DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4844

Application
- [x] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [ ] Project summary (final)
- [ ] Work Comoleted analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

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

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

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

OFFICE OF THE SECRETARY
DMEA
RECEIVED NOV 18 1957

DATE	INITIALS	CODE

November 15, 1957

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

Re: New Application (Lead-Copper-Zinc-Silver)
Fred P. Schreiner
Independent Mine
Broadwater County, Montana

Dear Mr. Selfridge:

Enclosed is one copy of an application for DMEA assistance to explore for lead-zinc-copper ore in the Independent mine, Broadwater County, Montana.

The applicant submitted only one copy of the application, including two maps and several settlement sheets. Due to their age and the fact that the entries on most of the settlement sheets were in blue ink, we could not reproduce them. Therefore, we prepared a summary sheet which we enclose as part of the application. We could not readily reproduce the maps as they were made on cardboard so we had autopositives made. We are enclosing three copies of this map. The applicant requested that the maps and settlement sheets be returned, and as we have either reproduced the originals or tabulated the necessary data we have returned them.

The applicant's proposal is vague but as we will have field men in the vicinity of the property during the week of November 18, we will have them attempt to see the applicant and make an examination at that time.

Sincerely yours,

A. E. Weissenborn

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

Enclosures

cc: USBM (2)
Geologist

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
NOV 4 1957
U. S. G. S.
SPOKANE, WASH.

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

Not to be filled in by applicant

Docket No. DMEA- 4884
Metal or Mineral Lead, Copper, Zinc
Date Received 11-18-57
Estimated Cost Not given
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Fred P Schrener - Townsend, Mont.

(*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 Six unpatented mining claims owned outright without liens or debts.

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

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

(*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 Lead - Copper, Zinc, Silver.

(*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 30 days and be completed within 24 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ 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 November 1st, 1957

Greg P. Schreiner
(Applicant)

By

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

Townsend, Montana
October 31, 1957

ORIGINAL FILE COPY
DMEA
RECEIVED NOV 18 1957
DATE | INITIALS | CODE

United States Dept. of the Interior
Defense Minerals Exploration Administration
S. 157 Howard St.
Spokane 4, Washington

Dear Sir:

I have been engaged in mining for years. I am well known in Townsend, Montana, and can furnish character references. I am known as a capable miner.

Following is a list of the six unpatented mining claims owned outright by me.

Claim	District	County	Book
Sentinal	Park	Broadwater	21 549
Sentinal No. 1	"	"	21 550
Verona	"	"	21 148
Victoria	"	"	21 149
Viscount	"	"	21 150
Spur	"	"	19 183

The machinery would be rented including compressor, machine, and steel.

Supplies which are on hand include:

500 feet of 12 lb. rail
12 ore cars
small tools
1 cabin
blacksmith shop
anvil, etc.

The drift will be driven by me, 4' x 6' x 6' untimbered. The cost of the drift will be $38.00 per foot untimbered. Length of the proposed work is 500 feet.

The object of this proposed drift is to cut the John L, a N. S. Vein and the intersections of two westerly veins the Sentinal and the Sentinal I. The drift would crosscut 80 feet to encounter the Sentinal - after finishing Sentinal drift - up to 150 feet to encounter area of ore on level above. The ore seems to rake to the West. If the John L is encountered an additional 500' of drifting is proposed.

Included with this application are some of the shipment records, maps, etc. I am enclosing postage for their return after they have served your purpose.

The veins are in andesite. The John L is a fracture fissure with a strike N. 41 W. and dips 85 N. East. Lenz or ore encountered were up to 54" wide. The vein has been drifted on for 620 feet. The proposed work would give 180' lift on the vein.

E. V. Cory probably put out a Bulletin in 1933, bulletin No. 10. The mine was known as the Independent.

These claims are located in the Park Mining District, Broadwater County, Montana.

If this application is considered, maps of proposed work and other pertaining data will be furnished.

Yours very truly,

Fred P. Schreiner
Townsend,
Montana

AMERICAN SMELTING AND REFINING CO.

EAST HELENA PLANT

East Helena, Mont. [illegible]

Bought of To Fred P. Schneider, Jr. Mine Independent

Class Pb. Shipping Point Montana, Montana Mine Lot No. [illegible]

Quotations of Banks Mfg. Silver [illegible] Lead 4.7667 Outside Charges [illegible]

ASSAYS	GOLD Oz. per ton	SILVER Oz. per ton	LEAD Per Cent	[illegible] Per Cent	NICKEL Per Cent	IRON Per Cent	Manganese Per Cent	ZINC Per Cent	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
A. S. & R. Co.	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sampler													
Settlement	0.003	2.2	17.5	0.50				1.5	0	0.15	0.05	0.05	

Dry Number	Weight	VALUES PER TON			DEDUCTIONS PER TON
		Gold 21.15715	$35.00-1/16	14.75	Gold [illegible] Cost [illegible]
		Silver [illegible]	[illegible] .64 1/2	5.71	
		Lead [illegible]	[illegible] 4.7667-1.50	3.41	
		Sampler [illegible]			
	Part of [illegible]				
Weight of Lot					
Weight of Scale					
Wet Weight					
Less Moisture 13.5 %	[illegible]	[illegible]		0.05	
Dry Weight	[illegible]	Profit		[illegible]	
		[illegible]			
		[illegible]			
Date of Bill		Supplies			
Date of Analysis [illegible]		Assayer			
Checked		Sampler			
Correct		Deductions When Less Than 10 Tons			

Rates except on contracts, subject to change without notice.

A charge of $5.00 made on all lots under 10 dry tons.

TOTAL $ [illegible]

Net Proceeds $ [illegible]

[illegible]-6-25

AMERICAN SMELTING AND REFINING CO.

EAST HELENA PLANT

return to

East Helena, Mont., December 16, 1922

Bought of Fred P. Schreiner, Jr. Mine Independent Our Lot No. 1222

Class Grade Shipping Point Townsend, Montana Mine Lot No. 8

Quotations of Metals Mts. Silver .44 1/8 Lead 5.10 Cathode Copper 10.20

Assays	Gold Oz. per ton	Silver Oz. per ton	Lead Per Cent	Copper Per Cent	Zinc Per Cent	Iron Per Cent	Manganese Per Cent	Sulphur Per Cent	Antimony Per Cent	Arsenic Per Cent	Antimony Per Cent	Bismuth Per Cent
A. S. & R. Co.	0.45	8.6	[illegible]	0.01				2.4	0	0.18	0.01	
Buyer's Shipper	0.47	8.8	[illegible]									
Shot for Gold, Silver & Lead Engine 16 Brent Assay												
Weights												
Settlement	0.45	8.6	16.8	0.01				2.4	0	0.18	0.01	

Lot Number	Weight
	Part of 20445 20520

Weight of Lot
Weight of Bulk
Net Weight
Less Moisture 16.8 %
Dry Weight

Date of B/L
Date of Amount 12/1/22
Checked
Sent

VALUES PER TON

Gold	$1.12726 @ $20.00-1/16	12.68
Silver	8.6 Less 1.0% .44 1/8	3.29
Lead	16.8 Less 1.0% 5.10-1.50	5.68
Copper Less	0	
		21.65
Less Total Deductions		6.00
Net		15.71

Freight 0

Weight for the ton @ 150
Smelting for the ton @
Handling
Advances
Sampling
Sampling Ton Less Ton 10 Ton

Deductions per ton

Base for	6.00
Moisture	% @
Zinc	% @
Sulphur	% @
Arsenic	% @
Antimony	% @
Bismuth	% @
Iron	% @
Total Deductions	6.00

Per Ton 6.00

Per Ton $94.20

	15.00
	2.00
TOTAL	$ 17.00 $ 77.20
NET PROCEEDS	$ 94.20

Rates subject to contracts, subject to change without notice.
A charge of $5.00 made on all lots under 10 day test.

SM—1-27.

average 19.96

AMERICAN SMELTING AND REFINING COMPANY

BASE METALS PLANT

East Helena, Mont. [illegible]

Bought of return Fred P. Schreiner [illegible] Mine Independent Our Lot No. [illegible]

Class Crude Shipping Point Bozeman, Montana Mine Lot No. [illegible]

Quotations of Basis Ave. Silver .90 Lead [illegible] Cathode Copper 24.075

ASSAYS	Gold Oz. per ton	Silver Oz. per ton	Wet Lead Per cent	Sulphur Per cent	Arsenic Per cent	Iron Per cent	Antimony Per cent	Sulphur Per cent	Zinc Per cent	Additional Per cent	Antimony Per cent	Bismuth Per cent	Lime Per cent
A. S. & R. Co.	0.820	1.2	0	0.02	63.0	21.2	0.3		0	0.10	0.12		0
Umpire													
Settlement	0.820	1.2	0	0.02	63.0	21.2	0.3		0				

[illegible]

Number	Weight
Truck	7360

VALUES PER TON

Gold	97.1371	35.1745	26.09
Silver 90% less 1 oz.		.90	.18
Lead Less 5%			
Copper, Less			25.27
Less Deductions			2.00
Pounds			19.27

DEDUCTIONS PER TON

Base Per Charge	Less	2.00
Moisture	%	
Zinc	%	
Arsenic	%	
Antimony	%	
Bismuth	Lbs.	
Gold		
Iron	%	
Total Deductions		

Weight of Lot

Weight of Sample

Mill Weight

Less Deductions 11.2 [illegible]

Dry Weight [illegible]

Sales or B/L

Date of Average 11-6-57

Checked

Correct

[illegible]

Freight [illegible]

Insurance

Weighing

Adjustment

Umpire

Sampling When Less Than 10 Tons

TOTAL $ 61.80 $ [illegible]

NET PROCEEDS $ [illegible]

Rates accept on contract, subject to change without notice.

A minimum charge of $5.00 made on all lots under 10 dry tons.

5026—7-50

AMERICAN SMELTING AND REFINING CO.

