IMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

IMEA NO. 4718

✓Application (Denied
(Withdrawn
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
Certificate of Audit (Final)
Interim Audit(s)
Report of Review
Termination Notice or Agreement
Recision Notice
Assignment of Contract
Contract Amendments (latest on top)
Contract with all exhibits and annexes
Owner's Consent to Lien
Subordination Agreement
Leases and assignments of leases
✓Application and attachments
(3) Envelope for maps

Right Side

Project summary
Work completed analysis
All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report (Tab)
Operator's Final Report
(2R) Interim Reports
(2R) Operator's monthly reports and all attachments (latest on top)
✓On-site Exam Report(s) (Tab)
(4) Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order)
Interim Summary Reports by W. O. Engineers

Right Side

Operator's Semi-Annual Report for Certified Project, Field Team Interim Reports, Operator's Monthly Report with transmittal, narrative, maps, and Field Team review.

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

9774

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED APR 8 1957

DATE	INITIALS	CODE
4/8	WSM	400

April 5, 1957

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

Re: New Application (Mercury)
Cascade Mining and Mineral Company
S & S and Cascade claims
Lake County, Oregon

Dear Mr. Selfridge:

Enclosed are three copies of an application for assistance to explore for mercury in the Glass Butte Range, Lake County, Oregon.

This is apparently a new property from which there has been no production and on which we have no information. The application is too poorly prepared to form a basis for any estimate of the merits of the property and the work that the Operator proposes to do is inadequately described. We doubt that correspondence with the applicant would succeed in clearing up these points.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

Enclosures

cc: USBM (2)
Geologist

Revised April 1952

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
APR 3 1957
U. S. G. S.
SPOKANE, WASH.

RECEIVED APR 1957 D.M.E.A.

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

Not to be filled in by applicant

Docket No. 4718
Metal or Mineral mercury
Date Received 4-8-57
Estimated Cost $26,006.25
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Cascade Mining & Mineral Company, P. O. Box 66, Mehama, Oregon. Leonard Cruson- Lyons, Oregon, Fred Mattieu-General Delivery, Mehama, Francis Jungwirth-Stayton, Oregon, Harold Waller-Stayton, Oregon, Ercill Wilson- Mehama, Oregon, Russell Wilson- Lyons, Oregon, A. J. Frank-Stayton, Oregon, Edward Cruson-Salem, Oregon, C. F. Deetz Stayton, Ore

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract 20 claims under option or owned in the Glass Butte Range, Lake County, Oregon

(*b*) State any mine name by which the property is known. S & S Claims & Cascade Claims

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise 10 claims under option and 10 claims owned

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

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

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

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

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

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

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Cinnabar

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within at once days and be completed within 3 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.). Contract

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated March 25, 1957

Cascade Mining & Mineral Company
(Applicant)

By Lenard L. Cruson

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

CApitol 8 9663

P. O. BOX 1046

CHARLTON LABORATORIES, Inc.

2340 S. W. Jefferson Street
PORTLAND 7, OREGON

RECEIVED APR 8 1957 D.M.E.A.

Leonard Cruson
Rt. 1, Box 56
Lyons, Oregon

DATE January 30, 1957

TERMS NET

LABORATORY NO. 49172

P. O. NO.

Test for Mercury on Crude Stream [illegible]

.9 lb. per ton

THIS IS YOUR INVOICE

PLEASE INCLUDE OUR LABORATORY NUMBER WITH REMITTANCE

RECEIVED
APR
D.M.E.A.

CASTO

P. M. CRISMON

ORRIN FISHER

HAROLD E. DULVER

P. O. Box 1708

CRISMON & NICHOLS

ASSAYERS AND CHEMISTS

229-231 SOUTH WEST TEMPLE STREET

REPORT OF ASSAY

SALT LAKE CITY, UTAH ember 10, 1956

Lan... Cruson

WE HAVE ASSAYED YOUR two SAMPLES AND FIND ... TO CONTAIN AS FOLLOWS:

DESCRIPTION	NO.	Per-cent Mercury				
	1	2.64				
	2	0.34				

REMARKS:

CRISMON & NICHOLS

By

CHARGES $ 4.00 Paid

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DATE	INITIALS	CODE

PROPOSED EXPLORATORY WORK

by

CASCADE MINING AND MINERAL CO.

S&S MINING CLAIMS

Make dozer cut on Claim No. 8 one thousand feet in length and a depth 5 to 8 feet and drill along dozer cut each 100 feet to find width and depth of ore body we propose to do 1000 feet core drilling this claim.

Cost of exploring claims No. 8 -- $4,750.

Claim No. 7; S&S MINING CO.

The same procedure as No. 8 will be followed to ascertain width and depth of ore body.

Cost of exploring Claim No. 7 -- $4,750.

A road must be built starting on south west portion of claim No 9 extending into Claim No. 1 of Cascade Mining and Mineral Co. and following along hill to gain elevation to reach starting point on Claims No. 8 and 7. The estimated distance of road is 2000 feet.

Cost of road -- $4,000.

Claim No. 6; S&S MINING CO.

Cross cut existing tunnel 300 feet, 30 feet deep, to determine width and direction of ore flow. This claim shows leeching in blanket forms and we believe it is coming from Claims No. 7 and 8.

Cost of exploring claim No. 6 -- $600.

Claim No. 5; S&S MINING CO.

Drill 3 test holes this claim to total 500 feet core drilling

Cost of exploring Claim No. 5 -- $1375.

Claim No. 9; S&S MINING CO.

Cross cut existing tunnel 300 feet to depth 5 to 8 feet and drill 3 holes 50 feet deep by doing this work on No. 9 we hope to find ore wall, which will give definite lead and direction of main source of ore.

Cost to explore Claim No. 9 -- $1012.50

Claim No. 10; S&S MINING CO.

Cross cut Glory hole 200 feet length 5 to 8 feet in depth to see if ore comes up along this ridge.

Cost to explore claim No. 10 -- $400.

Claims No. 4, 3, 2, 1; S&S MINING CO.

Cross cut out crops and do 300 feet of core drilling to prospect fractures and out crops.

Cost to explore these claims -- $2025.

CASCADE MINING AND MINERAL CO.

Claim No. 1; CASCADE

Cross cut lower out crop 300 feet to depth 5 to 8 feet and do 250 feet core drilling.

Cross cut upper out crop and drill same as lower

Cost of exploring Claim No. 1 -- ~~$1387.50~~. $2575.00

Claims 2, 3, 4, 5; CASCADE

Cross cut out crops and do 325 feet of core drilling, build road from Claim No. 4 through No. 5 and into claim No. 6.

Cost to explore these Claims -- $1868.75

Claim No. 6; CASCADE

Cross cut fracture that has very high grade cinnabar showing cross cut will extend 200 feet and core drill one test hole 200 feet deep.

Cost to explore Claim No. 6 -- $950.

Claim No. 7; CASCADE

Cross cut fracture 300 feet and do 250 feet core drilling .

Cost to explore Claim No. 7 -- $1287.50

Claims 8, 9, 10; CASCADE

Cross cut fractures and outcrops and do 150 feet Core drilling each claim, build road suitable fro moving drilling equiptment.

