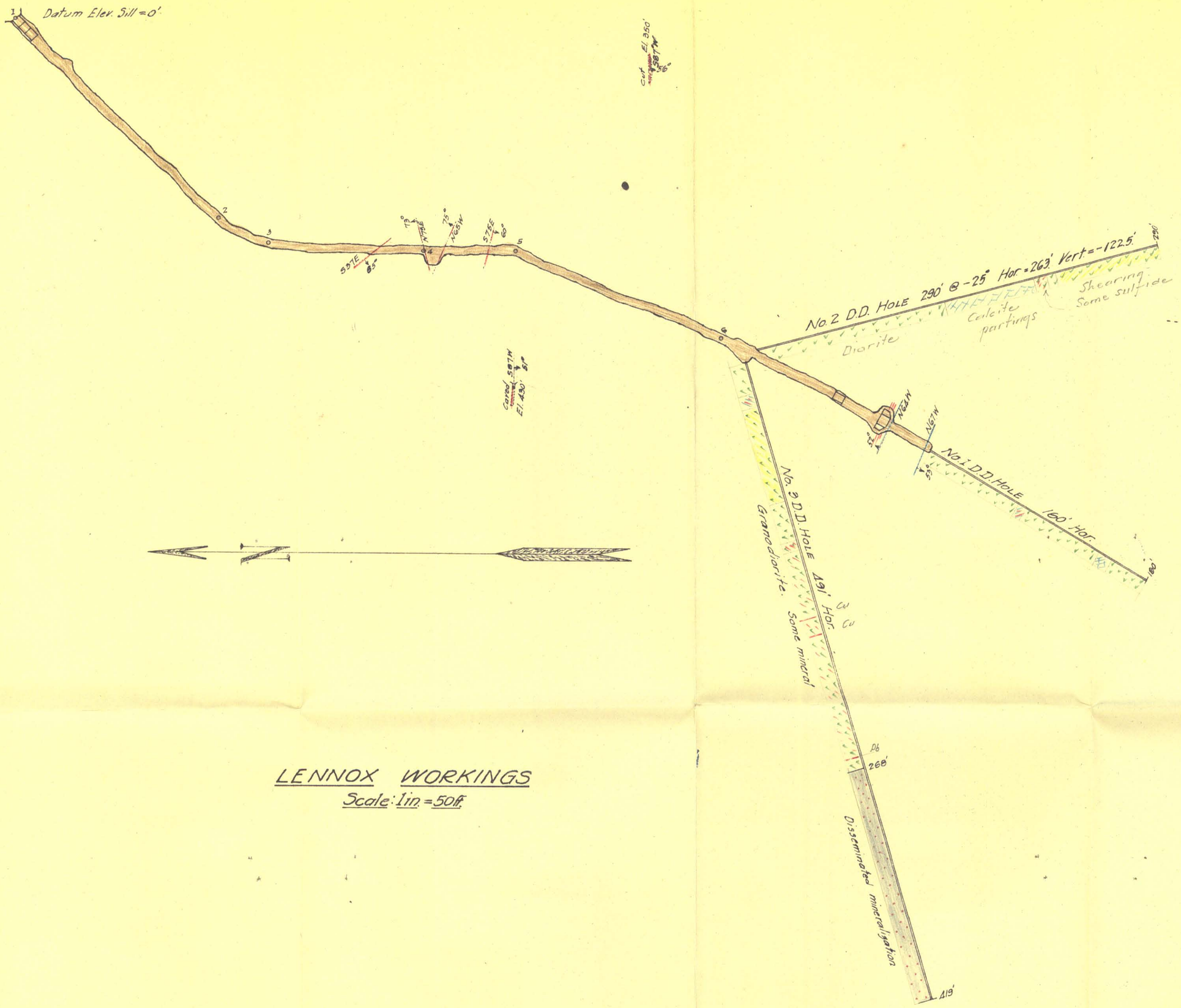
LENNOX WORKINGS

Scale: 1 in. = 50 ft.

Note: Stadia Survey of Upper Tunnels. Positions and Elevations Approximate.



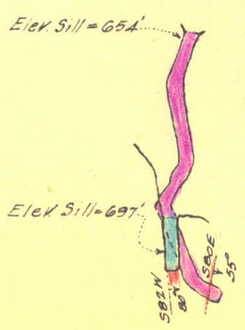
J.E.V.G. 8/6-1951.



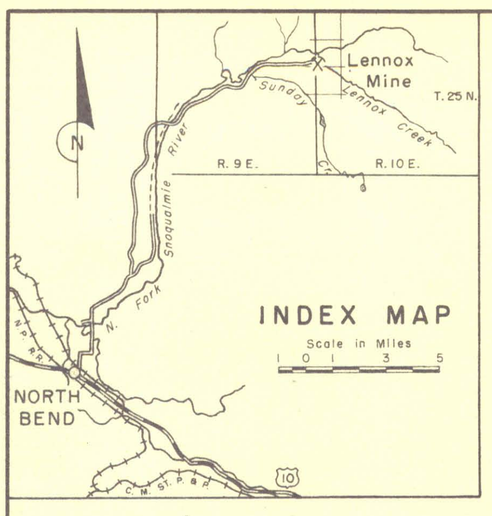
LENNOX WORKINGS

Scale: 1 in. = 50 ft.

