DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE  Idm-E NO._____  DMEA NO. 5030

Application
- [ ] 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- [ ] Withdrawn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
- [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

17863

ALL LEASES AND AGREEMENTS AND OTHER LEGAL PAPERS IN OME-6028

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

May 20, 1958

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

Re: New Application (Lead)
Howard C. Banks
Hidden Hand Group of Claims
Powell County, Montana

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application for DMEA aid to explore for lead on the Hidden Hand claims, Powell County, Montana. Only one copy each of the Sublease and Agreement dated January 21, 1954, and Agreement and Release dated April 17, 1956, were received which are attached. Copies were made for our files.

The lease dated August 15, 1937, between the original owners and W. M. Howard, the deceased husband of Fern L. Howard, is not included with the application. Also the manner in which Mrs. E. J. Bennett enters the picture and Henry Peterson and Ludwig S. Mussigbrod drop out should be explained.

We have talked to Mr. Banks on the telephone and explained the possibility that there might not be sufficient time to process his application. However, we scheduled an examination for the 26th of this month. Mr. Banks assured us that the lease dated August 15, 1937, would be available and that clarification of ownership would be made at that time.

Sincerely yours,

A E Weissenborn

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

Enclosures

cc: USBM (2)
Prinz

2[illegible] [illegible] St.
[illegible] Terrace, Washington
May 14, 1958

Dear Sirs:

My application for an exploration loan with the DMEA is enclosed herewith. I hope the information I have enclosed is adequate. If not, please do not return any of it to me here. I will be in Spokane sometime the last week in May, and will be in to see you then.

Yours truly,

/s/ Howard C. Banks

DMEA
RECEIVED
DATE

Form MF–103
Revised Oct. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

# APPLICATION FOR AID IN AN EXPLORATION PROJECT

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

RECEIVED
MAY 16 1958
U. S. G. S.
SPOKANE, WASH.

RECEIVED
MAY 22 1958

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

Howard C. Banks
General Delivery
Deer Lodge, Montana

**APPLICANT NOT TO USE THIS BLOCK**

| | |
|---|---|
| Docket Number | DMEA-5030 |
| Date Received | 5-22-58 |
| Government Participation % | |
| Region | I |
| Division Code | 500 |

**BUSINESS ORGANIZATION** *(Check one)*

- Individual [X]
- Corporation [ ]
- Partnership [ ]
- Other *(Specify)* [ ]

State in which firm is organized

**LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE**

| Name | Address | Title |
|---|---|---|
| | | |

Mineral(s) for which you wish to explore: Lead; possibly zinc and copper

Estimated Cost of Project: $ 8,875.00

**LOCATION OF PROPERTY**

| Name | County | State |
|---|---|---|
| Hidden Hand Group of Claims | Powell | 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.

May 13, 1958
*Dated*

Howard C. Banks
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

1. Applicant's Property Rights:

(a) Legal description:
Sections 2 and 3
Township 7 North; Range 8 West
Zosell (Emery) Mining District
Powell County, Montana

The Hidden Hand Group of claims is made up of 7 unpatented claims, that are included in this lease. The names of these claims, and book and page number of each recorded location notice, in the Recorder's Office of the County Court House in Deer Lodge, Powell County, Montana, are as follows:

Deep Gulch Quartz Lode---Book 4 Quartz; Page 494
Castle Garden Lode Mining Claim---Book 2 Quartz Lode; Page 268
Mountain Chief Lode Mining Claim---Book 2 Quartz Lode; Page 249
Silver King Quartz Lode--Book 4 Quartz; Page 496
Red Fox Quartz Lode---Book 6 Quartz; Page 304
Bull Moose Quartz Lode---Book 4 Quartz; Page 498
Hidden Hand Lode Mining Claim---Book 2 Quartz Lode; Page 247.

(b) This property is known as the Hidden Hand, or the Hidden Hand Group of claims.

(c) I hold this property under lease, with option to buy. Copy of lease submitted.

(d) There are no liens, mortgages, or other encumbrances on the property.

2. Physical Description:

(a) The area in which I plan to make this exploration is not a new mining area. its geologic features and production history are fully recounted in Memoir No. 34, Montana Bureau of Mines and Geology: Geology and Mineral Deposits of the Zosell (Emery) Mining District, Powell County, Montana, by Forbes Robertson; Montana School of Mines, Butte, Montana, 1953.

At least since 1928, the seven claims making up the Hidden Hand Group have been handled as one unit, but most of the development has been on the Hidden Hand Claim proper, and it has a long history of development and production, both of lead ore and gold ore, with records dating back as far as 1897. However, the exploration I propose to do lies within the adjoining Deep Gulch Claim, along what appears to be an entirely separate vein. Here comparatively little work has been done before. Probably around 1913, a shaft was sunk to a depth of 25 feet, which was only about 5 feet deeper than through the overburden. About the same time, at an elevation approximately 108 feet lower than the top of the shaft, and some 300 feet to the west, a drift was run into the hillside to an estimated 88 feet. This has since caved in. Probably in 1926, the start of a long tunnel back into the hill was made about 50 feet southeast of the shaft. Between 1928 and 1950, William Howard was mining on the Hidden Hand and other claims of this group, as well as the Argus and other holdings he had. His primary interest was gold ore, although he did ship some lead and lead-silver ore during those years. In 1940 or 1941, he sank the old shaft on Deep Gulch another 25 or 30 feet, and found some lead ore all the way down, especially at the 50-foot level. There, however, the water which appears to follow the lead vein, ran into the shaft so rapidly that he developed it no further.

2. (a) Cont.

During the summers of 1955, 1956, and 1957, I bulldozed off 10-15 feet of overburden along the steep south slope below the Hidden Hand and above the old shaft on the Deep Gulch, exposing 288 feet of a vein running east-west, and appearing to be from 4 to 11 feet wide. I then blasted and bulldozed off the bedrock around the shaft another 8 feet. It became evident that the shaft actually lies within the vein. I also stripped the vein for a depth of about 10 feet and a length of about 40 feet. I built a satisfactory access road to the project, which is in present use. There are cabins on the land which can be used to house workers and equipment.

(b) See above.

(c) As mentioned above, the production of the Hidden Hand Group as a whole is recounted in Robertson's account. In speaking of it, on p. 16, he says: "In 1928, the Harvey Creek Mining Co. developed rich lead-silver ores, but there is no record of the shipments. Pardee (U. S. Geol. Survey, Bull. 842, 10:280) estimated that $45,000 had been recovered from the property up to 1928. Probably the most important period of activity started in 1937, after which time the property produced in every year except the war years. Over $62,000 worth of ore was taken out in the period from 1937 through 1947, with probably not less than $10,000 from 1948 to 1950. The total production is valued at probably not less than $120,000. Mr. William Howard, lessee, operated the mine throughout this period." Of course, the major part of the ore shipped by Mr. Howard was low-grade gold ore, but there was always some lead ore along with it.

During my exploration and stripping of the vein on the Deep Gulch Claim, during the summers of 1956 and 1957, some ore was of course displaced with the bedrock that was removed, and I hand-sorted this ore out during the stripping operations. During 1957 I amde 3 small shipments of this hand-sorted ore, and I am encluding copies of the settlement sheets for these. It is noted that the quality of the ore improved as I worked farther down along the vein. The vein consists of broken quartz, with galena and lead carbonates.

(d) Ore reserves on the property are unknown.

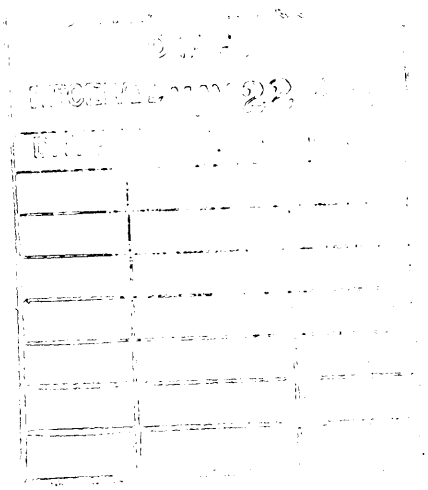
(e) According to Robertson's report, this whole mining area was probably derived from the Boulder batholith. "There is a large number of persistent mineralized fissures within a relatively small area which carry a complex assemblage of gold, silver, lead, zinc, arsenic, and antimony minerals. The lodes consist of low-angle, so-called bedding plane fissures and vertical veing both occuring in basic volcanic rocks of probable late Cretaceous age." (p. 1) "In general, the flows dip westerly 10° to 20°, and strike about N. 30°W. An inconspicuous flexure within the flows produced fractures which were subsequently mineralized." "The principal hypogene sulphide minerals are gold-bearing arsenopyrite, sphalerite, galena, chalcopyrite, silver-bearing boulangerite and tetrahedrite. Millerite and free gold are rare. Quartz and ankeritic carbonates are the principal gangue minerals." "The deposits are of hydr-thermal origin and are similar to the complex ores characteristically found in the northern part of the Boulder batholith. Persistence in depth is indicated, although the veins are narrow." (p. 26)

The Hidden Hand lies primarily along the top of a ridge, which slopes moderately steeply off to the south and west. The vein along which mining there has been done is one of the shallow, at times almost horizontal, north-south veins found in this district. The Deep Gulch Claim lies along the south slope and west end of this same ridge, and the main vein which I have exposed there appears to be a more sharply dipping east-west vein--evidently an entirely different vein from the Hidden Hand vein.