EAST HELENA PLANT

CORRECTION
returns

East Helena, Mont. Nov. 23, 1938 19

Bought of Fred P. Schreiner, Jr. Mine Independent Our Lot No. 1287

Class Crude Shipping Point Townsend, Montana Mine Lot No. 1

Quotations of Banks Avg. Silver .64 1/8 Lead 5.10 Cathode Copper 10.00

ASSAYS	GOLD Oz. per ton	SILVER Oz. per ton	LEAD Per Cent	COPPER Per Cent	INSOL Per Cent	IRON Per Cent	Manganese Per Cent	ZINC Per Cent	Sulphur Per Cent	ARSENIC Per Cent	Antimony Per Cent	Bismuth Per Cent
E. & R. Co.	0.59	6.2										
Buy for shipper	0.64	7.8										
W.E. Burlingame Umpire	0.585	7.30										
Settlement	0.59	7.80										

Car Number	Weight

VALUES PER TON		
Gold 91.1371%	35.00-1/4%	18.77
Silver ~~xxx~~ loss 1 oz. .64 1/8		4.04
Lead Loss 50%	@	
Copper, Loss	@	4.67
		27.48
Less Total Deductions		6.00

DEDUCTIONS PER TON		
Base Ins. % Lead		
Moisture %	@	
Zinc %	@	
Sulphur %	@	
Arsenic %	@	
Antimony %	@	
Bismuth Lbs.	@	
Bulk		
Iron %	@	
Total Deductions		$

Weight of Lot
Weight of Sacks
Net Weight
Moisture %

Net Weight 47267 Pounds @ 21.48 Per Ton $ 514.09

Freight Per Wet Ton @		
Hauling Per Wet Ton @		
Royalty		
Advance Free. Settled	$ 507.87	
Umpire charges withheld on orig. settlement	$ -	
Sampling When Less Than 10 Tons		
TOTAL	$ 507.87	$ 507.87
NET PROCEEDS		$ [illegible]

Date of Arrival 11/1/38
Checked by
Entered

Rates except on contracts, subject to change without notice.
A charge of $5.00 made on all lots under 10 dry tons.

OFFICIAL FILE COPY
RECEIVED NOV 18 1938
DATE INITIALS CODE

2326—6-38.

AMERICAN SMELTING AND REFINING CO.

EAST HELENA PLANT

East Helena, Mont. November 7, 1930 19

Shipper of Minerals Fred E. [illegible], Pr. [illegible] Mine Independent Our Lot No. [illegible]

Class Shipping Point Townsend, Montana Mine Lot No. 3

Quotations of Pooling Assn. Silver .70 3/8 Lead 3.50 Cathode Copper 18.12

Assays	Gold Ounces per Ton	Silver Oz. per Ton	Lead Per Cent	Copper Per Cent	Nickel Per Cent	Iron Per Cent	Manganese Per Cent	Zinc Per Cent	Sulphur Per Cent	Arsenic Per Cent	Antimony Per Cent	Bismuth Per Cent
G. S. & R. Ck.	0.07	11.6	18.9	0.30				1.8	9	0.30	0.05	
Umpire												
Average	0.07	11.6	18.9	0.30				1.8	9	0.30	0.05	

Number	Weight
Stock	[illegible]
Gross of Lot	
Weight of Lot Gross	
Net Weight	
Dryness	31.8 A. [illegible]

VALUES PER TON		
Gold	31.18716 @ 20.00-1/05	18.14
Silver	[illegible] 1 Oz. .70 3/8	7.42
Lead Less [illegible]	[illegible]	18.37
Copper Less	[illegible]	[illegible]
Less Total Deductions		5.00

DEDUCTIONS PER TON		
Base for Lead	[illegible]	5.00
Trunk [illegible]		[illegible]
Insoluble	% @	
Zinc	% @	
Sulphur	% @	
Arsenic	% @	
Antimony	% @	
Bismuth	Lbs. @	
Gold		
Iron	% @	
Total Deductions		[illegible]

Net Tons [illegible] Pounds [illegible] [illegible] per Ton $ [illegible]

Freight Per Net Ton $		
Hauling [illegible] [illegible] yd. bags to E. H. Smelting	15.75	
Freight [illegible] and 20,000# @ 3.00 per ton Townsend, Montana	30.00	
Advances		
Umpire		
Sampling Mine Lots Less Than 10 Tons		
TOTAL	$ 51.66	$ [illegible]
NET PROCEEDS		$ [illegible]

Date of D.A.

Date of Acceptance 12/1/30

Checked

Agent

Rates except on contracts, subject to change without notice.

A charge of $5.00 each on all lots under 10 dry tons.

[illegible]-1-30.

RECEIVED NOV 18 1930 DATE INITIALS CODE

NAME OF MINE Independence

WHERE LOCATED

R. R. SHIPPING POINT

NAME OF SHIPPER Fred L. Sherwood Inc

P. O. ADDRESS Box 205 Butte, Mont.

HAND SAMPLE SERIAL NO. 1 9

ASSAY OF HAND SAMPLES

American Smelting and Refining Co.

EAST HELENA PLANT

Oct. 13, 1931

Sample No.	Gold	Silver	Lead	Copper	Zinc	Iron	Silica	Alumina	Lime	Magnesia	Sulphur	Antimony	Arsenic	Bismuth	Cadmium
1	0.60	2.4	7.8	5.0	24.4	2.2		26.6	2.4		0.30	0.16			
2	0.60	8.2	7.2	0.0	29.2	22.6		28.5	5.2		0.25	0.00	0		

ASSAYING AND ANALYTICAL WORK

ORE TESTING AND SAMPLING

MONTANA LABORATORY CO.

CHEMISTS AND ASSAYERS

The Following Analyses Were Made For Fred P. Schriner Philipsburg Montana

May 1 1907

Mine	Ozs. Silver Per Ton	Ozs. Gold Per Ton	Per Cent Copper	Per Cent Mn. Dioxide	Per Cent Iron	Per Cent Lead
#1	32.0	$18.80				59.63

Vendor away;
return to Fred P. Schriner
Philipsburg
Mont.

MONTANA LABORATORY CO.

By .....

OFFICIAL FILE COPY
DUNEM
RECEIVED NOV 18 1907
DATE | INITIALS
Per Cent Zinc

SUMMARY OF SETTLEMENT SHEETS PRIOR TO 1938

Ore from John L. Mine -- sold by Tom and Fick McCormick to American Smelting & Refining Co., East Helena Plant

Date	Weight SDT	Au Ozs./ton	Ag Ozs./ton	Pb Percent	Zn[1/] Percent	Cu Percent	Value/ton	Total settlement[2/]
1/27/07	24.0075	0.52	16.8	3.0	9.5	5.4	$ 17.09	$410.29 (386.04)
4/19/07	23.284	0.32	15.7	17.3	16.5	--	12.25	285.23
6/ 4/07	23.284	--	--	--	--	2.4	3.99	92.90
6/ 4/07	23.895	0.33	18.5	25.6	10.6	1.8	23.88	570.61
6/27/07	16.3745	0.48	21.5	27.2	--	0.9	27.40	448.66
10/ 9/07	20.742	0.53	8.4	6.5	5.8	0.7	11.02	228.58 (214.91)
12/27/07	25.1955	0.62	18.7	4.4	11.6	4.8	16.72	421.27 (395.82)
3/13/08	20.8765	0.45	18.5	8.0	6.0	5.7	19.94	416.28 (402.91)
8/ 4/08	23.6315	0.57	6.1	Tr	3.4	1.3	9.41	222.37 (207.45)
8/29/08	24.136	0.50	11.1	--	1.0	3.9	13.53	326.56 (311.32)
9/ 8/08	22.364	0.50	8.9	--	0.0	3.2	11.72	262.11 (247.99)
9/26/12	6.1245	0.96	5.5	12.8	0.0	--	20.66	126.53 (119.53)

1/ Zinc content brought penalty.

2/ Figure in () is settlement after freight deductions. On other shipments, freight included in treatment charges.

SUMMARY OF SETTLEMENT SHEETS PRIOR TO 1938

Ore from John L. Mine -- sold by Tom and Fick McCormick to American Smelting & Refining Co., East Helena Plant

Date	Weight SDT	Au Ozs./ton	Ag Ozs./ton	Pb Percent	Zn[1] Percent	Cu Percent	Value/ton	Total settlement[2]
1/27/07	24.0075	0.52	16.8	3.0	9.5	5.4	$ 17.09	$410.29 (386.04)
4/19/07	23.284	0.32	15.7	17.3	16.5	—	12.25	285.23
6/ 4/07	23.284	—	—	—	—	2.4	3.99	92.90
6/ 4/07	23.895	0.33	18.5	25.6	10.6	1.8	23.88	570.61
6/27/07	16.3745	0.48	21.5	27.2	—	0.9	27.40	448.66
10/ 9/07	20.742	0.53	8.4	6.5	5.8	0.7	11.02	228.58 (214.91)
12/27/07	25.1955	0.62	18.7	4.4	11.6	4.8	16.72	421.27 (395.82)
3/13/08	20.8765	0.45	18.5	8.0	6.0	5.7	19.94	416.28 (402.91)
8/ 4/08	23.6315	0.57	6.1	Tr	3.4	1.3	9.41	222.37 (207.45)
8/29/08	24.136	0.50	11.1	—	1.0	3.9	13.53	326.56 (311.32)
9/ 8/08	22.364	0.50	8.9	—	0.0	3.2	11.72	262.11 (247.99)
9/26/12	6.1245	0.96	5.5	12.8	0.0	—	20.66	126.53 (119.53)

1/ Zinc content brought penalty.

2/ Figure in () is settlement after freight deductions. On other shipments, freight included in treatment charges.

SUMMARY OF SETTLEMENT SHEETS PRIOR TO 1938

Ore from John L. Mine -- sold by Tom and Pick McCormick to American Smelting & Refining Co., East Helena Plant

