Hecha appln.

RECEIVED
JUN 9 1933
DIVISION

Kicks appln.

1 2 3 4 5 6 7 8 9 10 11 12
ASSEMBLY
6
Jr

Hicks Appl.

RECEIVED
JUN 6 1958
D.M.E.A.

Re: Claim Map

Details of Costs and Materials

Comp. 360 c.f.M — Rental $6,750 — $11,000 cost

Hoist ~~[illegible]~~ - 3 ton — ~~$5,000~~ $3,600

mucking machine — ~~$3,400~~ cost $3,150

Air Receiver 4 x 12 270

Jack leg drill

All rentals would be expensive and a waste of money.

Here will is what, (ways) how many & how much. Explain equipment and labor may not be enough.

Drifting costs too high

DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 5049

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- [ ] Withdrawn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 Completed 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
- [ ] 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
So. 157 Howard Street
Spokane 4, Washington

DMEA
RECEIVED JUN 9 1958

June 6, 1958

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

Re: New Application (Copper-Bismuth)
Lee, William, and Jack Hicks
Montreal Star
Jefferson County, Montana

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application to explore for copper and bismuth in Jefferson County, Montana. Only one copy each of the supporting data was received, which are enclosed. Copies were made for our files. The applicant requests the return of all supporting data when it has served its purpose.

It is proposed to deepen an existing shaft 100 feet and to drift 300 feet from the bottom of the shaft at a total estimated cost of $65,527.

A field examination will be scheduled for the week of June 9, 1958.

Sincerely yours,

A. E. Weissenborn

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

Enclosures

cc: USBM (2)
Prinz

So. 157 Howard Street
Spokane 4, Washington

June 4, 1958

Mr. Lee Hicks
1123½ Maryland Avenue
Butte, Montana

Re: New Application (Copper-Bismuth)
Lee, William and Jack Hicks
Montreal Star
Jefferson County, Montana

Dear Mr. Hicks:

Your application for DMEA assistance to explore the Montreal Star mine has been turned over to me for field examination. I expect to be in the Butte area late next week (June 13, 14 or 15) and would like to examine your property at that time. I cannot give you a definite date at this time but will telephone you next week to make the final arrangements.

If possible, I would like to have you, or a representative from your partnership, accompany me during the examination.

Sincerely yours,

William C. Prinz
Geologist

cc: DMEA (2)
USBM (2)
Prinz

D 17 K 11

28 May, 1945
Butte, Montana

[illegible] Department of the Interior
Defense Minerals [illegible]
D.M.E.A. Field Office
U.S. Bureau of Mines
Spokane, Washington

Dear Sir:

This letter [illegible] an application for aid in an effort [illegible] in copper and zinc areas. The format used [illegible] followed as closely as possible as [illegible] of the Farm [illegible]. The information [illegible] to the best of my knowledge and ability. Upon request any further information will be submitted to you or the nearest D.M.E.A. representative.

Your consideration of [illegible] will be gratefully appreciated.

Very truly Yours,

[illegible] Williams and Jack M. [illegible]
[illegible] Maryland ave.
Butte, Montana

Form MF-103
Revised Oct. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR

Budget Bureau No. 42-R1035.3
Approval expires June 30, 1958

DEFENSE MINERALS EXPLORATION ADMINISTRATION

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed)

Lee, William, and Jack Hicks
1123½ Maryland Ave.
Butte, Montana

RECEIVED
JUN 9 JUN 2 1958
U. S. G. S.
SPOKANE, WASH.

APPLICANT NOT TO USE THIS BLOCK

Docket Number	DMEA-5029
Date Received	6-9-58
Government Participation %	
Region	I
Division Code	500

BUSINESS ORGANIZATION (Check one)

- Individual [ ]
- Corporation [ ]
- Partnership [x]
- Other (Specify) [ ]

State in which firm is organized: Montana

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Lee Hicks	1123½ Maryland Ave.	
William Hicks	Butte, Montana	
Jack Hicks	Butte, Montana	

Mineral(s) for which you wish to explore: Copper and Bismuth

Estimated Cost of Project: $ 65,527.00

LOCATION OF PROPERTY

Name	County	State
Montreal Star	Jefferson	Montana

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Revised, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

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.

28 May, 1958
Dated

Lee Hicks
BY *(Signature)*

Title

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

(a) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:*

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in 2*(a)*.

(c) State, as far as you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *property boundaries* or to the closest identifiable corner.

(b) If an access road to the project must be built, show the location on the property map and state the length, type, and construction methods proposed.

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. *(Note* – If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. For necessary supervision, engineering, and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant, which will be used on the exploration project.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration project stating specifications and cost including labor, materials and supervision.

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

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)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Revised.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-DUP. SEC., WASH., D.C. 25960

ORIGINAL FILE COPY
DMEA
RECEIVED JUN 9 1958
DATE

1. Applicants Property Rights

(a) The property consists of three unpatented claims located in section 4, T.4N., R. 7 W. Jefferson County,Montana. The unpatented claims are known as follows:

The Golden Gate Lode Mining Claim, located by Louis A. Gagnier on May 4, 1933. The Notice of Location which is recorded in Book 43 of Lode Locations, at page 495 and Book 44 of Lode Locations at page 423, Records of Jefferson County, Montana at Boulder, M Montana. Amended notice of location recorded in Book 47 of Lode Locations at page 70. Amended notice recorded in Book 44 at page 423.

The Lag Lode Mining Claim located by Louis A. Gagnier on May 4, 1933, recorded in Book 43 of Lode Locations at page 496 and Book 44 of Lode Locations at page 424, Amended Notice recorded in Book 47 of Lode Locations

ap page 71 and reamended and recorded in Book 44, page 424 in Jefferson County, Montana, court house at Boulder, Montana.

The Montreal Star Lode Mining Claim located by Louis A. Gagnier on May 4, 1933, the notice of Location recorded in Book 43 of Lode Locations at page 494 and Book 44 of Lode Locations at page 422. Amended Notice of Location in Book 47 of Lode Locations at page 69 and amended notice in Book 44 page 422 at Jefferson County, Montana Court House in Boulder, Montana.

1.(b) The three unpatented Lode Claims, the Montreal Star, Golden Gate and Lag Lode Claims are known as the Montreal Star Mine.