2. (e) Cont.

An obvious area of mineralization, about 22 feet wide, which lies at right angles to this vein, could conceivably from its position be an extension of the Hidden Hand vein, crossing the one I have been exploring. There is also another vein coming in from the northeast, and striking the main vein at about a 45° angle.

The dozer cut and the area where I have stripped along the vein along the vein are evident in the enclosed photograph, and the old shaft which goes down into the vein. The vein which extends off to the northeast is visible beyond and to the left of the shaft. The mineralized area which lies perpendicular to the main vein is not included in this picture, but lies just to the left.



(f) I have already uncovered sufficient ore to be sure that there is some ore in the area I propose to explore. However, it would be necessary to find out the extent of the vein and how much ore it may contain, before it would be feasible to set up mining operations. That the vein extends beyond the present exposed area is indicated by the fact that both the long tunnel southeast of the shaft and the old drift southwest of it show evidence of having cut the vein. Although the long tunnel was almost entirely above the level of the vein, there was some galena showing in it about in line with the shaft. Also, the direction of the lower drift is generally toward the line of the vein, and the old dump outside it contains some galena and broken quartz such as makes up much of the vein. The shaft, which originally appeared to be north of the vein, is now seen to be directly in it, since I have stripped the vein down far enough to determine that it dips back into the hillside, toward the north. Mr. Howard found high-grade lead ore to the depth of 50 feet in the shaft, and then went no further because of the water. His assays on this ore, and the ones I have had made on picked samples of ore from the vein are of course not typical "samples."

The assay figures on the copies of Mr. Nugent's sketch are from samples he took and assayed, and from diamond drilling, both in 1956. I do not have certificates for either. The diamond drilling, incidentally, was not satisfactory because, while it was possible to core the handing wall and the foot wall, the ore itself was so broken up that it was necessary to case through most of the vein, and a core of only a small portion of the ore was obtained. In blasting, I have also encountered this same broken nature of the vein. In July of 1957, Mr. Degner of ACM in Butte examined the property and took samples crossing the vein in several places, as indicated on the sketch, as well as of the dump outside the old drift. I enclose copies of his report to me of the assays of these samples.

2. (f) Cont.

I am interested in exploring this particular area not only because of the ore already exposed, but also because it appears that here may be an intersection of three veins, or at least definitely two veing. One of the conclusions reached by Robertson in his study seem applicable: "The ore occurs principally in shoots in the veins. Consequently the objec tive in prospecting should be to determine the position of ore shoots along the vein or shoots found at the intersections of veins. The intersections of low-angle and vertical veins have not been adequately investigated and offer possibilities." (p. 26)

3. Accessibility of Project

(a) I expect to be at the mine not later than June 1, 1958, and will be glad to meet in Deer Lodge any representative, if I know the time of his arrival. My mail address will be: Mr. Howard Banks, General Delivery, Deer Lodge, Montana. Otherwise, contact could be made by phone with Mrs. E. J. Johnson, R. 1, Deer Lodge, Montana. (This is my sister, the former Mrs. William Howard.) Or anyone with a car can easily reach the mine itself, by following the road east of Deer Lodge toward Emery, but after crossing the cattle guard into the national forest keeping straight ahead and to the left, never to the right. Eigh miles or a little more from Deer Lodge, a cabin to the left-hand side of the road. This is a good gravel road to the national forest line, thereafter a mountain road easily traveled in any but very bad weather. The road down to the mine workings, only a short distance from the cabin, turns off to the left just before reaching the cabin. A car can be driven over it except after heavy rain or snow.

(b) Deer Lodge, Montana is the shipping and main supply point. It is eight miles from the property. Some supplies would have to be brought from Butte, about 40 miles. Employees would live either on the property or in Deer Lodge.

4. The Exploration Project.

(a) Since the slope here is quite steep, both to the south and west, I propose to strip the vein by benching, starting about 75 feet west of the shaft, and making successive cuts 5 feet deep and 5 or more feet wide, depending on the width of the vein, thus exposing the extent and dip of the mineralized zone which lies perpendicular to the vein, as well as the main east-west vein itself. This will also indicate the extent and nature of the vein which angles in from the northwest. I propose to do this stripping to a total depth of 30 feet. Owing to the broken nature of the vein, this will be the most economical approach, since it will provide drainage for the water which runs along the vein, and will make a safer approach than trying to drive a tunnel or shaft through the broken material. The diamond drilling done in 1956 showed the hanging wall and foot wall are both solid and in place. Approximate length of the stripping will 75 feet along the vein.

I also propose to open the old drift southwest of and below the present exposed area of the vein, to determine the extent of the vein in that direction and to sample the ore. This will involve making an open cut for about 40 feet where the old drift has caved in, and then cleaning out the part of the tunnel which has not caved in for another 48 feet.

(b) There is already a satisfactory access road to the project.

(c) I will be working at the mine from June 1, 1958 on. Work covered by the contract would start as soon as the contract becomes effective. About three months would be required to complete the stripping project. Three weeks for the job of opening the old drift. Estimated rate of progress: five feet a day on the old drift; seven feet a day on a 5-foot bench on the stripping operation.

5. Experience

I will be supervising the operations.

I was employed as a miner at the Hidden Hand, by the late William Howard, 1938-1939; from 1939-1941 as a miner with Anderson Phosphate Mines at Garrison, Montana; 1946 as a miner for the Howe Sound Mining Co., at Chelan, Washington. In 1948 I worked as a miner for the Day Mines, Inc. at Wallace, Idaho. That same year I leased the Giant Ledge Mine at Murray, Idaho, and supervised the de-watering of a 400-foot shaft and 3000 feet of underground workings. I have supervised the present exploration operation on the Deep Gulch Claim up to the present time.

I already have one experienced miner hired for this work, who did bulldozing for me on this project last year.

6. Estimate of Costs

For the stripping work:

| | | |
|---|---|---|
| (a) Independent contracts--none | | |
| (b) Personal services | | |
| 2 men @ $20/day (covers wages, worker's comp., etc.) | | |
| 1 man @ $25/day | | |
| Total--66 days @ $65 | $4,290 | |
| Bulldozing, 100 hours @ $8 | 800 | $5,090 |
| (c) Operating materials and supplies | | |
| gas and oil | 200 | |
| dynamite, fuse, caps, etc. | 300 | |
| air hose, steels, bits, pipe, misc. | 100 | |
| | | 600 |
| (d) Operating equipment | | |
| compressor, rented 3 mo. @ $175 | 525 | |
| pick-up (1952 $\frac{3}{4}$-ton International) I furnish | | |
| jack hammer (Ingersoll) I furnish | | |
| submarine tank and hose (second hand) | 200 | |
| mine car and rails (second hand) | 250 | 975 |
| (e) Initial rehabilitation and repairs--none | | |
| (f) New building, fixtures, installations--none | | |
| (g) Miscellaneous | | |
| repairs and maintenance on equipment and tools | 300 | |
| Assays | 100 | |
| Accounting | 50 | |
| | | 450 |
| Total for stripping | | 7,115 |
| For opening old tunnel: 88 feet @ $20 | | 1,760 |
| | | 8,875 |

7. (a) Yes

(b) By furnishing my labor and supervising the work, by boarding workers if that is necessary, by furnishing equipment and tools I have, and by cash on hand or available.

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 22 1958
DATE | INITIALS | CODE

2. f

# ANACONDA COPPER MINING COMPANY

Butte, Montana

Geological Department

July 27, 1957

Mr. Howard C. Banks
Box 463
Deer Lodge, Montana

Dear Mr. Banks:

During my examination of the vein exposed on the Deep Gulch claim, I took six samples, as you remember: 401 from the lower dump, 402 and 403 channel samples across the dozer cut on the lower end of the vein, and 404, 405, 406 across the 2 foot high grade part of the vein exposed for 25 feet just west of the Deep Gulch shaft.

The samples have been run three times and following are the results:

| | Oz. Ag | Oz. Au | % Pb | % Zn |
|---|---|---|---|---|
| 401 | 0.10 | .010 | 2.70 | 0.2 |
| 402 | 2.0 | .040 | 0.20 | None |
| 403 | 0.6 | .040 | 0.60 | " |
| 404 | 9.2 | .040 | 7.0 | 0.75 |
| 405 | 12.8 | .060 | 13.2 | 0.70 |
| 406 | 8.6 | .060 | 10.0 | 0.60 |

Average for the 3 high-grade samples is 10.2 oz. Ag, .050 oz. Au, 10.1% Pb, and 0.68% Zn.