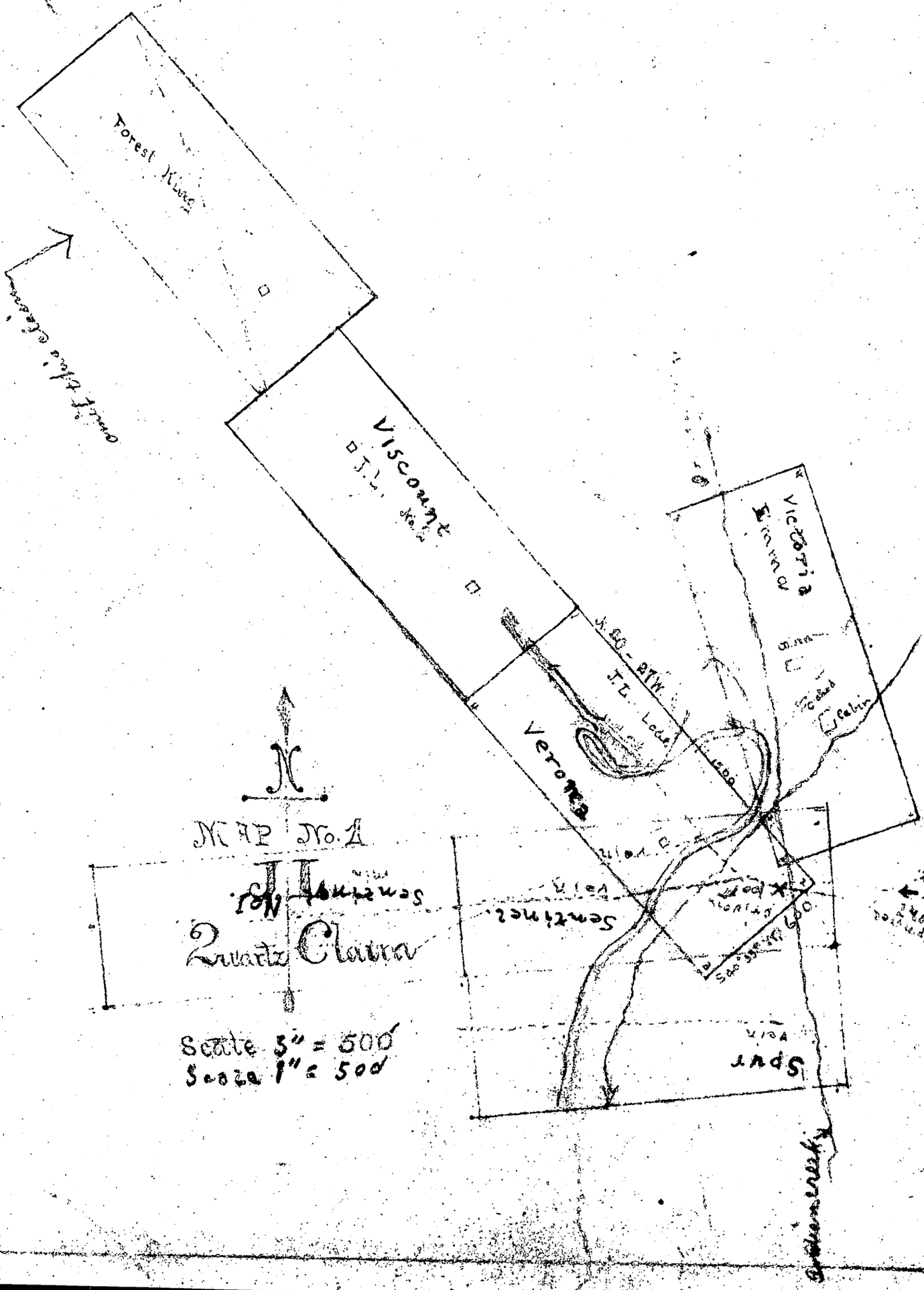
Date	Weight SDT	Au Ozs./ton	Ag Ozs./ton	Pb Percent	Zn[1] Percent	Cu Percent	Value/ton	Total settlement[2]
1/27/07	24.0075	0.52	16.8	3.0	9.5	5.4	$ 17.09	$410.29 (386.04)
4/19/07	23.284	0.32	15.7	17.3	16.5	--	12.25	285.23
6/ 4/07	23.284	--	--	--	--	2.4	3.99	92.90
6/ 4/07	23.895	0.33	18.5	25.6	10.6	1.8	23.88	570.61
6/27/07	16.3745	0.48	21.5	27.2	--	0.9	27.40	448.66
10/ 9/07	20.742	0.53	8.4	6.5	5.8	0.7	11.02	228.58 (214.91)
12/27/07	25.1955	0.62	18.7	4.4	11.6	4.8	16.72	421.27 (395.82)
3/13/08	20.8765	0.45	18.5	8.0	6.0	5.7	19.94	416.28 (402.91)
8/ 4/08	23.6315	0.57	6.1	Tr	3.4	1.3	9.41	222.37 (207.45)
8/29/08	24.136	0.50	11.1	--	1.0	3.9	13.53	326.56 (311.32)
9/ 8/08	22.364	0.50	8.9	--	0.0	3.2	11.72	262.11 (247.99)
9/26/12	6.1245	0.96	5.5	12.8	0.0	--	20.66	126.53 (119.53)

1/ Zinc content brought penalty.

2/ Figure in () is settlement after freight deductions. On other shipments, freight included in treatment charges.

Mr. Jay L. Gladhart
Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

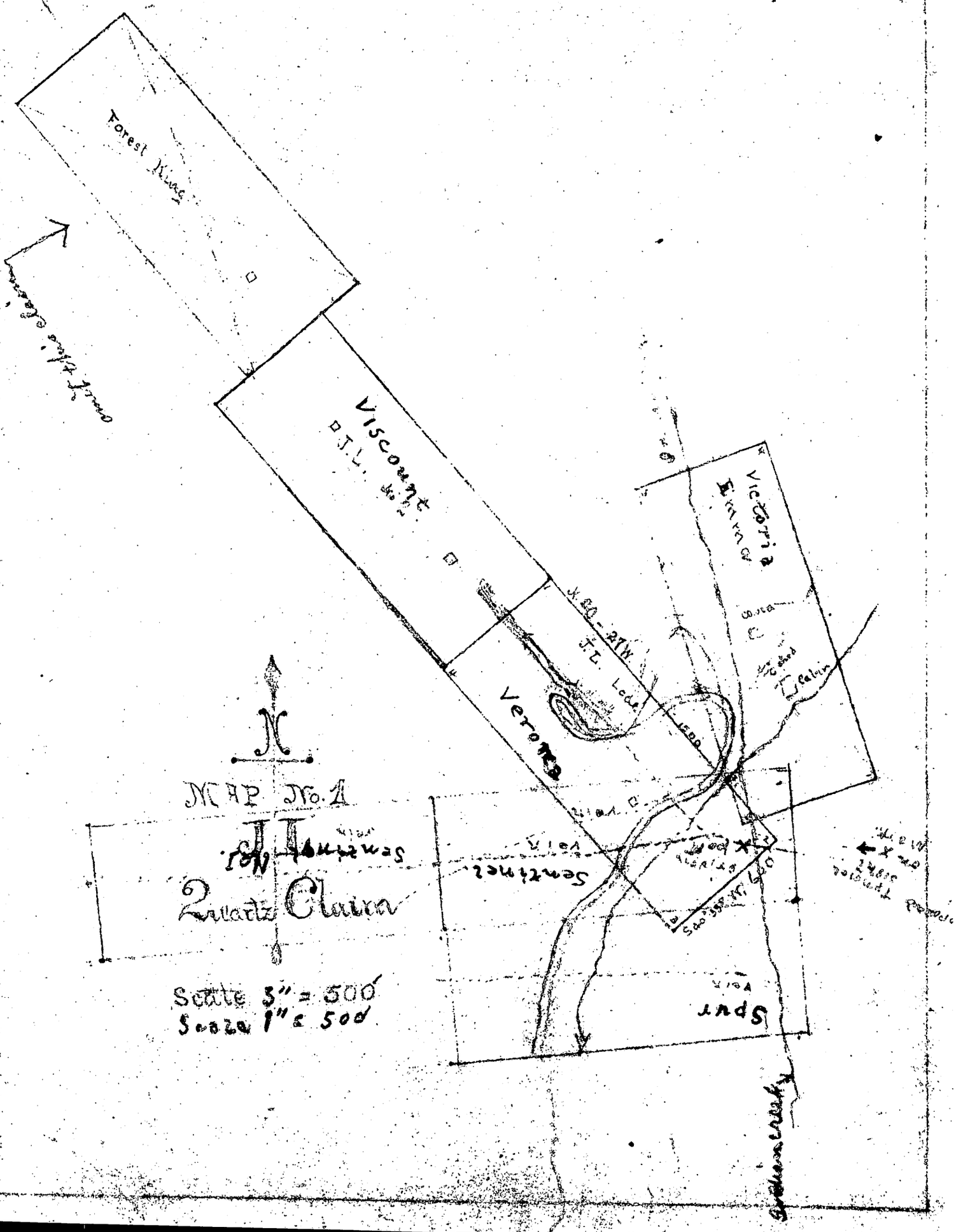
Please omitted. Forest King is marked on map
The other claims as they are originally now.



CHARGE TO COPY
DMBA
RECEIVED NOV 18 1957

DATE	INITIALS	CODE

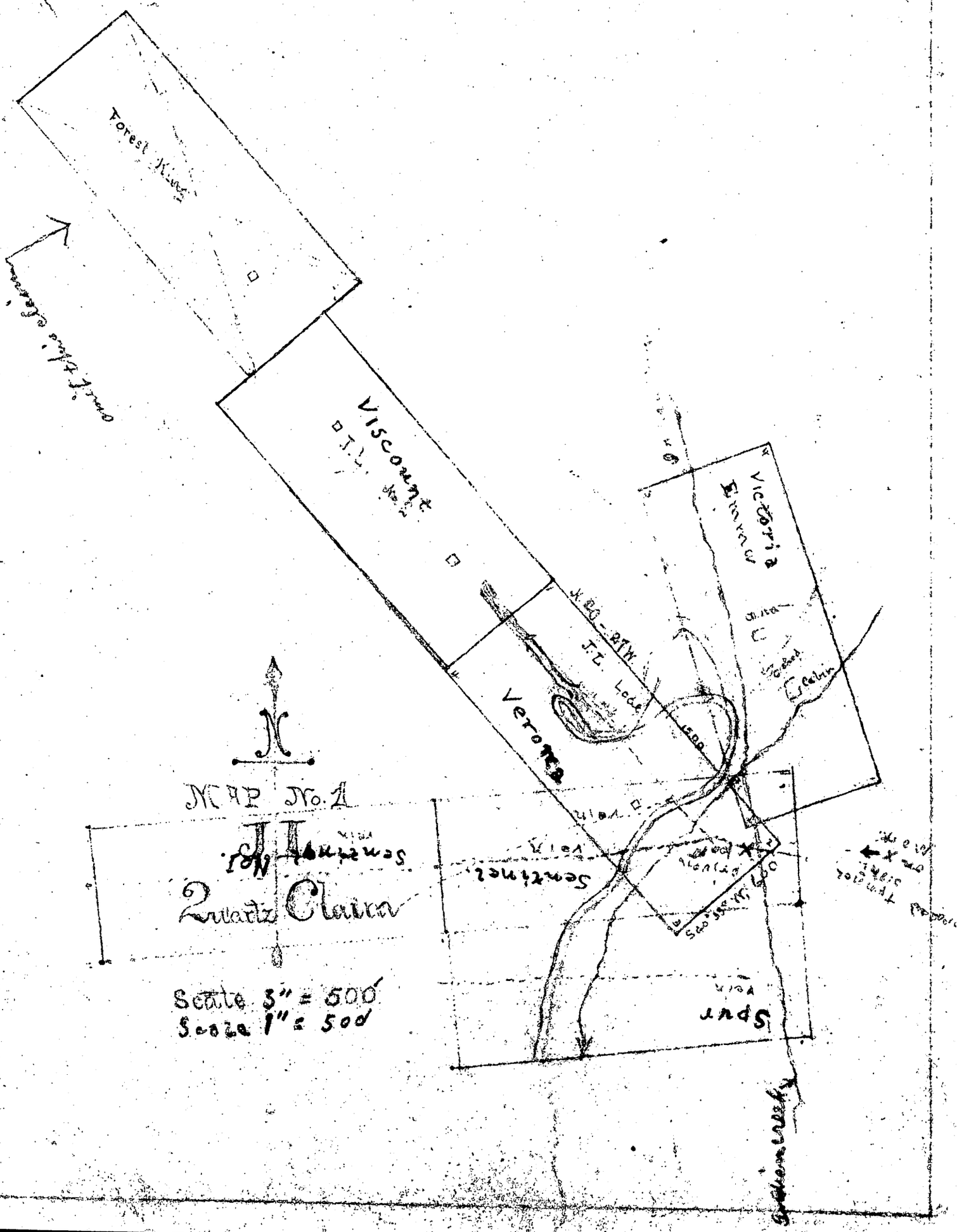
Please omitted Forest King as marked on map
The other claims as they are originally now.