Note: Stadia Survey of Upper Tunnels. Positions and Elevations Approximate.



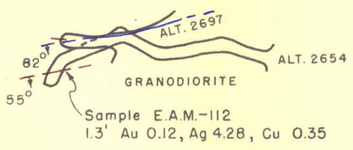
J.E.V.G. 8/6-1951.



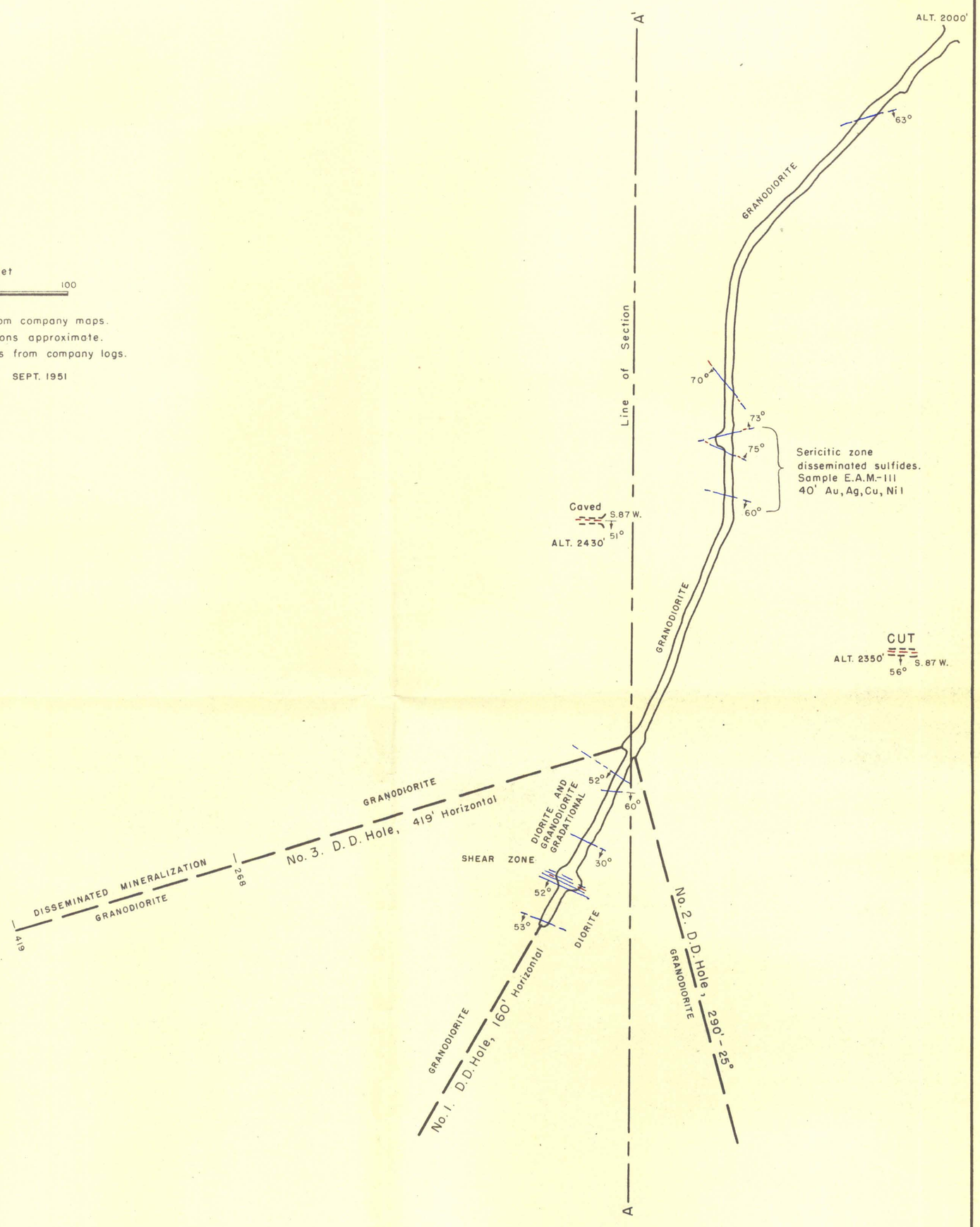
Scale in feet
25 0 50 100

NOTE: Workings traced from company maps.
Positions and elevations approximate.
Geology of D.D. holes from company logs.

E.A.MAGILL, ENG'R SEPT. 1951



UPPER ADITS



Lennox mine, King County, Wash.

June 1979