1.(c) The lessess are known as Lee Hicks, William Hicks, and Jack Hicks of Butte, Montana. The lease runs for a period of 25 years from the year 1955 to the year 1980. A copy of the lease is attached.

The owners of this property are Godfrey Gagnier and Renamay Bessette of 515 E. Third Street, Anaconda, Montana.

1.(d) There are no liens or mortgages or other

encumberances on this property.

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DMEA
RECEIVED JUN 9 1958
DATE INITIALS CODE

2. Physical Description

(a) Sketches of the mining operations are enclosed and listed in red letters as A and B. The Montreal Star claim ~~ahs~~ has a 100 foot shaft as shown below with log hoist house in figures 1a, 1b, 1c, and 1d.

At the base of this shaft approximately 225 feet of crosscuts have been developed. A second adit driven to a series of three veins as shown on sketch c in relation to the main shaft as shown above is located on the Golden Gate claim. However, the portal to the adit is on the Montreal claim. The sketch by Bielenberg made in 1942 is enclosed as sketch C. The portal to this adit is shown below in figure 2.

Figure 2

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DMEA
RECEIVED JUN 9 1958
DATE INITIALS CODE

2 (b) The lessees have intermittently operated and developed this property since 1938.

2 (c) Approximately 2000 tons of ore were produced from this mine and one load shipped to the East Helena, Montana Smelter of the American Smelting and Refining Co. (A. S. & R.) and the remainder to the Washoe sampler in Butte, Montana, operated by the Anaconda Mining Company.

2 (d) The reserves are indeterminable since the vein has been crosscut by a fault. Proper exploration to determine where the fault has been offset and some exploration of depth would be required. Assay data and smelter statements are attached.

2 (e) The ore veins are in a quartz monzonite locally known as Butte Granite. These veins have an EAst on West Strike and dip approximately 80 degrees South. The vein near the bottom of the main shaft is approximately 7 feet wide and contains copper, bismuth, gold and silver. The area was examined by Donald M. Pinckney of the Dept. of the Interior and also by Montis Klepper of the U. S. Geological Survey now assistant chief of the survey in Washington D. C. when they were conducting a current mapping program of the

Boulder Batholith. The vein at the main workings has been faulted and offset. The fault reworked part of the vein when it transected the vein by its movements. The reworked vein material gave a false lead of ore, presumably in the wrong direction. A sketch to the best of our abilty is enclosed and marked A. The other 4 veins set on the Golden Gate claims and have been explored to a certain extent as shown on sketch B & C.

2 (f) Ore is in evidence on one side of the fault, surface traces may be observed and the mine Produced approximately 2000 tons. The vein has a definite strike and dip where exposed on one side of the fault. Copies of assay certificates are enclosed.

2 (g) Please return all data at your convenience.

3. Accessibility of Project

(a) The person who will be available to meet the D. M.E.A representative will be

Lee Hicks
1123½ Maryland
Butte, Montana

The property may be reached by driving from Butte, Montana north toward Helena, Montana, on Highway 91 approximately a distance of ten miles. Then turn west on a county road marked Boy Scout Camp for a distance of three miles. The area is shown by a red circle on a Deerlodge National Forest Map which is enclosed. The mine is approximately ½ mile off the county road and accessible on a dirt road all of which may be traversed by automobile.

3 (b) Shipping points would be Butte, Montana, a distance of Approximately 13 miles by raod. The employees would reside in Butte a shown on the Deerlodge Forest Service map attached.

4. The Exploration Project

(a) It is proposed that the existing shaft on the Montreal Star should be deepened by another 100 feet in order to circumvent the fault zone and explore the veins with a little more depth.

Then from the bottom of the shaft a 300 foot drift (5x7 feet inside) to the veins on the Golden Gate property with a series of crosscuts off this main drift to attempt to pick up the ore vein again which has been faulted out in the main workings near the main shaft, estimating a 50 foot crosscut to attempt to pick up the veins at three regular intervals off the main exploratory drift.

4(b) An access road is already available and may be repaired with a dozer as well as cleared of snow in winter.

4(c) In the event an exploration contract with D. M. E.A. is executed, work will commence within 20 days to extend shaft another 100 feet at an average of one foot per day or for a total of 100 days. It is estimated that it would take approximately 160 days to complete a 300 foot drift and 150 foot of cross cutting. The drifting and crosscutting would average approximately three feet per day on a (5x7) inside heading. Allowing for 20 work days per month and making allowances for weather conditions in this country, the total time would require 18 months.

5. Experience

The lessees have had the following amount of ex-

perience in mining:

Lee Hicks 40 Years (Mining and shift boss in Utah)

Jack Hicks 35 Years (20 Years shift boss at Leonard Mine in Butte for Anaconda Co.)

Bill Hicks 10 Years Mining

6. Estimate of Costs

6 (a) No independent contract.

(b) Personal services.

One engineer	12 days	40/day	$480.00
One helper	12 days	20/day	240.00

Labor

Hoist man	20/day
2 Miners	44/day
1 dump man	18/day

Labor Shaft sinking 100 feet at a rate of 1 foot per day or $82.00 per day for 2 miners, one dump man, one hoist man for a total of $8200.00

$82/foot

Labor for drifting and crosscutting for a total of 450 feet at anaverage of 3 feet per day at $82.00 per day for a total of 160 days $13,120.00

Labor to repair gallus frame

2 days - 2 men $18.00 day each $72.00

Labor to construct 2 buildings each 20 x 25 feet for two men at $18.00 per day each at $36.00 per day for a period of 12 days $432.00

Labor to replace hoist motor

2 days, 2 men at $18.00 per day each $72.00

Mount Receiver on Concrete base

2 days 2 men at $18.00 per day each $72.00

Labor to repair existing shaft

3 days for 3 men at $22.00 per day each $198.00

The personnel for this operation are available at Butte, Montana.

6 (c) Operating Materials and Supplies

Attached sheets show itemized cost of material for 5 foot shaft set and 5 foot drift set. The drift set on the basis of 5x7 feet inside and shaft regular 4½ x 9 inside. Costs are based on local costs at Butte, Montana.