EXTRA COPY
DMEA
RECEIVED NOV 18 1957

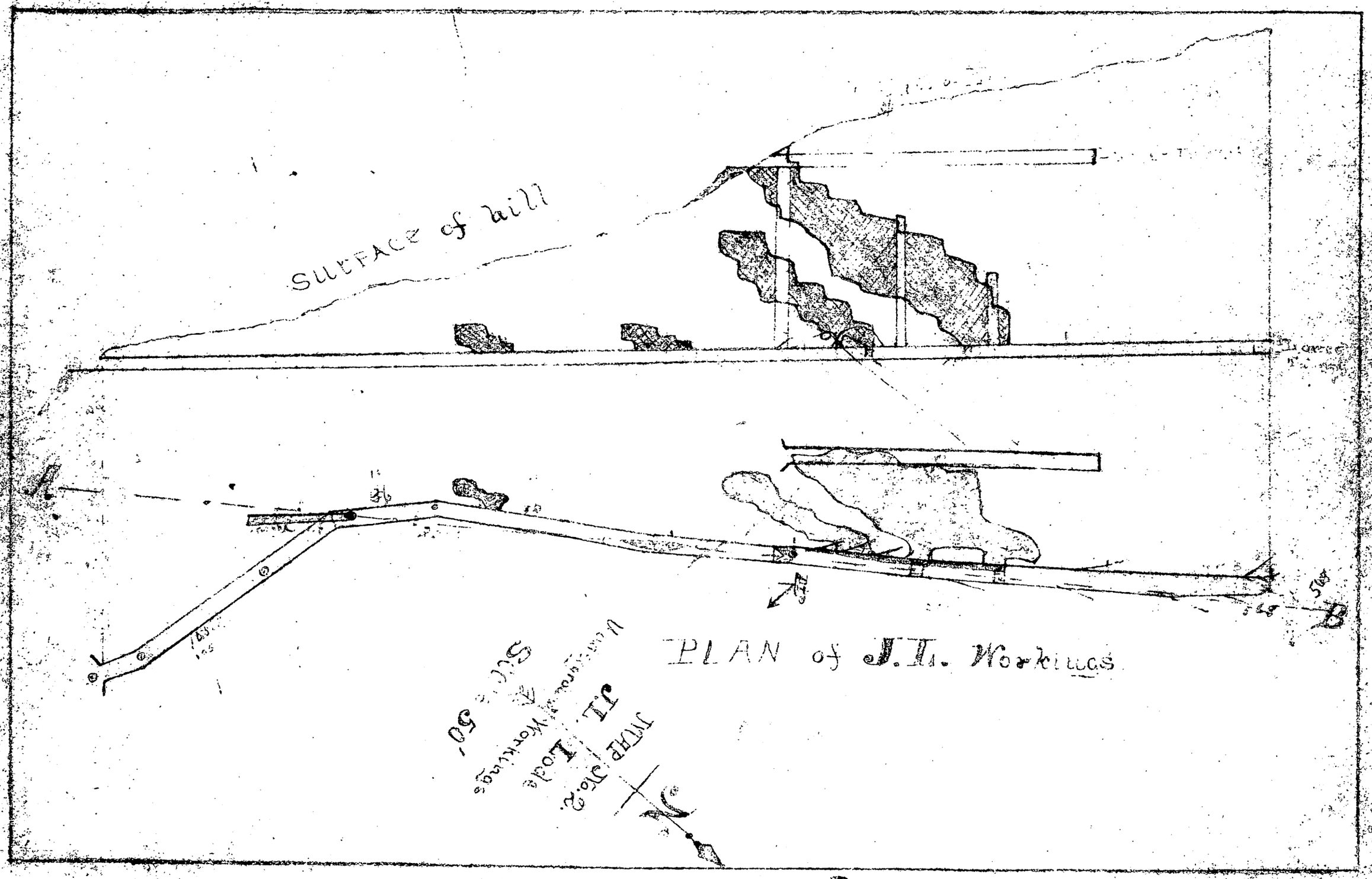
DATE	INITIALS	CODE

I have omitted Forest King as marked on map
The other claims as they are originally now.



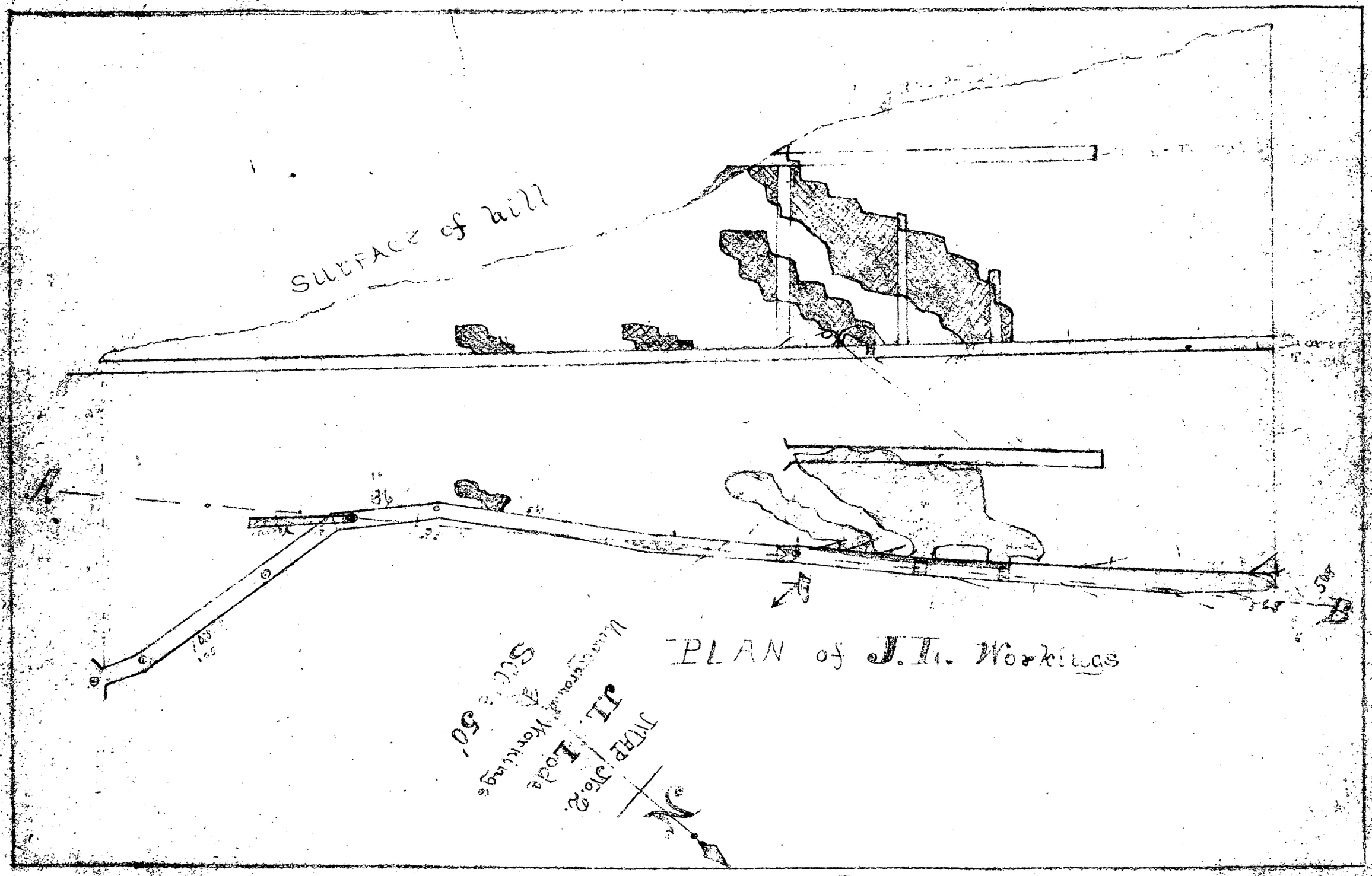
RECEIVED

DATE	NAMES	CODE


SURFACE of hill
A
B
PLAN of J.I. Workings
Scale 50'
J.I. Workings
MAP No 2
J.I. Lode