With kindest personal regards,

Norman L. Degner

NORMAN L. DEGNER

NLD/h

FORM NO. A-31

# AMERICAN SMELTING AND REFINING CO.

## EAST HELENA PLANT

East Helena, Mont., July 19, 1957, 19

Bought of Howard Banks Mine Hidden Hand Our Lot No. 1155

Class Crude Shipping Point Deer Lodge, Montana Mine Lot No. 1

Quotations of Wks. Avg. Silver .9025 Lead 14.0 ~~Cathode~~ Wire Bar Copper 28.835

| ASSAYS | GOLD Oz. per ton | SILVER Oz. per ton | Wet Lead Per Cent | COPPER Per Cent | INSOL Per Cent | IRON Per Cent | Manganese Per Cent | Sulphur Per Cent | ZINC Per Cent | ARSENIC Per Cent | Antimony Per Cent | Bismuth Per Cent | LIME Per Cent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A. S. & R. Co. | 0.025 | 8.2 | 7.9 | 0.30 | 63.2 | 9.8 | 0.5 | | 1.2 | 1.75 | 0.08 | | 0.2 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Umpire | | | | | | | | | | | | | |
| Settlement | 0.025 | 8.2 | 7.9 | 0.30 | 63.2 | 9.8 | 0.5 | | 1.2 | 1.75 | 0.08 | | 0.2 |

| Car Number | Weight | VALUES PER TON | | DEDUCTIONS PER TON | |
|---|---|---|---|---|---|
| | | Gold @ | | Base for Charge Lead 9.75 | |
| Truck | 16950 | Silver 95% ~~xx~~ less 1 oz. @ .9025 | 6.50 | | |
| | | Lead Less 1.5 90% @ 14.0-2.0 | 13.82 | | |
| | | Copper, Less @ | | | |
| | | Total Au. & Ag. | 20.32 | | |
| | | | | | 9.75 |
| | | | | Insoluble % @ | |
| | | | | Zinc % @ | |
| | | | | Arsenic % @ | |
| | | | | Antimony % @ | |
| Weight of Lot | | | | Bismuth % @ | |
| Weight of Sacks | | | | Debit | |
| Wet Weight | | | | Iron Lbs. @ | |
| Less Moisture 3.2 % 542 | | Less Total Deduction | 9.75 | Total Deductions | 9.75 |
| Dry Weight | 16408 | Pounds @ | 10.57 | Per Ton | $ 86.72 |

| | | | |
|---|---|---|---|
| | Freight Per Wet Ton @ | $ | |
| | Hauling Per Wet Ton @ | $ | |
| | Royalty 10% Mrs. Edward Johnson Deer Lodge, Montana | $ 8.57 | |
| | Bullion frt. on 945# @$26.97 ton $12.74 & 3% tax | .38 | |
| Date of B/L | Less " " on 945# @$25.69 ton $12.14 | $ .60 | |
| Date of Arrival 7-5-57 | Advances | $ | |
| Checked MCW | Umpire | $ | |
| Correct | Sampling When Less Than 10 Tons | $ | |

Rates except on contract, subject to change without notice.

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

TOTAL $ 9.55 $ 9.55

NET PROCEEDS $ 77.17

FORM NO. A-31

# AMERICAN SMELTING AND REFINING CO.

## EAST HELENA PLANT

East Helena, Mont., August 7, 1957, 19

Bought of Howard C. Banks Mine Hidden Hand Our Lot No. 1296

Class Crude Shipping Point Deer Lodge Mine Lot No. 2

Quotations of Mrs. Avg. Silver .9025 Lead 14.0 Wire Bar ~~Cathode~~ Copper 28.695

| ASSAYS | GOLD Oz. per ton | SILVER Oz. per ton | Wet Lead Per Cent | COPPER Per Cent | INSOL Per Cent | IRON Per Cent | Manganese Per Cent | Sulphur Per Cent | ZINC Per Cent | ARSENIC Per Cent | Antimony Per Cent | Bismuth Per Cent | LIME Per Cent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A. S. & R. Co. | 0.080 | 9.9 | 9.6 | 0.10 | | | | | 0.7 | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Umpire | | | | | | | | | | | | | |
| Settlement | 0.080 | 9.9 | 9.6 | 0.10 | | | | | 0.7 | | | | |

| Car Number | Weight |
|---|---|
| Truck | 18960 |
| Weight of Lot | |
| Weight of Sacks | |
| Wet Weight | |
| Less Moisture 3.7 % | 702 |
| Dry Weight | 18258 |

| VALUES PER TON | | |
|---|---|---|
| Gold 100% | @ 31.31825 | 2.55 |
| Silver 95% less 1 oz. | @ .9025 | 8.03 |
| Lead Less 1.5 90% | @ 14.0-2.0 | 17.50 |
| Copper, Less | @ | |
| Total Au. & Ag. | | 28.08 |
| Less Total Deduction | | 9.75 |
| Pounds | @ | 18.33 |

| DEDUCTIONS PER TON | | |
|---|---|---|
| Base for 20 % Dry Lead | 9.75 | |
| | | 9.75 |
| Insoluble % @ | | |
| Zinc % @ | | |
| Arsenic % @ | | |
| Antimony % @ | | |
| Bismuth % @ | | |
| Debit | | |
| Iron Lbs. @ | | |
| Total Deductions | | 9.75 |
| Per Ton | $ | 107.33 |

| | | |
|---|---|---|
| Freight Per Wet Ton @ | $ | |
| Hauling Per Wet Ton @6.00 & 3% tax to Don Nikelson, Deer Lodge | $ | 58.59 |
| Royalty 10% Mrs. Edward J. Johnson, Deer Lodge | $ | 10.24 |
| Bullion Frt. on 1331 #@ 26.97 17.95 3% | $ | .54 |
| ~~Assays~~ " " on 1331 #@ 25.69 17.10 | $ | .85 |
| Umpire | $ | |
| Sampling When Less Than 10 Tons | $ | 5.00 |
| TOTAL | $ 75.22 | $ 75.22 |
| NET PROCEEDS | | $ 92.11 |

Date of B/L

Date of Arrival 7/24/57

Checked

Correct

Rates except on contract, subject to change without notice.

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

FORM NO. A-31

# AMERICAN SMELTING AND REFINING CO.

## EAST HELENA PLANT

East Helena, Mont., October 16, 1957, 19

Bought of Howard Banks Mine Hidden Hand Our Lot No. 1793

Class Crude Shipping Point Deer Lodge, Montana Mine Lot No. 3

Quotations of Mk. Incldg. Silver .90625 Lead 14.0 Wire Bar Copper 26.540

| ASSAYS | GOLD Oz. per ton | SILVER Oz. per ton | Wet Lead Per Cent | COPPER Per Cent | INSOL Per Cent | IRON Per Cent | Manganese Per Cent | Sulphur Per Cent | ZINC Per Cent | ARSENIC Per Cent | Antimony Per Cent | Bismuth Per Cent | LIME Per Cent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A. S. & R. Co. | 0.100 | 10.9 | 11.4 | 0.40 | | | | | 0.9 | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Umpire | | | | | | | | | | | | | |
| Settlement | 0.100 | 10.9 | 11.4 | 0.40 | | | | | 0.9 | | | | |

| Car Number | Weight | VALUES PER TON | | DEDUCTIONS PER TON | |
|---|---|---|---|---|---|
| | | Gold 100% @31.81825 | 3.18 | Base for Charge % Lead 10.00 | |
| Truck | 22590 | Silver 95% less 1 oz. @ .9062[illegible]-1.0¢ | 8.87 | | |
| | | Lead Less 1.5 90% 14@0-2.0¢ | 21.38 | | |
| | | Copper, Less @ | | | |
| | | Total Au. & Ag. | 33.43 | | |
| | | | | | 10.00 |
| | | | | Insoluble % @ | |
| | | | | Zinc % @ | |
| | | | | Arsenic % @ | |
| | | | | Antimony % @ | |
| Weight of Lot | | | | Bismuth % @ | |
| Weight of Sacks | | | | Debit | |
| Wet Weight | | | | Iron Lbs. @ | |
| Less Moisture 3.6 % | 813 | Less Total Deduction | 10.00 | Total Deductions | 10.00 |
| Dry Weight | 21777 | Pounds @ | 23.43 | Per Ton | $ 255.12 |

| | | |
|---|---|---|
| | Freight Per Wet Ton @ | $ |
| | Hauling Per Wet Ton @ 6.00 Don Nicholson Deer Lodge, Mont. & 3% tax (2.03) | 69.80 |
| | Royalty 10% Mrs. E. J. Johnson Deer Lodge, Montana | $ 18.27 |
| | Bullion frt. on 1940# @$28.77 ton $27.91 & 3% tax | .84 |
| Date of B/L | Less " " on 1940# @$26.97 ton $26.16 | $ 1.75 |
| Date of Arrival 10-5-57 | Advances | $ |
| Checked | Umpire | $ |
| Correct | Sampling When Less Than 10 Tons | $ |

