DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2434

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EXPLORATION PROJECT

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

Copies to USBM, USGS.

To:	Code 700, Rm. 4640	Date	3-19-52
To:	Opr Comm.	Date	4-2-52. ~~5/31/52~~
To:	Mr Mittlesdorf	Date	
To:	Mails & Files	Date	
To:	Opr Com	Date	11-28-52.
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
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To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

NOV 28 1952

Mr. Robert J. Curtiss
RFD No. 1, Box 176
Monroe, Washington

Re: Docket No. [illegible]-2434 (Copper and Zinc)
Calumet Lode Mining Claim
Snohomish County, Washington

Dear Mr. Curtiss:

Reference is made to your application for Government aid on the captioned exploration project in the amount of $7,186.00.

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

A careful study of your application and data available to this Agency, and an examination of the property concerned reveal that the probability of disclosing mineral reserves by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

If additional work on your property reveals information which makes the project feasible, an application may be submitted for consideration.

Sincerely yours,

C. O. Mittendorf

Administrator

11-28-52

FLKnouse/jem
11/25/52
cc to: Adm. Reading File
Docket
Messrs. CHJohnson-3621
ARKinkel-4234 GSA
Ellis Knouse
Opr. Committee
Field Team, Reg. II (2)

10/30/52 gla

IN REPLY REFER TO:

G-MD-CF

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 29 1952

October 28, 1952

Memorandum

To: E. W. Ellis

From: A. R. Kinkel, Jr.

Subject: DMEA 2434 (copper, zinc) Calumet Lode Mining Claim
Snohomish County, Washington

I concur with the field team that this application should be denied because of the very low copper assays that were obtained by the field examiner.

A R Kinkel Jr

A. R. Kinkel, Jr.

IN REPLY REFER TO:

G-MD-CF

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

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Memorandum

To: E. W. Ellis

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Subject: DMEA 2434 (copper, zinc) Calumet Lode Mining Claim
Snohomish County, Washington

I concur with the field team that this application should be denied because of the very low copper assays that were obtained by the field examiner.

A. R. Kinkel, Jr.

ARKinkel:gt

10/24/52 gla

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

So. 157 Howard Street
Spokane 4, Washington

October 13, 1952

MEMORANDUM

To: Frank E. Johnson, Chairman, Operating Committee, DMEA, Washington 25, D. C.

From: Field Team, Region II

Subject: Docket No. DMEA-2434, Calumet Lode Mining Claim, Snohomish County, Washington

Attached is a report in quadruplicate by Willard Puffett, U. S. Geological Survey, on the subject docket. Denial of the application is recommended because of the low grade of samples taken of the mineralized zone. The examination was made in company with Mr. E. A. Magill of the Bureau of Mines, but inasmuch as the application is being denied on geologic grounds it does not seem necessary to prepare an engineering report on the property.

Please note that this is a different property from that of the Mint claims by the same applicants (Curtiss and Rogers) Docket DMEA-2435. A contract for the exploration of the Mint claims is now in the process of being signed by the operators.

By Field Team, Region II

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

for: M. E. Volin, Member
U. S. Bureau of Mines

cc: USBM(2)
Puffett

Reviewed by
DMEA OPERATING COMMITTEE

10-29-52
(date)

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

So. 157 Howard Street
Spokane 4, Washington

September 18, 1952

Memorandum

To: DMEA Field Team, Region II

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

Subject: Docket No. DMEA 2434 (Copper and Zinc), Robert T. Curtiss, Calumet Lode Mining Claim, Snohomish County, Washington.

Applicant:

Robert T. Curtiss and John C. Rogers, Partners
RFD No. 1, Box 156
Monroe, Washington

Recommendation:

It is recommended that the application for aid in exploring for copper ore on the Calumet Claim, Sultan Basin, Snohomish County, Washington, be denied. The assay results obtained from samples taken along the mineralized zone indicate that the grade of the zone is too low to merit further exploration.

Summary of Field Examination:

The Calumet Claim was examined by myself and E. A. Magill, U. S. Bureau of Mines, on Thursday, September 3, 1952. Mr. Robert T. Curtiss, one of the applicant partners, accompanied us on the examination. Approximately six hours were spent on the property during the examination.

Name and Location of Property:

The Calumet Claim is along the summit of a ridge that extends northwestward from Red Mountain in the Sultan Basin, Snohomish County, Washington. The elevation ranges from 4650 feet to 5000 feet above sea level. The property is reached by trail that extends from the North Fork of Sultan River. The lower end of the trail can be reached by a mine to market road that connects to a county road to Sultan, Washington, a distance of slightly more than 27 miles.

Reviewed by
DMEA OPERATING COMMITTEE

10-29-52
(date)

Description of Property:

Workings on the property consist of a 170-foot crosscut at an elevation of 4,650 feet from the end of which a drift 50 feet long has been made to the northwest, at the end of which another 30 feet of crosscutting to the southwest has been done. Numerous trenches have been cut across portions of the exposed mineralized zone on the surface.

No buildings nor other facilities remain on the property.

Geologic Setting:

The geology of the Calumet Claim has been described in the Washington Division of Mines and Geology Bulletin No. 36, by Ward Carithers and A. K. Guard.

Essentially, the Calumet Claim is in an area underlain by both metamorphosed Paleozoic sediments and Tertiary granitic rocks. An iron-stained mineralized zone extends across the length of the claim contained entirely in the sediments with the exception of a band of serpentinized rocks transecting it approximately midway in the claim.

From what could be observed, it is indicated that the mineralized zone ranges in width from 10 feet to a maximum of 40 feet. Pyrite and pyrrhotite were the dominant sulphide minerals observed, with minor amounts of chalcopyrite, galena, and sphalerite being seen. In addition to these Carithers' report mentions arsenopyrite and marcasite. Bordering the mineralized zone on the north is a barren quartz vein.

Inasmuch as the operator had submitted with his application a geologic map prepared by a reliable authority, the primary purpose of the examination was to obtain samples of the mineralized zone to determine grade of the rock. Six samples were taken along the surface exposed zone and one sample was taken across the face of the drift. The location and assay results of these samples are shown on the accompanying map. Although one sample taken in a strongly oxidized zone obtained assay values of 0.22 ounce per ton of gold and 6.4 ounces per ton of silver, none of the samples obtained promising assay values in copper.

Inasmuch as the underground work has intersected downward extensions of the surface mineralized area and here the grade of ore is no better than that on the surface, the probability is that the

low assay values of copper obtained from surface samples are a true indication of the grade of the ore and very little leaching of the copper values has occurred.

Consequently, because of the low grade of the mineralized zone there seems little justification for a favorable recommendation to allow for further exploring it.

Willard P. Puffett
Geologist

Enclosure

cc: DMEA (4)
USBM (2)
USGS (SRO)
Puffett

10/31/52 gla

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

Sam

So. 157 Howard Street
Spokane 4, Washington

October 13, 1952

MEMORANDUM

To: Frank E. Johnson, Chairman, Operating Committee, DMEA, Washington 25, D. C.

From: Field Team, Region II

Subject: Docket No. DMEA-2434, Calumet Lode Mining Claim, Snohomish County, Washington

Attached is a report in quadruplicate by Willard Puffett, U. S. Geological Survey, on the subject docket. Denial of the application is recommended because of the low grade of samples taken of the mineralized zone. The examination was made in company with Mr. E. A. Magill of the Bureau of Mines, but inasmuch as the application is being denied on geologic grounds it does not seem necessary to prepare an engineering report on the property.

Please note that this is a different property from that of the Mint claims by the same applicants (Curtiss and Rogers) Docket DMEA-2435. A contract for the exploration of the Mint claims is now in the process of being signed by the operators.

By Field Team, Region II

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

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

cc: DMEA(2)
Puffett

Reviewed by
DMEA OPERATING COMMITTEE

10-29-52
(date)

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

So. 157 Howard Street
Spokane 4, Washington

September 18, 1952

Memorandum

To: DMEA Field Team, Region II

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

Subject: Docket No. DMEA 2434 (Copper and Zinc), Robert T. Curtiss, Calumet Lode Mining Claim, Snohomish County, Washington.

Applicant:

Robert T. Curtiss and John C. Rogers, Partners
RFD No. 1, Box 156
Monroe, Washington

Recommendation:

It is recommended that the application for aid in exploring for copper ore on the Calumet Claim, Sultan Basin, Snohomish County, Washington, be denied. The assay results obtained from samples taken along the mineralized zone indicate that the grade of the zone is too low to merit further exploration.

Summary of Field Examination:

The Calumet Claim was examined by myself and E. A. Magill, U. S. Bureau of Mines, on Thursday, September 3, 1952. Mr. Robert T. Curtiss, one of the applicant partners, accompanied us on the examination. Approximately six hours were spent on the property during the examination.

Name and Location of Property:

The Calumet Claim is along the summit of a ridge that extends northwestward from Red Mountain in the Sultan Basin, Snohomish County, Washington. The elevation ranges from 4650 feet to 5000 feet above sea level. The property is reached by trail that extends from the North Fork of Sultan River. The lower end of the trail can be reached by a mine to market road that connects to a county road to Sultan, Washington, a distance of slightly more than 27 miles.

Reviewed by
DMEA OPERATING COMMITTEE

10-29-52
(date)

Description of Property:

Workings on the property consist of a 170-foot crosscut at an elevation of 4,650 feet from the end of which a drift 30 feet long has been made to the northwest, at the end of which another 30 feet of crosscutting to the southwest has been done. Numerous trenches have been cut across portions of the exposed mineralized zone on the surface.

No buildings nor other facilities remain on the property.

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Essentially, the Calumet Claim is in an area underlain by both metamorphosed Paleozoic sediments and Tertiary granitic rocks. An iron-stained mineralized zone extends across the length of the claim contained entirely in the sediments with the exception of a band of serpentinized rocks transecting it approximately midway in the claim.

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Inasmuch as the operator had submitted with his application a geologic map prepared by a reliable authority, the primary purpose of the examination was to obtain samples of the mineralized zone to determine grade of the rock. Six samples were taken along the surface exposed zone and one sample was taken across the face of the drift. The location and assay results of these samples are shown on the accompanying map. Although one sample taken in a strongly oxidized zone obtained assay values of 0.22 ounce per ton of gold and 6.4 ounces per ton of silver, none of the samples obtained promising assay values in copper.

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Consequently, because of the low grade of the mineralized zone there seems little justification for a favorable recommendation to allow for further exploring it.

Willard P. Puffett
Geologist

Enclosure

cc: DMEA (4)
USBM (2)
USGS (SRO)
Puffett

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

So. 157 Howard Street
Spokane 4, Washington

August 11, 1952

Mr. Robert T. Curtiss
Route 1, Box 156
Monroe, Washington

Re: Docket DMEA-2434, Calumet Lode Mining Claim, Snohomish County, Washington (Copper-Zinc)

Dear Mr. Curtiss:

This is in reply to your letter of August 6, 1952, in which you inform us that your property, the Calumet Lode mining claim, for which you have made application for exploration assistance, (Docket No. DMEA-2434) is now open and favorable for a field examination. Mr. Puffett from our office has just returned from an examination trip into your country, during which he stopped in to see you on Sunday, August 2, but did not find you at home. I regret that Mr. Puffett was not able to make connections with you at this time, but he will be making another trip in the very near future and will contact you in advance so as to assure an examination without further delay.

Very truly yours,

S. Warren Hobbs
Acting Member, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)
Puffett

SWH/beh

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

So. 157 Howard Street
Spokane 4, Washington

August 11, 1952

Mr. Robert T. Curtise
Route 1, Box 136
Monroe, Washington

Re: Docket DMEA-243, Calumet Lode Mining Claim, Snohomish County, Washington (Copper-Zinc)

Dear Mr. Curtise:

This is in reply to your letter of August 6, 1952, in which you inform us that your property, the Calumet Lode mining claim, for which you have made application for exploration assistance, (Docket No. DMEA-243) is now open and favorable for a field examination. Mr. Puffett from our office has just returned from an examination trip into your country, during which he stopped in to see you on Sunday, August 2, but did not find you at home. I regret that Mr. Puffett was not able to make connections with you at this time, but he will be making another trip in the very near future and will contact you in advance so as to assure an examination without further delay.