DOE
RECEIVED NOV 18 1957

DATE	INITIALS	CODE

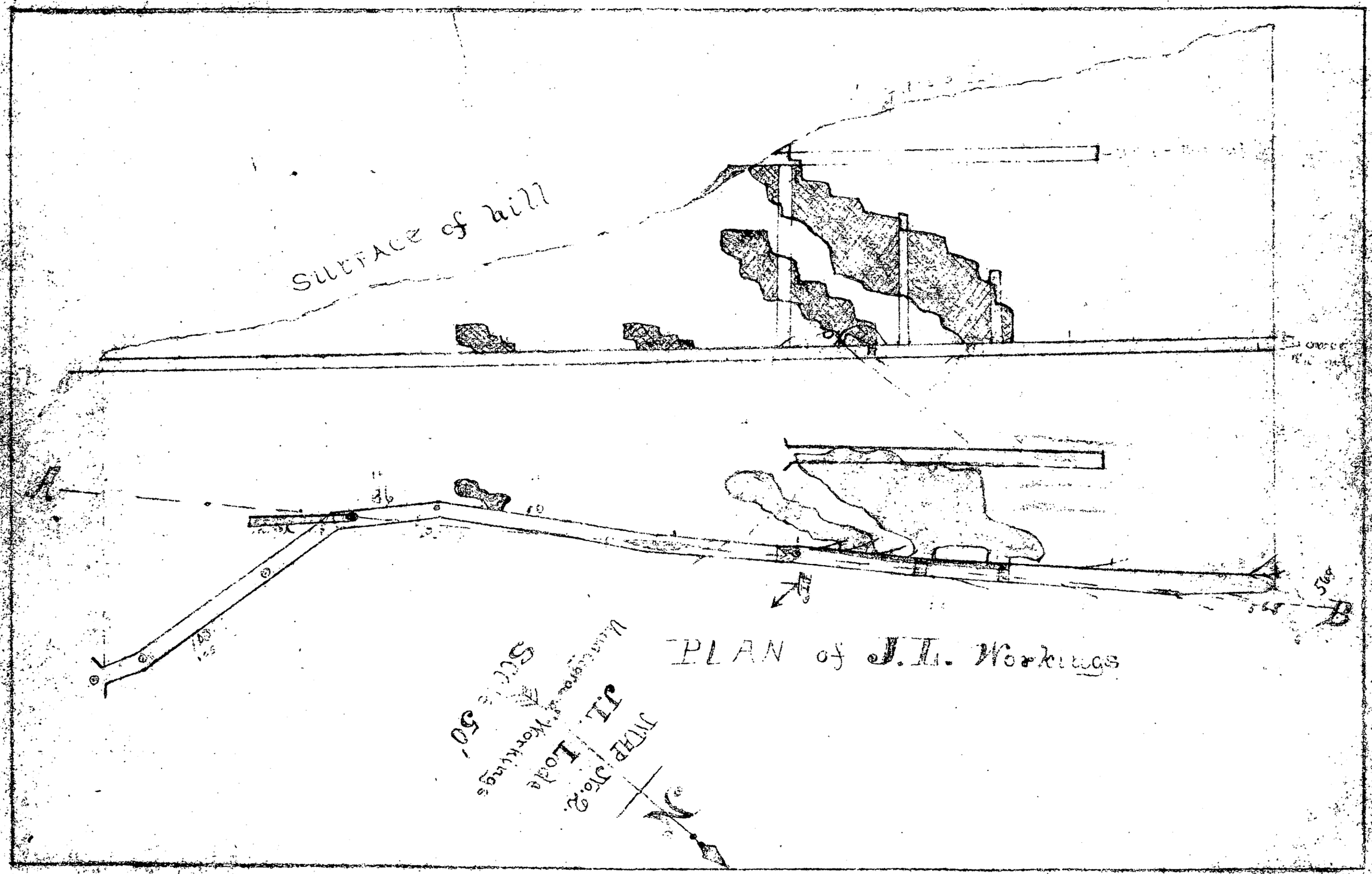

SURFACE of hill
A
B
PLAN of J.H. Workings
Scale 50'
Underground Workings
JH Lode
JTHP No.2
N

[illegible]
[illegible]
[illegible] 1957

DATE	INITIALS	CODE

[redacted]

DATE	INITIALS	CODE


SURFACE of hill
A
B
PLAN of J.I. Workings
Scale 50'
Manager's Workings
J.I. Lode
JTHE No.2

RECEIVED

DATE	INITIALS	CODE

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/24	Klugescheid	500
	[illegible]	500
2/24	Selfridge	130
2/26	Lamb	130
2/26	Kiilsgaard	130
"	Johnson	110
"	Hawkins	100
		220
		225

FEB 27 1958

Mr. Fred P. Schreiner

Townsend, Montana

Re: Docket No. DMEA-4884 (Lead-Zinc-Copper)
Fred P. Schreiner
Sentinel, et al., Claims
(Independent Mine)
Broadwater County, Montana

Dear Mr. Schreiner:

Your application for aid for an exploration project and other data available to us in Washington concerning your application have been reviewed.

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

Careful study of all our information, although noting a small amount of copper-lead-zinc mineralization on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

G. D. Mitscodell (for)

Administrator

WPKlugescheid/er 2/24/58
Copy to: Docket
Adrm R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I (2)
Chron.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/24	Hugeschel	500

February 24, 1958

Memorandum

To: The Administrator

From: Director, Division of Base Metals

Subject: Denial of Applicant, Docket No. DMEA-4884, Fred P. Schreiner, Sentinel, et al., Claims, (Independent Mine), Broadwater County, Montana, Lead-Zinc-Copper.

The cited application, dated November 1, 1957, was received in this office on November 19, 1957.

The Applicant proposed to explore the property by means of 500 feet of drifting and crosscutting at an estimated cost of $19,000.00.

The property was examined by William C. Prinz, Geological Survey, on November 21 and 22, 1957. A light snow had covered most of the surface exposures; however, enough underground work was accessible to permit an evaluation of the deposit.

The Applicant proposed to explore parts of the Sentinel and John L. veins. Accessible exposures of these veins are almost entirely in the oxidized zone. Both veins show some mineralization and some production has been reported from the John L.

Work proposed on the Sentinel vein is not justified because:

1. Mineralization of this vein is weak.

2. The proposed work would be only 26 feet below the existing workings.

8623

The southeastern portions of the John L. vein provide a slightly more attractive target but work here is also not warranted because:

1. Exposures of ore grade material are very limited.

2. Less than 100 feet of back would be provided.

3. The Applicant is unwilling and unable to explore this target by the most direct method.

The most attractive target area, the northwestern part of the John L. vein under the old stopes, also cannot be recommended because the workings in this area are inaccessible and the target area cannot be examined. If opened, perhaps an area warranting winzing or crosscutting would be revealed. Underground exploration here could be preceded by diamond drilling, but the Applicant is financially unable to undertake a drilling program even with DMEA assistance.

The Applicant has apparently only his own labor to contribute to the project.

The examiner recommends that the application be denied, in which the Field Team and the commodity members of the Geological Survey, and the Bureau of Mines concur.

We are in agreement with the above expressed opinions.

W. R. Griswold

W. R. Griswold

WPKlugescheid/er
Copy to: Docket
Admr R File
Chron.

DM
RECEIVED FEB 11 1958
DATE | INITIALS | CODE
2/11 | C | 220
500

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

February 11, 1958

Re: DMEA 4884; Pb-Cu-Zn-Ag
Fred P. Schreiner
Independent Mine
Broadwater County, Montana

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Review of field examination report dated January 28, 1958, received February 5, 1958

The proposed work consists of 500 feet of drifting and crosscutting to intersect the Sentinel and John L. veins and to drift west on the Sentinel vein and northwesterly along the John L. vein.

Inasmuch as existing development on the Sentinel vein, 20 feet vertically above the proposed drift, shows no commercial ore, there is no reason to expect good ore in the proposed drift.

The field examiners note that the John L. vein is a somewhat more attractive target, but combined values in base metals, ore widths and the exploration interval are inadequate to warrant the proposed exploration.

The examining geologist, William C. Prinz points out that a more attractive target area exists beneath old stopes in the upper workings. The applicant is unwilling or unable to open the area, however.

The field examiner and field team recommended the application in its present form be denied. I concur in this opinion.

O. M. Bishop

O. M. Bishop

Copy to: Division of Minerals
Mr. Kiilsgaard
Mr. Lamb
Branch of Base Metals
Files

ORIGINAL FILE COPY
DMEA
RECEIVED FEB 6

IN REPLY REFER TO:

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

2/6	Gy Klerz.	220 500
2/6		

February 5, 1958
Re: DMEA 4884
Fred P. Schreiner
Independent Mine
Broadwater County, Montana
$19,000.00 - Lead, copper, zinc

Memorandum

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

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

Subject: Review of Field Team Report

The applicant requested assistance in continuing the exploration of 2 narrow veins in andesite by crosscutting and drifting. Several small shipments totaling about 300 tons and netting $5,315.51 were made, in part by the applicant, prior to and during 1938, 1939, and 1951. The recorded shipments, as intermittent less than carload lots, ranged in value from $9.41 to $29.75 per ton. The ore came from small ore shoots in the John L. and Sentinal veins. The value of the shipments is not commensurate with the cost of the work required to get the ore.

The examiner found most of the old workings inaccessible and the applicant financially unable and temperamentally unwilling to do the sensible work recommended by the examiner. Therefore the examiner recommends that the application be denied. I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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

2/3 C 220
2/5 2/12 130
2/5 C 220
~~Thing 500~~

January 28, 1958

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

Re: Docket No. DMEA-4884 (Lead-Copper-Zinc-Silver)
Fred P. Schreiner
Independent Mine
Broadwater County, Montana

Dear Mr. Selfridge:

Enclosed are three copies of a Memorandum Examination Report by William C. Prinz, Geologist, U. S. Geological Survey, on the referenced application.

There are two known veins on the property, the John L. which strikes northwesterly and dips 80° easterly, and the Sentinal which strikes easterly and dips vertically to 75° northerly. Incomplete production records from 1907 to 1951 indicate that intermittent operation has resulted in the production of 307.878 short dry tons worth about $15.60 per ton. All of this production has come from the John L. vein.

Prinz concludes that the proposal to explore on the Sentinal vein is not justified. He further concludes that the proposed exploration in the southern part of the John L. vein is not warranted, and points out that although some work might be justified in the northern portion of the John L. vein the applicant is unwilling to open the caved workings for preliminary examination and is financially unable to undertake a diamond drilling program even with DMEA assistance. He therefore recommends that the application be denied.

We concur with this recommendation.

By Field Team, Region I

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

Thomas E. Howard
for Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures
cc: USBM (2)
USGS (SRO)
Prinz

Reviewed by
DMEA OPERATING COMMITTEE
2-5-58
(date)

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 3 1958

DATE	INITIALS	CODE
2/5	JHB	130
		220

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
So. 157 Howard Street
Spokane 4, Washington

January 20, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: William C. Prinz, Geologist, U. S. Geological Survey

Subject: Field Examination Report, Docket No. DMEA-4884 (lead-copper-zinc-silver), Fred P. Schreiner, Independent Mine, Broadwater County, Montana

ON SITE REPORT

INTRODUCTION

An application for DMEA assistance to explore the Independent mine, Broadwater County, Montana for lead, copper, zinc, and silver was received November 4, 1957 from Fred P. Schreiner, Townsend, Montana. The applicant proposes to explore the property by 500 feet of drifting and crosscutting at an estimated cost of $19,000. Government participation at 50 percent would be $9,500.

Because of the lateness of the season, the property was examined by the author without a referral on November 21 and 22, 1957. The applicant, Mr. Schreiner, was present during the examination. A light snow had covered most surface exposures; however, enough underground work was accessible to permit a fair evaluation of the property. Also, surface exposures are probably not too good.

SUMMARY AND RECOMMENDATIONS

On the Independent property, two veins, the northwest-striking John L. and the east-west-striking Sentinal, cut late Cretaceous andesite. Accessible exposures of these veins are almost entirely in the oxidized zone. Both veins show some mineralization and some production has been reported from the John L.