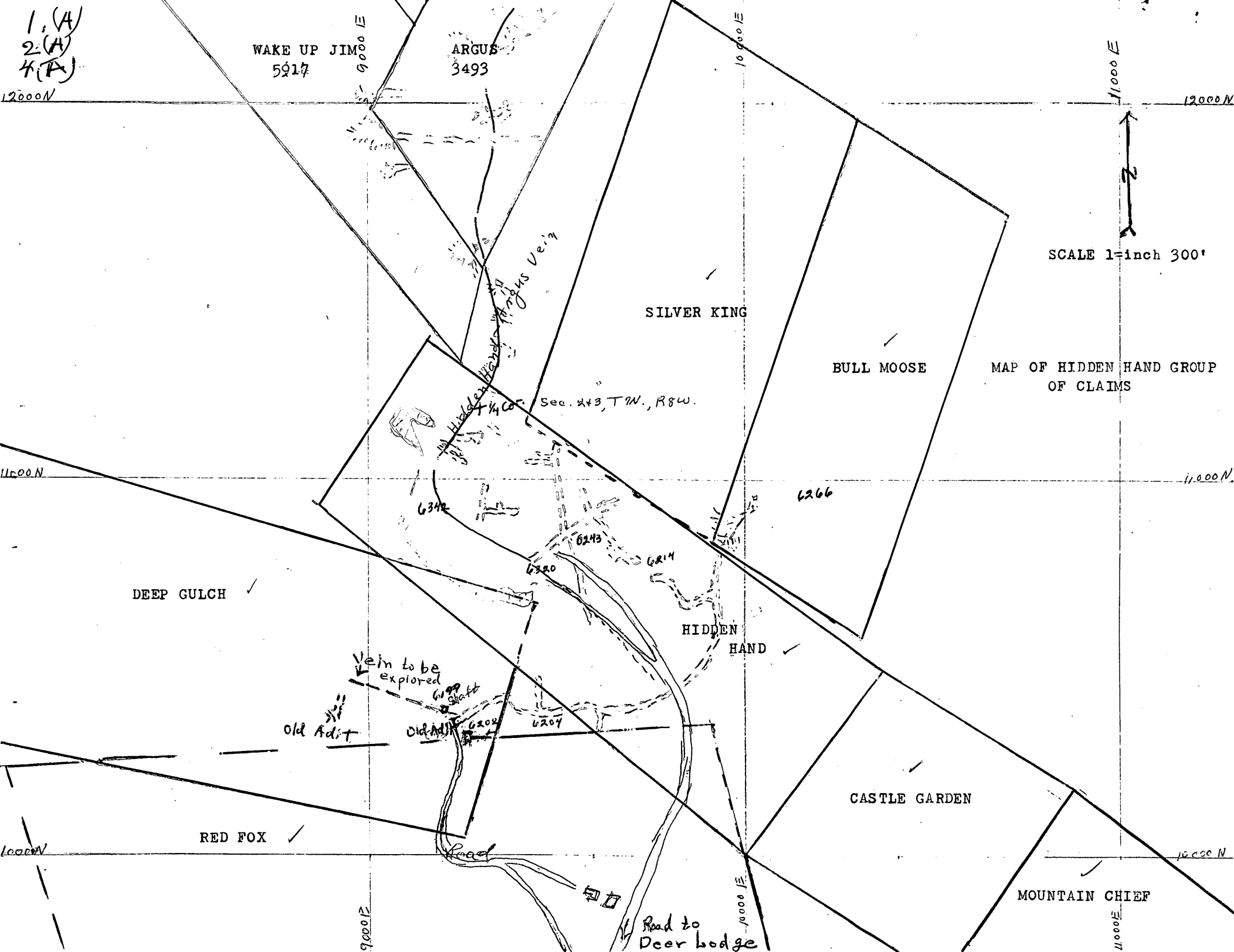
Rates except on contract, subject to change without notice.

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

TOTAL $ 90.66 $ 90.66

NET PROCEEDS $ 164.46

1.(A)
2.(A)
4.(A)


WAKE UP JIM
5917
ARGUS
3493
SILVER KING
BULL MOOSE
MAP OF HIDDEN HAND GROUP
OF CLAIMS
SCALE 1=inch 300'
Hidden Hand Argus Vein
1/4 Cor. Sec. 2&3, T7N., R8W.
6342
6243
6220
6214
6266
DEEP GULCH
HIDDEN
HAND
Vein to be explored
6199 Shaft
Old Adit
Old Adit
6202
6204
CASTLE GARDEN
RED FOX
Road
Road to Deer Lodge
MOUNTAIN CHIEF
12000N
11000N
10000N
9000E
10000E
11000E

# U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at a time.
2. Void previous block.
3. Write clearly.

| NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM | | NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM | |
|---|---|---|---|
| Earl R. Ingersoll<br>Sta Building -<br>Room 1243 | RUN<br>STOP | | RUN<br>STOP |
| ~~E. L. Newcomb~~<br>~~5224 Interior Bldg~~ | RUN<br>STOP | | RUN<br>STOP |
| Mr. W. S. Martin<br>Rm. 5558<br>Interior Bldg. | RUN<br>STOP | | RUN<br>STOP |
| | RUN<br>STOP | | RUN<br>STOP |
| | RUN<br>STOP | | RUN<br>STOP |
| | RUN<br>STOP | | RUN<br>STOP |
| | RUN<br>STOP | | RUN<br>STOP |
| | RUN<br>STOP | | RUN<br>STOP |
| | RUN<br>STOP | | RUN<br>STOP |
| | RUN<br>STOP | | RUN<br>STOP |

*Send surplus envelopes to supply room for reissue.*

Use other side

16—89049-2

**Use RUN and STOP only when messenger service between Government buildings in Washington is required.**
**Your mail room has RUN and STOP information.**

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

October 20, 1958

Memorandum

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

From: O. M. Bishop, USBM

Subject: Review of application report, Docket DMEA 5030 (Lead), Howard C. Banks, Hidden Hand Claim group, Powell County, Montana.

William C. Prinz, (USGS), and John A. Bowsher (USBM) examined the property May 26-27, 1958 following receipt of an application for DMEA assistance May 16. Subsequently Prinz revisited the property and reported on it and the advisability of proposed DMEA exploration.

On the basis of surface showings and such data as were available to the examiners the potential of the Hidden Hand and Deep Gulch veins did not appear promising. Since the examination the applicant reports he has cleaned out an adit that extends 400 feet easterly along the vein and contains considerable lead. Because of the termination of the DMEA the examiner did not again return to the property. However in view of the applicants observation of favorable criteria Mr. Prinz recommends that the application should be denied without predjudice to the property.

I concur in this viewpoint.

O. M. Bishop

O. M. Bishop

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

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 22 1958

| DATE | INITIALS | [illegible] |
|---|---|---|
| 10/22 | C | 220 |
| 10/22 | Kling | ~~500~~ 225 |

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
October 10, 1958

OCT 13 1958

| DATE | INITIALS | CODE |
|---|---|---|
| 10/13 | C | 220 |
| 10/17 | HB | 130 |
| 10/20 | B | 220 |
| ~~10/21~~ | ~~[illegible]~~ | ~~500~~ |
| | | |
| | | |

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

Re: Docket No. DMEA-5030 (Lead)
Howard C. Banks
Hidden Hand Group of Claims
Powell County, Montana

Dear Mr. Selfridge:

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

The Deep Gulch vein, which the applicant proposes to explore, is nearly vertical and is up to 10 feet wide. It consists of altered wall rock, limonitic boxwork, and quartz which contains some pyrite, arsenopyrite, chalcopyrite, and galena finely disseminated and in stringers up to 2 inches wide. At the time of the examination surface exposures indicated that there might be a small amount of marginal grade material and that the chance of making a significant discovery was only fair. Since the examination, the applicant has reopened about 500 feet of old workings which were thought to comprise only a few tens of feet of crosscut. These workings are reported to have disclosed good lead showings.

Because of the termination of the DMEA program, Prinz did not return to the property to examine the reopened workings. He recommends that the application be denied without prejudice to the property.

We concur with this recommendation.

By Field Team, Region I

A E Weissenborn
A. E. Weissenborn, Exec. 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
10-17-58
(date)

DMEA

MASTER FILE COPY
O. M. E.
RECEIVED OCT 13 1958

| DATE | INITIALS | CODE |
|---|---|---|
| 10/17 | HB | 130 |
| | | 220 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration
So. 157 Howard Street
Spokane 4, Washington
September 17, 1958

MEMORANDUM

To: OME Field Team, Region I

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

Subject: Application examination report, Docket No. DMEA-5030 (Lead), Howard C. Banks, Hidden Hand Group of Claims, Powell County, Montana.

ON-SITE REPORT

## INTRODUCTION

An application for DMEA assistance to explore for lead on the Deep Gulch claim in the Hidden Hand claim group, Ziegell (Emory) Mining District, Powell County, Montana, was received from Howard C. Banks on May 16, 1958. The applicant proposed to explore the property by stripping the vein to a depth of about 30 feet and by rehabilitating 88 feet of adit. He estimated that this program would cost $8,875; Government participation at 50 percent would be $4,437.50.

The property was examined and a plane table map prepared on May 26 and 27, 1958, by William C. Prinz, Geologist, U. S. Geological Survey, and John A. Dorcher, Mining Engineer, U. S. Bureau of Mines. Prinz revisited the property on June 18, 1958. Mr. Banks, the applicant, was present at both examinations.

## SUMMARY

The Hidden Hand group of claims are underlain by greenish-gray andesite and basalt flows of late Cretaceous age. The Hidden Hand vein proper is a flat-dipping, gold-bearing quartz vein that has been extensively explored and that has yielded over $100,000 worth of ore. A second vein, the Deep Gulch vein and the vein that the applicant wishes to explore, is nearly vertical and relatively little explored. The Deep Gulch vein consists of as much as 10 feet of altered wall rock, limonitic boxwork, and quartz which contains some pyrite, arsenopyrite, chalcopyrite, and finely disseminated galena. In one place, stringers of galena as wide as 2 inches are abundant. From surface exposures, it appears that the vein may contain a small amount of marginal grade material and that the chances of making a significant discovery are only fair. However, since my examination the applicant has continued working at the property and has uncovered evidence which may necessitate changing my original conclusion.

Reviewed by
OME OPERATING COMMITTEE
10-17-58
(date)

## [illegible]

Based on information derived during the two examinations of the property, it must be recommended that this application be denied. However, this denial should be without prejudice to the property as Mr. Banks recently reported that he has reopened about 500 feet of old workings that show good lead mineralization. Because of the termination of the DMEA program, I did not make a special trip to the property to examine those workings. These recommendations have been accepted and approved by the DMEA Operating Committee and the applicant was so informed by letter on August 22, 1978.