Cost to explore these claims -- $1012.50

4-A

There is an old tunnel on claim No. 6 S & S Mining Co. that has a good showing of low grade ore, we made a cross cut of this tunnel about 300 feet long and 30 to 35 feet deep, our cross cut shows leeching in blanket form. The indications are that the leeching is coming from claims No. 7 and 8 and that is why we propose to do extensive exploratory work on claims No. 7 and 8 of the S & S group.

We have an option to purchase these claims and we will purchase and build a processing plant on the property if we can find enough ore to warrant same.

4-B

There has never been any production from these claims, and there are no proven ore reserves. We have taken several assays and they range from 1 lb. per ton to 35 lbs. per ton. The road to these claims is 20 miles east of Hampton Station, Oregon on highway No. 20 between Bend, Oregon and Burns, Oregon. These claims are 4½ miles south of the highway at the end of an existing road.

4-C

The mountain is about 700 feet high and extends in a northwesterly direction about six (6) miles to another mountain (Glass Butte). The south side of the mountain is down side of the fault, this is the side on which S & S claims No. 6,7, and 8 are located.

The north side being of Hydrothermol origin, composed of altered tuff and Opalite, massive, granulated and in brecha form, most of which contains cinnabar of primary and secondary formations. Other claims are to the west of claims mentioned above and lay on both sides of the ridge between this mountain and Glass Butte.

4-D

This property is accessible from highway by a dirt road that any

automobile can negotiate. This property is 40 miles west of Burns and 20 miles east of Hampton.

4-E

Man power is readily available. A well can be drilled. This company now has by ownership of lease, all of the necessary equipment. The nearest residential district of importance is Burns. We now have ownership of a small power plant and will install a Diesel Electric plant if there is enough ore on the property to put it into production.

5

The operating experience of this group consists of men who each have a successfull business of their own located near Stayton and Lyons, Oregon. These businesses are construction, logging, sand and gravel, road building and some mining. One man of the group is especially familiar with mercury and mercury mines. He has studied and donemining and field work as a geoligist in the past four years and is able to do assay work. The others of this group are familiar with heavy equipment necessary to this operation.

6

Estimate of the cost.

Basis

We have estimated the cost of the dozer work at $2.00 a foot road width or depth of 5-8 feet high side of cuts. We arreived at these figures through the work that we have done on these claims to date. The cost of core drilling was determined from our own experience and prices quoted by drilling contractors. Cost of core drilling $2.75 per foot.

Cost of exploratory work	$ ~~25,418.75~~	26,606.25
Less cost of Claim No. 6	~~600.00~~	600.00
	$ ~~24,818.75~~ *	26,006.25

6-B

This group does not propose to employ labor under a company name at this time other than an assayer, geologist, or engineer. We propose to handle labor in the following manner. Each piece of equipment necessary to this exploratory work is owned by individuals in this group and will be contracted to this group complete with labor on a per foot basis to comply with the proposed work listed on these pages. These men have their own tax accounts, insurance(State and Hospital) and will be responsible for the repairs to their own equipment. Equipment to be furnished by contractors.

D-7 Caterpillar with drum and blade and ripper
Core drill with 300 feet steel
Four wheel drive pick-up
Assay equipment

Supervision will be done by this group and headed by Mr. Ercill Wilson and named Superintendent of this project. He will be responsible for fulfillment of this contract as described in these reports.

Cpst of Exploratory work

Dozer work,etc.	$ ~~13,375.00~~ * 13875.00
Core drilling	~~11,443.75~~ * 12031.25
Assays -300 @ $.75	225.00
Geologist-est. six days @ 40.00	240.00
Rental-pick-up- 300.00 per mo. 3 months	900.00
Cost of Hauling heavy equip.	500.00

C O P Y

RARE METALS CORPORATION OF AMERICA

Memorandum

To: Lenard L. Cruson Date: Feb. 28, 1957

From: Jerry Sugden Place: Weiser, Idaho

Lenard:

I received your sample last night and Tommy assayed it today. We could only get 1½ lbs. of merc. per ton of ore. I hope this came close to your assay. The weather is looking good here now. Hope it continues to improve so that I can come over and see your property. Drop me a note and tell me when the roads improve and a week end that some of you will be there.

Best regards,

/s/ Jerry

- - - - - - - - - - - - - - - - - - -

Sample 1	-	.9	lbs. per ton
2	-	2.8	do.
3	-	34.6	do.
4	-	8.4	do.
5	-	5.1	do.

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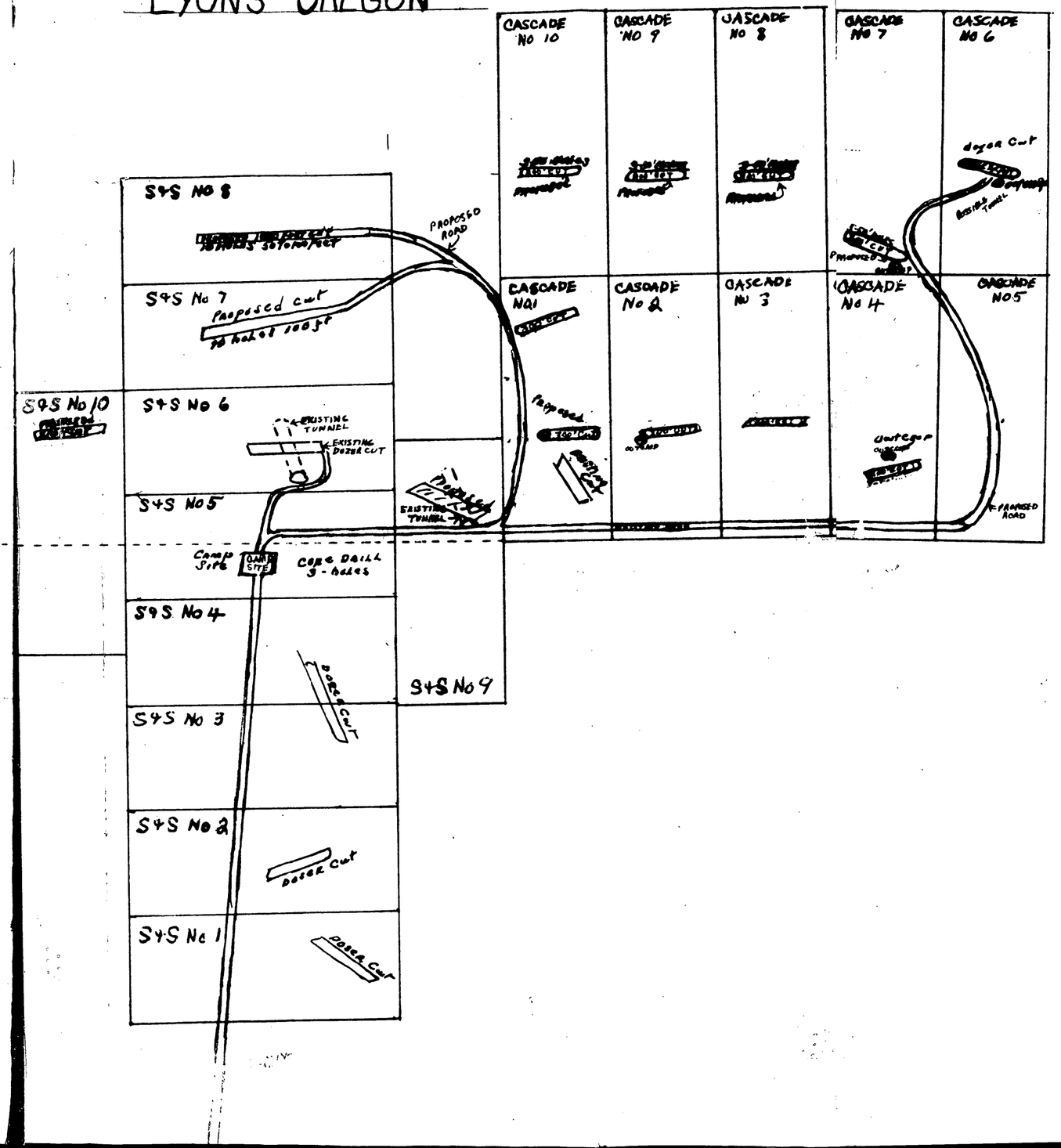
DATE	INITIALS	CODE