The applicant proposes to explore parts of the Sentinal and John L. veins by 500 feet of crosscutting and drifting. Work on the Sentinal vein is not justified because (1) mineralization on this vein is weak and (2) the proposed work would be only 26 feet

Reviewed by
DMEA OPERATING COMMITTEE
2-5-58
(date)

below the existing workings. The southeastern portions of the John L. vein provide a slightly more attractive target but work here also is not warranted because (1) exposures of ore-grade material are very limited, (2) the proposed work would provide less than 100 feet of back, and (3) the applicant is unwilling and unable to explore this target by the most direct method. The most attractive target area, the northwestern part of the John L. vein under old stoping, also cannot be recommended because workings in this area are inaccessible and the target area cannot be examined. If opened, perhaps a target area warranting a program of winzing or crosscutting would be revealed. If it is impractical to open the old workings, underground exploration work here could be preceded by diamond drilling but the applicant is financially unable to undertake a drilling program even with DMEA assistance.

Therefore, it is recommended that the application be denied.

LOCATION AND ACCESSIBILITY

The Independent (Verona or John L.) mine is 12½ miles by road west of Townsend, Montana in the Indian Creek or Park unorganized mining district. It is in the SW¼ sec. 24 and the NW¼ sec. 25, T. 7 N., R. 1 W., Broadwater County, Montana.

The mine can be reached by passenger car from Townsend, Montana (32 miles southeast of Helena) by going north on U. S. Highway 10N for 1.3 miles; cross the Missouri River and immediately north of the bridge, turn west on Forest Service Road 360 (the Indian Creek road to Hassel). Take the right fork 0.1 mile west of the highway and continue straight past the Crow Creek road south to Radersburg (6.8 miles west of the highway) and past the road west at Hassel to the Eagle Ranger Station (8.6 miles west of the highway). The applicant's cabin is on the west side of the Indian Creek road, 11.1 miles west of Townsend and 2.5 miles north of Hassel. Snow was on the road at the time of the examination; however, the road will probably be kept open all winter as there is a small operating mine a short distance above the applicant's.

APPLICANT

The applicant, Fred P. Schreiner, Townsend, Montana individually owns the claims considered here. He has had experience in small-scale mining operations and has done a good job of tracing out the veins on his property and of locating the surface projection of underground workings even though he doesn't seem to be able to construct or comprehend a good map. He has no mining

equipment except for some mine rail, mine cars, and miscellaneous hand tools. The work currently in progress is being done by pick-and-shovel methods.

The applicant has no funds available for the exploration project. Over the past few years he has been working during the winter at the TB sanitarium in Galen, Montana to obtain sufficient funds to enable him to work at the mine during the summers. Mr. Schreiner noted in his application that he would furnish his share of the cost of the project by "other" but did not specify what he meant by other. During the examination, I questioned him on this point and he said that he would furnish his share of the cost by labor alone unless he could interest a man from a nearby property in coming to the Independent mine to work. This man owns a compressor and some other mining equipment but has no definite commitment with the applicant.

PROPERTY RIGHTS

The applicant controls by location, six unpatented quartz lode claims. According to the applicant, these claims are recorded in the Broadwater County, Montana Recorders Office as follows:

Claim	Book	Page
Sentinal	21	549
Sentinal No. 1	21	550
Verona	21	148
Victoria	21	149
Viscount	21	150
Spur	19	183

Some of the claims are shown by two names on the map submitted with the application. These claims were originally held jointly by the applicant and his sister, but his sister would not participate in the assessment work. The applicant gave his share of these claims to his sister, who did not keep up the assessment work; consequently, the claims lapsed by default and were restaked by the applicant.

DESCRIPTION OF PROPERTY

The Independent mine lies along the west side of the valley of Indian Creek at altitudes ranging from about 5,800 to 6,500 feet. The slopes are steep and are bare except for a few small patches of timber.

Numerous small underground workings are found on the property. The oldest and most extensive are two adits with some stoping along the John L. vein in the upper portions of the property (see northwestern part of pl. 1). These adits were driven at least 50 years ago, and the lower of the two was reopened by the applicant in the late 30's. Both are now inaccessible. Southeast of here, the applicant drove a short crosscut to the John L. vein at an altitude of 6,360 feet, drifted 85 feet on the vein, sunk a 33-foot winze, and drifted 20 feet northwest from the bottom of the winze. The winze and 45 feet of drifting are now inaccessible. To the southeast, the applicant sunk a 40-foot shaft on the John L. vein, but this shaft is also inaccessible. To the northeast, the applicant started a crosscut westward to intersect the John L. vein at an elevation of 6,251 feet, but he had to abandon this work because the rock was too hard for his pick-and-shovel methods. This crosscut is now inaccessible but the applicant reported that its face was 210 feet from the vein. Most recent work at the property, and work currently in progress, consists of driving a drift westerly along the east-west-striking Sentinal vein at an altitude of 6,289 feet. This drift was started as a crosscut to intersect the John L. vein.

With his application, Mr. Schreiner submitted smelter settlement sheets showing production from the property from January 1907 through November 1951. How much ore was produced before 1907 is unknown; none has been produced sine 1951. These settlement sheets are summarized in Table 1. Ore shipped from the upper workings from 1907 through 1912 by Tom and Fick McCormack, former operators, totaled 230.631 SDT averaging 0.495 ounce gold and 14.19 ounces silver per ton, 9.29 percent lead, 6.27 percent zinc, and 2.93 percent copper. The applicant reopened the lower adit of the upper workings in the late 30's and in 1938 and 1939 shipped 73.2065 SDT averaging 0.521 ounce gold and 9.40 ounces silver per ton, 11.0 percent lead, 13.75 percent zinc, and 0.23 percent copper. In the fall of 1951 he shipped 3.2405 SDT of ore from the southeastern end of the drift in the 6360 adit. This ore contained 0.820 ounce gold and 1.2 ounces silver per ton, no lead or zinc, and only a trace of copper.

Table 1.--Summary of settlement sheets submitted with application.

Ore from John L. (Independent) mine sold to American Smelting and Refining Co., East Helena Plant

Date	Weight SDT	Au Oz./ton	Ag Oz./ton	Pb Percent	Zn 1/ Percent	Cu Percent	Value/ton	Total settlement 2/
1/27/07	24.0075	0.52	16.8	3.0	9.5	5.4	$17.09	$410.29 (386.04)
4/19/07	23.284	0.32	15.7	17.3	16.5	2.4	16.24	378.13
5/ 4/07	23.895	0.33	18.5	25.6	10.6	1.8	23.88	570.61
6/27/07	16.3745	0.48	21.5	27.2	--	0.9	27.40	448.66
10/ 9/07	20.742	0.53	8.4	6.5	5.8	0.7	11.02	228.58 (214.91)
12/27/07	25.1955	0.62	18.7	4.4	11.6	4.8	16.72	421.27 (395.82)
3/13/08	20.8765	0.45	18.5	8.0	6.0	5.7	19.94	416.28 (402.91)
3/ 4/08	23.6315	0.57	6.1	Tr	3.4	1.3	9.41	222.37 (207.45)
3/29/08	24.136	0.50	11.1	--	1.0	3.9	13.53	326.56 (311.32)
9/ 8/08	22.364	0.50	8.9	--	0.0	3.2	11.72	262.11 (247.99)
3/26/12	6.1245	0.96	5.5	12.8	0.0	--	20.66	126.53 (119.53)
11/15/38	15.841	0.43	8.8	10.8	2.4	0.01	18.71	296.39 (289.32)
11/23/38	23.9335	0.59	7.30	--	--	--	21.48	514.09
4/15/39	18.826	0.495	9.9	17.5	1.3	0.60	24.84	467.64 (445.20)
11/ 7/39	14.606	0.57	11.6	15.9	1.8	0.30	29.75	434.53 (382.87)
11/19/51	3.2405	0.820	1.2	0.0	0.0	0.02	19.27	62.44 (0.64)

1/ Zinc content brought penalty.
2/ Figure in () is settlement after freight deductions. On other shipments, freight included in treatment charges.

GEOLOGY

The geology of the Indian Creek mining district has been described in a general way in the following publications:

Pardee, J. T. and Schrader, F. C., 1933, Metalliferous deposits of the greater Helena mining region, Montana: U. S. Geol. Survey, Bull. 842.

Corry, A. V., 1933, Some gold deposits of Broadwater, Beaverhead, Phillips, and Fergus Counties, Montana: Mont. Bur. Mines and Geology, Mem. 10.

Reed, G. C., 1951, Mines and mineral deposits (except fuels) Broadway County, Montana: U. S. Bur. Mines, Inf. Circ. 7592.

The district is underlain mainly by late Cretaceous gray to greenish black andesitic tuffs, breccias, and equigranular or porphyritic lavas, which have been intruded by late Cretaceous or Tertiary quartz monzonite stocks. The stocks are probably satellitic to the Boulder batholith which lies about 10 miles to the west. A series of northwest-trending faults with a maximum displacement of about 1,000 feet traverse the area.

The claims are underlain primarily by dark gray, equigranular or porphyritic andesite. Two veins are exposed in the accessible workings on the property, the northwest-striking John L. vein and the east-west-striking Sentinal. Several other veins were mapped by the applicant; however, they are not exposed in the underground workings and, because of snow cover, they could not be traced on the surface at the time of the examination.

The main vein on the property, the John L., strikes N. 40° W. and dips steeply to the northeast. This vein is exposed in the drift in the 6360 adit but there is not much back over these workings and the vein here is highly oxidized. It consists mainly of an irregular zone of gouge and altered wall rock heavily stained with limonite (fig. 1). In the southeastern part of these workings, the vein is more regular and consists of a limonitic siliceous boxworklike material with a sharp, gouge hanging wall. Unfortunately, all of the workings on this vein below the oxidized zone are inaccessible; however, some idea of the tenor of ore it yielded can be obtained from production records (11/19/51, Table 1). The southeastern extension of the vein toward the 6289 adit is not known with certainty. The vein is tentatively shown (pl. 1) swinging eastward and connecting with a series of northwest-striking, vertical-dipping gouge seams 20 to 35 feet west of the portal of the 6289 adit. However, the possibility of this vein intersection occurring west of the present face of the 6289 adit has not been disproved.

The Sentinal vein, as exposed in the 6289 adit (fig. 2), strikes N. 80°-85° E. and dips 68°-85° N., and is from 1 to 3½ feet wide. It has a regular gouge footwall and an irregular hanging wall. Throughout most of the adit, it is similar to the oxidized John L. vein, consisting mainly of irregular streaks of gouge in altered wall rock, all heavily stained by limonite. At the breast of this adit, some streaks of pyrite and galena are exposed at the sill; the back is still in oxidized material. To the east, this vein apparently ends near the northwest-striking gouge seams which have been tentatively correlated with the John L. vein.