Total for materials to sink shaft loo feet $5060.00

Total for material for 450 feet of drift and crosscut $10.620.00

6 (d) Operating Equipment

Three ton hoist rental $200.00 per month for 18 months $3600.00

Compressor 360 c. ft. rental $375.00 month for 18 months $6750.00

	Eimco Mucking Mchine	
	$175.00 month rental for 18 months	$3150.00
	Air Receiver Tank	
	4 x 12 $10.00 - $15.00 per month for 18 months	270.00
	Jack Leg (Gardiner Denver)	? 980.00
	3 Mine cars $60.00 Each	180.00
	New Motor for hoist reconditioned	200.00
6 (d)	Quotations form Butte Machinery	
	Cage cost	450.00
	#5 Sinker air pump, Rental and repairs for 18 months at $70.00 per month	1260.00
	Sump Pump - $70.00 month rental for 18 months	1260.00
	#60 Cleatrac - Dozer (used)	2000.00
	56 Jeep with winch Willys Co. Butte, Montana	2400.00
	Air Hoist rental $60.00 per month for 18 months	480.00
	Jack Hammer for sinking (new)	260.00

6 (d)	Sinking Buckets 2 at $50.00 each	$100.00
	Cable at 49 cents ft. 3/4 inch cable -300 foot	147.00
6 (e)	Initial rehabilitation and repairs	
	One shaft set on existing shaft near bottom	250.00
	Material to repari Gallus Frame	100.00
6 (f)	New Buildings	
	2 buildings 20 x 25 feet Material cost each $862.00 See attached detailed estimate for hoist house and compressor shach	1724.00
6 (g)	Repairs for 18 months	800.00
	Analytical work Control assays on veins encountered	200.00
	Accounting	400.00
7 (a)	The lessees are prepared to furnish his portion of cost.	
(b)	Use of the equipment owned by the lessees and labor.	

Material Cost for 5 Foot of Shaft

5 Foot Shaft timber etc- 5' center to center

$125.00 -------	1' shaft timers (8x8)
2.80 ------	1' shaft ladder
12.00 ------	set hanging rods
.40-------	shaft washers
16.00 --------	Powder
4.50 ------	Fuse
1.00-------	Caps
12.50 ------	Blocks and wedges
2.00 ------	1" pipe
3.50 ------	2" Pipe
7.00 -------	3"Pipe
14.00 -------	Fan Bag
7.50 ------	Electric Cable
9.00 -------	Guides and Lagg Screws
4.00 ------	Bats and steel
32.00 -------	A day gas and power
$253.20	

5) 253.20 materials
50.64
82.00
132.64
x machinery Rental
Too High

Material Cost for 5' of Drift

$15.00 ------	Drift set- 2 posts- 2 girts - 1 cap
10.00 -----	2 & 3" Lag.
2.00 -----	1" Pipe & Fittings
3.50 ------	2" Pipe and Fittings
14.00 ------	Fan Bag
2.50 ------	Blocks and Wedges
1.00 -----	Safety String
9.50--------	Rails and Fish Plates
7.50 - --------	Trach spikes ties and Bolts
15.00 ---------	Powder
4.50 --------	Fuse
1.00 --------	Caps
24.00 ---------	Power, Lightsand Gas
4.75 ---------	Switch and Switch Bed
4.00 ---------	Bits and Steel
$118.25	

3/82/27

5/118.25
23.65
27
$50.65

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O. M. E.
RECEIVED AUG 28 1959

DATE	INITIALS	CODE
8-28	gad	220
		170
8/31	~~[illegible]~~	500
		225

denied

So. 137 Howard Street
Spokane 4, Washington
August 25, 1959

Mr. Lee Hicks
1034 California
Butte, Montana

Re: Docket No. DMEA-5049 (Copper)
Lee, William, and Jack Hicks
Montreal Star Mine
Jefferson County, Montana

Dear Mr. Hicks:

According to our records the maps which you submitted with your DMEA application were returned to you from our Washington, D. C. office on March 17, 1959. I regret that we are not permitted to send you copies of the map made by our field examiner or of the assays of the samples that were taken during the examination.

Sincerely yours,

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

cc: [illegible](2) w/cys incoming
J. M(2) do.

OFFICIAL FILE COPY
RECEIVED
DATE

C O P Y C O P Y

1034 California

Butte, Mont.

Aug. 22nd, 1959

U. S. Dept. of the Interior

Dear Sirs:

Would it be possible for you to send me the Geological and Assay Maps of the Montreal Star Mine for my copy files.

The Vitrol Mining Co. is interested and Mr. Snyder will contact you and I would appreciate any help you can give him on the geology or assay maps on the Montreal Star Mine.

Mr. Pinkerton was one of the men that looked over the property.

Thank you,

/s/ LEE HICKS
1034 California
Butte, Mont.

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 28 1959

DATE	INITIALS	CODE
8-28	gad	220
		~~120~~
		500
		225

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
3/17	Klugscheid	500
	Williams	500
3/17	Selfridge	120
		110
		100
3/20		225

Mr. Lee Hicks, Partner
1123½ Maryland Avenue
Butte, Montana

Re: Docket No. DMEA- 5049 (Copper)
Lee, William, and Jack Hicks
Montreal Star Mine
Jefferson County, Montana

Dear Mr. Hicks:

According to your request, we are returning the data sheets to you which you submitted with the cited application.

The material we are returning is as follows:

1 War Production Board Preference Rating Certificate.

1 Copy of Lease and Agreement (9 pages)

1 Lumber estimate.

Anaconda Copper Mining Company -- Washoe Sampler.

Lot #3815	2 copies
Lot #3471	2 copies
Lot #3102	2 copies
Lot #4428	1 copy

American Smelting & Refining Company -- East Helena Plant.

Lot #1422	1 copy

43683

American Smelting & Refining Company -- Tacoma Smelter.

1 Assay sheet

United States Smelting, Refining & Mining Company

2 Assay Certificates

The Anaconda Company -- 2 hand sample sheets.

Lewis & Walker -- 1 assay sheet.

McCarthy Laboratories -- 1 assay sheet.