Very truly yours,

S. Warren Hobbs
Acting Member, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)
Puffett

SWH/beh

700

FILE COPY
SURNAME:

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

F.L. Knouse
Ellis
Thayer

AIR MAIL

APR 3 1952

Mr. A. L. Weissenborn
Executive Officer, Region II
DMEA Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. DMEA-2434 (Copper & Zinc)
Robert T. Curtiss
Calumet Lode Mining Claim
Snohomish County, Washington

Dear Mr. Weissenborn:

The captioned application is being referred to you for either a field examination or a recommendation based on information available to your office.

We are attaching copies of memoranda from Mr. C. H. Johnson dated March 26, 1952, and Mr. N. E. Nelson, dated March 24, 1952, outlining the important questions to be considered when making your examination. If the proposal submitted by the applicant or an alternate program is recommended by your office and approved by the applicant, maps or sketches showing the proposed work in relation to the mining claim lines, with detailed costs as are outlined in Form ME-103, should accompany the report. The cost and description of any equipment to be purchased or rented and the fair market value and description of any equipment to be supplied by the operator should be stated. If all or any part of a recommended program is to be done by a contractor, it should be indicated and the unit price of the work supplied. If an exploration project is recommended we will require from the applicant one original and six copies of Form M-202 "Landlord's Subordination Agreement" signed by the property owner with a list of the mining claims, on which work is to be done and any adjoining claims controlled by the applicant, where the claims are recorded, book number, page and entry date.

We note in your memorandum dated March 7, 1952, that a copy of this application was retained by your office.

On receipt of the recommendations from your office we will be able to proceed with the processing of this application.

Sincerely yours,
(signed) FRANK E. JOHNSON

cc 4-3

Chairman, Operating Committee
Defense Minerals Exploration Administration

Enclosures:
APPROV: J. H. Hedges
Member, Bureau of Mines

T. P. Thayer
Member, Geological Survey

FLKnouse/jem 3/31/52
cc to; Adm. Reading File
Docket
Messrs. C.H.Johnson, Rm. 3621
Ned Nelson, Rm. 4216 GS
Ellis Knouse
Opr. Comm. Field Team, Reg. II

FILE COPY
SURNAME:

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

F.H. Knouse
Ellis
Hadsey
Hayes
J.H. Johnson

Mr. Robert T. Curtiss
RFD #1, Box 156
Monroe, Washington

Re: Docket No. [illegible]-2434 (Copper [illegible] ine)
Calumet Lode Mining Claim
Snohomish County, Washington

Dear Mr. Curtiss:

Your application for assistance in exploring your property in Snohomish County, Washington, under the above captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration and has been referred to Mr. A. R. Weissenborn, Executive Officer, DMEA Field Team, Region II, South 157 Howard Street, Spokane 8, Washington, for a field examination.

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

C. O. Mittendorf (for) 4-3

Acting Administrator
Defense Minerals Exploration
Administration

F.H.Knouse/jem
3/31/52
cc to: Adm. Reading File
Docket
Messrs. C.H.Johnson, Rm. 3621
Ned Nelson Rm. 4216 G
Ellis
Knouse
Field Team, Region II (2)

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

March 26, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: Exploration application, Robert T. Curtis, Monroe, Washington, DMEA 2434, Copper, $7,186, Calumet Prospect, Snohomish County, Washington

A Bureau of Mines engineer examined the Calumet Prospect in August 1943. His conclusion was that where the oreshoots were of sufficient grade to be commercial, they are too small and where the vein is large enough, the grade is too low. In spite of this unfavorable conclusion, I believe the application justifies a field team examination, particularly in view of the accompanying application from Mr. Curtis for exploration of an adjoining property.

A minor question concerns the advisability of the proposed tramway reconstruction in view of the fact that nothing more than hand tools and supplies will require transportation to the point of the proposed trenching.

The application is returned herewith.

C. H. Johnson

C. H. Johnson

Attachment

Copy to - Mr. Nelson
Base Metals Branch
C. H. Johnson
Files

COPY

3/28/52 vgla

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

March 26, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: Exploration application, Robert T. Curtis, Monroe, Washington, DMEA 2434, Copper, $7,186, Calumet Prospect, Snohomish County, Washington

A Bureau of Mines engineer examined the Calumet Prospect in August 1943. His conclusion was that where the oreshoots were of sufficient grade to be commercial, they are too small and where the vein is large enough, the grade is too low. In spite of this unfavorable conclusion, I believe the application justifies a field team examination, particularly in view of the accompanying application from Mr. Curtis for exploration of an adjoining property.

A minor question concerns the advisability of the proposed tramway reconstruction in view of the fact that nothing more than hand tools and supplies will require transportation to the point of the proposed trenching.

The application is returned herewith.

C. H. Johnson

Attachment

Copy to - Mr. Nelson
Base Metals Branch
C. H. Johnson
Files

March 24, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: Ned E. Nelson

Subject: Dmea-2434 and 2435. Robert T. Curtiss, Monroe, Washington.

Conclusions

Seven samples carrying arsenical iron and chalcopyrite are listed, which, if covering significant widths, and representative of interesting lengths, might arouse curiosity since the combined gold and copper values tend to make ore material. The history and general geologic conditions promise little. The applicant should furnish a more finished report, since what is given promises little.

Comment

The two applications appear to relate to 2 veins in a unitized parcel. The property map does not show the Calumet Fraction, Calumet Extension and Canyon Extension claims. Such claims are listed in the "Lease and Option to Purchase". The position of the Calumet Extension is indicated on the Calumet claim map.

The Sultan Basin has long been the scene of prospecting and small developments. Early work and production was hampered by lack of a road. This difficulty appears to have been overcome as the applicant says they now have a mine to market road.

The sample and geologic maps of the 2 veins give very indefinite information. According to the Calumet claim map at 3 places on the Calumet vein, samples of interest have been secured. No widths are given with the samples and they may well be grab samples of the spot or character type.

It is possible to identify one surface cut (at 4750E1) on the Calumet claim map with a cut on the Sultan Basin Mining Company's map. The center group of samples (2) of the Calumet claim map, probably came from the same locality as sample 12217 of Chase's plan of surface showings. It is to be regretted that the assays of the Chase's samples are not given us.

From the slight information given the ore of the Calumet vein is associated with a narrow band of sediments, a roof pendant in the granodiorite of the Coast Range.

No assays are given for samples which came from the Iowa Mine now the Mint. Some ore, probably 103 tons, was taken from this place about 1915. The longitudinal section suggests that the ore came largely from above the No. 3 level and the No. 2 level, 45 feet below, produced much less. Sampling or widths of vein material here would be information. Promise of significant further production is lacking here.

Seven samples from cuts on the Calumet vein, carrying arsenical iron and chalcopyrite assay enough in gold and copper to be of interest if known to represent significant widths and lengths. By inference some width may be represented, but the 2 open cuts from which the samples were taken are 650 feet apart and no intermediate samples seem to have been taken. although cuts and rock exposures are mapped.

The applicant should furnish more substantial reasons for expecting better results from the work planned then have been obtained by work done to date.

/s/ N. E. Nelson
Ned E. Nelson
Geologist

EXPLORATION

Subject: DMEA-2434
Re: Exploration Loan
Calumet Lode
March 19, 1952

Mr. Robert T. Curtiss
RFD #1, Box 156
Monroe, Washington

My dear Mr. Curtiss:

This will acknowledge receipt of your application dated March 1, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2434 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2434 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS
Robert E. Adams
Acting Administrative Officer

7862

DMEA-2434

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

March 7, 1952

Memorandum

To: Chairman, Operating Committee, DMEA, Washington 25, D. C.

From: Field Team, Region II

Subject: Application of Robert T. Curtiss, R.F.D. 1, Box 156, Monroe, Washington

Enclosed are three copies of Form MF-100 and six copies of MF-103 with substantiating data submitted by Mr. Robert T. Curtiss, R.F.D. 1, Box 156, Monroe, Washington, for the exploration of two mining properties, The Calumet Lode and the Mint Lode mining claims, owned by the Sultan Basin Mining Company in the Sultan Basin Mining District, Snohomish County, Washington. The fourth copy of the application forms has been retained here to facilitate a field examination.

A. E. Weissenborn

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

Enclosures

cc: USBM, Spokane

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 17 1952

DMEA-2434

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

No. 157 Howard Street
Spokane 4, Washington

March 7, 1952

Memorandum

To: Chairman, Operating Committee, DMEA, Washington 25, D. C.

From: Field Team, Region II

Subject: Application of Robert T. Curtiss, R.F.D. 1, Box 156, Monroe, Washington

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

Enclosures

cc: USBM, Spokane

MAR 1 1952

DMEA-2434

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

March 7, 1952

Memorandum

To: Chairman, Operating Committee, DMEA, Washington 25, D. C.

From: Field Team, Region II

Subject: Application of Robert T. Curtiss, R.F.D. 1, Box 156, Monroe, Washington

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

Enclosures

cc: USBM, Spokane

[illegible]
[illegible] 1952

Copy

609 Colman Building,
Seattle 4, Wash.
March 3, I952.

Mr. Robert T. Curtiss,
Monroe, Washington.

Dear Mr. Curtiss:

The sample which you sent me, being a composite of 7 mine samples from your copper-tungsten property, were assayed by Kennametal Inc. laboratories with the following results:

WO3	2.63%
Cu	11.75%
Cobalt	nil

If this is representative, tungsten values are definately worth saving. While at your present stage of development probably no good would be served by our quoting you on scheelite concentrate, we would like to hear from you later regarding the product you make.

I have the bulleton you sent and shall read it with interest.

Yours very truly,

Exploration Devision
of
Kennametal Inc.

Per
William M. Stoll, Mgr.

representing widths of 12 to 36 inches and distance along the strike of 150 ft. in the mint workings

TACOMA SMELTER

AMERICAN SMELTING AND REFINING COMPANY
SETTLEMENT STATEMENT

COPY

TACOMA, WASHINGTON. July 24, 1940

SHIPPER: Sultan Basin Mining Company
Sultan, Washington

MATERIAL: Bulk Ore

SMELTER LOT: 3874 MINE LOT: DATE RECEIVED: 7/8/40

CAR OR VESSEL: Truck ENTRY NO. DATED

GOLD QUOT.	SILVER QUOT.	COPPER QUOT.	
DATE	DATE	DOMESTIC DATE 7/8	DATE
$ PER OZ.	LESS	10.5875 LESS 2.50 8.0875	LESS

ZN.	AS.	SB.	NI.	BI.	SN.	FE.	SiO2.	CaO.	S.	A1203
.9	.32	-	-			19.4	31.8	1.2	15.7	5.1

LOT NO.	NO. SACKS	NET WGT.	MOISTURE	DRY WEIGHT	ASSAYS AU	AS	CU	CONTENTS GOLD OZS.	SILVER OZS.	COPPER LBS.
3874		42020	0.25	41915	.07	3.84	16.81	1.467	80	7046
					Less 1/2 oz. Silver				10	
					Less 20# Copper					419
									70	6627

Gold Realized Price $34.9125
" Mint " 20.6718
$14.2407

90% of Excess.	$12.8166		
Add	$19.0000		
1.467 Ozs. at.	$31.8166	$46.67	
Silver at 70-5/8¢		49.44	
Copper at 8.0875¢		535.96	$632.07
Base Charge $4.50			94.31
			$537.76

To be paid upon receipt by us of properly executed affidavit which will qualify the Silver content of this shipment for sale to the U. S. Government.

Ozs. 80 less 10 @ 70-5/8 less 34-3/4= 35-7/8. . . . . 25.11

Sultan Basin Mining Company, Sultan, Washington. $512.65

COPY

Robert T. Curtis
Route 1 Box 156 Monroe Wash.

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

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

C O P Y

Tacoma Smelting Company

Bought Of O. T. Brackett

Shipping point Startup, Washington Tacoma, Wash. July 26, 1915

Lot No. 902

Dry Weight 60776 Lbs.

Assay Per Ton	Gold Ozs.	Silver Ozs.	Copper%
	0.30	3.60	20.93

Robert T Curtise
Route 1 Box 156 Monroe Wash.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

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.

Rogers & Curtiss (Name of Company)

By Robert T. Curtiss (Signature of authorized official)

March 1, 1952 (Date)

Partner (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.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMEA-2434
Metal or Mineral
Date Received 3-17-52
Amount $
Participation (Government %)

Name and address of applicant

Robert T. Gaples
Box 1, Box 356,
Tacoma, Washington

Date March 1, 1952.