CASCADE MINING CO
LYONS OREGON

TOWNSHIP 23 RANGE 24
SECTION 3 LAKE COUNTY OREGON
RECORDED LAKEVIEW OREGON
VOL 10 PAGE 546
VOL 10 PAGE 548
VOL 10 PAGE 550
VOL 10 PAGE 141
VOL 11 PAGE 160



THIS AGREEMENT made and entered into by and between Elmer Seeratt,

hereinafter known as FIRST PARTY, and CASCADE MINING & MINERAL CO., hereinafter known as SECOND PARTY, on this 9th day of January, 1957,

WITNESSETH: Whereas the first party is the owner of what is commonly known as the Southerly five Mining Claims located in Sections 3,30, T.'s 23 R23 of Meridian, Lake County, Oregon,

Claims # 6 Recorded V. 10 P. 546
Claims # 8 Recorded V. 10 P. 550
Claims #10
Claims # 7 Recorded V 10 P 548
Claims # 9 Recorded V. 11 P. 141

and whereas the first party is desirous of having the second party prospect thereon it is herewith agreed as follows, to-wit:

That the first party for and in consideration of the sum of Ten and no/100 Dollars, receipt of which is hereby acknowledged, grants unto the second party the right to prospect for any and all minerals on said property and develope the minerals thereon as soon as convenient at the expense of the second party.

That the first party further grants without additional consideration, unto the second party the option to take over said mining or mineral rights of the first party on said premises and that a formal agreement as to the parties rights shall be immediately entered into in usual form based on the following consideration to-wit: $300.00 per month to be paid by the second party to the first party until minerals can be marketed after which a sum equal to ten percent of the gross income received shall be paid monthly to the first party, without interest, until the sum of $75000.00 is fully paid, saving and excepting that the second party may cease operations at anytime and in the event that that may occur any further obligations hereunder shall cease as it is within the intention of the parties that the $300.00 per month is all that is to be paid until it is known that mining may be done profitably on the second party's part, and income results from sale of minerals. Any improvements placed on the premises to remain in the second party and removeal thereof may be had by the second party.

This option shall be good for a period of ninety days within which time the aforementioned formal agreement shall be entered into upon the request of the second party.

This agreement shall be null and void when superseded by a formal mining contract.

IN WITNESS WHEREOF, The parties have hereunto set their hands and seals the day and year heretofore set forth.

_____(SEAL)

_____(SEAL)

FIRST PARTY

CASCADE MINING & MINERAL CO.

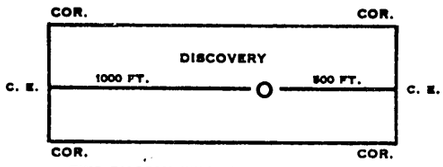
By _____(SEAL)

SECOND PARTY

FORM No. 795—NOTICE OF QUARTZ LOCATION.

160

74690



THIS DIAGRAM WILL EXPLAIN METHOD OF DESCRIPTION OF CLAIM.

Notice of Location of Quartz Claim

NOTICE IS HEREBY GIVEN TO ALL WHOM IT MAY CONCERN:

That CASCADE MINING & MINERAL CO.

*citizen*S *of the United States over the age of twenty-one years, having discovered a vein or lode of quartz or rock in place, bearing* CINABAR *within the limits of the claim hereby located and ha*S *this day, under and in accordance with the Revised Statutes of the United States, Chapter six, Title thirty-two, located* FIFTEEN HUNDRED *linear feet of this vein or lode, with surface ground* SIX HUNDRED *feet in width on each side of said vein or lode situated in* LAKE COUNTY *Mining District, County of* LAKE *, State of* OREGON *and known as the* CASCADE NOS 1-2-3-4-5-6-7-8-9-and 10 *Quartz Mining Claim*S *extending* 3000 *feet in an* WEST *direction to* WEST *end line and* 3000 *feet in an* SOUTH *direction to* SOUTH *end line from this notice at the discovery or prospect shaft, the exterior boundaries of this claim being distinctly marked by reference to some natural object or permanent monument, and more particularly described as follows, to-wit:*

ABOUT 5½ MILES EAST OF GLASS BUTTES & ABOUT 4½ MILES SOUTH OF HIGHWAY 20 IN RANGE 24 TWP 23 SEC. 3 Ten lode claims containing cinnabar~ Cascade No 1, Cascade No. 2, Cascade No 3 Cascade No 4, Cascade No 5, Cascade No. 6, Cascade No 7 Cascade No 8, Cascade No. 9, Cascade No 10

The general course or strike of this lode is EAST *and* WEST *and* WE *intend to work and hold said claim as provided by local customs and rules of Miners and Mining Statutes of the United States.*

Dated on the grounds this THIRTY *day of* JANUARY *, 19*57

CASCADE MINING & MINERAL CO

FRED A. MATTHIEU
LENORD CRUSON
RUSSELL WILSON
FRANCIS JUNGWORTH
ERSEL WILSON
HAROLD WALLER

Attest:

Locators.

OFFICIAL FILE COPY
D M E A
RECEIVED APR 8 1957

DATE	INITIALS	CODE

Hold

161

STATE OF OREGON
County of LAKE } ss.

WE ~~I~~, FRED A. MATTHIEU, LENARD CRUSON, AND RUSSELL WILSON do solemnly swear that ~~I am~~ we are a citizen of the United States of America (or have declared my intention to become such).

That I am acquainted with the Quartz Claim described in the within notice of location, called the

CASCADE # 1,2,3,4,5,6,7,8 and 9 and 10 Quartz Claim.

That the locator of said claim has, prior to the date of this affidavit and since the date of posting of the location notice thereon, sunk a shaft ten feet in depth from the lowest part of the collar thereof, or excavated a cut or cross-cut or tunnel, which cuts the lode at a depth of ten feet, or has excavated an open cut six feet deep, four feet wide and ten feet in length along the lode, and by such work has shown a lode or vein or deposit of mineral in place.

+ Fred A. Matthieu

Subscribed and sworn to before me this 31st. day of January, 1957

+ Lenard Cruson
+ Russell N. Wilson

Mary E. Burton
NOTARY PUBLIC FOR OREGON.

My Commission expires MY COMMISSION EXPIRES SEPT. 4, 1960

MARY E. BURTON
NOTARY
PUBLIC
STATE OF OREGON

Notice of Quartz Location

(FORM No. 756)

STATE OF Oregon
County of Lake } ss.