1 Map -- Sketch B

1 Map -- Sketch A

1 Map -- Deerlodge National Forest.

1 Map -- Sketch C

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Director

Enclosures

WPKlugescheid/er 3/17/59
Copy to: Docket
Dir Read File
Region 1 (2)
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8/22	Klugscheid	500
8/22	Jiarnal	500
8/22	[illegible]	130
8/22	Yates	130
8/22	Nelson	130
"	Johnson	110
"	Mittendorf	100
		320
		500

AUG 22 1958

Mr. Lee Hicks, Partner
1123½ Maryland Avenue
Butte, Montana

Re: Docket No. DMEA-5049 (Copper)
Lee, William, and Jack Hicks
Montreal Star Mine
Jefferson County, Montana

Dear Mr. Hicks:

We regret that we were unable to completely process your application for exploration aid prior to June 30, 1958, the termination date for approving new contracts, as announced by the enclosed copy of a news release of June 6, 1958.

However, had the processing been completed, we would have been unable to approve a project based upon the information available to us in Washington concerning your property.

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

WPK/dl 8-22-58
cc to: Docket
Admr. R. File
Oper. Comm.
FT. REG. I
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Chron.

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
1201 N. Division St.
Spokane 2, Washington

February 27, 1959

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O. M. E.
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DATE	INITIALS	CODE
3/2	C	220
		500

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

Re: Docket No. DMEA-5049 (copper)
Lee, William, and Jack Hicks
Montreal Star Mine
Jefferson County, Montana

Dear Mr. Selfridge:

The applicant under the subject docket has requested that the data supplied with his application of May 28, 1958 be returned to him. You will note on page 8 of the application that he states, "Please return all data at your convenience."

Thank you.

Sincerely yours,

Wing G. Agnew

Wing G. Agnew, Member
OME Field Team, Region I

cc: USGS (2)

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

November 4, 1958

Memorandum

To: W. R. Griswold, Office of Minerals Exploration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of Examination Report, Docket No. DMEA 5049 (copper) Lee, William, and Jack Hicks, Montreal Star Mine, Jefferson County, Montana $65,527

Analyses of samples taken by the Examiners and assay data on shipments show that the copper mineralization is below ore grade. Accordingly the Examiners recommend that the application be denied. I concur in this recommendation.

A. D. McMahon

A. D. McMahon

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

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DATE	INITIALS	
11/4	C	220
~~11/5~~	~~KCay~~	~~500~~
		225

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
October 24, 1958

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O. M. E.
RECEIVED OCT 28 1958

DATE	INITIALS	CODE
10/28	C	220
10/31		130
10/31		220
		500
		200

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

Re: Docket No. DMEA-5049 (Copper)
Lee, William, and Jack Hicks
Montreal Star Mine
Jefferson County, Montana

Dear Mr. Selfridge:

Enclosed are three copies of a memorandum examination report on this application by William C. Prinz, Geologist, U. S. Geological Survey.

At the Montreal Star mine late Cretaceous, quartz monzonite of the Boulder batholith is cut by several shear zones that are partly filled with pyrite-, chalcopyrite-, marcasite-, and bornite-bearing quartz. From assay data and from the grades of several shipments, Prinz concludes that some marginal grade silver ore may be found at the property but that the amount of copper would be well below ore grade. He therefore recommends that the application be denied.

We concur with these conclusions and recommendations.

This is the last application examination report to be sent in on applications received under the Defense Minerals Exploration Administration's program.

By Field Team, Region I

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

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

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

Reviewed by
OME OPERATING COMMITTEE
10-31-58
(date)

DMEA

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 28 1958

DATE	INITIALS	CODE
10/31	HB	130
		220

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration
So. 157 Howard Street
Spokane 4, Washington
October 23, 1958

MEMORANDUM

To: OME Field Team, Region I

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

Subject: Application Examination Report, Docket No. DMEA-5049 (Copper), Lee, William, and Jack Hicks, Montreal Star Mine, Jefferson County, Montana

INTRODUCTION

An application for DMEA assistance to explore the Montreal Star mine, Jefferson County, Montana, for copper and bismuth was received June 2, 1958, from Lee, William, and Jack Hicks, partners. The applicants propose to explore the property by deepening an existing shaft 100 feet, drifting 300 feet, and crosscutting 150 feet. They estimate that the program would cost $65,527; Government participation at 50 percent would be $32,763.50.

The property was examined on June 16, 1958, accompanied by Lee Hicks, one of the applicants, Keith Rush, financial backer, Harry Smedes, Geologist, U. S. Geological Survey, and Walter Ackerman, Geologist, Montana Bureau of Mines and Geology.

ON SITE REPORT.

SUMMARY AND RECOMMENDATIONS

The Montreal Star lies within the late Cretaceous, quartz monzonitic Boulder batholith in an area where it has been cut by several shear zones that are partly filled with pyrite-, chalcopyrite-, marcasite-, and bornite-bearing quartz. Assay data and the grades of several shipments indicate that some marginal grade silver ore may be found at the property but that the amounts of copper and bismuth would be well below ore grade.

Therefore, it is recommended that this application be denied.

Reviewed by
OME OPERATING COMMITTEE
10-31-58
(date)

LOCATION AND ACCESSIBILITY

The Montreal Star mine is 10½ miles by road north of Butte in the SW¼ sec. 3, T. 4 N., R. 7 W., Jefferson County, Montana (fig. 1). It is easily accessible by passenger car by taking U. S. Highway 91 northeasterly from Butte. At 7.2 miles from the edge of Butte, turn left (west) on the Lovland Creek Road; continue for 2.9 miles then turn left again. Keep left past the applicants' cabin which is 0.1 mile from the Lovland Creek Road and continue for 0.3 mile to the mine. The Lovland Creek Road is an all-weather road thereby permitting year-around operation at the mine with a minimum of snow removal during the winter.

The mine is at an altitude of about 6,800 feet on the moderately steep slopes 2 miles northeast of the Continental Divide.

APPLICANTS

Lee, William, and Jack Hicks, 1123½ Maryland Avenue, Butte, Montana, are partners in the operation of the mine considered in this application. All have had considerable experience in practical mining and would be well suited to carry out that phase of the exploration program. Although their finances appear to be limited, they have been able to operate the mine sporadically for the last 20 years. The applicants propose to furnish their share of the cost of the exploration by use of equipment and by labor.

PROPERTY

Ownership

The Montreal Star mine consists of three unpatented quartz lode claims which, according to the applicant, are recorded in the Jefferson County Courthouse, Boulder, Montana, as follows:

Claim		Book	Page
Montreal Star		43	494
do.		44	422
do.	(amended)	47	69
Golden Gate		43	495
do.		44	423
do.	(amended)	47	70
Lag Lode		43	496
do.		44	424
do.	(amended)	47	71

The property is owned by Godfroy Gagnier and Romeny Bessette, Anaconda, Montana, and has been leased to the applicants for a period of 25 years ending on January 31, 1980.