If you have already filed MF-100, give date filed ....., type of assistance requested ~~development~~ exploration,

DMA Docket Number (if available) .....

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*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*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

MAR 1 . 1952

16—64067-2

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2434

Date received 3-17-52

Robert T. Curtiss,
Rte #1, Box 156,
Monroe, Wash.

Name and address of applicant

Date March 1, 1952

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 17 1952

5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

MF 100 Robert T. Curtiss,
RFD #1, Box 156, Monroe, Wash.

1. (a) The products which have been produced and shipped to Tacoma Smelter at Tacoma, Washington are Copper, Gold and Silver

(b) Smelter by-products - Sulphur.

2. Rogers & Curtiss, lessees of fourteen unpatented mining claims owned by Sultan Basin Mining Co., a corporation of Sultan, Wash. Copy of lease is attached hereto. This property formerly known as the Iowa mine, and North Coast Mining Co.

(a) No shafts.
(b) 757 feet of drifts and crosscuts.
(c) Same.
(d) 80 feet of raise for purpose of extracting ore.

The mine is not flooded and no pumping required.

3. (a) Nearest rail shipping point is Sultan, Wash. 26 miles from mine, but could probably be more economically shipped direct to smelter at Tacoma, Wash. by truck, a distance of about 126 miles.
(b) Sultan Basin Mining District.

(c) Township 29 N., section 27, range 10 EWM.

(d) Snohomish County, Washington.

4. (a) Not in operation.
(b) Lessees.

5. Some production during years 1915 and 1937. Mine could begin production within one year.

6. The applicant, Robert T. Curtiss, has six years of underground production experience, and forty years engaged in mining profession. His partner, John C. Rogers, is a heavy equipment machinist and electrical technician for seventeen years.

7. (a) The applicant's father, Frank Curtiss, and others formed the Iowa Mining Co. in 1914 and started exploration work. In 1915 they produced and shipped to the Tacoma Smelter 104 tons of ore with an average grade of 20% copper, but complete lack of transportation prohibited further shipments. From 1915 to 1930 development was carried on as normal assessment work, consisting of some two hundred fifty feet of underground development, most of which is crosscuts, the bulk of the work being applied to roads and transportation. In 1930 the Sultan Basin Mining Co., a corporation, was formed, who took over ownership of the claims and development work started consisting of severl hundred feet of drifts and crosscuts, also numerous open cuts were made at various points on the claims which are shown on the attached maps

MF 100 Robert T. Curtiss
RFD #1, Box 156, Monroe, Wash.

During the time from 1930 to 1937 96 tons of ore was shipped to the Tacoma Smelter as per copies of returns attached. In 1937 the work was suspended by reason of the low price of copper and the high cost of transportation. A mine to market road was completed to the property in 1949 and transportation is no longer a problem.

Age retirement and death of members of the Sulan Basin Mining Co., of which the applicant is a member, made necessary leasing of the property to the applicant and partner. Lease was secured in 1950, after which additional equipment was placed on the ground, one hundred feet of crosscut being extended, ground cleared for buildings, etc.

(b) The Sunset Mine with sixteen years of continuous operation and production of some 150 tons per day being milled and shipped. The Florence-Rae Mine, adjoining our property has produced some 600 tons of 15% to 17% copper.

(c) No engineering reports available.

8. (a) Robert T. Curtiss, RFD #1, Box 156, Monroe, Wash.

John C. Rogers, Box 182 Monroe, Wash.

(b) Partnership.

(c) None.

(d) Robert T. Curtiss $12,000.00

John C. Rogers $14,000.00

(e), (f), (g) None

(h) None

9. None

10. No production, 1948, 1949 or 1950.
11. No.
12. No reserves developed.

13. 26 miles of good gravelled road to nearest rail shipping point 126 miles from ~~in~~ mine to Tacoma Smelter by truck.

14. Water supply taken from North Fork of Sultan,River.

15. 100 h.p. Buda gas driven engine used to operate compressor.

16. Not operating
17. One small building in need of repair.
100 h.p. Buda Gas engine, 285 cu.ft. Ingersol-Rand 2 stage compressor mine rail, pipeing, muck cars, small tools, tram line and fistures for 1200 ft. tram system.

18. None.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

Rogers & Curtiss
(Name of company)

By Robert T Curtiss
(Signature of authorized official)

March 1, 1952
(Date)

Partner.
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

LEASE AND OPTION TO PURCHASE

This Agreement is by and between SULTAN BASIN MINING COMPANY, A Washington corporation, hereinafter designated as Lessor, and Robert Curtiss and John C. Rogers, hereinafter designated as the Lessees.

WITNESSETH: In consideration of Ten ($10.00) Dollars and other valuable consideration the lessor does hereby grant to the lessees, their associates, successor and heirs, the exclusive right and option, for a period beginning on the 5th day of April, 1950, and extending until the first day of April, 1960, to purchase all right, title and interest of said lessor in the fullowing described unpatented mining claims situated in the Sultan Basin Mining Area of Snohomish County, State of Washington, to-wit:

Mint, Mint #1, Mint #2, Mint #3, Lonestar #1, Lonestar #2, Lonestar #3, Calumet, Calumet Fraction, Calumet Extension, Canyon, Canyon Extension, Polar and Silver King; located in sec 27 TWP 29 R 10 EWM

TOGETHER with all equipment now located on said property.

The purchase price for all the foregoing property and the appurtenances unto it belonging, shall be Fifty Thousand ($50,000.00) Dollars.

During the life of this option the lessees, or their assignees, shall have the exclusive right to take immediate possession of the foregoing described property and continue in possession during the term of this lease and option and shall have exclusive right to maine and extract minerals from said property, providing the following terms of the lease are complied with; to-wit:

1. The assessment work of Fourteen ($1,400.00) Hundred Dollars per year on the fourteen claims included in the property and the assessment work of One Hundred ($100.00) Dollars per year on any contiguous claims that may be located by the lessees or their associates during the life of this lease shall be performed each year and proof of labor shall be files by the lessees on or before June 1 of ~~yx~~ each year, and satisfactory evidence of such filing shall be furnished to the lessor at Sultan, Washington.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

2. The lessees shall pay to the lessor ten percent (10%) of the net smelter returns from any ores shipped from the property during the life of this lease and option.

3. Such smelter returns, if any, shall be credited by the lessor upon the sales price.

4. Title to the personal property and equipment located on the property shall remain in the lessor until Ten Thousand ($10,000.00) Dollars has been paid on the purchase price, at which time the lessor agrees to convey, by gill of sale, such equipment to the lessees.

5. The lessee shall file on contiguous or adjacent property sufficient land for a mill site and shall assign such rights to such mill site to the lessor for the term of this lease and option.

6. The lessees shall maintain this mining operation in a state of continuous operation consistant with weather and prevailing mining conditions in the Sultan Basin Mining area.

7. The lessees shall not lease the property herein described, or any part thereof, without the written consent of the lessor.

8. The lessor shall have right of inspection and examination of the operation and development of the property at all times. The lessees agree to keep safely and furnish copies of all records of work done, drill cores, copies of assays, and records of surveys.

9. During the life of this option, the purchaser shall pay all personal property taxes, all bills and expenses incurred by it, or him, promptly, and by such prompt payment shall prevent the filing of any and all liens of mechanics, miners and materialmen, and any and all other obligations which may become a lien or charge against said property, including the payment of Industrial Insurance, Social Security, Occupational Tax, and all like charges. For these purposes, the lessor shall be afforded an opportunity to examine the books of the lessees at reasonable times and places.

10. The lessees shall comply with all the rules and regulations, prescribed by the State of Washington or the United States, for the safety of employees on the property, and does assume all responsibility in case of accident to employees or persons in or about said property and does agree to indemnify and save harmless the lessor from all claims which may be asserted by persons or property injured in or about the premises.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

11. The lessees agree to carry on its development, examination and inspection of the property in a workmanlike manner, with due regard to the development and preservation of the mining premises as a workable mining property.

12. The lessees shall save the lessor harmless from any liability for damages or liens of every kind, nature and description.

It is further agreed between the parties that any violation of any covenant or condition herein contained in this lease and option shall entitle the lessor to declare a cancellation of this lease and option by ten days notice in writing to the lessees and thereupon all rights of the lessees shall terminate and be forfeited. In case of breach or violation of any covenant or condition in this agreement the lessor shall retain as liquidated damages all sums of money paid upon the purchase price together with all machinery, equipment, tools and improvements placed on the property by the lessees during their operations under this lease and option. A waiver by the lessor of any breach or violation of any covenant or condition shall not constitute a waiver of its right of concellation for any other breach or violation of a covenant or condition.

If the lessees exercise their option and complete the payment of the purchase price the lessor shall convey by proper conveyances all its right, title and interest in and to said protpery. If the lessees fail to exercise their option, at the expiration of such lease they shall surrender the property peaceably within forty-eight hours after the expiration of the lease.

In case suit is instituted by the lessor to enforce cancellation of the lease and option, or to recover possession of the premises, the lessees shall pay, in addition to costs, a reasonable attorney fee.

IN WITNESS WHEREOF, the lessor has hereunto set its hand and corporated seal by its President and Secretary, duly authorized, and the lessees, for each, and subscribed his name on behalf of himself, his associates and assigns, this 5th day of April, 1950.

SULTAN BASIN MINING CO., a corporation

By Kenneth S. Startup, President

By George Heald, Secretary

Robert T. Curtiss, Lessee

John C. Rogers, Lessee.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

STATE OF WASHINGTON)
) ss
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, K. S. Startup and George Heald, known to me to be the President and Secretary respectively of the Sultan Basin Mining Co., a Washington corporation, who acknowledged to me that they signed and sealed the within and foregoing instrument, for and on behalf of said corporation, as its free and voluntary act and deed, for the uses and purposes therein mentioned; that they were so authorized to do; and that the seal affixed is the seal of said corporation.

WITNESS my hand and official seal this 8th day of April, 1950.

Sophia Jenft,

Notary Public in and for the State of Washington, residing at Sultan.

STATE OF WASHINGTON)
) SS
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, Robert Curtiss and John C. Rogers, known to me to be the individuals described as the lessees in the foregoing instrument who acknowledged to me that they signed the same as their free and voluntary act and deed, for the uses and purposes herein mentioned.

WITNESS my hand and official seal this 8th day of April, 1950.

Sophia Jenft

Notary Public in and for the State of Washington, residing at Sultan.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

LEASE AND OPTION TO PURCHASE

This Agreement is by and between SULTAN BASIN MINING COMPANY, a Washington corporation, hereinafter designated as Lessor, and ROBERT T. CURTISS and JOHN C. ROGERS, hereinafter designated as the Lessees.

WITNESSETH; In consideration of Ten ($10.00) Dollars and other valuable consideration the lessor does hereby grant to the lessees, their associates, successors and heirs, the exclusive right and option, for a period beginning on the 5th day of April, 1950 and extending until the first day of April, 1960, to purchase all right, title and interest of said lessor in the following described unpatented mining claims situated in the Sultan Basin Mining area of Snohomish County, State of Washington, to-wit:

Mint, Mint #1, Mint #2, Mint #3, Lonestar #1, Lonestar #2, Lonestar #3, Calumet, Calumet Fraction, Calumet Extension, Canyon, Canyon Extension, Polar and Silver King; located in sec 27 TWP 29 R 10 EWM

TOGETHER with all equipment now located on said property.

The purchase price for all the foregoing property and the appurtenances unto it belonging, shall be Fifty Thousand ($50,000.00) Dollars.

During the life of this option the lessees, or their assignees shall have the exclusive right to take immediate of the foregoing described property and continue in possession during the term of this lease and option and shall have exclusive right to mine and extract minerals from said proberty, providing the following terms of the lease have been complied with; to-wit:

1. The assessment work of Fourteen ($1,400.00) Hundred Dollars per year on the fourteen claims included in the property and the assessment work of One Hundred ($100.00) Dollars per year on any contiguous claims that may be located by the lessees or their associates during the life of this lease shall be performed each year and proof of labor shall be filed by the lessees on or before June 1 of each year, and satisfactory evidence of such filing shall be ufrnished to the lessor at Sultan, Washington.