I certify that the within instrument was received for record on the 31st day of January, 1957 at 9:25 o'clock A. M., and recorded in Book 11 on page 160 Record of Mining Claims of said County.

Witness my hand and seal of County affixed.

Jane Gray
County Clerk—Recorder.
By Mary Hammond
Deputy.

558 STEVENS-NESS LAW PUB. CO., PORTLAND, ORE.

Lyons, Oregon
Rt 1 Box 56

Lenard Cruson

OFFICIAL FILE COPY
D M E A
RECEIVED APR 8 1957

DATE	INITIALS	CODE

THIS AGREEMENTmade and entered into by and between S & S Mining Co., hereinafter known as FIRST PARTY, and CASCADE MINING & MINERAL CO., hereinafter known as SECOND PARTY, on this 15th. day of February, 1957.

WITNESSETH: Whereas the first party is the owner of what is commonly known as the Northerly Five Mining Claims located in Section 3, Township 23, Range 23 of _____ Meridian, Lake County, Oregon,

Claim # 1 Recorded
Claim # 2 Recorded
Claim # 3 Recorded
Claim # 4 Recorded
Claim # 5 Recorded

and whereas the first party is desirous of having the second party prosppct thereon it is herewith agreed as follows, to-wit:

That the first party for and in consideration of the sum of Ten and no/100 Dollars, receipt of which is hereby acknowledged, grants unto the second party the right to prospect for any and all minerals on said property and develope the minerals thereon as soon as convenient at the expense of the second party.

That the first party further grants without additional consideration, unto the second party the option to take over said mining or mineral rights of the first party on said premises and that a formal agreement as to the parties rights shall be immediately entered into in usual form based on the following consideration to-wit: $ 200.00 paid by the second party to the first party until June 1, 1957 after which date the sum of $300.00 per month until minerals can be marketed after which a sum equal to 10 % ff c MS. percent of the gross income received shall be paid monthly to the first party, with out interest, until the sum of $ 75,000 ff c MS. is fully paid, saving and excepting that the second party may cease operations at any-time and in the event that this occurs any further obligations hereunder shall cease as it is within the intention of the parties that the Monthly

So. 157 Howard Street
Spokane 4, Washington

April 21, 1958

Mr. Leonard L. Cruson
Lyons, Oregon

Re: Docket No. DMEA-4718 (Cinnabar)
Cascade Mining & Mineral Co.
S & S & Cascade group of claims
Lake County, Oregon

Dear Mr. Cruson:

We are returning herewith for your files three reports of assays which you submitted with your application for Government aid March 25, 1957.

Sincerely yours,

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

Enclosures

cc: DMEA (2)
USBM

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10-28	Chapman	400
10-28	Martin	400
10/30	Selbergaard	130
10/30	Kamb	130
		110
		~~100~~
10/31	gb	220
		225
10/30	Williams	(130)

OCT 30 1957

Cascade Mining and Mineral Company
P. O. Box 66
Mehama, Oregon

Re: Docket No. DMEA 4718 - Mercury
S & S claims and Cascade claims
Lake County, Oregon

Gentlemen:

Your application for exploration assistance and other data available to us in Washington concerning the referenced property have been reviewed.

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

Careful study of all our information, although noting the occurrence of mercury mineralization on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. Under these conditions we regret to advise you that your application is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Administration program and for bringing this property to our attention.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

TLCHAPMAN/dlm 10-25-57
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. I
Messrs. J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

October 28, 1957

OFFICIAL FILE COPY

Date	Surname	Code
10-28	Chapman	400
10-28	Martin	400

MEMORANDUM

To: Administrator, DMEA

From: Division of Iron and Ferro-Alloys, DMEA

Subject: Denial of the subject application for exploration assistance in the amount of $26,006.25
Docket No. DMEA 4718 - Mercury
Cascade Mining and Mineral Company
S & S claims and Cascade claims
Lake County, Oregon

Denial of the subject application is recommended by this Division based on the following information:

The Applicant, Cascade Mining and Mineral Company, on March 25, 1957, applied for exploration assistance on the above-noted property at an estimated cost of $26,006.25 for about 6,000 feet of access road and bulldozer cuts and 2,125 feet of core drilling. The property was examined by E.W. Parsons, Bureau of Mines, and H. F. Albee and D.C. Alvord, Geological Survey, accompanied by Sui-Ju Kung, Trainee from Formosa, and Leonard Cruzon, Harold Waller, and Fred Mattieu for the Applicant.

Applicant: Cascade Mining and Mineral Company
P. O. Box 66
Mehama, Oregon

Property Ownership: The property consists of 20 unpatented lode mining claims, 10 owned by the Applicant, 5 owned by S & S Mining Company, and 5 by Elmer Seeratt. Cascade No. 1 to 10 claims owned by the company are recorded in Book 11, Pages 160 ---, S & S Nos. 1 to 5 inclusive (no recording data) owned by the S & S Mining Company, by an Agreement dated February 15, 1957, are under lease to the Applicant. The S & S Nos. 6 to 10, owned by Elmer Seeratt, by an agreement dated January 9, 1957, are under lease to the Applicant and are recorded as follows:

Claim Name	Book No.	Page No.
S & S No. 6	10	546
S & S No. 7	10	548
S & S No. 8	10	550
S & S No. 9	11	141
S & S No. 10	11	160

The claims are located in section 3, T. 24 S., R. 23 E. and section 34, T. 23 S., R. 23 E., Lake County, Oregon.

Geology: The property is underlain by glassy, flow banded rhyolite, opalized rhyolite, and opalized tuff. In places the opalized material is broken by fractures and breccia zones. The fractured and brecciated zones contain disseminated cinnabar and due to the translucent material the mineralization appears impressive. The main mineralization occurs in three zones.

Past History and production: No ore has been produced from the property, although mercury has been known in the area for many years.

Development: Exploration work consists of two adits, 60 feet and 280 feet long, with numerous pits and several bulldozer cuts.

Ore Values and tonnage: Four samples were taken from the east adit between 100 and 180 feet and results were as follows:

Sample No.	Mercury lbs/ton
317-C	1.26
318-C	1.40
319-C	0.63
320-C	0.60

Three samples taken from open cut above adit returned assays of 0.63, 0.65, and 1.42 pounds of mercury per ton.

There is no estimated tonnage of measured, indicated or inferred ore.

Proposed Work: The Applicant proposes to do work on all 20 claims. The work would consist of bulldozing access roads and cuts amounting to 6,000 linear feet and 2,125 feet of diamond drilling, for a total cost of $26,006.25.

Comments and Conclusions:

A small amount of cinnabar in a translucent host rock gives the appearance of high grade mercury ore. Of 13 samples taken, only one showed an ore grade assay, although the samples were taken from points where the apparent amount of cinnabar was impressive. Because of the poor basic preparation of the property for an examination and the poor results from the samples, the examiners and Field Team recommend that the application be denied.

Memoranda from the Commodity Divisions of the Geological Survey, and the Bureau of Mines, concur in the conclusions and recommendations of the Field Team.