Development

The Montreal Star mine has been developed mainly through a shaft and an adit. The shaft is 100 feet deep, two compartment, with 200 feet of accessible and about 50 feet of inaccessible workings from the 100-foot level (pl. 1). A small area above the drift southwest from the shaft has been stoped up about 5 to 10 feet. The shaft is serviced by a gasoline powered hoist housed in a small log building. All equipment necessary for exploration is at the shaft and is ready for almost immediate use.

The accessible portions of the adit consist of 400 feet of crosscutting and 120 feet of drifting with a small stope above the main drift west. A winze, reported to be 60 feet deep with some drifting at a 30-foot level, was sunk below the stope. This winze is now filled with water. There are no usable mine facilities at or in the adit.

The applicants have bulldozed several trenches, but they are now badly sloughed.

History and production

The claims comprising the Montreal Star mine were located in 1933 and the mine has been worked intermittently by the applicants as lessees since 1938. The applicants claim to have produced 2,000 tons of ore from the mine; 157.417 tons of which is substantiated by smelter settlement sheets as follows:

Date	Weight (SDT)	Au oz./ton	Ag oz./ton	% Cu
11/15/40	45.7785	0.025	7.4	2.30
4/24/42	37.460	0.025	10.5	0.56
5/18/42	27.1315	0.025	11.5	0.62
6/10/42	30.588	0.030	12.7	--
7/ 2/42	16.459	0.03	12.2	0.07
Totals and weighted averages	157.417	0.027	10.4	0.87

The 1940 shipment is from a small stope above the winze in the adit and the first 1942 shipment is from the 100 level of the shaft. The remainder of the shipments were made from the winze off the adit.

GEOLOGY

The Montreal Star mine lies in the Boulder batholith about 8 miles north of Butte, Montana. The Boulder batholith is late Cretaceous in age, is intrusive into the Elkhorn Mountain volcanics (upper Cretaceous), and is overlain unconformably by Tertiary volcanics. The batholith is composed mainly of quartz monzonite or granodiorite with common late dikes or blebs of alaskite.

The quartz monzonite at the Montreal Star mine is cut by several east- to northeast-striking, near vertical-dipping veins (pl. 1). These veins are 1- to 7-foot wide shear zones that have been partly filled with quartz. They consist mainly of gray to greenish gray gouge and white to gray, fine-grained vein quartz with some pyrite, chalcopyrite, marcasite, and bornite. Two veins are exposed in the adit and the applicants state that they found two more to the south. One vein is exposed in the 100 level drift southwest and the applicants claim to have found another in the drift northeast beyond the caved area.

Some of the quartz monzonite found on the 100 level consists of angular to subangular boulders of relatively fresh quartz monzonite set in a friable, in places almost "sandy," matrix of altered quartz monzonite. In some places, minor amounts of sulfides, mainly pyrite, are scattered through the altered quartz monzonite. Although the applicants believe that these boulders may represent a major fault zone, they may simply be the result of alteration by hydrothermal solutions as suggested by Weed (Geology and ore deposits of the Butte district, Montana: U. S. Geol. Survey Prof. Paper 74, p. 54 and pl. 6A).

Available assays of samples from the property are tabulated below; those from DMEA sources are so prefixed.

Sample No.	Width	Au Oz./ton	Ag Oz./ton	% Cu	% Bi
DMEA-994	27"	0.02	3.7	1.40	0.119
DMEA-995	Grab	0.03	6.6	1.98	0.150
DMEA-501B	2'	0.02	0.8	0.22	0.027
DMEA-502B	Grab	Tr	Tr	0.04	None
DMEA-503B	Grab	0.03	7.5	1.64	0.380
DMEA-505B	Sel. Dump	0.04	55.6	5.22	2.13
DMEA-506B	Sel. Dump	0.04	29.6	3.38	0.84
1	?	0.01	7.2	1.59	0.56
2	?	0.06	1.9	0.67	0.84
3	?	0.01	1.9	0.40	0.33
Crude HS	?	0.03	1.6	0.03	0.006
#3 HS	?	0.115	67.4	0.65	0.273
#6 HS	?	0.02	9.2	1.03	0.047
#9 HS	?	0.015	9.2	1.15	0.049
#12 HS	?	0.125	70.2	0.70	0.395
HS	?	0.02	19.4	6.73	0.93
None	?	0.26	18.40	?	?

DMEA Samples No. 994 and 995 and the applicants' Sample No. 1 are from the 100 level drift southwest; both 994 and 1 are from the back of the stope on this level. The applicant selected the material for Sample No. DMEA-506B from the dump and claims that it came from the 100 level drift northeast beyond the cave. The applicants' unnumbered sample is also reported to have come from this area. DMEA Samples No. 501B and 502B and the applicants' Samples HS and No. 3 are from the adit drift west in the vicinity of the winze and DMEA Sample No. 503B and the applicants' Sample No. 2 are from the back of the stope above

the vinze. One of the applicants collected Sample No. DMEA-503B for me across what he called a bismuth-rich zone. The remainder of the applicants' samples, Crude #5 and #3 #5 through #12 #5, were collected down the now inaccessible vinze and Sample No. DMEA-503B is a selected dump sample of material the applicant said came from the vinze.

Assay data coupled with the known grade of several shipments (History and production section) indicate that the mine may be capable of producing some marginal grade silver ore but that the amounts of copper and bismuth would be somewhat below ore grade.

APPLICANTS' PROPOSAL

The applicants propose to deepen the existing shaft 100 feet and to drift 300 feet westerly from the bottom of the shaft and to drive three 50-foot crosscuts from the drift. They estimate that this program, including a minor amount of initial repair, would cost approximately $65,527.