2. The lessees shall pay to the lessor ten percent (10%) of the net smelter returns from any ores shipped from the property during the life of this lease and option.

3. Such smelter returns, if any, shall be credited by the lessor upon the sales price.

4. Title to the personal property and equipment located on the property shall remain in the lessor until Ten Thousand ($10,000.00) Dollars has been paid on the purchase price, at which time the lessor agrees to convey, by bill of sale, such equipment to the lessees.

5. The lessees shall file on cintiguous or adjacent property sufficient land for a mill site and shall assign such right to such mill site to the lessor for the term of this lease and option.

6. The lessees shall maintain this mining operation in a state of continuous operation consistant with weather and prevailing mining conditions in the Sultan Basin area.

7. The lessees shall not lease the property herein described, or any part thereof, without the written consent of the lessor.

8. The lessor shall have right of inspection and examination of the operation and development of the property at all times. The lessees agree to keep safely and furnish copies of all records of work done, drill cores, copies of assays, and records of surveys.

9. During the life of this option, the purchaser shall pay all personal property taxes, all bills and expenses incurred by it, or him, promptly, and by such prompt payment shall prevent the filing of any and all liens or mechanics, miners and materialmen, and any and all other obligation which may become a lien or charge against said property, including payment of Industrial Insurance, Social Security, Occupational Tax, and all like charges. For these purposes, the lessor shall be afforded an opportunity to examine the books of the lessees at reasonable times and places

10. The lessees shall comply with all the rules and regulations, prescribed by the State of Washington or the United States, for the safety of employees on the property, and does assume all responsibility in case of accident to employees or persons in or about said property and does agree to indemnify and save hermless the lessor from all claims which may be asserted by person or pro erty injured in or about the premises.

11. The lesees agree to carry on its development, examination and inspection of the property in a workmanlike manner, with due regard to the development and preservation of the mining premises as a workable mining property.

12. The lessees shall save the lessor harmless from and liability for damages or liens of every kind, nature and description.

It is further agreed between the parties that any violation of any ~~mt~~ covenant or condition herein contained in this lease and option shall entitle the lessor to declare a cancellation of this lease and option by ten days notice in writing to the lessees and thereupon all rights of the lessees shall terminate and be forfeited. In case of breach or violation of any covenant or condition in this agreement the lessor shall retain as liquidated damages all sums of money paid upon purchase price together with all machinery, equipment, tools and improvements placed on the property by the lessees during their operations under this lease and option. A waiver by the lessor of any breach or violation of any covenant or condition shall not constitute a waiver of its right of concellation for any other breach or vilation of a covenant or condition.

If the lessees exercise their option and complete the payment of the purchase price the lessor shall convey by proper conveyances all its right, title and interst in and to said property. If the lessees fail to exercise their option, at the expiration of such lease they shall surrender the property peaceably within forty-eight hours after the expiration of the lease.

In case suit is instituted by the lessor to enforce cancellation of the lease and option, or to recover possession of the premises, the lessees shall pay, in addition to costs, a reasonable attorney fee.

IN WITNESS WHEREOF, the lessor has hereunto set its hand and corporate seal by its President and Secretary, duly authorized, and the lessees, for each, subscribed his name on behalf of himself, his associates and assigns, this 5th day of April, 1950.

SULTAN BASIN MINING CO., a corporation

By Kenneth S. Startup, President

By George Heald, Secretary

Robert T. Curtiss, Lessee

John C. Rogers, Lessee.

STATE OF WASHINGTON)
(ss
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, K. S. Startup and George Heald, known to me to be the President and Secretary respectively of the Sultan Basin Mining Co., a Washington corporation, who acknowledged to me that they signed and sealed the within and foregoing instrument, for and on behalf of said corporation, as its free and voluntary act and deed, for the uses and purposes therein mentioned; that they were so authorized to do; and that the seal affixed is the seal of said corporation.

WITNESS my hand and official seal this 8th day of April, 1950.

Sophia Jenft
Notary Public in and for the
State of Washington, residing
at Sultan,

STATE OF WASHINGTON)
(ss
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, Robert Curtiss and John C. Rogers, known to me to be the individuals described as the lessees in the foregoing instrument who acknowledged to me that they signed the same as their free and voluntary act and deed, for the uses and purposes herein mentioned.

WITNESS my hand and offical seal this 8th day of April, 1950.

Sophia Jenft
Notary Public in and for the
State of Washington, residing
at Sultan.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMEA-2434
Metal or Mineral
Date Received 3-17-52
Amount $
Participation (Government %)

Robert T. Curtiss
[illegible] 1, Box 156,
Yakima, Washington

Name and address of applicant

Date March 1, 1952.

If you have already filed MF-100, give date filed ....., type of assistance requested ~~development~~ exploration,

DMA Docket Number (if available) .....

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*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*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

RECEIVED
MAR 17 1952

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

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.

By Robert T. Curtis
(Signature of authorized official)

(Name of company)

(Date)

(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.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

MF 103

Robert T. Curtiss,
RFD #1, Box 156, Monroe, Wash.

1. (a) Calumet Lode Mining Claim, unpatented, located in section 27, township 29 N., range 10 EWM, Sultan Basin Mining District, Snohomish County, Washington, shown on map attached.

(b) Owned by Sultan Basin Mining Co., a corporation, Sultan, Washington, and held by applicant under lease and option to purchase as per copy attached hereto.

(c) Same as stated above.

2. (a) Copper, Gold, Silver, Zinc.

(b) Shear zone cutting peridotite and some sediments and contacting with a granodiorite dike some 200 ft. in width on north wall. Geology shown on attached maps as well as assays in existing surface cuts.

3. (a) As shown on attached map, the present surface work has indicated commercial ore over lengths of several hundred feet and widths up to twenty feet as exposed in open cuts. Only one cut has been extended to full width of mineralization.
It is, therefore, proposed to extend to full width of vein and to deepen present cuts, and place new open cuts as shown on map, also to cary additional open cuts westward to determine the full length of the mineralization and also to determine the continuity of mineralization and secure more accurate assays in preparation for more extensive development programs by diamond drilling or underground exploration.

(b) Project could be started two weeks after aid is granted and would require five months to complete.

4. Maps attached.
5. None

6. Tents for living quarters and camp equipment $105.00

7. (a) None
(b) Purchase of hand steel and hammers 50.00
" Shovels and picks 20.00

8. Labor for 10 new open cuts, 3 hand miners, 200 man days @ $17.00 3400.00
Labor cleaning, lengthening and deepening 12 old cuts, 3 hand miners, 120 man days @ 17.00 2040.00
Labor traning and moving supplies to point of work, 3 men 7 days, 21 man days @ 17.00 357.00

9.

Powder	20 boxes	240.00	
Fuse	2000 ft.	30.00	
Caps	4 boxes	15.00	
Camp stoves and equipment		100.00	385.00
Assaying			250.00
Repair of existing tram 3100 ft.-			
Tram carriage repair		25.00	
3000 ft. 1/2" or 5/8" 1st grade manilla rope		75.00	
Labor to install and repair, 2 men 14 days, 28 man days 17.00		476.00	476.00
Total cost of project.....			7586.00

10. (a) 50% of cost.
(b) Yes.

11. It will be necessary to start work not later than July 1st as snow conditions would prevent work during winter months. Elevation at working site 4900 ft.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2434

Date received 3-17-52

[illegible]

Name and address of applicant

Date [illegible] 2, 1952

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☒ Lessee.
   - ☐ Contractor.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address	Official Title (If officer is also director indicate by "D")	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year	Estimated Net Worth Outside of Interest in Applicant	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common	Preferred	Amount	Net Cash Surrender Value After Loans
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(*a*) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

MF 100 Robert T. Curtiss,
RFD #1, Box 156, Monroe, Wash.

1. (a) The products which have been produced and shipped to Tacoma Smelter at Tacoma, Washington are Copper, Gold and Silver

(b) Smelter by-products - Sulphur.

2. Rogers & Curtiss, lessees of fourteen unpatented mining claims owned by Sultan Basin Mining Co., a corporation of Sultan, Wash. Copy of lease is attached hereto. This property formerly known as the Iowa mine, and North Coast Mining Co.

(a) No shafts.
(b) 757 feet of drifts and crosscuts.
(c) Same.
(d) 80 feet of raise for purpose of extracting ore.

The mine is not flooded and no pumping required.

3. (a) Nearest rail shipping point is Sultan, Wash. 26 miles from mine, but could probably be more economically shipped direct to smelter at Tacoma, Wash. by truck, a distance of about 126 miles.
(b) Sultan Basin Mining District.

(c) Township 29 N., section 27, range 10 EWM.

(d) Snohomish County, Washington.

4. (a) Not in operation.
(b) Lessees.

5. Some production during years 1915 and 1937. Mine could begin production within one year.

6. The applicant, Robert T. Curtiss, has six years of underground production experience, and forty years engaged in mining profession. His partner, John C. Rogers, is a heavy equipment machinist and electrical technician for seventeen years.

7. (a) The applicant's father, Frank Curtiss, and others formed the Iowa Mining Co. in 1914 and started exploration work. In 1915 they produced and shipped to the Tacoma Smelter 104 tons of ore with an average grade of 20% copper, but complete lack of transportation prohibited further shipments. From 1915 to 1930 development was carried on as normal assessment work, consisting of some two hundred fifty feet of underground development, most of which is crosscuts, the bulk of the work being applied to roads and transportation. In 1930 the Sultan Basin Mining Co., a corporation, was formed, who took over ownership of the claims and development work started consisting of several hundred feet of drifts and crosscuts, also numerous open cuts were made at various points on the claims which are shown on the attached maps

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

Robert T. Curtiss
(Name of company)

By Robert T. Curtiss
(Signature of authorized official)

March 1, 1952
(Date)

Partner.
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

LEASE AND OPTION TO PURCHASE

This Agreement is by and between SULTAN BASIN MINING COMPANY, a Washington corporation, hereinafter designated as Lessor, and ROBERT T. CURTISS and JOHN C. ROGERS, hereinafter designated as the Lessees.

WITNESSETH; In consideration of Ten ($10.00) Dollars and other valuable consideration the lessor does hereby grant to the lessees, their associates, successors and heirs, the exclusive right and option, for a period beginning on the 5th day of April, 1950 and extending until the first day of April, 1960, to purchase all right, title and interest of said lessor in the following described unpatented mining claims situated in the Sultan Basin Mining area of Snohomish County, State of Washington, to-wit:

Mint, Mint #1, Mint #2, Mint #3, Lonestar #1, Lonestar #2, Lonestar #3, Calumet, Calumet Fraction, Calumet Extension, Canyon, Canyon Extension, Polar and Silver King; located in sec 27 TWP 29 R 10 EWM

TOGETHER with all equipment now located on said property.

The purchase price for all the foregoing property and the appurtenances unto it belonging, shall be Fifty Thousand ($50,000.00) Dollars.

During the life of this option the lessees, or their assignees shall have the exclusive right to take immediate of the foregoing described property and continue in possession during the term of this lease and option and shall have exclusive right to mine and extract minerals from said proberty, providing the following terms of the lease have been complied with; to-wit:

1. The assessment work of Fourteen ($1,400.00) Hundred Dollars per year on the fourteen claims included in the property and the assessment work of One Hundred ($100.00) Dollars per year on any contiguous claims that may be located by the lessees or their associates during the life of this lease shall be performed each year and proof of labor shall be filed by the lessees on or before June 1 of each year, and satisfactory evidence of such filing shall be ufrnished to the lessor at Sultan, Washington.

2. The lessees shall pay to the lessor ten percent (10%) of the net smelter returns from any ores shipped from the property during the life of this lease and option.

3. Such smelter returns, if any, shall be credited by the lessor upon the sales price.

4. Title to the personal property and equipment located on the property shall remain in the lessor until Ten Thousand ($10,000.00) Dollars has been paid on the purchase price, at which time the lessor agrees to convey, by bill of sale, such equipment to the lessees.

5. The lessees shall file on cintiguous or adjacent property sufficient land for a mill site and shall assign such right to such mill site to the lessor for the term of this lease and option.

6. The lessees shall maintain this mining operation in a state of continuous operation consistant with weather and prevailing mining conditions in the Sultan Basin area.

7. The lessees shall not lease the property herein described, or any part thereof, without the written consent of the lessor.