W S Martin

W. S. Martin, Director
Division of Iron and Ferro-Alloys

IN REPLY REFER TO:

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

Memorandum

October 11, 1957

To: W. S. Martin, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of field examination report, DMEA 4718 (mercury), Cascade Mining and Mineral Company, S & S and Cascade claims, Lake County, Oregon.

The examining team report that geologic conditions on the applicant's property are not favorable for mercury ore deposits. Small amounts of cinnabar are found in rhyolites and tuff. Only one sample out of 13, taken by the examiners, was of ore grade.

I am in accordance with the recommendations for denial of the application for the reason that an important discovery of ore is not likely to result from the proposed project.

W. P. Williams

W. P. Williams

ORIGINAL FILE COPY
DMEA
RECEIVED OCT 15 1957

DATE	INITIALS	CODE
10/15	C	220
10/15	WSM	400

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

October 9, 1957

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: Assistant Chief, Branch of Base Metals

Subject: Review of Field Team examination report, Docket No. DMEA 4718 (mercury), Cascade Mining and Mineral Company, S & S and Cascade Claims, Lake County, Oregon. $26,006.25

The applicant proposed to explore for mercury mineralization by bulldozing and drilling at an estimated total cost of $26,006.25.

Examination and sampling of the mineralized exposures on the property indicated that the mercury mineralization was low and that the chance of making a significant discovery is poor.

I concur with the recommendation of the Field Team that the application for DMEA assistance be denied.

J. W. Pennington

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

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 9 1957

DATE	INITIALS	CODE
10/9	B	220
10/10	WSM	400

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY DMEA RECEIVED OCT 4 1957		
DATE	INITIALS	CODE
10/4	C	220
		130
10/10	WSM	400

Air Mail

October 2, 1957

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

Re: Docket No. DMEA-4718 (Cinnabar)
Cascade Mining and Mineral Company
S & S and Cascade group of claims
Lake County, Oregon

1 copy attached to report WSM

Dear Mr. Selfridge:

Enclosed are three copies of Figure 1 which should have accompanied the examination report on the Cascade Mining and Minerals Company application, sent to you by regular mail on October 1, 1957.

Sincerely yours,

Eva M. Raymond

(Mrs.) Eva M. Raymond
for: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

Enclosures

cc: USBM (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 4 1957

DATE	INITIALS	CODE
10/4	C	220
10/9	AB	130
		220
10/10	WSM	400

October 1, 1957

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

Re: Docket No. DMEA-4718 (Mercury)
Cascade Mining and Mineral Company
S & S and Cascade Claims
Lake County, Oregon

Dear Mr. Selfridge:

Enclosed are three copies of a memorandum report on the subject application by E. W. Parsons, Mining Engineer, U. S. Bureau of Mines, and H. F. Albee, Geologist, U. S. Geological Survey.

Cinnabar occurs in fractures and breccia zones in glassy flow-banded rhyolite, opalized rhyolite, and opalized tuff. Assays of 13 samples taken by the examiners range in grade from 0.20 to 4.42 pounds of mercury per ton, the latter being the only assay of ore grade.

Parsons and Albee conclude that, on the basis of present exposures, the chance of making a significant discovery is poor and they recommend that the application be denied.

We concur with the examiners' conclusions and recommendation.

By Field Team, Region I

for D D Mackown
A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Thomas E Howard
Thomas E. Howard, Acting Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
USGS (SRO)
Albee

Reviewed by
DMEA OPERATING COMMITTEE
10-9-57
(GAB).

DMEA

OFFICIAL FILE COPY DMEA RECEIVED OCT 4 1957		
DATE	INITIALS	CODE
10/9	24B	130
		220

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

So. 157 Howard Street
Spokane 4, Washington

September 30, 1957

MEMORANDUM

To: DMEA Field Team, Region I

From: E. W. Parsons, Mining Engineer, U. S. Bureau of Mines, and H. F. Albee, Geologist, U. S. Geological Survey

Subject: Field Examination Report, Docket No. DMEA-4718 (Mercury), Cascade Mining and Mineral Company, S & S and Cascade claims, Glass Buttes, Lake County, Oregon

INTRODUCTION

The Cascade Mining and Mineral Company submitted on March 25, 1957, an application for aid to explore for mercury on the S & S and Cascade groups of claims (unpatented) located in sec. 3, T. 24 S., R. 23 E. and possibly sec. 34, T. 23 S., R. 23 E., Lake County, Oregon.

The property is in the foothills southeast of Glass Buttes where the occurrence of mercury has been known for many years. There are two adits and a number of pits on the property, made a number of years ago. A mine on adjoining property has recently started production.

On Site EXAM.

SUMMARY

The property was examined by the authors and D. C. Alverd, Geologist, U. S. Geological Survey, on June 29, 1957, accompanied by Sui-Ju Kung, Trainee from Formosa; and Leonard Cruzon, Harold Waller, and Fred Mattieu for the applicant. Approximately 10 hours were spent on the property examining, mapping, and sampling the principal exposures which were pointed out by the applicants. Several sheared zones of opalized tuff and rhyolite containing cinnabar have been exposed by dozer cuts and adits.

3 mon

Reviewed by
DMEA Office Memorandum
10-9-57
(date)

CONCLUSIONS AND RECOMMENDATIONS

A small amount of cinnabar in a translucent host rock gives the rock the appearance of high-grade mercury ore. Of the 13 samples taken, only 1 showed an ore-grade assay, although most of the samples were taken where the apparent amount of cinnabar was impressive.

The applicants have no understanding of the type of deposits or the structural control of the deposits on their property. Considerable mapping would be required before a good exploration program could be set up, and lack of exposures due to insufficient cuts and the poor orientation of existing cuts would make the results of further mapping uncertain.

Because of the lack of basic preparation of the property for an examination and the poor results from the assays, the examiners recommend that the application be denied.

ACCESSIBILITY

The Cascade Mining and Mineral Company property is accessible from Bend, Oregon, by going southeast on U. S. Highway 20 to a point 20 miles east of Hampton or 5½ miles east of Glass Buttes, then turning right on a graveled road, past the Glass Buttes Mine, to the property, a distance of 4½ miles (fig. 1). Travel on the roads may be impeded occasionally during winter months by snow.

PROPERTY

The property consists of 20 unpatented lode mining claims, 10 owned by the company, 5 owned by the S and S Mining Company, and 5 by Elmer Secratt. The company controls the 10 claims not owned, by an option to work, which will later be replaced by a formal mining contract. The claims are recorded in the County Recorders Office, Lake County Courthouse, Lakeview, Oregon, as follows:

Claim	Book	Page
S & S No. 1		
S & S No. 2		
S & S No. 3		
S & S No. 4		
S & S No. 5		
S & S No. 6	10	546
S & S No. 7	10	548
S & S No. 8	10	550
S & S No. 9	11	141
S & S No. 10		

Cascade No. 1	11	160
Cascade No. 2	11	
Cascade No. 3	11	
Cascade No. 4	11	
Cascade No. 5	11	
Cascade No. 6	11	
Cascade No. 7	11	
Cascade No. 8	11	
Cascade No. 9	11	
Cascade No. 10	11	

COMPETENCY OF APPLICANT

The applicant company is a partnership composed of nine partners, three of them were present during the examination. All are independent businessmen. A number of them own heavy equipment suitable for open-pit mining and if a lease is granted they wish to use this equipment on a contract basis. Work done by the applicant consists of several bulldozer trenches. A portable laboratory for assaying mercury samples is housed in a truck and left on the property. The applicants, while apparently not mining men, appear capable of performing or overseeing surface mining work, and state that they are able to finance their share of the proposed work.