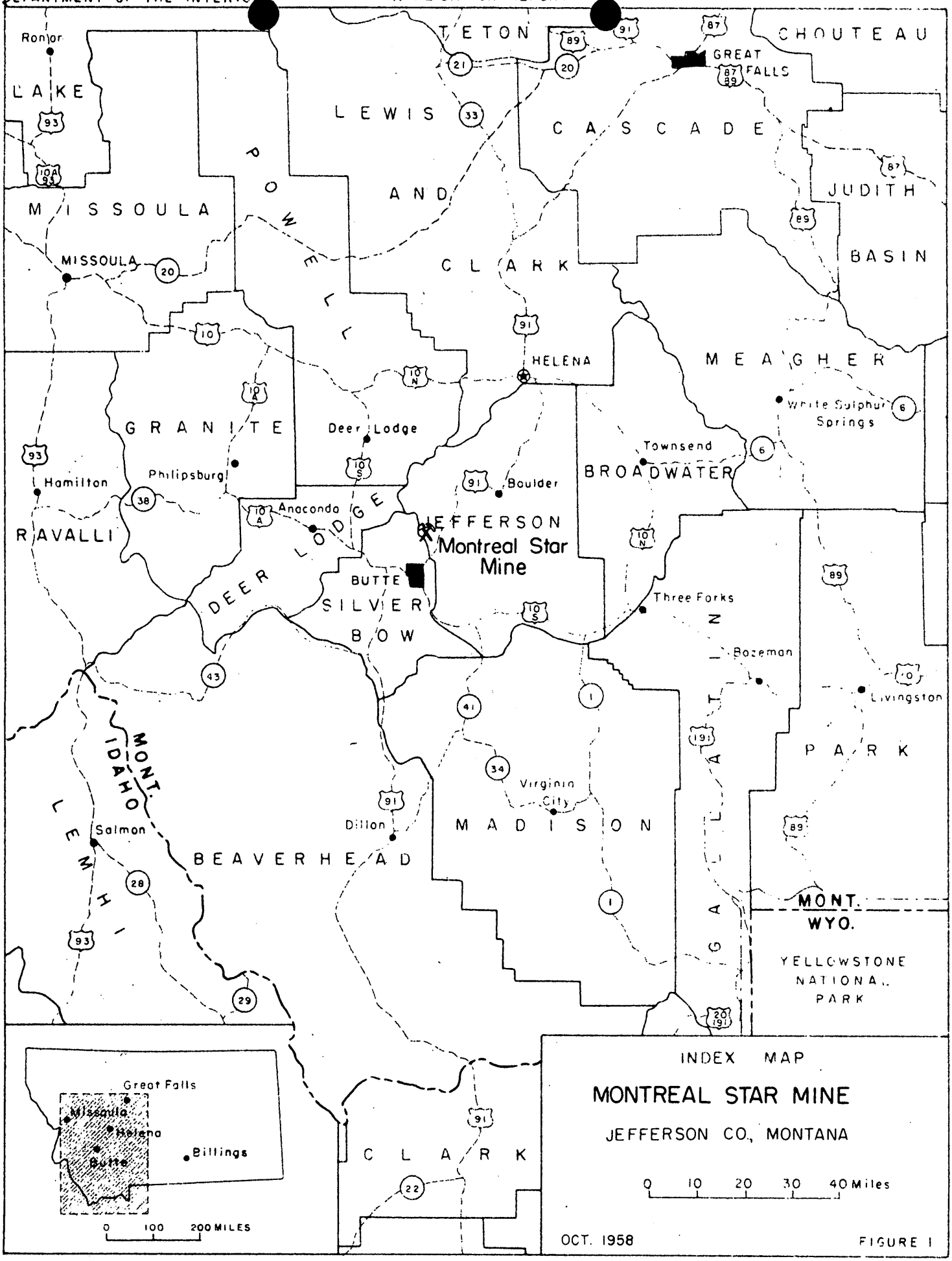
Should more work at the property be warranted, deepening the shaft 100 feet as suggested by the applicants would be wise because further work on the present 100 level to the west would lead to the area explored by the old vinze and work to the northeast would soon reach the surface. From the bottom of the deepened shaft, I believe it would be wise to first crosscut to explore the veins across their strike, then drift westerly on the strongest one. The parallel veins could then be tested by long holes or by diamond drilling.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
APPLICATION REPORT

DOCKET NO. DMEA 5049



OCT. 1958

FIGURE 1

AXXXXXXX-130K

AXXXXXXX-131K

AXXXXXXX-132K

AXXXXXXX-133K

AXXXXXXX-134K

AXXXXXXX-135K

AXXXXXXX-136K

AXXXXXXX-137K

XDXXXXXX-138K

YWA135 WAF SP 14 I-GS-G

SPOKANE WASH 8-15-58 1515U

MR. GEORGE C. SELFRIDGE, CHAIRMAN OPERATING COMMITTEE

DMEA

DEPT OF INTERIOR WASHN 25 DC

FIELD TEAM WILL RECOMMEND DENIAL OF ALL APPLICATIONS LISTED IN YOUR TELETYPE AUGUST 15 HOWEVER DENIAL OF HOWARD BANKS APPLICATION (DMEA 5030) IS RECOMMENDED WITHOUT PREJUDICE SHOULD PROGRAM BE EXTENDED PENDING EXAMINATION OF OLD WORKINGS NOT ACCESSIBLE BY JULY 1 BUT SINCE OPENED.

A. E. WEISSENBORN, EXECUTIVE OFFICER

DMEA FIELD TEAM REGION L

15 5030 1

VA 1517U

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

AUG 15 1958

Department of Interior

DMEA - Base Metals Division
14X1401(01)
Revolving Fund, Defense
Production Act, Interior,
(Transfer to Office of Secy.)

T E L E T Y P E

TO: MR. A. L. [illegible], EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION 1
SOUTH 157 HOWARD STREET
SPOKANE 4, WASHINGTON

IT IS OUR UNDERSTANDING THAT YOUR OFFICE IS PREPARING REPORTS COVERING THE FOLLOWING BASE METAL APPLICATIONS:

DMEA 4927 TIDAL WAVE MINING, INC.

DMEA 5001 WILLIAM ALBERT HALL

~~DMEA 5016 METAL [illegible] MINING CO.~~ Report rec'd.

DMEA 5030 HOWARD C. BANKS

DMEA 5045 CLARENCE E. GILBERT

DMEA 5047 CHEMICAL COPPER CO.

DMEA 5049 HANNAH AND JACK RACES

PLEASE ADVISE US BY TELETYPE AS TO WHICH OF THE ABOVE YOU ARE CONSIDERING DENIAL.

George C. Selfridge
CHAIRMAN, OPERATING COMMITTEE

WRO/dl 8-15-58
cc to: Dockets (7) Chron.
Admr. R. File Conf. to Reg 1
Oper. Comm.

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[illegible] Room 647	RUN / STOP		RUN / STOP
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L. G. Houk 4451 Interior	RUN / STOP		RUN / STOP
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6/16 C 220
6/17 Clay 500

IN REPLY REFER TO:

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

June 13, 1958
Re: DMEA 5049
Lee, William and Jack Hicks
Montreal Star
Jefferson County, Montana
$65,527.00 - Copper-Bismuth

Memorandum

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

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

Subject: Review of application

The applicant requests assistance in exploring a fault zone (or zones) by shaft sinking and drifting. The work is not well outlined, but as I take it, a shaft is to be deepened 100 feet and a drift driven, connecting 2 shafts 300 feet apart.

Sampling appears to have been done, probably in 1942, but the results of assaying are not given.

An examination has been scheduled, but referral is recommended as a matter of record.

N. E. Nelson

N. E. Nelson

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 12 1958

DATE		
6/12	Reg.	225
~~6/12~~	~~Reg~~	~~500~~

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

June 12, 1958

Memorandum

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

From: Commodity Specialist, Branch of Base Metals

Subject: Review of application, Docket No. DMEA 5049 (copper-bismuth), Lee, William and Jack Hicks, Montreal Star Mine, Jefferson County, Montana. $65,527.

According to Mr. Weissenborn's letter transmitting the application, the partnership proposes to deepen the existing shaft 100 feet and drift 300 feet from the bottom of the shaft. There were no supporting data attached to the copy of the application reviewed.

It is noted that a field examination of the property will be made on about June 9, 1958 when the merits of the proposed exploration will be evaluated.

A. D. McMahon
A. D. McMahon

Attachment

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

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

June 10, 1958

Messrs. Wm. Lee & Jack Hicks
1123½ Maryland Ave.,
Butte, Montana

Subject: DMEA-5049

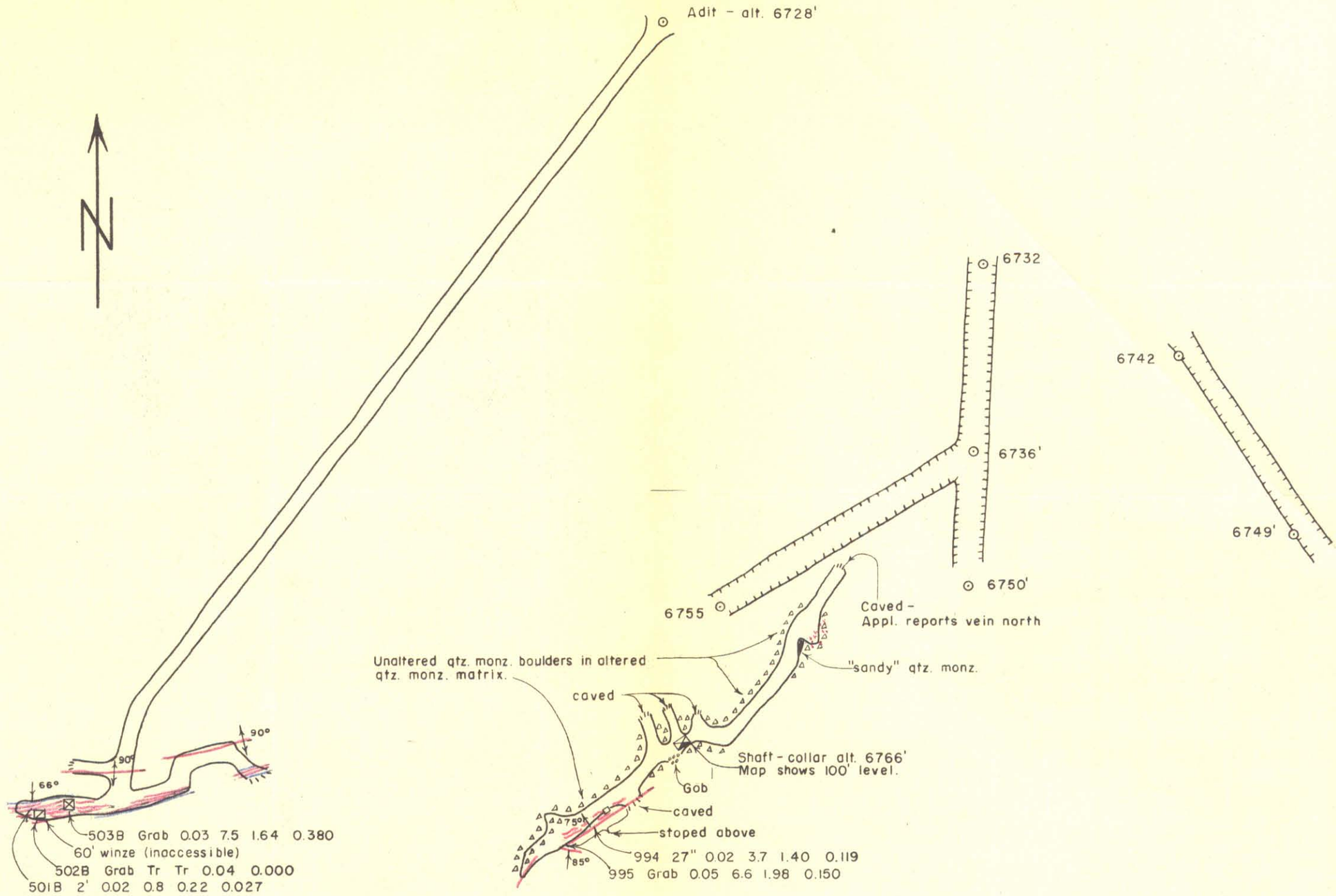
Gentleman:

Your application for exploration assistance, dated May 28, 1958 submitted to our office at Spokane, Washington has been assigned Docket Number DMEA-5049 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.



ASSAY DATA

Sample No.	Width	oz.Au/ton	oz.Ag/ton	%Cu	%B

Compiled from plane table and Brunton surveys by W.C. Prinz, U.S.G.S., June, 1958, and from maps submitted with application.