8. The lessor shall have right of inspection and examination of the operation and development of the property at all times. The lessees agree to keep safely and furnish copies of all records of work done, drill cores, copies of assays, and records of surveys.

9. During the life of this option, the purchaser shall pay all personal property taxes, all bills and expenses incurred by it, or him, promptly, and by such prompt payment shall prevent the filing of any and all liens or mechanics, miners and materialmen, and any and all other obligation which may become a lien or charge against said property, including payment of Industrial Insurance, Social Security, Occupational Tax, and all like charges. For these purposes, the lessor shall be afforded an opportunity to examine the books of the lessees at reasonable times and places

10. The lessees shall comply with all the rules and regulations, prescribed by the State of Washington or the United States, for the safety of employees on the property, and does assume all responsibility in case of accident to employees or persons in or about said property and does agree to indemnify and save harmless the lessor from all claims which may be asserted by person or property injured in or about the premises.

11. The lessees agree to carry on its development, examination and inspection of the property in a workmanlike manner, with due regard to the development and preservation of the mining premises as a workable mining property.

12. The lessees shall save the lessor harmless from and liability for damages or liens of every kind, nature and description.

It is furth r agreed between the parties that any violation of any ~~mf~~ covenant or condition herein contained in this lease and option shall entitle the lessor to declare a cancellation of this lease and option by ten days notice in writing to the lessees and thereupon all rights of the lessees shall terminate and be forfeited. In case of breach or violation of any covenant or condition in this agreement the lessor shall retain as liquidated damages all sums of money paid upon purchase price together with all machinery, equipment, tools and improvements placed on the property by the lessees during their operations under this lease and option. A waiver by the lessor of any breach or violatibn of any covenant or condition shall not constitute a waiver of its right of concellation for any other breach or vilation of a covenant or condition.

If the lessees exercise their option and complete the payment of the purchase price the lessor shall convey by proper conveyances all its right, title and interst in and to said property. If the lessees fail to exercise their option, at the ex iration of such lease they shall surrender the property peaceably within forty-eight hours after the expiration of the lease.

In case suit is instituted by the lessor to enforce cancellation of the lease and option, or to recover possession of the premises, the lessees shall pay, in addition to costs, a reasonable attorney fee.

IN WITNESS WHEREOF, the lessor has hereunto set its hand and corporate seal by its President and Secretary, duly authorized, and the lessees, for each, subscribed his name on behalf of himself, his associates and assigns, this 5th day of April, 1950.

SULTAN BASIN MINING CO., a corporation

By Kenneth S. Startup, President

By George Heald, Secretary

Robert T. Curtiss, Lessee

John C. Rogers, Lessee.

STATE OF WASHINGTON)
(ss
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, K. S. Startup and George Heald, known to me to be the President and Secretary respectively of the Sultan Basin Mining Co., a Washington corporation, who acknowledged to me that they signed and sealed the within and foregoing instrument, for and on behalf of said corporation, as its free and voluntary act and deed, for the uses and purposes therein mentioned; that they were so authorized to do; and that the seal affixed is the seal of said corporation.

WITNESS my hand and official seal this 8th day of April, 1950.

Sophia Jenft
Notary Public in and for the
State of Washington, residing
at Sultan,

STATE OF WASHINGTON)
(ss
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, Robert Curtiss and John C. Rogers, known to me to be the individuals described as the lessees in the foregoing instrument who acknowledged to me that they signed the same as their free and vohuntary act and deed, for the uses and purposes herein mentioned.

WITNESS my hand and offical seal this 8th day of April, 1950.

Sophia Jenft
Notary Public in and for the
State of Washington, residing
at Sultan.

¢ LEASE AND OPTION TO PURCHASE

This agreement is by and between SULTAN BASIN MINING COMPANY, A Washington corporation, hereinafter designated as Lessor, and ROBERT CURTISS and JOHN C. ROGERS, hereinafter designated as the Lessees.

WITNESSETH: In consideration of Ten ($10.00) Dollars and other valuable consideration the lessor does hereby grant to the lessees, their associated, successors and heirs, the exclusive right and option, for a period beginning on the 5th day of April, 1950, and extending until the first day of April, 1960, to purchase all right, title and interest of said lessor in the following described unpatented mining claims situated in the Sultan Basin Mining area of Snohomish County, State of Washington, to-wit:

Mint, Mint #1, Mint #2, Mint #3, Lonestar #1, Lonestar #2, Lonestar #3, Calumet, Calumet Fraction, Calumet Extension, Canyon, Canyon Extension, Polar and Silver King; located in sec 27 RWP 29 R 10 EWM

TOGETHER with all equipment now located on said property

The purchase price for all the foregoing property and the appurtenances unto it belonging, shall be Fifty Thousand ($50,000.00) Dollars.

During the life of this option the lessees, or their assignees, shall have the exclusive right to take immediate possession of the foregoing described property and continue in possession during the term of this lease and option and shall have exclusive right to mine and extract minerals from said property, providing the following terms of the lease are complied with, to-wit:

1. The assessment work of Fourteen ($1,400.00) Hundred Dollars per year on the fourteen claims included in the property and the assessment work of One Hundred ($100.00) Dollars per year on any contiguous claims that may be located by the lessees or their associates during the life of this lease shall be performed each year and proof of labor shall be filed by the lessees on or before June 1 of each year, and satisfactory evidence of such filing shall be furnished to the lessor at Sultan, Washington.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

2. The lessees shall pay to the lessor ten percent (10%) of the net smelter returns from any of the ores shipped from the property during the life of this lease and option.

3. Such smelter returns, if any, shall be credited by the lessor upon the sales price.

4. Title to the personal property and equipment located on the property shall remain in the lessor until Ten Thousand ($10,000.00) Dollars has been paid on the purchase price, at which time the lessor agrees to convey, by fill of sale, such equipment to the lessees.

5. The lessees shall file on contiguous or adjacent property sufficient land for a mill site and shall assign such right to such mill site to the lessor for the term of this lease and option.

6. The lessees shall maintain this mining operation in a state of continuous operation consistant with weather and prevailing mining conditions in the Sultan Basin Mining area.

7. The lessees shall not lease the property herein described, of any part thereof, without the written consent of the lessor.

8. The lessor shall have right of inspection and examination of the operation and development of the property at all times. The lessees agree to keep safely and furnish copies of all records of work done, drill cores, copies of assays, and records of surveys.

9. During the life of this option, the purchaser shall pay all personal property taxes, all bills and expenses indurred by it, or him, promptly, and by such prompt payment shall prevent the filing of any and all liens of mechanics, miners and materialmen, and any and all other obligations which may become a lien or charge against said property, including the payment of Industrial Insurance, Social Security, Occupational Tax, and all like charges. For these purposes, the lessor shall be afforded and opportunity to examine the books of the lessees at reasonable times and places.

10. The lessees shall comply with all the rules and regulations, prescribed by the State of Washington or the United States, for the safety of employees on the property, and does assume all responsibility in the case of accident to employees or persons in or about said property and does agree to indemnify and save harmless the lessor from all claims which may be asserted by persons orproperty injured in or about the premises.

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SEATTLE, 5

11. The lessees agree to carry on its development, examination and inspection of the property in a workmanlike manner, with due regard to the development and preservation of the mining premises as a workable mining property.

12. The lessees shall save the lessor harmless from any liability for damages or liens of every kind, nature and description.

It is further agreed between the parties that any violation of any covenant or condition herein contained in this lease and option shall entitle the lessor to declare a cancellation of this lease and option by ten days notice in writing to the lessees and thereupon all rights of the lessees shall terminate and be forfeited. In case of breach or violation of any covenant or condition in this agreement the lessor shall retain as liquidated damages all sums of money paid upon the purchase price together with all machinery, equipment, tools and improvements placed on the property by the lessees during their operations under this lease and option. A Waiver by the lessor of any breach or violation of any covenant or condition shall not constitute a waiver of its right of cancellation for any other breach or ciolation of a covenant or condition.

If the lessees exercise their option and complete the payment of the purchase price the lessor shall convey by proper conveyances all its right, title and interest in and to said property. If the lessees fail to exercise their option, a the expiration of such lease they shall surrender the property peaseably within forty-eight hours after the expiration of the Lease.

In case suit is instituted by the lessor to enforce cancellation of the lease and option, or to recover possession of the premises, the lessees shall pay, in addition to costs, a reasonable attorney fee.

IN WITNESS WHEREOF, the lessor has hereunto set its hand and corporate seal by its President and Secretary, duly authorized, and the lessees, for each, subscribed his name on behalf of himself, his associates and assigns, this 5th dya of April, 1950.

SULTAN BASING MINING CO., A CORPORATION

By Kenneth S. Startup, President

By George Heald, Secretary

By Robert T. Curtiss, Lessee

By John C. Rogers, Lessee.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

STATE OF WASHINGTON)
) ss
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, K. S. Startup and George Heald, known to me to be the President and Secretary respectively of the Sultan Basnin Mining Co., a Washington corporation, who acknowledged to me that they signed and seald the within foregoing instrument, for and on behalf of said corporation, as its free and voluntary act and deed, for uses and purposes therein mentioned; that they were so authorized to do; and that the seal affised is the seal of said corporation.

WITNESS my hand and official seal this 8th day of April, 1950.

Sophia Jenft

Notary Public in and for the State of Washington, resding at Sultan.

STATE OF WASHINGTON)
) ss
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, Robert Curtiss and John C. Rogers, known to me to be the individuals described as the lessees in the foregoing instrument who acknowledged to me that they signed the same as their free and voluntary act and deed, for the uses and purposes herein mentioned.

WITNESS my hand and official seal this 8th day of April, 1950.

Sophia Jenft

Notary Public in and for the State of Washington, residing at Sultan.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

LEASE AND OPTION TO PURCHASE

This Agreement is by and between SULTAN BASIN MINING COMPANY, A Washington corporation, hereinafter designated as Lessor, and Robert Curtiss and John C. Rogers, hereinafter designated as the Lessees.

WITNESSETH: In consideration of Ten ($10.00) Dollars and other valuable consideration the lessor does hereby grant to the lessees, their associates, successor and heirs, the exclusive right and option, for a period beginning on the 5th day of April, 1950, and extending until the first day of April, 1960, to purchase all right, title and interest of said lessor in the fullowing described unpatented mining claims situated in the Sultan Basin Mining Area of Snohomish County, State of Washington, to-wit:

Mint, Mint #1, Mint #2, Mint #3, Lonestar #1, Lonestar #2, Lonestar #3, Calumet, Calumet Fraction, Calumet Extension, Canyon, Canyon Extension, Polar and Silver King; located in sec 27 TWP 29 R 10 EWM

TOGETHER with all equipment now located on said property.

The purchase price for all the foregoing property and the appurtenances unto it belonging, shall be Fifty Thousand ($50,000.00) Dollars.

During the life of this option the lessees, or their assignees, shall have the exclusive right to take immediate possession of the foregoing described property and continue in possession during the term of this lease and option and shall have exclusive right to maine and extract minerals from said property, providing the following terms of the lease are complied with; to-wit:

1. The assessment work of Fourteen ($1,400.00) Hundred Dollars per year on the fourteen claims included in the property and the assessment work of One Hundred ($100.00) Dollars per year on any contiguous claims that may be located by the lessees or their associates during the life of this lease shall be performed each year and proof of labor shall be files by the lessees on or before June 1 of ~~yr~~ each year, and satisfactory evidence of such filing shall be furnished to the lessor at Sultan, Washington.

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ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

2. The lessees shall pay to the lessor ten percent (10%) of the net smelter returns from any ores shipped from the property during the life of this lease and option.

3. Such smelter returns, if any, shall be credited by the lessor upon the sales price.

4. Title to the personal property and equipment located on the property shall remain in the lessor until Ten Thousand ($10,000.00) Dollars has been paid on the purchase price, at which time the lessor agrees to convey, by gill of sale, such equipment to the lessees.

5. The lessee shall file on contiguous or adjacent property sufficient land for a mill site and shall assign such rights to such mill site to the lessor for the term of this lease and option.

6. The lessees shall maintain this mining operation in a state of continuous operation consistant with weather and prevailing mining conditions in the Sultan Basin Mining area.

7. The lessees shall not lease the property herein described, or any part thereof, without the written consent of the lessor.