The results of assays of five samples collected during the examination are shown on the accompanying maps and are tabulated below:

Sample No.	Width	Ozs. Au/ton	Ozs. Ag/ton	% Pb	% Zn	% Cu
823	25"	.060	0.04	0.90	0.30	0.06
824	36"	.009	0.04	0.13	Tr	0.06
825	grab	.135	0.80	2.10	Tr	0.04
826	11"	.340	0.26	0.19	Tr	0.04
827	grab	.495	2.45	7.20	Tr	0.04

Sample 823 is from the sulfide portion of the Sentinal vein at the breast of the 6289 adit, 824 is from an oxidized portion of this vein, 825 is a grab sample from a limonite-rich pod in the 6289 adit, and 827 is from the applicant's ore bin at the portal of this adit. Samples representative of the total width of the vein do not show commercial values; those from the small limonitic pod and from the ore bin are somewhat better. It is estimated, however, that the ore bin contains under 50 pounds of rock. Sample 826 is from the limonitic siliceous boxwork portion of the John L. vein in the southeastern part of the 6360 adit, the locality from which the applicant mined his 1951 shipment.

APPLICANT'S PROPOSAL

The applicant proposes to explore the property by 500 feet of crosscutting and drifting from a point about 70 feet east-southeast of, and 26 feet below, the portal of the 6289 adit. He plans to crosscut westerly to intersect the Sentinal and John L. veins and to drift westerly along the Sentinal vein below the 6289 adit and northwesterly along the John L. vein to get below the 6360 adit. The Operator is vague about his proposal in his application and questioning during the examination failed to get a clearer statement. He proposes to carry his workings 4 feet by 6 feet as he feels 5 feet by 7 feet is unnecessary.

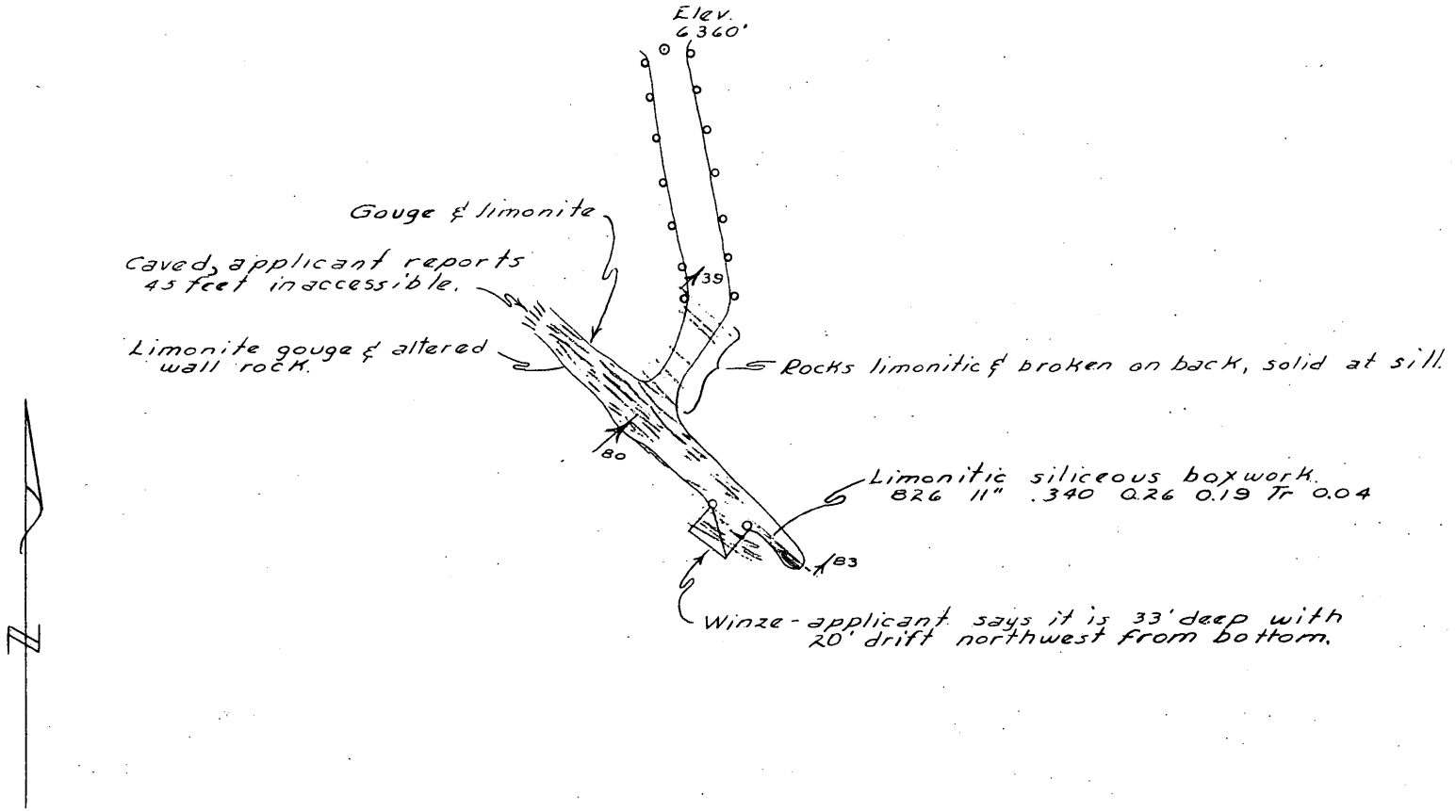
The drifting on the Sentinal vein is not justified. This vein does not show commercial values in the 6289 adit and, in a drop of only 26 feet, not much improvement would be expected.

The drift northwest on the John L. vein provides a slightly more attractive target, but still not good enough to justify a program. Also, the proposed drift, although it would be 97 feet below the level of the 6360 adit, would only be 53 feet below the bottom of the 40-foot shaft southeast of the adit and 64 feet below the bottom of the winze in the adit. In addition, some uncertainty exists as to the position of the John L. vein in the 6289 adit and a problem would arise as to where to start this drifting. Should the John L. vein here warrant additional work, the shortest way to reach this objective would be from the 6251 crosscut northeast of the adit. This work would require only 210 feet of crosscutting preceded of course by rehabilitation, and would provide 12 more feet of back. The applicant, however, stated that he would not be agreeable to this work.

The most promising exploration target on the property would be to get below the old stopes in the upper workings, but even this area cannot be favorably considered until the upper workings are made accessible and more can be learned of the target area. If it is impractical to open the old workings, perhaps underground work here could be preceded by diamond drilling but the applicant is not in a financial position to undertake a drilling program.

Attachments

Distribution:
DMEA (3)
USBM (2)
USGS (SRO)
Docket
Prinz



Assay Plan
Sample No. Width, ozs Au/ton, ozs Ag/ton, % Pb, % Zn, % Cu.
* Applicants assays.

GEOLOGIC MAP
6360 ADIT

INDEPENDENT MINE

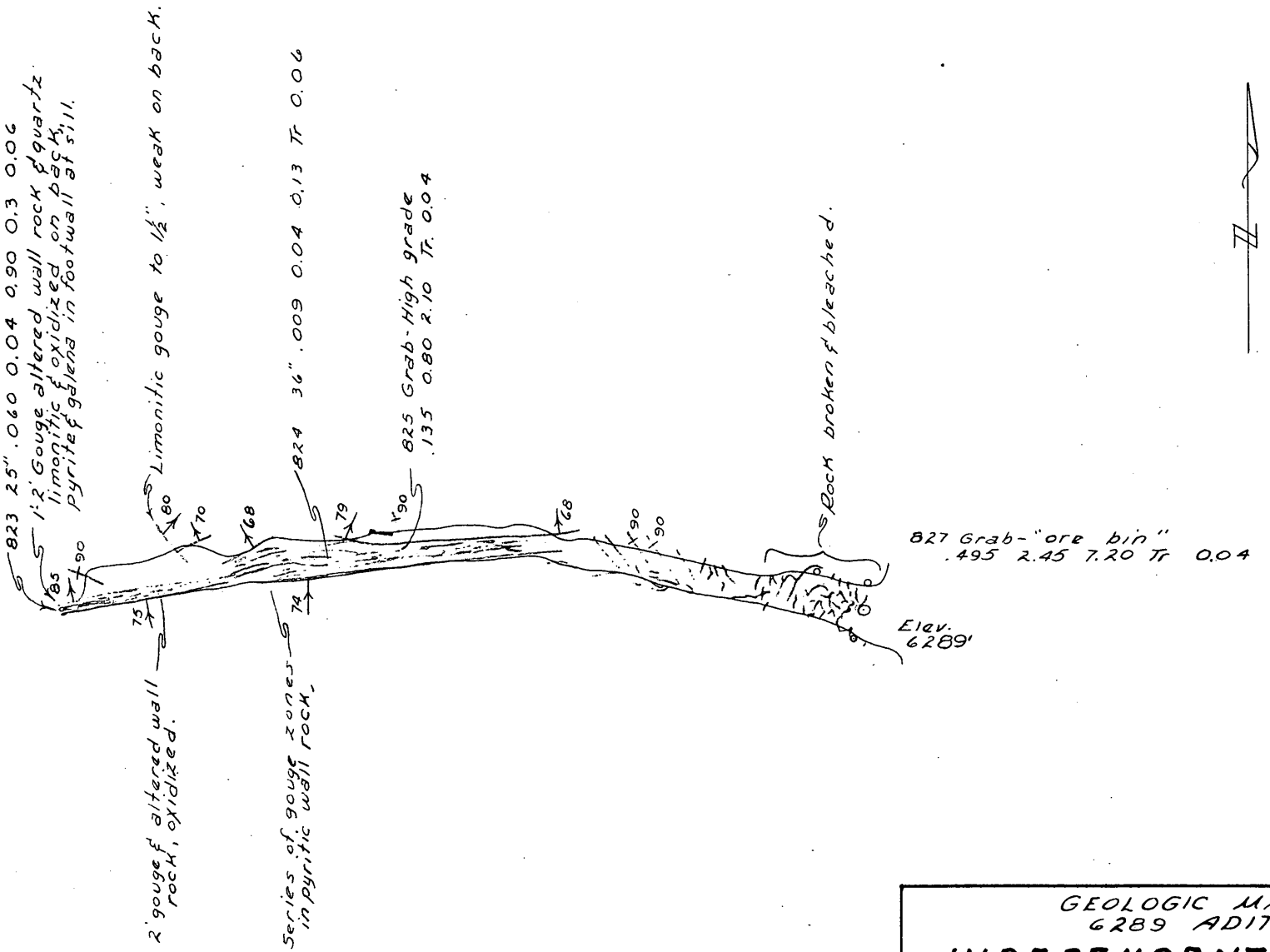
Broadwater County, Montana

0 10 20 40 feet.