DESCRIPTION OF PROPERTY

The property lies on rolling foothills about 4 miles to the southeast of Glass Buttes. The surface has a thin soil mantle which supports grass, sagebrush and a few quaking aspen thickets. A small cabin and a shelter are the only buildings on the property. The underground workings consist of two adits, one about 60 feet long and one about 280 feet long, driven a number of years ago. The applicant has cut bulldozer trenches in six or more locations, the largest approximately 300 feet long with a maximum depth of 30 feet. The applicant reports that a number of samples have been assayed which ranged from 1 to 35 pounds mercury per ton but no details as to location or kind of sample were given.

GEOLOGY

The geology of the area has been discussed by Waters (Waters, Aaron, A structural and petrographic study of the Glass Buttes, Lake County, Oregon: Jour. Geology, vol. 35, no. 5, p. 441-452, 1927) and the occurrence of mercury in the area has been discussed by Ross (Ross, C. P., Some quicksilver prospects in adjacent parts of Nevada, California, and Oregon: U. S. Geol. Survey Bull. 931-B, p. 33-36, 1941).

According to Waters the Glass Buttes area is composed of three groups of lava flows. The highest and lowest of these groups are basaltic. The intermediate group, which is more than 400 feet thick and forms the greater part of the Glass Buttes area, includes dacite and several other kinds of andesite, as well as perlite, obsidian, and vitrophyre. Only these glassy lavas are exposed at the quicksilver prospects. According to Waters, the volcanic rocks of the Glass Buttes form a broad anticline broken by many normal faults of diverse trends and magnitudes.

The property, which has an area of about 400 acres, is underlain by glassy, flow-banded rhyolite, opalized rhyolite, and opalized tuff. In several places the opalized material is broken by fractures and breccia zones. These fractures and breccia zones contain most of the mercury, and, in places, the apparent amount of mercury is impressive. The transparent to translucent nature of the white, opaline host rock, however, causes a small amount of disseminated cinnabar to color strongly a large amount of rock.

Three areas on the property show cinnabar associated with shear or breccia zones. Area 1 is shown near the western edge of plate 1 where a mineralized shear zone is exposed in a dozer cut. The shear zone is from 2 to 6 feet wide, strikes about N. 15° E., and dips nearly vertically. The rock is of opaline material, probably opalized tuff. Small amounts of cinnabar occur disseminated in the fragments of rock in the shear zone, and in fractures.

Area 2 is shown in the northeastern part of plate 1. Two dozer cuts have each exposed a northwesterly trending shear zone. The exposures probably represent one continuous shear which dips from 65° to 70° northeasterly. The cuts are directly above an adit that apparently was driven to intersect the shear zone. From the strike and dip at the surface the shear zone should have been intersected at about 160 feet from the portal. A shear zone, however, was intersected by the adit at about 200 feet in and the shears are striking about 20° more to the west than those at the surface. The sheared material in the adit is a gray to black opalitic rock with flow-banding that indicates a rhyolitic origin, whereas the sheared material in the cuts appears to be opalized tuff. Except for the sheared zone, the adit exposes opalized tuff throughout its length with the strongest opalization from 115 feet to 160 feet in from the portal. This interval appeared to carry the strongest mineralization, although the assays of the samples do not bear out this observation. The opalized tuff is brecciated from the portal to about 8 feet beyond the sheared rhyolitic zone and the more intense brecciation roughly coincides with the strongest opalization.

Area 3 is shown in the northwest part of plate 1. A northwesterly trending shear zone with visible mercury in opalized tuff is exposed in a dozer cut. The shears seem to dip about

60° to the northeast but the exposure is poor so the dip may be many degrees off. An adit was driven southerly from the same elevation as the cut and intersected a breccia zone that probably reflects the shear zone in the cut. Beyond the shear zone in the adit there is no visible mercury and the opalized tuff gives away to dark gray to black opalite or opalized rhyolite.

Samples were cut in all of the exposures where cinnabar was visible. The highest assay results were expected from the east adit where cinnabar is visible from the portal to the face but in greater apparent concentration from about 100 feet to 180 feet. The results on the 4 samples cut were:

Sample No.	Mercury (Lbs/T)
317-C	1.26
318-C	1.40
319-C	0.63
320-C	0.60

Because these samples assayed lower, according to Willis H. Ott, Metallurgical Laboratory, Seattle, Washington, than was expected, sample Nos. 318-C and 319-C were sent to Abbet Hanks, Inc., of San Francisco, California, for check assays. The results were 0.20 and 0.20 pound mercury per ton, respectively. Three samples were taken from the cut above the adit with assays resulting in 0.63, 0.65, and 1.42 pounds mercury per ton.

Samples 308-C and 309-C were taken from the dozer cut at the west adit with assay results of 4.42 and 2.20 pounds mercury per ton, respectively. The exposure was insufficient to note a northwesterly extension of the structure, although it could be inferred, but to the southeast in the breccia zone in the adit visible mercury is sparse and no samples were taken.

Two samples were cut at Station TP-1 and one was cut in the southernmost trench shown on plate 1, with assay results of 1.00, 0.31, and 0.30 pounds mercury per ton, respectively.

Sampling and examination show that mercury is widespread on the property and that the showings are low grade. Only in a few places does the bedrock crop out and most observations must be made in bulldozer cuts. Considerably more work, including bulldozing and mapping, would be required to evaluate the property properly. However, from present information, the chances of making a significant discovery of mercury are poor.

PAST OPERATION

No ore has been produced from the property. Some ore-grade material may have been encountered while dozing some of the cuts but no stock-piling was done.

SUPPLIES AND EQUIPMENT

Materials, supplies, and equipment are available at Bend, Oregon, about 80 miles northwest, or at Burns, Oregon, 52 miles east. If a loan were approved, the applicant would probably bring in its own equipment from western Oregon. Labor is available locally and wages start at about $2.00 per hour. There is no water on the property so all water would have to be hauled or a well drilled. Power would be supplied by gasoline- or diesel-driven equipment. The company has a small power plant.

APPLICANT'S PROPOSAL

The applicant's proposal sounds like a project to do assessment work as all of the 20 claims are enumerated with work proposed on each. (In the applicant's proposal, the word "crosscut" means surface bulldozer cut). The work, as proposed, is to consist of 2,125 feet of core drilling at $2.75 per foot and about 6,000 feet of bulldozer cut and road at $2.00 per linear foot.

Inasmuch as the application is not recommended, an alternate proposal will not be discussed.