8. The lessor shall have right of inspection and examination of the operation and develapment of the property at all times. The lessees agree to keep safely and furnish copies of all records of work done, drill cores, copies of assays, and records of surveys.

9. During the life of this option, the purchaser shall pay all personal property taxes, all bills and expenses incurred by it, or him, promptly, and by such prompt payment shall prevent the filing of any and all liens of mechanics, miners and materialmen, and any and all other obligations which may become a lien or charge against said property, including the payment of Industrial Insurance, Social Security, Occupational Tax, and all like charges. For these purposes, the lessor shall be afforded an opportunity to examine the books of the lessees at reasonable times and places.

10. The lessees shall comply with all the rules and regulations, prescribed by the State of Washington or the United States, for the safety of employees on the property, and does assume all responsibility in case of accident to employees or persons in or about said property and does agree to indemnify and save harmless the lessor from all claims which may be asserted by persons or property injured in or about the premises.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

11. The lessees agree to carry on its development, examination and inspection of the property in a workmanlike manner, with due regard to the development and preservation of the mining premises as a workable mining property.

12. The lessees shall save the lessor harmless from any liability for damages or liens of every kind, nature and description.

It is further agreed between the parties that any violation of any covenant or condition herein contained in this lease and option shall entitle the lessor to declare a cancellation of this lease and option by ten days notice in writing to the lessees and thereupon all rights of the lessees shall terminate and be forfeited. In case of breach or violation of any covenant or condition in this agreement the lessor shall retain as liquidated damages all sums of money paid upon the purchase price together with all machinery, equipment, tools and improvements placed on the property by the lessees during their operations under this lease and option. A waiver by the lessor of any breach or violation of any covenant or condition shall not constitute a waiver of its right of concellation for any other breach or violation of a covenant or condition.

If the lessees exercise their option and complete the payment of the purchase price the lessor shall convey by proper conveyances all its right, title and interest in and to said protpery. If the lessees fail to exercise their option, at the expiration of such lease they shall surrender the property peaceably within forty-eight hours after the expiration of the lease.

In case suit is instituted by the lessor to enforce cancellation of the lease and option, or to recover possession of the premises, the lessees shall pay, in addition to costs, a reasonable attorney fee.

IN WITNESS WHEREOF, the lessor has hereunto set its hand and corporated seal by its President and Secretary, duly authorized, and the lessees, for each, and subscribed his name on behalf of himself, his associates and assigns, this 5th day of April, 1950.

SULTAN BASIN MINING CO., a corporation

By Kenneth S. Startup, President

By George Heald, Secretary

Robert T. Curtiss, Lessee

John C. Rogers, Lessee.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

STATE OF WASHINGTON)
) ss
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, K. S. Startup and George Heald, known to me to be the President and Secretary respectively of the Sultan Basin Mining Co., a Washington corporation, who acknowledged to me that they signed and sealed the within and foregoing instrument, for and on behalf of said corporation, as its free and voluntary act and deed, for the uses and purposes therein mentioned; that they were so authorized to do; and that the seal affixed is the seal of said corporation.

WITNESS my hand and official seal this 8th day of April, 1950

Sophia Jenft,

Notary Public in and for the State of Washington, residing at Sultan.

STATE OF WASHINGTON)
) SS
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, Robert Curtiss and John C. Rogers, known to me to be the individuals described as the lessees in the foregoing instrument who acknowledged to me that they signed the same as their free and voluntary act and deed, for the uses and purposes herein mentioned.

WITNESS my hand and official seal this 8th day of April, 1950.

Sophia Jenft

Notary Public in and for the State of Washington, residing at Sultan.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMEA-2434
Metal or Mineral
Date Received 3-17-52
Amount $
Participation (Government %)

Robert T. Curtiss
RFD #1, Box 156,
Monroe, washington

Name and address of applicant

Date March 1, 1952.

If you have already filed MF-100, give date filed ....., type of assistance requested ~~development~~ exploration,

DMA Docket Number (if available) .....

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*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*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

MAR 17 1952

16—64067-2

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

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.

Rogers & Curtiss
(Name of Applicant)

By Robert T. Curtiss
(Signature of authorized official)

March 1, 1952
(Date)

Partner
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

MF 103

Robert T. Curtiss,
RFD #1, Box 156, Monroe, Wash.

1. (a) Calumet Lode Mining Claim, unpatented, located in section 27, township 29 N., range 10 EWM, Sultan Basin Mining District, Snohomish County, Washington, shwon on map attached.

(b) Owned by Sultan Basin Mining Co., a corporation, Sultan, Washington, and held by applicant under lease and option to purchase as per copy attached hereto.

(c) Same as stated above.

2. (a) Copper, Gold, Silver, Zinc.

(b) Shear zone cutting peridotite and some sediments and contacting with a granodiorite dike some 200 ft. in width on north wall. Geology shown on attached maps as well as assays in existing surface cuts.

3. (a) As shown on attached map, the present surface work has indicated commercial ore over lengths of several hundred feet and widths up to twenty feet as exposed in open cuts. Only one cut has been extended to full width of mineralization.
It is, therefore, proposed to extend to full width of vein and to deepen present cuts, and place new open cuts as shown on map, also to cary additional open cuts westward to determine the full length of the mineralization and also to determine the continuity of mineralization and secure more accurated assays in preparation for more extensive development programs by diamond drilling or underground exploration.

(b) Project could be started two weeks after aid is granted and would require five months to complete.

4. Maps attached.
5. None

6.	Tents for living quarters and camp equipment			$105.00
7. (a)	None			
(b)	Purchase of hand steel and hammers			50.00
	" Shovels and picks			20.00
8.	Labor for 10 new open cuts, 3 hand miners, 200 man days @ $17.00			3400.00
	Labor cleaning, lengthening and deepening 12 old cuts, 3 hand miners, 120 man days @ 17.00			2040.00
	Labor traming and moving supplies to point of work, 3 men 7 days, 21 man days @ 17.00			357.00
9.	Powder 20 boxes	240.00		
	Fuse 2000 ft.	30.00		
	Caps 4 boxes	18.00		
	Camp stoves and equipment	100.00		388.00
	Assaying			250.00
	Repair of existing tram 3160 ft.-			
	Tram cariage repair		25.00	
	3000 ft. 1/2" or 5/8" 1st grade manilla rope		75.00	
	Labor to install and repair, 2 men 14 days, 28 man days @ 17.00		476.00	576.00
	Total cost of project.....			$7186.00

10. (a) 50% of cost.
(b) Yes.

11. It will be necessary to start work not later than May 1st as snow conditions would prevent work during winter months. Elevation at working site 4900 ft.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2434

Date received 3-17-52

Robert T. Curtiss,
RFD #1, Box 156,
Monroe, Wash.

Name and address of applicant

Date March 1, 1952

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.

   DEPARTMENT OF THE INTERIOR
   Defense Minerals Administration
   RECEIVED
   MAR 17 1952
5. Number of years in production .....

   If not in production or operation, estimated date when production will begin .....
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*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.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral [illegible]osit briefly. Accompany the application by a[illegible]vailable report on the geology and ore reserves.

MF 100 Robert T. Curtiss,
RFD #1, Box 156, Monroe, Wash.

1. (a) The products which have been produced and shipped to Tacoma Smelter at Tacoma, Washington are Copper, Gold and Silver

(b) Smelter by-products - Sulphur.

2. Rogers & Curtiss, lessees of fourteen unpatented mining claims owned by Sultan Basin Mining Co., a corporation of Sultan, Wash. Copy of lease is attached hereto. This property formerly known as the Iowa mine, and North Coast Mining Co.

(a) No shafts.
(b) 757 feet of drifts and crosscuts.
(c) Same.
(d) 80 feet of raise for purpose of extracting ore.

The mine is not flooded and no pumping required.

3. (a) Nearest rail shipping point is Sultan, Wash. 26 miles from mine, but could probably be more economically shipped direct to smelter at Tacoma, Wash. by truck, a distance of about 126 miles.
(b) Sultan Basin Mining District.

(c) Township 29 N., section 27, range 10 EWM.

(d) Snohomish County, Washington.

4. (a) Not in operation.
(b) Lessees.

5. Some production during years 1915 and 1937. Mine could begin production within one year.

6. The applicant, Robert T. Curtiss, has six years of underground production experience, and forty years engaged in mining profession. His partner, John C. Rogers, is a heavy equipment machinist and electrical technician for seventeen years.

7. (a) The applicant's father, Frank Curtiss, and others formed the Iowa Mining Co. in 1914 and started exploration work. In 1915 they produced and shipped to the Tacoma Smelter 104 tons of ore with an average grade of 20% copper, but complete lack of transportation prohibited further shipments. From 1915 to 1930 development was carried on as normal assessment work, consisting of some two hundred fifty feet of underground development, most of which is crosscuts, the bulk of the work being applied to roads and transportation. In 1930 the Sultan Basin Mining Co., a corporation, was formed, who took over ownership of the claims and development work started consisting of severl hundred feet of drifts and crosscuts, also numerous open cuts were made at various points on the claims which are shown on the attached maps

MF 100 Robert T. Curtiss
RFD #1, Box 156, Monroe, Wash.

During the time from 1930 to 1937 96 tons of ore was shipped to the Tacoma Smelter as per copies of returns attached. In 1937 the work was suspended by reason of the low price of copper and the high cost of transportation. A mine to market road was completed to the property in 1949 and transportation is no longer a problem.

Age retirement and death of members of the Sulan Basin Mining Co., of which the applicant is a member, made necessary leasing of the property to the applicant and partner. Lease was secured in 1950, after which additional equipment was placed on the ground, one hundred feet of crosscut being extended, ground cleared for buildings, etc.

(b) The Sunset Mine with sixteen years of continuous operation and production of some 150 tons per day being milled and shipped. The Florence-Rae Mine, adjoining our property has produced some 600 tons of 15% to 17% copper.

(c) No engineering reports available.

8. (a) Robert T. Curtiss, RFD #1, Box 156, Monroe, Wash.

John C. Rogers, Box 184 Monroe Wash

(b) Partnership.

(c) None.

(d) Robert T. Curtiss $12,000.00

John C. Rogers $14,000.00

(e), (f), (g) None

(h) None

9. None

10. No production, 1948, 1949 or 1950.
11. No.
12. No reserves developed.

13. 26 miles of good gravelled road to nearest rail shipping point 126 miles from ~~in~~ mine to Tacoma Smelter by truck.

14. Water supply taken from North Fork of Sultan,River.

15. 100 h.p. Buda gas driven engine used to operate compressor.

16. Not operating
17. One small building in need of repair.
100 h.p. Buda Gas engine, 285 cu.ft. Ingersol-Rand 2 stage compressor, mine rail, pipeing, muck cars, small tools, tram line and fistures for 1200 ft. tram system.

18. None.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

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.

Rogers & Curtiss
(Name of company)

By Robert T Curtiss
(Signature of authorized official)

March 1, 1952
(Date)

Partner.
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

LEASE AND OPTION TO PURCHASE

This Agreement is by and between SULTAN BASIN MINING COMPANY, A Washington corporation, hereinafter designated as Lessor, and Robert Curtiss and John C. Rogers, hereinafter designated as the Lessees.

WITNESSETH: In consideration of Ten ($10.00) Dollars and other valuable consideration the lessor does hereby grant to the lessees, their associates, successor and heirs, the exclusive right and option, for a period beginning on the 5th day of April, 1950, and extending until the first day of April, 1960, to purchase all right, title and interest of said lessor in the fullowing described unpatented mining claims situated in the Sultan Basin Mining Area of Snohomish County, State of Washington, to-wit:

Mint, Mint #1, Mint #2, Mint #3, Lonestar #1, Lonestar #2, Lonestar #3, Calumet, Calumet Fraction, Calumet Extension, Canyon, Canyon Extension, Polar and Silver King; located in sec 27 TWP 29 R 10 EWM

TOGETHER with all equipment now located on said property.

The purchase price for all the foregoing property and the appurtenances unto it belonging, shall be Fifty Thousand ($50,000.00) Dollars.