## LOCATION AND ACCESSIBILITY

The Hidden Hand group of claims are 9½ miles by road east of Deer Lodge in the SW¼ and NW¼ sec. 2 and the SE¼ sec. 3, T. 7 N., R. 8 W. M.P.M., Powell County, Montana (Fig. 1). They are in the Zosell or Emery Mining District. The property is easily accessible by passenger car except after snow or heavy rain by the following route: Turn east at the northernmost traffic light on U. S. Highway 103 in the center of Deer Lodge; continue for 0.8 mile to the end of the street and turn left (north). Follow this road for 4.3 miles to junction; then turn right on the road marked Sugar Loaf Mountain-Emery Mines road. Continue for 3.1 miles (0.3 mile past "Entering Deer Lodge National Forest" sign), then take the left fork; proceed an additional 1.3 miles to the applicant's cabin which is 0.2 mile southeast of the workings on the Deep Gulch claim.

The climate of the area is semiarid with an annual precipitation ranging from 10 to 15 inches, including about 30 inches of snowfall. Year around underground operations would be possible except for temporary shutdowns after exceptionally heavy snow storms.

The nearest supply center and railhead are at Deer Lodge, and mining equipment would be available at Butte, Montana, which is about 50 miles from the property.

## APPLICANT

The applicant, Howard C. Banks, c/o General Delivery, Deer Lodge, Montana, individually controls the claims considered in this application. He is a longshoreman by trade but has had some experience in mining. Although his funds appear to be limited, he probably could handle a small program as he has been able to operate the property during the summer months for the past several years.

## History and Production

The Hidden Hand mine was first discovered and developed in 1887 and is reported to have produced $45,000 in gold, silver, and lead ore prior to 1926. It was reactivated in 1937 and from then to 1930 produced over $72,000 worth of ore, primarily gold. This portion of the claim group is currently inactive. Nothing is known of the early work on the Deep Gulch portion of the Hidden Hand group; however, in 1937 the applicant shipped 28.2215 SDT averaging 0.072 ounce gold per ton, 9.79 ounces silver per ton, and 9.80 percent lead from the surface of the Deep Gulch vein. This netted the shipper $353.74 ($11.83 per ton) after deductions for treatment, hauling, and royalty.

## Ownership

The property considered in this application consists of seven unpatented quartz lode claims as shown on plate 1 and listed below.

| Claim | Book | Page |
|---|---|---|
| Deep Gulch | 4 | 494 |
| Castle Garden | 2 | 268 |
| Mountain Chief | 2 | 249 |
| Silver King (King) | 4 | 496 |
| Red Fox | 6 | 304 |
| Bull Moose | 4 | 498 |
| Hidden Hand | 2 | 247 |

According to the applicant, the claims are recorded in the Powell County Recorder's Office, County Courthouse, Deer Lodge, Montana. In the various deeds and leases, the names "Silver King" and "King" are used interchangeably. No marked claim corners could be found in the field; the positions of four, unmarked posts are shown on plate 1, but it is not known what corners they represent. The claims shown on plate 1 are taken from a map submitted with the application. If this map is correct, it appears that there is a small, triangular-shaped fraction east of the Deep Gulch claim that has not been staked.

Mr. Banks [illegible] a [illegible] lease with option to buy by a series of [illegible] to August 15, 1937. On that date, Henry Peterson, [illegible], Callie Spalter, and Ludwig Muschgbred gave William Howard [illegible] three year lease with an option to buy on the claim group. On October 7, 1939, Muschgbred deeded his interest in the claims to Howard, and on December 4, 1943, Howard deeded this interest to his wife, Fern L. Howard. The lease and option has been extended four times. The last extension, which extended the agreement from August 15, 1955, to August 15, 1960, was granted to Fern L. Howard (widow of William Howard) by Charles Jonson, Callie Aspling (originally Callie Spalter), and Mrs. E. J. Bennett (successor to Henry Peterson). Fern Howard subleased her interest in the property to Howard Banks, the applicant, Carter H. Baggett, and Lawrence E. Baggett on January 21, 1954; and several months later on October 13, 1954, Gordon R. Vance was taken into this group of sublessors. By an agreement and release, dated April 17, 1956, both Baggetts and Vance relinquished their interest in the sublease leaving Banks in control of the property. This release was approved by Fern L. Howard Johnson, formerly Fern L. Howard.

Mr. Banks has assured us that Consents to Lien and Subordination Agreements can be obtained.

Inasmuch as the proposed exploration work is directed toward exploring the Deep Gulch vein, ore mined from the Hidden Hand vein could be excluded from royalty payment.

## Development

The most extensive underground development work on the Hidden Hand group of claims has been on the Hidden Hand claim proper where numerous inclined adits and shallow shafts have been driven on a flat gold-bearing vein (pl. 1). In addition, one long crosscut adit to this vein was started near the east end of the Deep Gulch claim. Most of these workings are now inaccessible.

The Deep Gulch vein was explored initially by a 25-foot shaft and by a 500-foot adit with the shaft being later deepened to 50 or 55 feet. The applicant thought that the adit was 88 feet long when he submitted his application but has since rehabilitated it and found it to be about 500 feet long, 100 feet of crosscut to the vein and 400 feet of easterly drifting along the vein. This has been done since BMA representatives examined the property. The applicant has done extensive bulldozer cutting along the Deep Gulch vein (pl. 2) and in so doing has removed the top half of the old shaft. The recent production from the mine came from these cuts.

## GEOLOGY

The geology of the Zosell Mining District and of the Hidden Hand mine has been described in the following:

> Pardee, J. T., and Schrader, F. C., 1933, Metalliferous deposits of the greater Helena mining region, Montana: U. S. Geol. Survey Bull. 842, p. 270-283

and:

> Robertson, Forbes, 1953, Geology and mineral deposits of the Zosell (Emery) mining district, Powell county, Montana: Montana Bureau of Mines and Geology memoir 34.

The Zosell Mining District is underlain by Late Cretaceous andesite and basalt flows. The flows are greenish-gray and are commonly either amygdaloidal or porphyritic showing pyroxene or plagioclase phenocrysts. Near veins, the flows are bleached light gray and contain some pyrite. This series of rocks has been intruded by the Boulder batholith, whose border lies about 10 miles east of the district. The northern edge of the Warm Springs batholith, an outlier of the main Boulder batholith, is about 4 miles south of the district.

Lead, silver, and gold ores are found in quartz-carbonate fissure veins which contain pyrite, galena, sphalerite, and other, less abundant sulfide minerals. The veins are of two types, (1) flat to gently dipping or (2) vertical to steeply dipping. To date, the flat or gently dipping veins have been the most productive.

Both vein types are found on the Hidden Hand group of claims. The Hidden Hand vein is a quartz-filled breccia zone that strikes north to northwest and dips 10°-30° E. This is the most extensively explored vein on the property (pl. 1) and the only one that has yielded an appreciable amount of ore. The vein the applicant proposes to explore, the Deep Gulch vein, strikes east-west and dips about 80° N. (pl. 2). It is best exposed in the recent dozer cut for a distance of about 150 feet west of the old shaft (pl. 2). The vein there may be as wide as 10 feet and consists of white to buff, highly altered wall rock, white to gray, somewhat vuggy quartz, and some limonite boxworks. Pyrite, arsenopyrite, chalcopyrite, and finely disseminated galena are found locally in the quartz, and stringers of almost pure galena as much as 2 inches wide traverse the whole vein zone in the area immediately west of the old shaft. The hanging-wall portion of the vein is exposed near the western end of the dozer cut and is similar to the vein near the old shaft except for the absence of galena.

Several minor structures are found along the north wall of the Deep Gulch dozer cut just west of the old shaft. The most prominent are two, near vertical limonite-rich gouge zones striking northwesterly away from the main Deep Gulch vein. The wall rock between these two zones is broken and limonite stained. A short distance to the east, a quartz vein up to 1-foot thick containing disseminated fine-grained galena strikes northeasterly away from the main vein. A BMEA assay of this material showed 0.60 ounce gold and 2.75 ounces silver per ton and 0.5 percent lead. The applicant believes that these structures may be important in localizing the ore.

Assays of samples from the Deep Gulch vein as furnished by the applicant are tabulated below.

| Sample No. | Oz. Au/ton | Oz. Ag/ton | % Pb | % Zn |
|---|---|---|---|---|
| 401 | 0.010 | 0.10 | 2.70 | 0.2 |
| 402 | 0.040 | 2.0 | 0.20 | 0.0 |
| 403 | 0.040 | 0.6 | 0.60 | 0.0 |
| 404 | 0.040 | 9.2 | 7.0 | 0.75 |
| 405 | 0.060 | 12.8 | 13.2 | 0.70 |
| 406 | 0.060 | 8.6 | 10.0 | 0.60 |
| | 0.13 | 4.4 | 5.2 | |
| | 0.02 | 9.0 | 6.6 | |
| | 0.05 | 0.6 | 1.1 | |
| | 0.03 | 12.4 | 9.2 | 17.2 |

w' ellbo ?