W.C. Prinz

Tape & brunton survey by
W.C. Prinz. November 1957

Figure 1



Assay Plan
Sample No. Width, ozs Au/ton, ozs Ag/ton, % Pb, % Zn, % Cu
* Applicants assays.

GEOLOGIC MAP
6289 ADIT

INDEPENDENT MINE

Broadwater County, Montana

0 10 20 40 FEET

W.C. Prinz

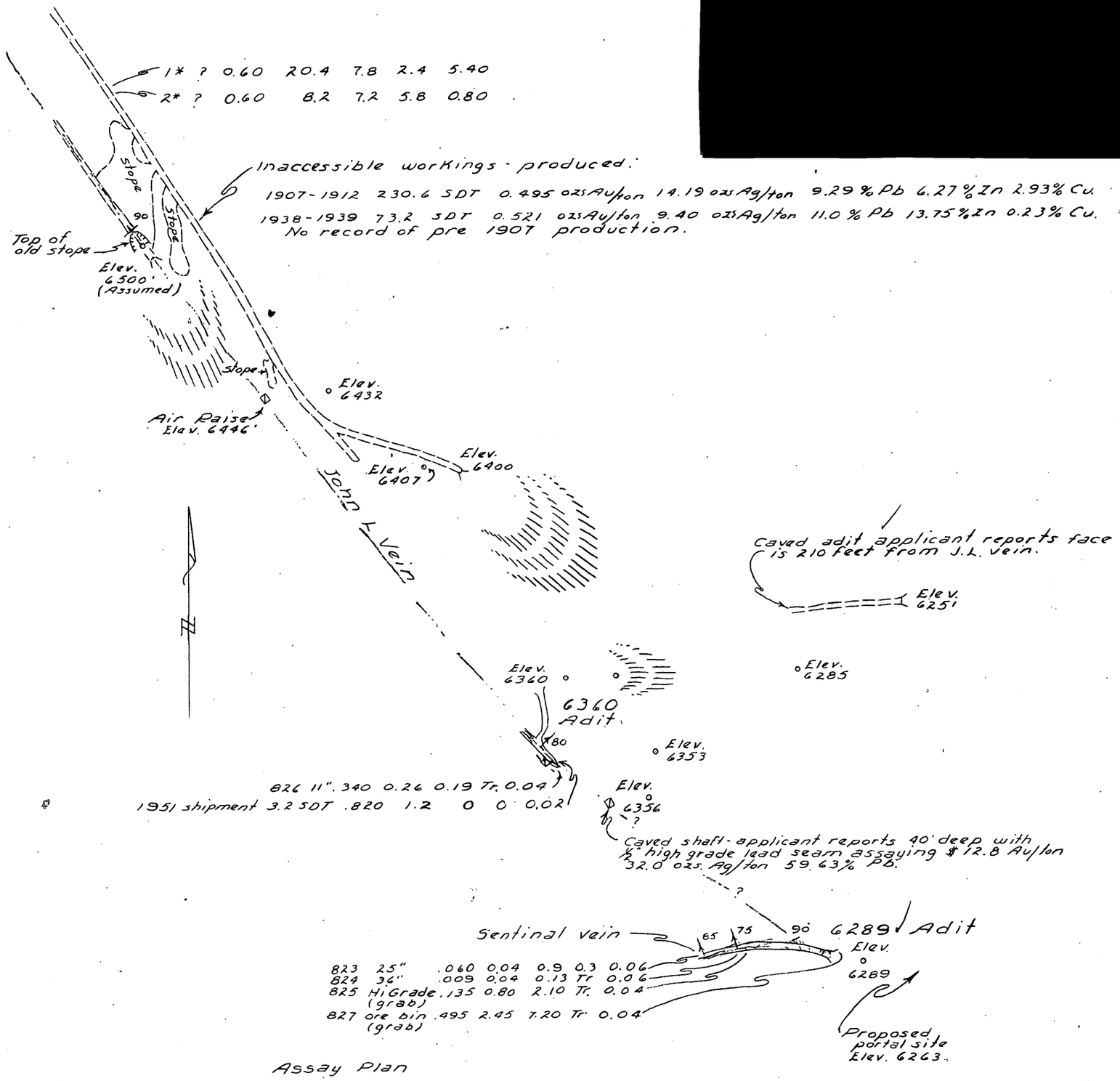
Tape & brunton survey by
W.C. Prinz, November 1957

Figure 2

UNITED STATES
DEPARTMENT OF THE INTERIOR

PREPARED FOR
DEFENSE MINERALS EXPLORATION
APPLICATION REPORT

[redacted]



Assay Plan

Sample No. Width, ozs Au/ton, ozs Ag/ton, % Pb, % Zn, % Cu

*Applicant's assays.

Generalized Map

INDEPENDENT MINE

Broadwater County, Montana

0 50 100 200 feet

W. C. Prinz

Tape & brunton survey by W.C. Prinz November 1957

Plate 1

RECEIVED
FEB 3 1958
D.M.E.A.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/18	Klugescheid	500
		500
12/18	Selbyedge	130
12/18	Lamb	130
12/18	Nelson	130
"	Johnson	110
"	Christenson	100
		~~HB~~
12/14	C	220
		500

DEC 18 1957

Mr. Fred P. Schreiner

Townsend, Montana

Re: Docket No. DMEA-4884 (Lead-Zinc-Copper)
Fred P. Schreiner
Sentinel, et al., Claims (Independent Mine)
Broadwater County, Montana

Dear Mr. Schreiner:

Your application for Government assistance to explore the cited property has been reviewed by the Division of Base Metals of the Defense Minerals Exploration Administration.

We note that Mr. William C. Prinz of the Regional Office, in a letter dated November 15, 1957, has communicated to you his plans for making a field examination. When we receive the report of this examination, we will advise you of our decision.

Sincerely yours,

C. O. Mittendorf

Administrator

WPKlugescheid/er 12/17 &18/57
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I (2)
Chron.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/17	Klugescheid	500
	Bishop	500
		130
		130
		130
		110
		100
		HB
		220
		500

500

Mr. Fred P. Shreiner

Townsend, Montana

Re: Docket No. DMEA-4884 (Lead-Zinc-Copper)
Fred P. Shreiner
Sentinel et al. Claims
Broadwater County, Montana

Dear Mr. Shreiner:

Your application for Government assistance to explore the cited property has been reviewed by the Division of Base Metals of the Defense Minerals Exploration Administration. ~~and has been referred to:~~

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

~~The Regional Office has already communicated its plans for making an examination of the property to you. Any assistance that you may give the members of the Field Team during the examination will be appreciated.~~

Sincerely yours,

Administrator

WPKlugescheid/er 12/17/57
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region I (2)
Chron.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/17	Klugescheid	500
	Biswell	500
12/18	GCS	130
"	Johnson	110
"	Mittendorf	100
		~~HB~~
		220
		500

500

DEC 18 1957

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

Re: Docket No. DMEA-4884 (Lead-Zinc-Copper)
Fred P. Schreiner
Sentinel et al., Claims (Independent Mine)
Broadwater County, Montana

Dear Mr. Weissenborn:

The cited application for exploration assistance has been reviewed and we will hold it in abeyance until your office has submitted its on-site report of the property.

The application is so poorly executed that, should the property be favorably considered by the Field Team, the costs would have to be detailed and all lacking data would have to be supplied. It would be well to be sure that the proposed tunnel be driven at sufficient depth so that, should any discovery be made, it would be worth while. Be sure that sampling and assaying costs are included, and that supervision is not excessive.

Copies of memoranda, dated December 5 and 12, 1957, by N. E. Nelson, Geological Survey, and O. M. Bishop, Bureau of Mines, respectively, relating to the project, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures
APPROVED:

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

N. E. Nelson (GCS)
Member, Geological Survey

WPKlugescheid/er 12/17/57
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

8623

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 13 1957

	INITIALS	
12/13	gb	220
12/13	[illegible]	600

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

December 12, 1957

Re: DMEA 4884; Pb-Zn-Cu; $19,000
Fred P. Shreiner
Sentinal Group
Broadwater County, Montana

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Review of application dated November 1, 1957 and received by DMEA November 18, 1957

The applicant proposes 500 feet of initial crosscut and drift to cut the John L, the N.S., the Sentinal and Sentinal I veins with a second 500 feet for drifting if the John L vein is found or warrants the work.

Apart from a record of shipments there are no data whatever by which to evaluate the veins. I recommend field referral with field examination to check the merit of the area, the veins and the proposed exploration.

O. M. Bishop

O. M. Bishop

cc: Division of Minerals
Mr. Kiilsgaard
Mr. Lamb
Mr. Bishop
F I L E S

IN REPLY REFER TO:

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

12/5 C 220
12/6 Klug - 500

December 5, 1957
Re: DMEA 4884
Fred P. Schreiner
Sentinal Group
Broadwater County, Montana
$19,000.00 - Lead, copper, zinc

Memorandum

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

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

Subject: Review of application

In an incomplete document the applicant requests assistance in a project consisting of 500 feet of crosscutting and drifting. The estimated cost of the 4 x 6 crosscut and drifts is $38.00 per foot.

On a map that accompanys the application, 3 veins seem to be involved, Sentinal, Sentinal I and John L. Several shipments were made by the applicant prior to and in 1938, 1939 and 1951.

Referral of the application to the Field Team is recommended although an examination has been planned.

N. E. Nelson

N. E. Nelson

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

November 19, 1957

Mr. Fred P. Schreiner
Townsend, Montana

Dear Mr. Schreiner:

Subject: DMEA-4884

Your application for exploration assistance, dated November 1, 1957 submitted to our office at Spokane, Washington has been assigned Docket Number DMEA-4884 and referred to the Base Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region I

RECEIVED NOV 18 1957
DATE | INITIALS | CODE

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

November 15, 1957

Mr. Fred P. Schreiner
Townsend, Montana

Re: New Application (Lead-Copper-Zinc-Silver)
Independent Mine
Broadwater County, Montana

Dear Mr. Schreiner:

Your application for DMEA assistance in exploring the Independent (Verona) mine has been given to me for inspection. Mr. Galen Waddell, Mining Engineer, U. S. Bureau of Mines and I will be in Montana the week of November 18, 1957 and we would like to talk to you and to examine your property if it is accessible. We plan to stay in Townsend, Tuesday evening, November 19, and we will contact you then to make arrangements for a meeting and possible mine examination on the next day, Wednesday, November 20.

Sincerely yours,

William C. Prinz
Geologist

cc: DMEA (2)
USBM (2)
Prinz