During the life of this option the lessess, or their assignees, shall have the exclusive right to take immediate possession of the foregoing described property and continue in possession during the term of this lease and option and shall have exclusive right to maine and extract minerals from said property, providing the following terms of the lease are complied with; to-wit:

1. The assessment work of Fourteen ($1,400.00) Hundred Dollars per year on the fourteen claims included in the property and the assessment work of One Hundred ($100.00) Dollars per year on any contiguous claims that may be located by the lessees or their associates during the life of this lease shall be performed each year and proof of labor shall be files by the lessees on or before June 1 of each year, and satisfactory evidence of such filing shall be furnished to the lessor at Sultan, Washington.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

2. The lessees shall pay to the lessor ten percent (10%) of the net smelter returns from any ores shipped from the property during the life of this lease and option.

3. Such smelter returns, if any, shall be credited by the lessor upon the sales price.

4. Title to the personal property and equipment located on the property shall remain in the lessor until Ten Thousand ($10,000.00) Dollars has been paid on the purchase price, at which time the lessor agrees to convey, by gill of sale, such equipment to the lessees.

5. The lessee shall file on contiguous or adjacent property sufficient land for a mill site and shall assign such rights to such mill site to the lessor for the term of this lease and option.

6. The lessees shall maintain this mining operation in a state of continuous operation consistant with weather and prevailing mining conditions in the Sultan Basin Mining area.

7. The lessees shall not lease the property herein described, or any part thereof, without the written consent of the lessor.

8. The lessor shall have right of inspection and examination of the operation and develapment of the property at all times. The lessees agree to keep safely and furnish copies of all records of work done, drill cores, copies of assays, and records of surveys.

9. During the life of this option, the purchaser shall pay all personal property taxes, all bills and expenses incurred by it, or him, promptly, and by such prompt payment shall prevent the filing of any and all liens of mechanics, miners and materialmen, and any and all other obligations which may become a lien or charge against said property, including the payment of Industrial Insurance, Social Security, Occupational Tax, and all like charges. For these purposes, the lessor shall be afforded an opportunity to examine the books of the lessees at reasonable times and places.

10. The lessees shall comply with all the rules and regulations, prescribed by the State of Washington or the United States, for the safety of employees on the property, and does assume all responsibility in case of accident to employees or persons in or about said property and does agree to indemnify and save harmless the lessor from all claims which may be asserted by persons or property injured in or about the premises.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

11. The lesees agree to carry on its development, examination and inspection of the property in a workmanlike manner, with due regard to the development and preservation of the mining premises as a workable mining property.

12. The lessees shall save the lessor harmless from any liability for damages or liens of every kind, nature and description.

It is further agreed between the parties that any violation of any covenant or condition herein contained in this lease and option shall entitle the lessor to declare a cancellation of this lease and option by ten days notice in writing to the lessees and thereupon all rights of the lessees shall terminate and be forfeited. In case of breach or violation of any covenant or condition in this agreement the lessor shall retain as liquidated damages all sums of money paid upon the purchase price together with all machinery, equipment, tools and improvements placed on the property by the lessees during their operations under this lease and option. A waiver by the lessor of any breach or violation of any covenant or condition shall not constitute a waiver of its right of concellation for any other breach or violation of a covenant or condition.

If the lessees exercise their option and complete the payment of the purchase price the lessor shall convey by proper conveyances all its right, title and interest in and to said protpery. If the lessees fail to exercise their option, at the expiration of such lease they shall surrender the property peaceably within forty-eight hours after the expiration of the lease.

In case suit is instituted by the lessor to enforce cancellation of the lease and option, or to recover possession of the premises, the lessees shall pay, in addition to custs, a reasonable attorney fee.

IN WITNESS WHEREOF, the lessor has hereunto set its hand and corporated seal by its President and Secretary, duly authorized, and the lessees, for each, and subscribed his name on behalf of himself, his associates and assigns, this 5th day of April, 1950.

SULTAN BASIN MINING CO., a corporation

By Kenneth S. Startup, President

By George Heald, Secretary

Robert T. Curtiss, Lessee

John C. Rogers, Lessee.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

STATE OF WASHINGTON)
) ss
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, K. S. Startup and George Heald, known to me to be the President and Secretary respectively of the Sultan Basin Mining Co., a Washington corporation, who acknowledged to me that they signed and sealed the within and foregoing instrument, for and on behalf of said corporation, as its free and voluntary act and deed, for the uses and purposes therein mentioned; that they were so authorized to do; and that the seal affixed is the seal of said corporation.

WITNESS my hand and official seal this 8th day of April, 1950.

Sophia Jenft,

Notary Public in and for the State of Washington, residing at Sultan.

STATE OF WASHINGTON)
) SS
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, Robert Curtiss and John C. Rogers, known to me to be the individuals described as the lessees in the foregoing instrument who acknowledged to me that they signed the same as their free and voluntary act and deed, for the uses and purposes herein mentioned.

WITNESS my hand and official seal this 8th day of April, 1950.

Sophia Jenft

Notary Publie in and for the State of Washington, residing at Sultan.

McCUNE & YOTHERS
ATTORNEYS
4512 UNIVERSITY WAY
SEATTLE, 5

LEASE AND OPTION TO PURCHASE

This Agreement is by and between SULTAN BASIN MINING COMPANY, a Washington corporation, hereinafter designated as Lessor, and ROBERT T. CURTISS and JOHN C. ROGERS, hereinafter designated as the Lessees.

WITNESSETH; In consideration of Ten ($10.00) Dollars and other valuable consideration the lessor does hereby grant to the lessees, their associates, successors and heirs, the exclusive right and option, for a period beginning on the 5th day of April, 1950 and extending until the first day of April, 1960, to purchase all right, title and interest of said lessor in the following described unpatented mining claims situated in the Sultan Basin Mining area of Snohomish County, State of Washington, to-wit:

Mint, Mint #1, Mint #2, Mint #3, Lonestar #1, Lonestar #2, Lonestar #3, Calumet, Calumet Fraction, Calumet Extension, Canyon, Canyon Extension, Polar and Silver King; located in sec 27 TWP 29 R 10 EWM

TOGETHER with all equipment now located on said property.

The purchase price for all the foregoing property and the appurtenances unto it belonging, shall be Fifty Thousand ($50,000.00) Dollars.

During the life of this option the lessees, or their assignees shall have the exclusive right to take immediate of the foregoing described property and continue in possession during the term of this lease and option and shall have exclusive right to mine and extract minerals from said proberty, providing the following terms of the lease have been complied with; to-wit:

1. The assessment work of Fourteen ($1,400.00) Hundred Dollars per year on the fourteen claims included in the property and the assessment work of One Hundred ($100.00) Dollars per year on any contiguous claims that may be located by the lessees or their associates during the life of this lease shall be performed each year and proof of labor shall be filed by the lessees on or before June 1 of each year, and satisfactory evidence of such filing shall be ufrnished to the lessor at Sultan, Washington.

2. The lessees shall pay to the lessor ten percent (10%) of the net smelter returns from any ores shipped from the property during the life of this lease and option.

3. Such smelter returns, if any, shall be credited by the lessor upon the sales price.

4. Title to the personal property and equipment located on the property shall remain in the lessor until Ten Thousand ($10,000.00) Dollars has been paid on the purchase price, at which time the lessor agrees to convey, by bill of sale, such equipment to the lessees.

5. The lessees shall file on cintiguous or adjacent property sufficient land for a mill site and shall assign such right to such mill site to the lessor for the term of this lease and option.

6. The lessees shall maintain this mining operation in a state of continuous operation consistant with weather and prevailing mining conditions in the Sultan Basin area.

7. The lessees shall not lease the property herein described, or any part thereof, without the written consent of the lessor.

8. The lessor shall have right of inspection and examination of the operation and development of the property at all times. The lessees agree to keep safely and furnish copies of all records of work done, drill cores, copies of assays, and records of surveys.

9. During the life of this option, the purchaser shall pay all personal property taxes, all bills and expenses incurred by it, or him, promptly, and by such prompt payment shall prevent the filing of any and all liens or mechanics, miners and materialmen, and any and all other obligation which may become a lien or charge against said property, including payment of Industrial Insurance, Social Security, Occupational Tax, and all like charges. For these purposes, the lessor shall be afforded an opportunity to examine the books of the lessees at reasonable times and places

10. The lessees shall comply with all the rules and regulations, prescribed by the State of Washington or the United States, for the safety of employees on the property, and does assume all responsibility in case of accident to employees or persons in or about said property and does agree to indemnify and save hermless the lessor from all claims which may be asserted by person or property injured in or about the premises.

11. The lesees agree to carry on its development, examination and inspection of the property in a workmanlike manner, with due regard to the development and preservation of the mining premises as a workable mining property.

12. The lessees shall save the lessor harmless from and liability for damages or liens of every kind, nature and description.

It is further agreed between the parties that any violation of any ~~mf~~ covenant or condition herein contained in this lease and option shall entitle the lessor to declare a cancellation of this lease and option by ten days notice in writing to the lessees and thereupon all rights of the lessees shall terminate and be forfeited. In case of breach or violation of any covenant or condition in this agreement the lessor shall retain as liquidated damages all sums of money paid upon purchase price together with all machinery, equipment, tools and improvements placed on the property by the lessees during their operations under this lease and option. A waiver by the lessor of any breach or violation of any covenant or condition shall not constitute a waiver of its right of concellation for any other breach or vilation of a covenant or condition.

If the lessees exercise their option and complete the payment of the purchase price the lessor shall convey by proper conveyances all its right, title and interst in and to said property. If the lessees fail to exercise their option, at the expiration of such lease they shall surrender the property peaceably within forty-eight hours after the expiration of the lease.

In case suit is instituted by the lessor to enforce cancellation of the lease and option, or to recover possession of the premises, the lessees shall pay, in addition to costs, a reasonable attorney fee.

IN WITNESS WHEREOF, the lessor has hereunto set its hand and corporate seal by its President and Secretary, duly authorized, and the lessees, for each, subscribed his name on behalf of himself, his associates and assigns, this 5th day of April, 1950.

SULTAN BASIN MINING CO., a corporation

By Kenneth S. Startup, President

By George Heald, Secretary

Robert T. Curtiss, Lessee

John C. Rogers, Lessee.

STATE OF WASHINGTON)
(ss
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, K. S. Startup and George Heald, known to me to be the President and Secretary respectively of the Sultan Basin Mining Co., a Washington corporation, who acknowledged to me that they signed and sealed the within and foregoing instrument, for and on behalf of said corporation, as its free and voluntary act and deed, for the uses and purposes therein mentioned; that they were so authorized to do; and that the seal affixed is the seal of said corporation.

WITNESS my hand and official seal this 8th day of April, 1950.

Sophia Jenft
Notary Public in and for the
State of Washington, residing
at Sultan,

STATE OF WASHINGTON)
(ss
County of Snohomish)

Personally appeared before me, the undersigned, a Notary Public, Robert Curtiss and John C. Rogers, known to me to be the individuals described as the lessees in the foregoing instrument who acknowledged to me that they signed the same as their free and voluntary act and deed, for the uses and purposes herein mentioned.

WITNESS my hand and offical seal this 8th day of April, 1950.

Sophia Jenft
Notary Public in and for the
State of Washington, residing
at Sultan.

OFFICIAL BUSINESS

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MR. FRANK E. JOHNSON
Chairman, Operating Committee
Defense Minerals Exploration Administration
Dept. of the Interior
Washington 25, D.C.