The numbered samples were collected by Norman L. Degner of the Anaconda Copper Mining Company (his letter to the applicant is included with the application); the unnumbered assays are taken from the applicant's map. No BMEA samples from the Deep Gulch vein were assayed as the above-listed samples appear to be accurate. Sample 401 is from the dump of the old adit to the Deep Gulch vein; 402 and 403 are from the western part of the Deep Gulch dozer cut, and 404, 405, and 406 are from the better portion of the vein in the dozer cut just west of the old shaft. The first two unnumbered samples are also from the better portion of the vein and the last two samples are from two shallow drill holes in this same area. Samples 402 and 403 are low as would be expected because they are

from near the original surface. Except for the high zinc content of the last sample, the remainder of the assays are as would be expected from the better portion of the vein and are close to the average grade of the three small shipments from this area.

From exposures in the dozer trenches and the material on the dump of the old adit to the Deep Gulch vein, it appeared to the DMEA examiners that a small amount of marginal grade material could be obtained from the vein just west of the old shaft but that the remainder of the vein did not look promising. Consequently, they concluded that the chances of making a significant discovery were only fair. Since examination of the property, the applicant has cleaned out the old adit and he reports that it ends about 110 feet below the floor of the dozer cut about 75 feet west of the old shaft. He showed me samples from this adit which contain a considerable amount of lead. These facts may necessitate changing our original conclusions.

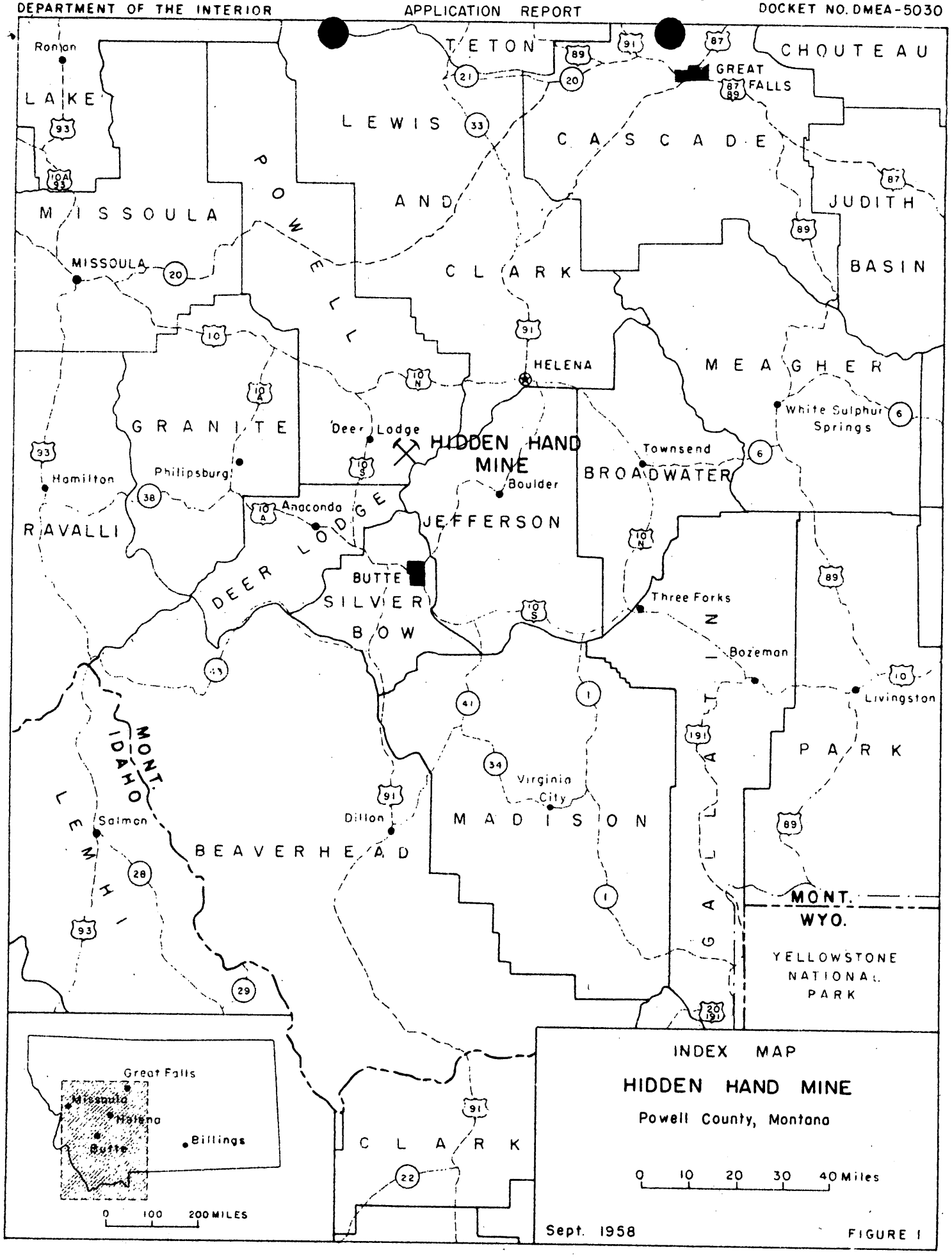
## APPLICANT'S PROPOSAL

The applicant proposed to explore the property by stripping 75 feet of vein to a depth of about 30 feet and by rehabilitating an estimated 88 feet of old adit. He estimated that the stripping would cost about $7,115, and the rehabilitation, $1,760, at a total cost of $8,875.

The DMEA field examiners pointed out to the applicant that the stripping was a costly operation for the information that would be gained and that for only a little more expense, a much greater area could be explored by underground work. Consequently, we suggested that the first step be to clean out the old adit and that if the vein in the old adit looked promising, then drifting could be done from it.

Since our examination, the applicant has cleaned out the old adit and to his surprise found 400 feet of drifting along the vein already completed. Inasmuch as I have never seen the rehabilitated adit, I do not feel justified in suggesting an exploration program without re-examining the property.

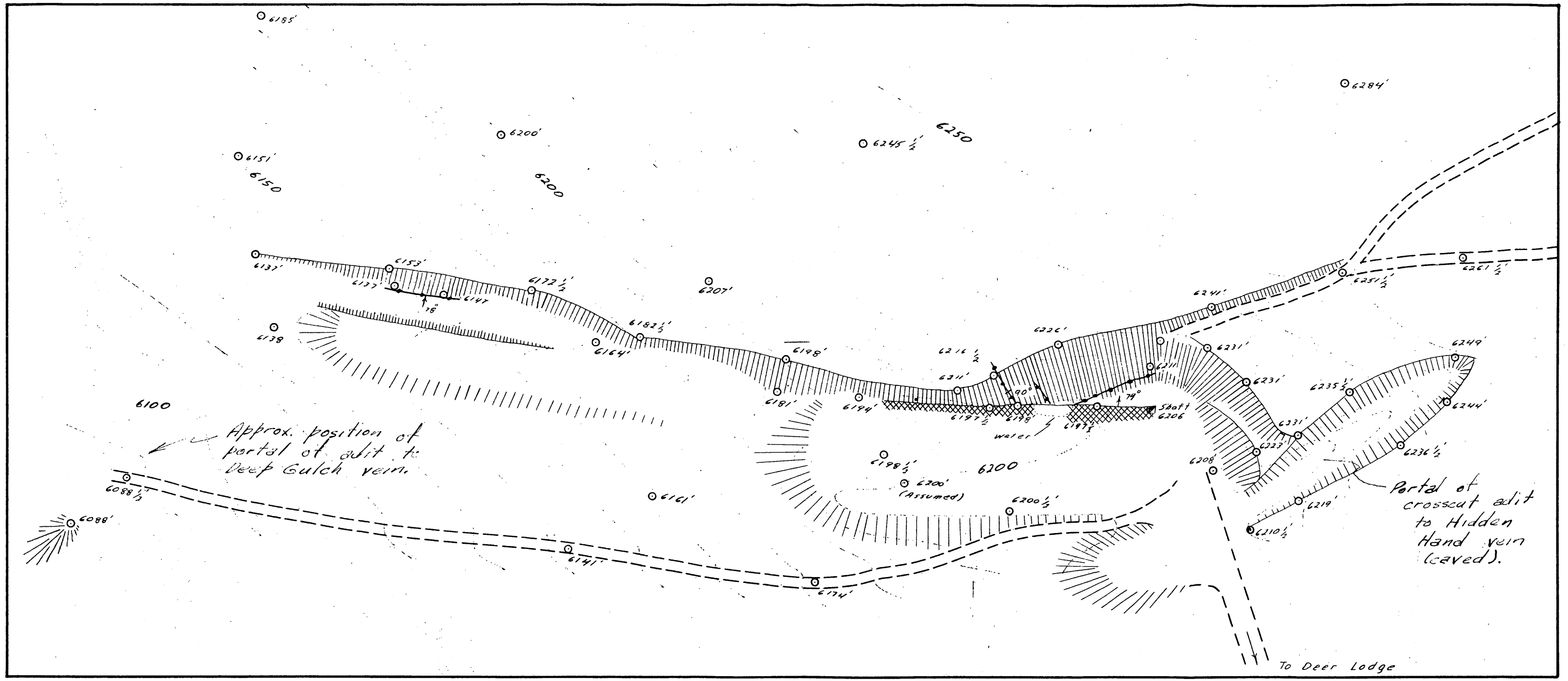
Enclosures
Distribution:
DMEA(3) ✓
USBM(2)
USGS(SRO)
Prinz
Docket


Ronan
LAKE
MISSOULA
MISSOULA
TETON
LEWIS
AND
CLARK
POWELL
CHOUTEAU
GREAT FALLS
CASCADE
JUDITH
BASIN
MEAGHER
White Sulphur Springs
HELENA
GRANITE
Deer Lodge
HIDDEN HAND MINE
Philipsburg
Hamilton
RAVALLI
Anaconda
DEER LODGE
JEFFERSON
Boulder
Townsend
BROADWATER
BUTTE
SILVER BOW
Three Forks
GALLATIN
Bozeman
Livingston
PARK
MONT.
IDAHO
LEMHI
Salmon
Dillon
BEAVERHEAD
Virginia City
MADISON
MONT.
WYO.
YELLOWSTONE NATIONAL PARK
CLARK
Great Falls
Missoula
Helena
Butte
Billings
0 100 200 MILES
INDEX MAP
HIDDEN HAND MINE
Powell County, Montana
0 10 20 30 40 Miles
Sept. 1958
FIGURE 1

UNITED STATES
DEPARTMENT OF THE INTERIOR

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
APPLICATION REPORT

DOCKET NO. DMEA 5030




N

N. 6°

EXPLANATION

Vein

cut

Dump

Plane table survey by W.C. Prinz, U.S.G.S. and J.A. Bowsher, U.S.B.M., May, 1958.