Attachments

Distribution:
DMEA (3)
USBM (5)
USGS(SRO)
Docket
Albee

United States
Department of the Interior

Prepared for
Defense Minerals Exploration Administration
Application Report

Docket No. DMEA 4718

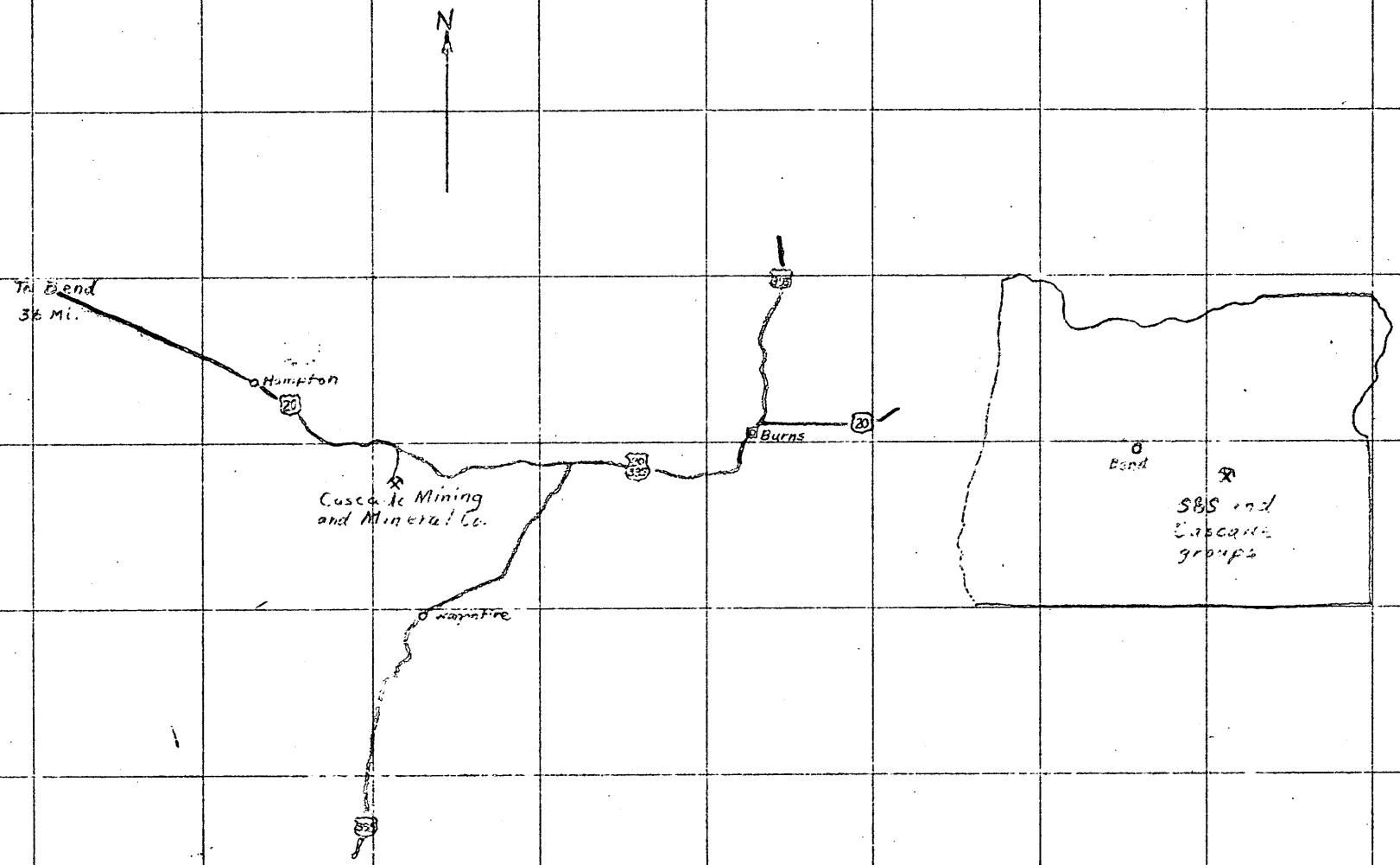


Figure 1. Location map, Cascade Mining and Minerals Company
Lake County, Oregon

~~[illegible]~~ 11:45 9/27/57

Mr. Tupling of Senator Neuberger's office (Oregon) called re:

Application on Cascade Mining and Mineral Co.
Mehama, Oregon

"Docket No. 4718, Inspectors went out from the Spokane Office and approved the application in April - what is the status of the application?"

He said this is an incorrect quotation. He realized the examiners don't "approve" the application

Our records show letter from Mr. Mittendorf to Operator that application had been referred to field for examination on April 26, 1957 - that is the last posting on the ease card.

Mr. Tupling - Code 190, Extension 80

Advised Mr. Tupling I would call him back within an hour.

R. B.

Phoned Tupling and told him August report from FT, rec'd here on Sept 9 said nameless "exam. made - report in prep." WSM

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/24	Holt	400
4/24	Martin	400
4/26	Selfridge	130
		110
		~~100~~
4/29	JWP	220
		400

APR 26 1957

Cascade Mining and Mineral Company
P. O. Box 66
Mehama, Oregon

Re: Docket No. DMEA 4718 - Mercury
S & S claims and Cascade claims
Lake County, Oregon

Lamb
Williams

Gentlemen:

The above-docketed application for exploration assistance for mercury ores has been reviewed by the Washington office of the Defense Minerals Exploration Administration and referred to Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region I - Northwest District, South 157 Howard Street, Spokane 4, Washington, for a field examination of the property.

Any assistance that you can give the members of the Field Team will be appreciated.

Sincerely yours,

Frank E. Johnson (for)

ACTING Administrator

SPHOLT:foc
4/22/57
cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
FT. REG. I - NWD
Messrs. J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/24	Hoff	400
4/24	Martin	400
4/26	Selfridge	130
"	Johnson	110
		~~100~~
		220

APR 26 1957

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region I - NW District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 4718 - Mercury
Cascade Mining and Mineral Company
S & S claims and Cascade claims
Lake County, Oregon

Dear Mr. Weissenborn:

The above-docketed application for exploration assistance is being referred to your office for a field examination of the property.

Copies of memoranda dated April 9 and 11, 1957, by J. W. Pennington, Bureau of Mines, and N. E. Nelson, Geological Survey, respectively, relating to the application, are enclosed.

Also enclosed is an extra copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

APPROVED:

Frank D. Lamb (GCS)
Member, Bureau of Mines

W. P. Williams (GCS)
Member, Geological Survey

SPHOLT:foc 4/24/57
cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
FT. REG. I - NWD
Messrs. J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

Enclosures

8623

IN REPLY REFER TO:

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

OFFICIAL FILE COPY
DMEA
RECEIVED APR 11 1957

DATE	INITIALS	CODE
4/12	JWR	220
4/12	WSM	400

April 11, 1957

Re: DMEA 4718
Cascade Mining and
Mineral Company
S & S and Cascade
claims
Lake Co., Oregon
$26,006.25 - Mercury

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

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

Subject: Review of application.

The applicant requests assistance in exploring a wide zone or zones reported to be mercury bearing, by bulldozing, drilling and underground work.

The proposed work is scattered over no less than 20 claims. For the most part it consists of bulldozing, exactly why is not said unless the inference is that mercury-bearing material in vein or blanket form underlies the overburden of all claims.

Assays of eight samples are given which show a range of from 0.9 pounds per ton to 52 pounds. Where and how taken is not given. Perhaps a report of some sort should be required of the applicant.

Referral of the application to the Field Team for appropriate action is recommended.

N. E. Nelson

N. E. Nelson

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

April 9, 1957

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: Assistant Chief, Branch of Base Metals

Subject: Review of application, Docket No. DMEA 4718 (mercury), Cascade Mining and Mineral Company, S&S Claims and Cascade Claims, Lake County, Oregon. $26,006.25

The applicant proposes to explore for mercury mineralization by surface trenching and core drilling at a total estimated cost of $26,006.25.

Information provided with the application on the property and proposed exploration is inadequate to evaluate the proposed exploration.

Referral of the application to the Field Team is recommended.

The application is returned herewith.

J. W. Pennington

Attachment

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

OFFICIAL FILE COPY
DMEA
RECEIVED APR 10 1957

DATE	INITIALS	CODE
4/10	JWP	220
4/10	WSM	400

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

April 8, 1957

Cascade Mining and Mineral Company,
P.O. Box 66,
Mehama, Oregon.

Subject: DMEA 4718
Re: Exploration Assistance.

Gentlemen:

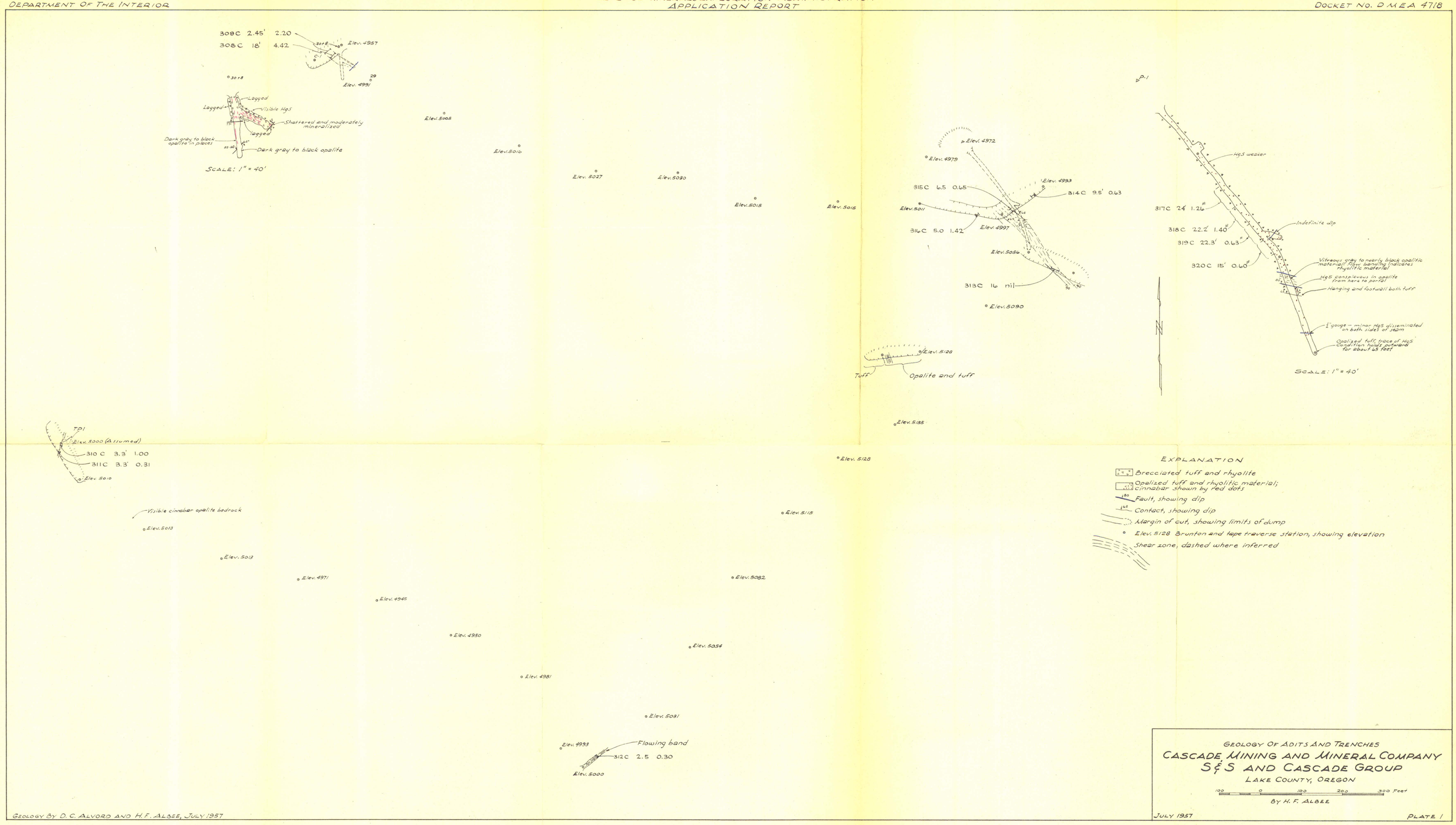
Your application for exploration assistance, dated March 25, 1957, submitted to our office at Spokane, Washington, has been assigned Docket Number DMEA 4718 and referred to the Iron and Ferro-Alloys Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Chief
Operations Control and
Statistics Division

Copy to: Region I-NW.

3571


309C 2.45' 2.20
308C 18' 4.42
Elev. 4957
Elev. 4991
Lagged
Visible HgS
Shattered and moderately mineralized
Dark gray to black opalite in places
Dark gray to black opalite
SCALE: 1" = 40'
Elev. 5005
Elev. 5016
Elev. 5027
Elev. 5030
Elev. 5015
Elev. 5016
Elev. 4972
Elev. 4979
Elev. 4993
315C 6.5 0.65
314C 9.5' 0.63
Elev. 5011
316C 5.0 1.42
Elev. 4997
Elev. 5056
313C 16 nil
Elev. 5090
Elev. 5128
Tuff
Opalite and tuff
Elev. 5185
P-1
HgS wedge
317C 24' 1.26#
318C 22.2' 1.40#
319C 22.3' 0.63#
320C 15' 0.60#
Indefinite slip
Vitreous gray to nearly black opalitic material; flow banding indicates rhyolitic material
HgS conspicuous in opalite from here to portal
Hanging and footwall both tuff
1' gouge – minor HgS disseminated on both sides of seam
Opalized tuff, trace of HgS
Condition holds outward for about 45 feet
SCALE: 1" = 40'
TP1
Elev. 5000 (Assumed)
310 C 3.3' 1.00
311C 3.3' 0.31
Elev. 5010
Visible cinnabar opalite bedrock
Elev. 5013
Elev. 5013
Elev. 4971
Elev. 4946
Elev. 4950
Elev. 4981
Elev. 5081
Elev. 4993
Flowing band
312C 2.5 0.30
Elev. 5000
Elev. 5128
Elev. 5115
Elev. 5082
Elev. 5054
EXPLANATION
Brecciated tuff and rhyolite
Opalized tuff and rhyolitic material; cinnabar shown by red dots
Fault, showing dip
Contact, showing dip
Margin of cut, showing limits of dump
Elev. 5128 Brunton and tape traverse station, showing elevation
Shear zone, dashed where inferred
GEOLOGY OF ADITS AND TRENCHES
CASCADE MINING AND MINERAL COMPANY
S & S AND CASCADE GROUP
LAKE COUNTY, OREGON
100 0 100 200 300 Feet
BY H. F. ALBEE
GEOLOGY BY D. C. ALVORD AND H. F. ALBEE, JULY 1957
JULY 1957
PLATE 1