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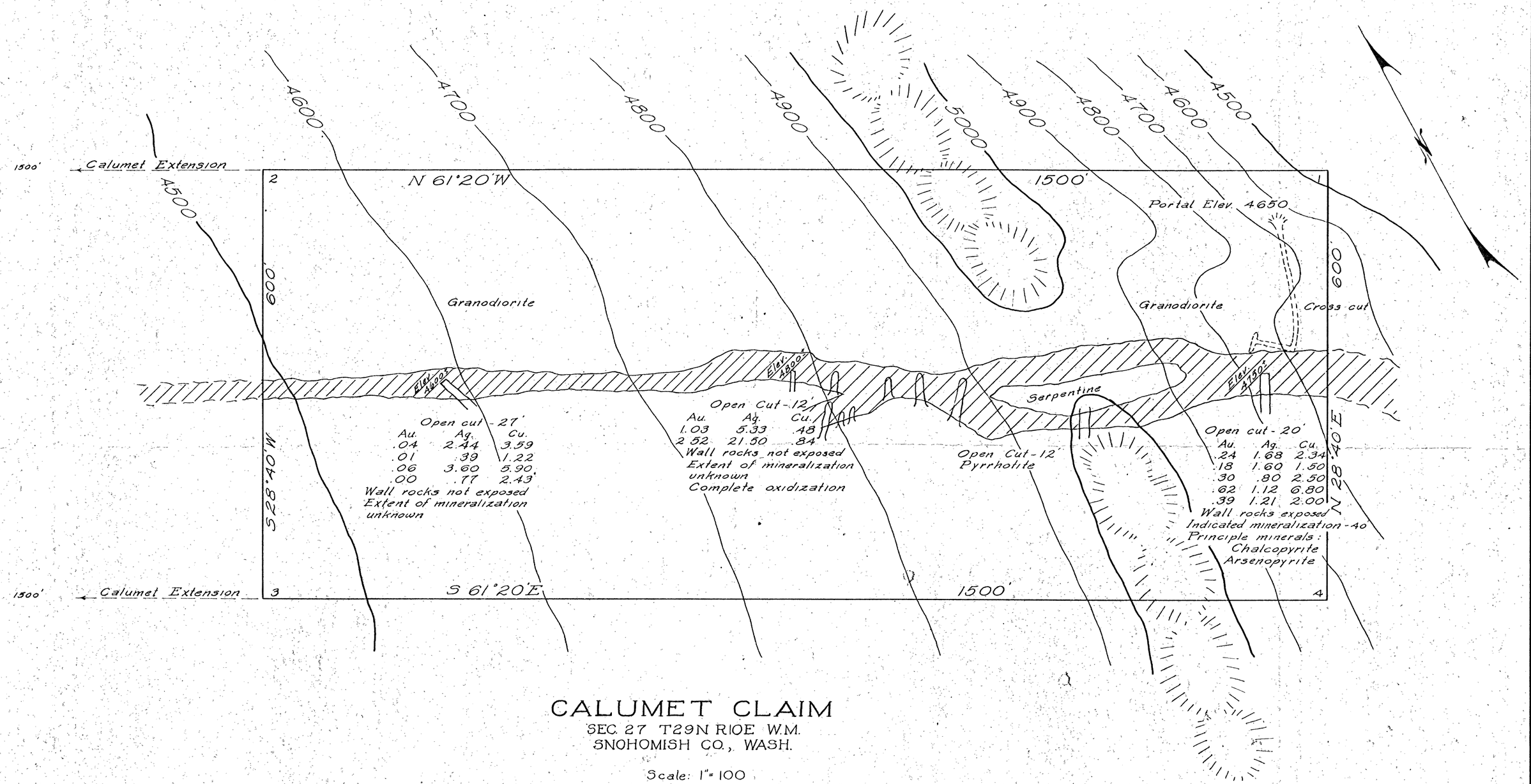


CALUMET CLAIM

SEC. 27 T29N R10E W.M.
SNOHOMISH CO., WASH.

Scale: 1" = 100

100 0 500

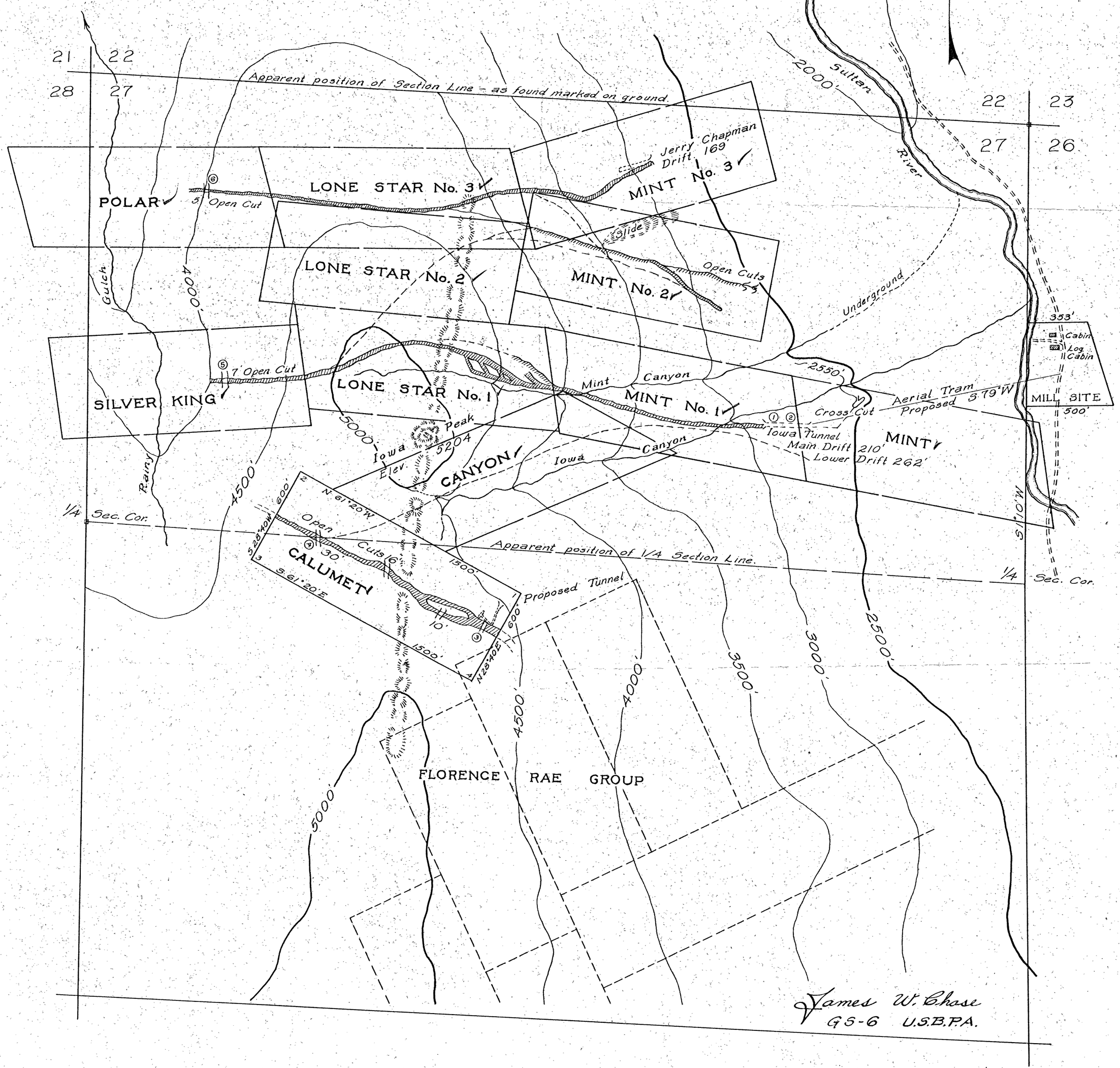
As copied from map drawn by C.E. Phoenix, U.S.M.S.
Corrected and redrawn by: James W. Chase
GS-6 U.S.B.P.A.

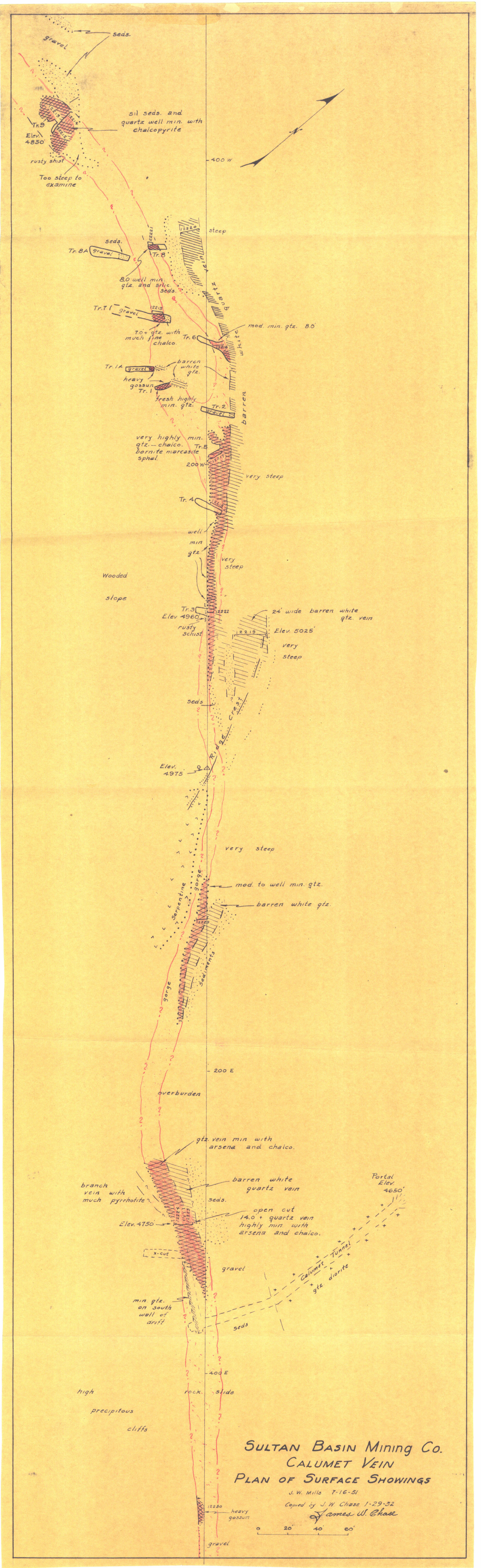
IOWA GROUP

CURTISS & ROGERS

SEC. 27 T29N R10E W.M.
SNOHOMISH, CO., WASH

Scale: 1" = 400'



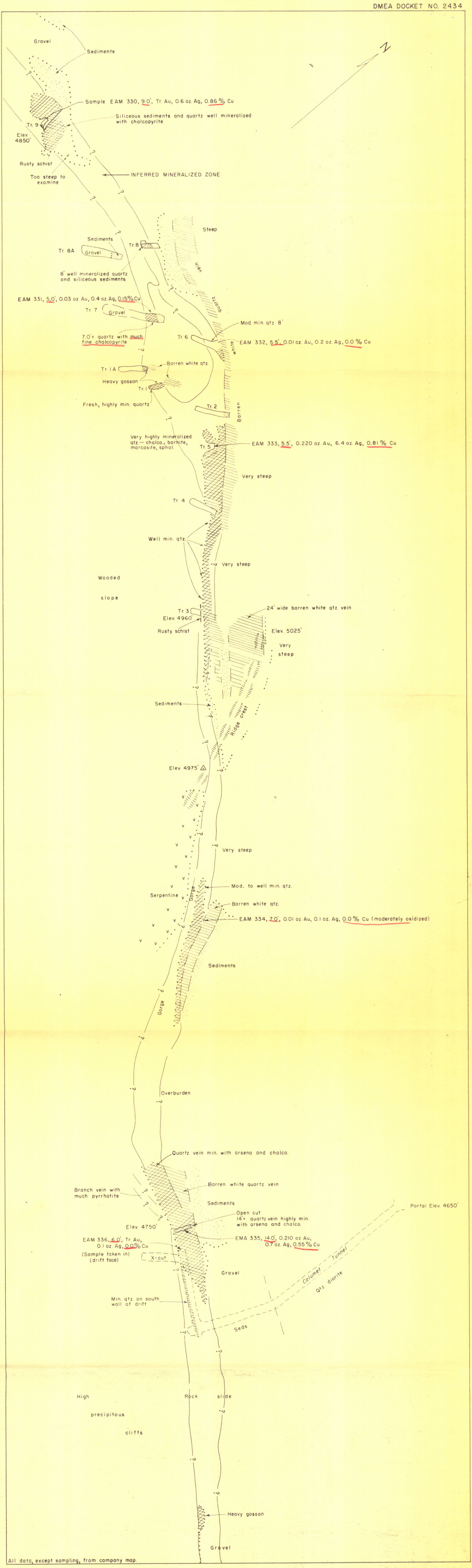


SULTAN BASIN MINING CO.
CALUMET VEIN
PLAN OF SURFACE SHOWINGS

J. W. Mills 7-16-51

Copied by J. W. Chase 1-29-52

James W. Chase



All data, except sampling, from company map.

SURFACE SHOWINGS, CALUMET VEIN, SULTAN BASIN MINING CO.
SNOHOMISH COUNTY, WASHINGTON

0 20 40 60 Feet