GEOLOGIC MAP

DEEP GULCH VEIN
HIDDEN HAND MINE
POWELL COUNTY, MONTANA

50 25 0 50 100 FEET
Contour Interval 10 feet

Sept. 1958

Plate 2

So. 157 Howard Street
Spokane 4, Washington

September 5, 1958

RECEIVED SEP 12 1958
DATE | REF
9/12 | C 220
225

Mr. Howard C. Banks
General Delivery
Deer Lodge, Montana

Re: Docket No. DMEA 5030 (Lead)
Howard C. Banks
Hidden Hand Group of Claims
Powell County, Montana

Dear Mr. Banks:

This is in reply to your letter of September 2, 1958, in which you ask regarding the status of DMEA and your application.

The statement in the Administrator's letter regarding more information was in reference to the tunnel which was inaccessible to the examiners and which you have now opened up.

DMEA was discontinued June 30, 1958, except for the completion of the contracts in force on that date. However, under the law enacted in August the Office of Minerals Exploration is in the process of organizing and as soon as we receive the details of administration we will advise you as to what you should do to reinstate your application.

Sincerely yours,

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

cc: DMEA (2) w/incoming
USBM (2) "

So. 177 Howard Street
Spokane 4, Washington

September 5, 1958

EXTRA COPY
DMEA
RECEIVED SEP 12 1958

| DATE | INITIALS | CODE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

Mr. Howard C. Banks
General Delivery
Deer Lodge, Montana

Re: Docket No. DMEA 5030 (Lead)
Howard C. Banks
Hidden Hand Group of Claims
Powell County, Montana

Dear Mr. Banks:

This is in reply to your letter of September 2, 1958, in which you ask regarding the status of DMEA and your application.

The statement in the Administrator's letter regarding more information was in reference to the tunnel which was inaccessible to the examiners and which you have now opened up.

DMEA was discontinued June 30, 1958, except for the completion of the contracts in force on that date. However, under the law enacted in August the Office of Minerals Exploration is in the process of organizing and as soon as we receive the details of administration we will advise you as to what you should do to reinstate your application.

Sincerely yours,

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

cc: DMEA (2) w/incoming ✓
USBM (2) "

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| 8/22 | [illegible] | 500 |
| 8/22 | [illegible] | 130 |
| 8/22 | [illegible] | 130 |
| 8/22 | [illegible] | 130 |
| " | [illegible] | 160 |
| " | [illegible] | 160 |
| | | 220 |
| | | 500 |
| | | |

AUG 22 1958

Mr. Howard C. Banks
General Delivery
Deer Lodge, Montana

Re: Docket No. DMEA 5030 (lead)
Howard C. Banks
Hidden Hand Group of Claims
Powell County, Montana

Dear Mr. Banks:

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. However, our decision would have been made without prejudice to the property, since the old workings were not accessible at the time of the examination.

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.

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

8623

AXXXXXXX-130K

AXXXXXXX-131K

AXXXXXXX-132K

AXXXXXXX-133K

AXXXXXXX-134K

AXXXXXXX-135K

AXXXXXXX-136K

AXXXXXXX-137K

XDXXXXXX-138K

YWA185 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
14X1001(01)
Revolving Fund, Defense
Production Act, Interior,
(Transfer to Office of Secy.)

# M E M O R A N D U M

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

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

DMEA 4987 TIDAL WAVE MINING, INC.

DMEA 5001 WILLIAM ALBERT HALL

~~DMEA 5024 UNITED LEAD MINING CO.~~ Report rec'd

DMEA 5030 HOWARD C. [illegible]

DMEA 5045 CLARENCE E. [illegible]

DMEA 5047 CHEMICAL COPPER CO.

DMEA 5049 [illegible] AND [illegible] MINES

PLEASE ADVISE US BY TELETYPE AS TO WHICH OF THE ABOVE YOU WILL RECEIVE FINAL.

George C. Selfridge
CHAIRMAN, OPERATING COMMITTEE

WRO/dl 8-15-58
cc to: Dunkate (7) Chron.
Admr. R. File Conf. to Mag I
Oper. Comm.

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

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 12 1958
6/12 6 220
6/12 500

June 9, 1958

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

Re: Docket No. DMEA-5030 (Lead)
Howard C. Banks
Hidden Hand Group of Claims
Powell County, Montana

Dear Mr. Selfridge:

Enclosed are the following copies of instruments submitted by Howard C. Banks as part of his application. After copies were made, the originals were returned to the applicant at his request:

1. Deed of Mining Claims dated October 7, 1939 between Ludwig S. Mussigbrod and W. M. Howard.

2. Deed of Mining Claims dated December 4, 1945 between William Howard and Fern L. Howard.

3. Extension of Lease dated June 5, 1953.

4. Lease and Option dated August 15, 1937 between Henry Peterson and Charles F. Jensen and Ludwig S. Mussigbrod.

Sincerely yours,

A. E. Weissenborn

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

Enclosures

cc: USBM (2)
Prinz

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| 5/28 | Klugescheid | 500 |
| | | 500 |
| 5/28 | Selfridge | 130 |
| 5/28 | Lamb | 130 |
| 5/28 | Dagaard | 130 |
| " | Johnson | 110 |
| " | Mittendorf | 100 |
| 5/29 | C | 220 |
| | | 500 |

MAY 28 1958

Mr. Howard C. Banks
General Delivery
Deer Lodge, Montana

Re: Docket No. DMEA-5030 (Lead)
Howard C. Banks
Hidden Hand Group of Claims
Powell County, Montana

Dear Mr. Banks:

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

If the Field Team requires additional information concerning your application, they will contact you at an early date.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

WPKlugescheid/er 5/28/58
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 |
|---|---|---|
| 5/28 | Klugescheid | 500 |
| 5/28 | Onofreane | 500 |
| 5/28 | GCS | 130 |
| " | Johnson | 110 |
| " | Christensen | 100 |
| | | 220 |
| | | 500 |
| | | |
| | | |

500

MAY 28 1958

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

Re: Docket No. DMEA-5030 (Lead)
Howard C. Banks
Hidden Hand Group of Claims
Powell County, Montana

Dear Mr. Weissenborn:

The cited application for exploration assistance is being referred to your office for consideration, a field examination of the property if warranted, and recommendations.

Probably you will have made an examination of this property by this time. The project is a rather weak one and would not prove very much. Maybe you might be able to suggest a better plan but we are afraid that the Applicant is rather short of funds and that any really worthwhile project would be out of his reach.

There probably will be no difficutlty in obtaining the lacking papers.

Copies of memoranda dated May 26 and 27, 1958, by N. E. Nelson, Geological Survey, and O. M. Bishop, Bureau of Mines, respectively, relating to the project are enclosed for your information. We are also enclosing a copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

Frank D. Lamb

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

WPKlugescheid/er 5/28/58
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

8623

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

May 27, 1958

5/29 C
5/29 Klug. 220 500

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

Re: New Application (Lead)
Howard C. Banks
Hidden Hand Group of Claims
Powell County, Montana

Dear Mr. Selfridge:

Enclosed are three thermofax copies of Assignment of Interest in Sublease to Mining Claims dated October 13, 1954. These copies were made from the original document which was returned to Mr. Banks at his request.

Sincerely yours,

A. E. Weissenborn

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

Enclosures

cc: USBM (2)
Prinz

ORIGINAL FILE COPY
DMEA
RECEIVED MAY 27 1958

| DATE | | |
|---|---|---|
| 5/27 | H.G. | 225 |
| 5/27 | Edy | 500 |

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

May 27, 1958

Re: DMEA 5030; Lead-Zinc
$8,875
Howard C. Banks
Hidden Hand claims
Powell County, Mont.

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Review of application dated May 13 and received Washington May 16, 1958

The applicant requests DMEA assistance to explore an outcropping vein carrying lead-silver-zinc values. He proposes to strip a 75-foot section of outcrop and rehabilitate 88 feet of crosscut adit to sample the vein.

I note a field examination has been scheduled so that the application can be given proper consideration.