GEOLOGIC MAP

MONTREAL STAR MINE

JEFFERSON COUNTY, MONTANA

0 25 50 100 FEET

OCT. 1958

PLATE I

Montreal Star 12 miles North & East of Butte Mining Dist.

Scale - 50' to the inch

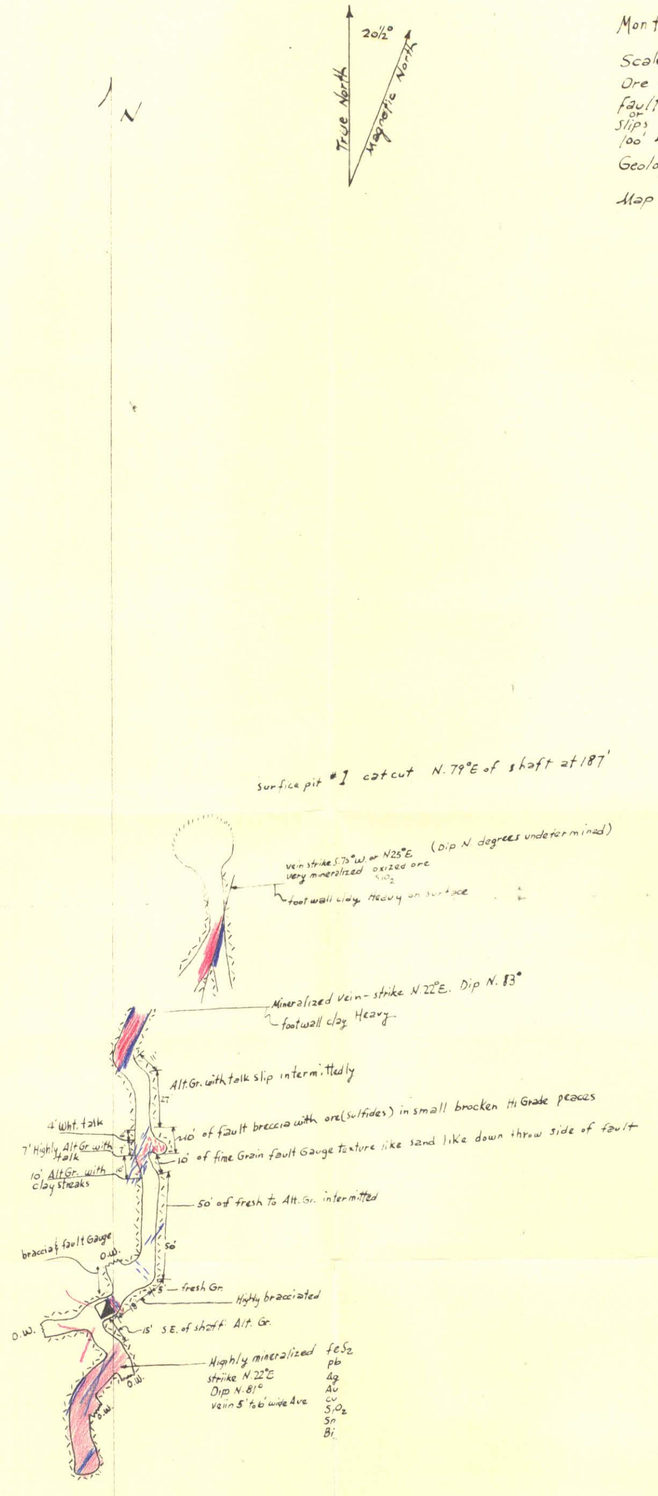
Ore

Fault or Slip

100' Level

Geology by - William N. Konvicka

Map Compiled Sept. 1957 to Feb. 1958

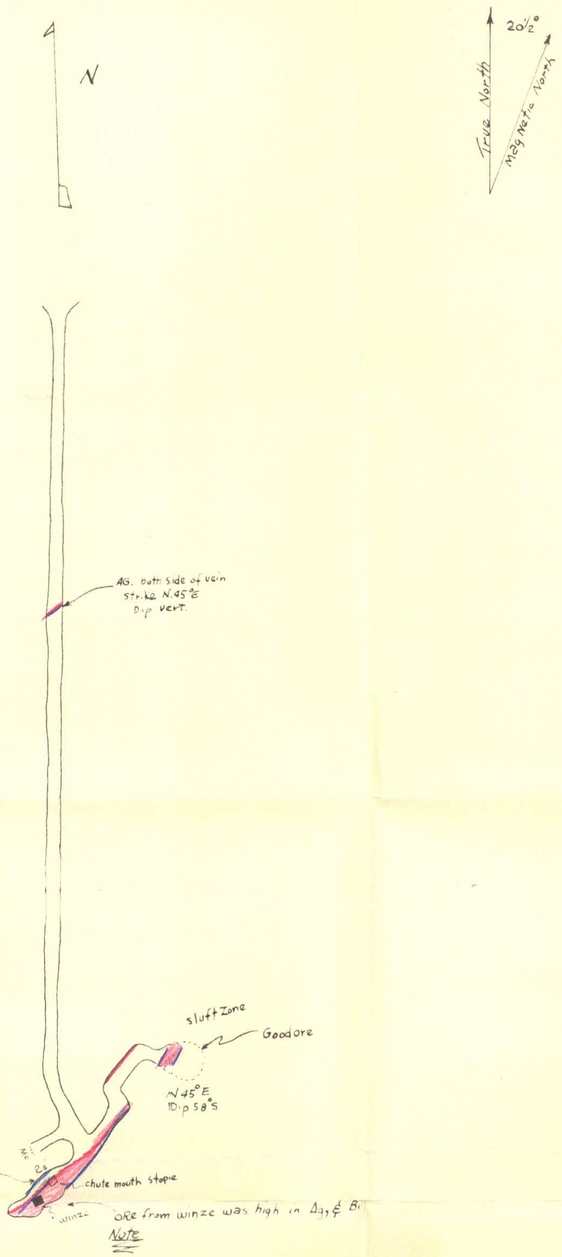


Sketch A

Montreal Star
Scale 50' to the inch
ore
fault
or
Slip
50' Level Addit starts N. of shaft & extend in to slope in a south Direction

Geology by William N. Konvicka

Map compiled sept. 1957 to Feb. 1958



300' west of shaft
Shaft approx

Note:
ore stoped from this Area was of Good Bi about 1% or, more