O. M. Bishop

O. M. Bishop

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

IN REPLY REFER TO:

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

May 26, 1958

Re: DMEA 5030
Howard C. Banks
Hidden Hand Group
Powell County, Montana
$8,875.00 - Lead

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 by deeper stripping (bulldozer) a narrow lead-silver vein exposed in an open cut. Rehabilitation of an old drift, 88 feet long, is also proposed.

The applicant has exposed the 4-11 foot Deep Gulch vein for 288 feet by bulldozing. Three truckloads of ore were recovered in stripping the outcrop. The net value of the three loads is $333.74. Samples, taken by an ACM engineer, of 2 feet of the high grade part of the vein exposed for 25 feet averaged -

| Au Oz. | Ag Oz. | Pb % | Zn % |
|---|---|---|---|
| 0.050 | 10.2 | 10.1 | 0.68 |

Further work may be warranted.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

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

May 23, 1958

Mr. Howard C. Banks
General Delivery
Deer Lodge, Montana

Subject: DMEA-5030

Dear Mr. Banks:

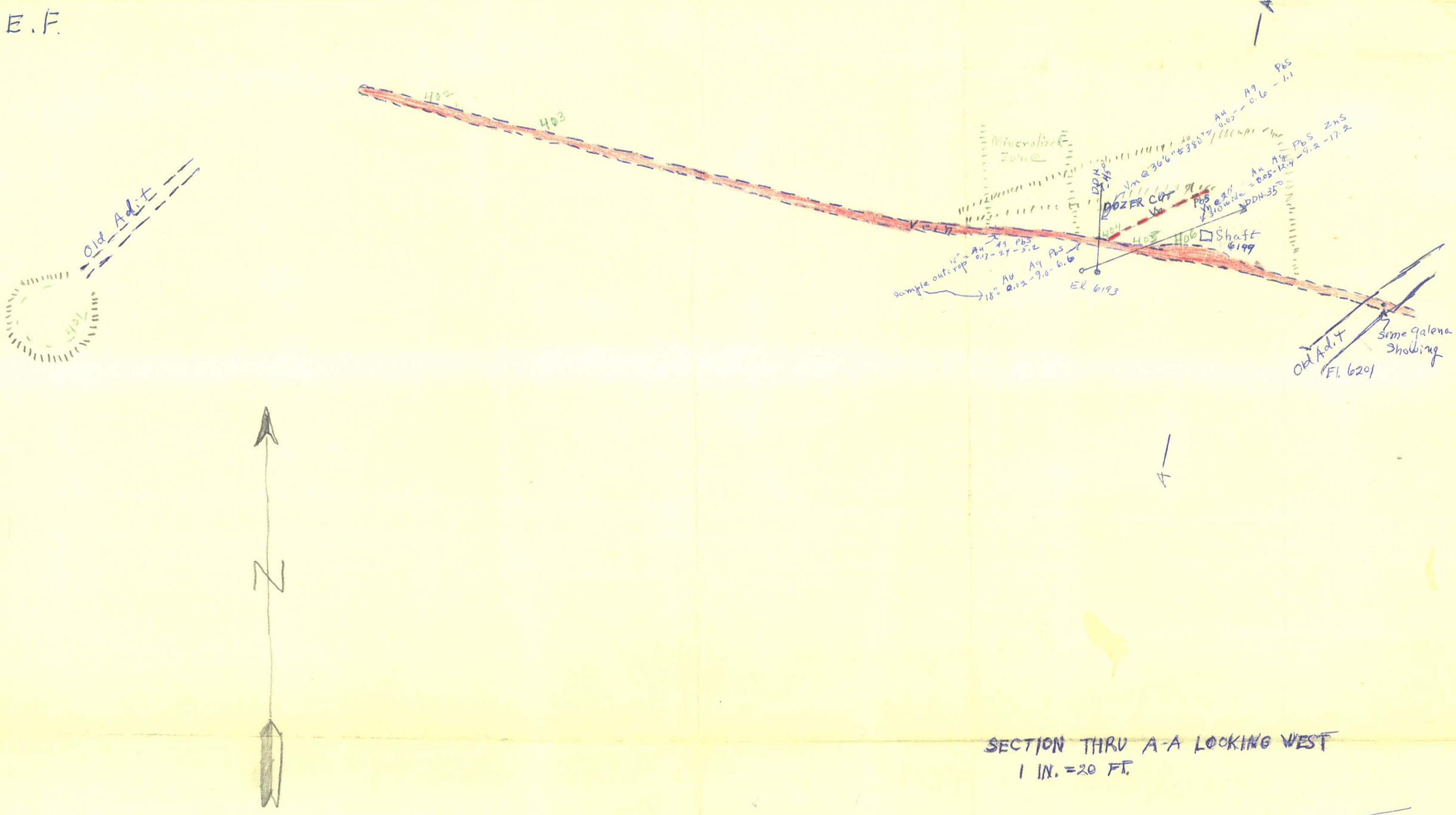
Your application for exploration assistance, dated May 13, 1958 submitted to our office at Spokane, Washington has been assigned Docket Number DMEA-5030 and referred to the Base Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

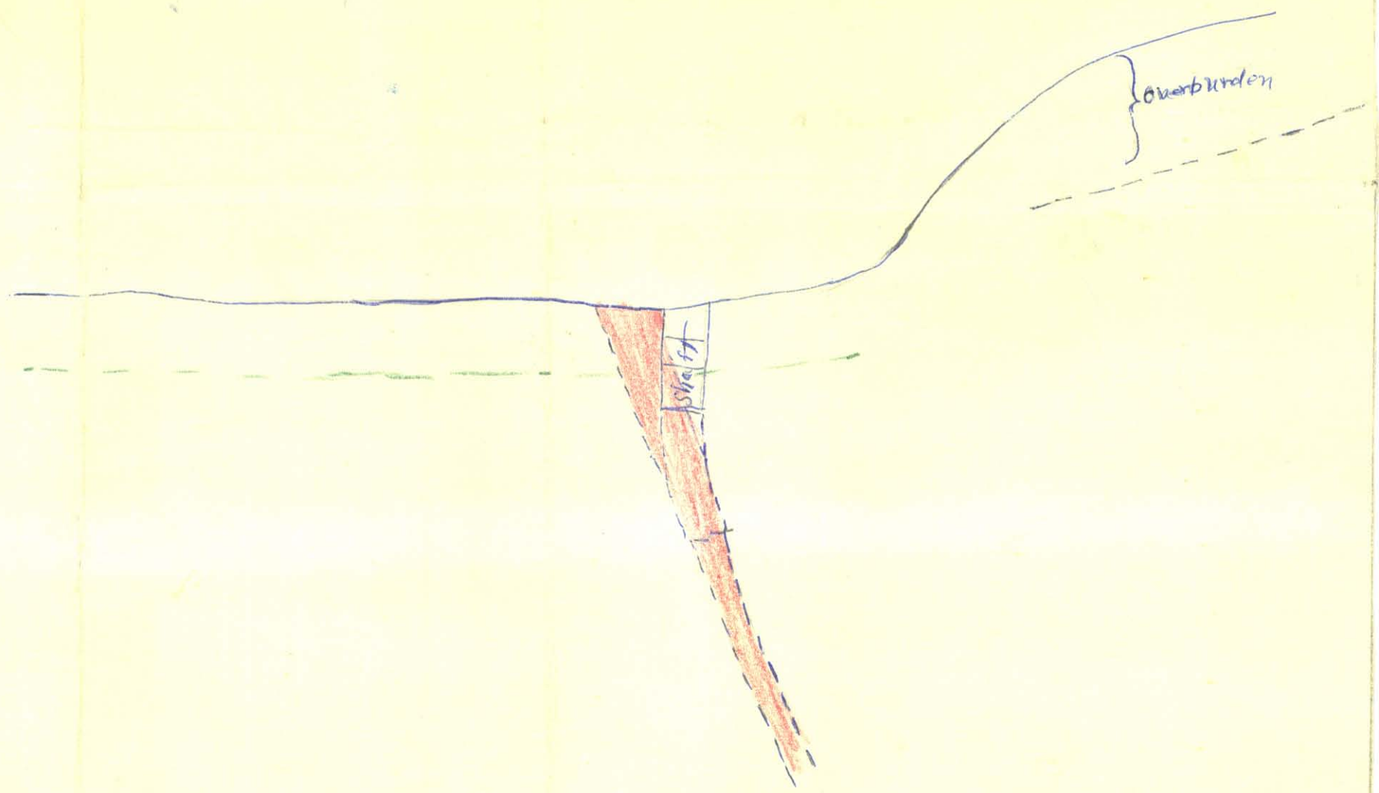
Copy to: Region I.

2-E.F.




HIDDEN HAND MINING AREA
EAST OF DEER LODGE, MONT.
SCALE 1 INCH = 20 FEET
VEINS IN RED

SECTION THRU A-A LOOKING WEST
1 IN. = 20 FT.




This is a copy of a sketch made by Mr. Nugent of Bunker Hill-Sullivan at Kellogg, Idaho, in September, 1956. The diamond drilling indicated was done by John J., Inc., Butte, Montana, in August, 1956. The green lines indicate the level of work reached by September, 1957. The green numbers indicate location of samples taken and assayed by Mr. Degner of ACM in Butte, as mentioned in his accompanying letter, July, 1957.


OFFICIAL FILE COPY
DMEA
RECEIVED MAY 22 1958

| DATE | INITIALS | CODE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |