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

AUG 11 1959

Pilot Mining Company
c/o Mr. J. A. Barry
1320 Arrington Street
Los Angeles 6, California

Re: Docket No. OME-6032 (Barry)
Pilot Mining Company
Rushing Quicksilver Mine
Mineral County, Nevada

Gentlemen:

Your application for aid in an exploration project and other information available to us in Washington concerning the above-named property have been reviewed.

Careful study of all the information available to us indicates that the probability of disclosing significant ore reserves on your property is not sufficiently promising to justify Government participation in the proposed exploration. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

Sincerely yours,

Frank E. Johnson

Acting Director

JWHlt/gla
8-10-59
cc to: Director's Reading File
Operating Committee
J. W. Pennington, USBM
Harold Kirkham, USGS
OME Field Team, Region II (2) w/2cys each USBM memo 6/18/59
Code 500 and USGS memo 7/15/59

June 14, 1957

Memorandum

To: W. D. Martin, Office of Minerals Exploration

From: Assistant Chief, Branch of Base Metals

Subject: Review of field trip examination report, Robert Ho. Hindman (Norway), Pilot Mining Co., Bunking quicksilver mine, Humboldt County, Nevada.

The applicant proposes to explore the mineral in the Bunking quicksilver mine by 50 feet of drifting, crosscuts, or raises, and 30 feet of diamond drill holes at an estimated cost of $3,000.00.

After examining the property, D. H. Hindman, U. S. Bureau of Mines, concludes that the geologic probability of mining a significant discovery of cinnabar by any type of exploration on the Bunking quicksilver mine is poor.

I concur with the recommendation of the field team that the application for exploration assistance be denied.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Bureau Mining and, U. S. G. S.
F. H. Lamb
File

JWPennington:nf

July 15, 1959
Re: OME 6032 (Mercury)
Pilot Mining Co.
Redwing Quicksilver Mine
Mineral County, Nevada

Memorandum

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

From: Harold Kirkemo, U. S. Geological Survey

Subject: Review of Field Team Report on Redwing Quicksilver Mine

Three examinations have been made of the mine in response to three applications for Government assistance in exploration. The examiners concluded that the cost of the proposed exploration would equal or exceed the value of ore that might be discovered and they recommended denial of the applications.

Shallow prospect pits, a 25-foot incline shaft, and four adits totalling 250 feet in length have exposed films, veinlets, and sparse disseminations of cinnabar along faults in conglomerate and silicified limestone. There are no indications that more favorable geologic conditions leading to significant ore deposits will be discovered with additional exploration.

I concur with the Field Team in recommending denial of the application for exploration assistance.

H. Kirkemo

cc: OME (3)
James Pennington, 3623
Director's reading
Branch reading
Chron. file
Docket file
HKirkemo/mm
G-MD-7-15-59

6032

COPY

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

1605 Evans Avenue
Reno, Nevada

June 9, 1959

Memorandum

To: Operating Committee, OME, Interior Building
Washington 25, D. C.

From: Acting Executive Officer, OME Field Team, Region II

Subject: Docket OME-6032 (Mercury)
Pilot Mining Company
Redwing Quicksilver Mine
Mineral County, Nevada
(Your letter, April 17, 1959)

Enclosed are three copies of a report by B. H. Sheahan, Bureau of Mines, on subject property recommending that the application for OME exploration aid be denied.

Mr. Dietrich and I concur in the recommendations.

/s/ Roscoe M. Smith
Acting Executive Officer
OME Field Team, Region II

Attachments

Reviewed by
OME OPERATING COMMITTEE

_____
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

OFFICE OF MINERALS EXPLORATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

# APPLICATION REPORT

OME-6032 (Mercury)
Pilot Mining Company
Redwing Quicksilver Mine
Mineral County, Nevada

by

B. H. Sheahan
U. S. Bureau of Mines

EXTRA COPY
C. M. E.
RECEIVED JUN 11 1959

| DATE | INITIALS | CODE |
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Reviewed by
OME OPERATING COMMITTEE

_____
(date)

June 5, 1959

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## INTRODUCTION

The Pilot Mining Company, 1320 Arapahoe Street, Los Angeles 6, California, a limited partnership of J. A. Barry and M. H. Nystrom, applied to the Office of Mineral Exploration on April 1, 1959, Docket OME-6032, for assistance to explore for mercury at the Redwing Quicksilver Mine, Mineral County, Nevada. The applicant proposes an exploration project consisting of 40 feet of drifts, crosscuts or raises, and 30 feet of winze. He estimates that the exploration work will cost $3,540.00.

The prospect was the subject of three previous DMEA applications, Docket DMEA-2808, dated December 8, 1952; Docket DMEA-4489 dated September 28, 1956; and Docket DMEA-5075, dated June 26, 1958. The first and second requests for assistance were denied. The third application was reviewed and a referral to the field was combined with the recent application Docket OME-6032.

The property was examined by B. H. Sheahan, U. S. Bureau of Mines, on May 12, 1959, accompanied by J. A. Barry, general partner, and his assistants - Fred Gilbert and Logan Gilbert of Luning, Nevada. Exploration work completed since the prior examination, consisting of 60 feet of drifting, 8 feet of raising, and 12 feet of winzing, was mapped and sampled. Information available from prior application reports and publications was carefully reviewed and checked.

## CONCLUSIONS AND RECOMMENDATIONS

The geologic probability of making a significant discovery of mercury by any type of exploration work at the Redwing Quicksilver Mine is poor. Exploration proposed by the applicant is not justified and, consequently, a denial of exploration assistance is recommended.

I am essentially in complete agreement with the conclusions expressed in the prior DMEA examination reports.

## LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Redwing prospect is about ten miles southeast of Mina, Nevada. It is in the N1/2 sec. 20, T. 6 N., R. 36 E., M. D. B. &M. at an altitude of 7,400 to 7,750 feet in the Pilot Mountain range, Mineral County, Nevada.

To reach the property from the U. S. Post Office, at Mina, travel 0.8 miles north on U. S. Highway No. 95, turn right and follow an improved dirt road 8.8 miles eastward to the McKinnon ranch, continue on an unimproved dirt road 1.1 miles southeastward to a cabin on the Redwing property. The main workings are located one-half mile south of the cabin on the Redwing No. 1 claim. The last half mile of road has a 15 percent grade and is not usually passable during winter months because of snow.

Water for domestic use is obtained from small springs near

the Redwing cabin and the McKinnon ranch.

## PROPERTY

### History and Production

The cinnabar occurrences were discovered in 1935, and the Redwing lode claims Nos. 1 through 4 were located by Messrs. Yaunkin and Seitz. A pipe retort was constructed at the Redwing No. 1 claim and was operated intermittently until 1942. Production during that period amounted to about 30 flasks of mercury. The retort has since been removed from the property.

Mr. George J. Barry purchased the claims in 1942 and held them until he died in 1952. His brother, J. A. Barry, inherited the mine and located three additional claims. He organized the Pilot Mountain Mining Company, a partnership, and performed annual assessment work requirements by hiring local contractors.

In 1957, a small submarginal ore body was developed by his contractors, the Gilbert brothers of Luning, Nevada. Ore recovered from 80 feet of drift, winze, and raise amounted to three flasks of mercury. The ore was treated in a plant operated by Hal G. Woolery that is situated two miles north of the property. Mr. J. A. Barry believes that a few additional flasks of mercury may have been recovered and not reported.

The prospect is now idle. Mr. J. A. Barry is an elderly gentleman and has had little mining experience. His contractors, the Gilbert brothers, are capable, elderly, experienced prospectors. They are famous for the discovery of silver-gold deposits in the Gilbert Mining District, Esmeralda County, Nevada.

## Ownership

The property consists of seven unpatented lode mining claims in a contiguous group, which are owned by the applicant.

Location certificates are recorded at the County Recorder's office, Hawthorne, Mineral County, Nevada. A list of these claim recordings follow:

| Name of Claims | Date located | Book | Page Nos. |
|---|---|---|---|
| Redwing Nos. 1, 2, 3, and 4 | 7/1/39 | 11 | 251-253 |
| Redwing Nos. 5, 6, and 7 | 11/21/52 | 14 | 413-414 |

## Development

The only surface improvement on the property is a small cabin suitable for two workmen. Equipment used for annual assessment work is owned by the Gilbert brothers. There is no equipment on the claims.

Underground workings consist of a 25-foot incline shaft and four adits totaling 250 feet in length. There are several shallow

prospect pits and trenches but most of these are partly filled with muck caved from the sides of the excavations. All of the workings are dry and very little timber has been used to support the ground. Vein material that has been recovered from the deposit was selectively mined, screened to one inch, and coarse rock was hand sorted. The minus one-inch material and coarse ore was furnaced in pipe retorts.

## GEOLOGY

### Geologic Setting

### Ore Deposits and Ore Reserves

The rocks are part of the Dunlap formation and consist of red and brown sandstone and conglomerate overlying a partly silicified fine-grained, white limestone. Cinnabar is associated with quartz and calcite in fault gouge and occurs in minor amounts as filling of narrow cracks and fissures.

Recent development exposed a veinlet of cinnabar varying from less than one-eighth inch to one-half inch in width, and along a strike length of 25 feet as indicated on attached sketch map, Fig. 1. The veinlet pinched out a few feet north of a 12-foot winze, and also pinched out on the southeast side of the winze and drift.

There are no measured or indicated ore reserves on the property. Inferred reserves amount to less than 50 flasks of contained quicksilver.

The cost of development would exceed the value of the ore, as based upon the results of sampling and from production records.

## Sampling

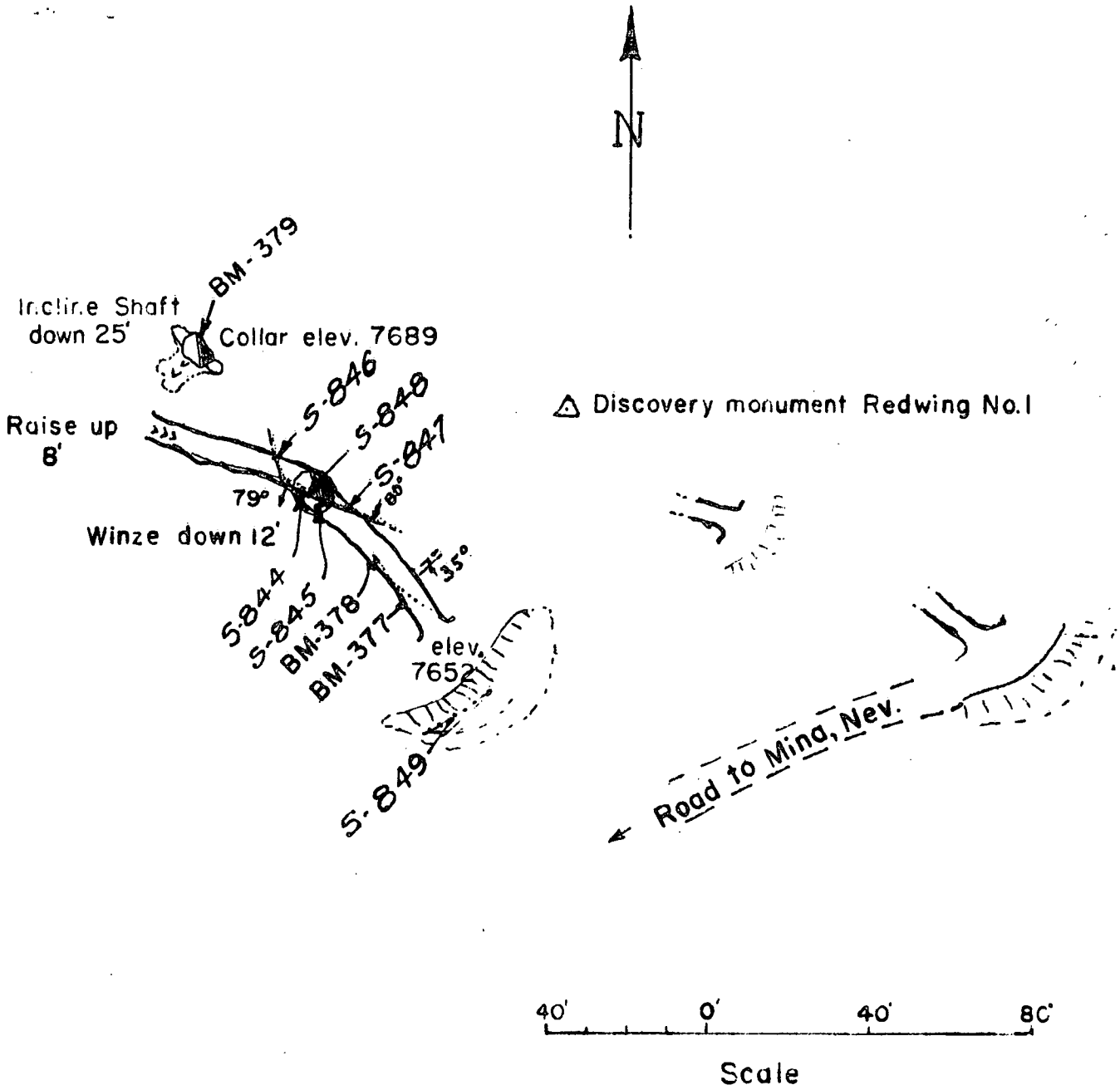
Sample assays indicate that there is practically no ore exposed on the property. The highest grade sample, S-848, represents no appreciable tonnage. Sample locations are indicated on attached sketch map, Fig. 1.

Samples BM-377, BM-378, and BM-379, taken by the previous examiners, are listed:

| Sample No. | Description | Pounds Hg/Ton |
|---|---|---|
| 377 | New cut, across 4 inches | 34.1 |
| 378 | New cut, across 1 foot | 1.8 |
| 379 | Shaft, across 1 foot | 1.8 |

The following samples were taken May 12, 1959:

| Sample No. | Type | Width inches | Pounds Hg/Ton | Description and remarks |
|---|---|---|---|---|
| S-844 | Chip | 14 | 0.7 | Cinnabar with quartz and calcite gangue, from north end of winze. |
| S-845 | Grab | - | 0.3 | Grab sample of muck in bottom of winze. |
| S-846 | Chip | 12 | 1.1 | Limestone with cinnabar veinlets in back of drift. |
| S-847 | Chip | 2 | 1.1 | Calcite and cinnabar veinlet in back of drift. |
| S-848 | Chip | 1 | 359.0 | Calcite and cinnabar veinlet in back of drift. |
| S-849 | Grab | - | 0.5 | Grab sample of low grade material stockpiled at dump. |




*Sketch Map*

*OME 6032 (mercury) Redwing Property*

*Mineral County Nevada*

*B. H. Sheahan May 12, 1959*

*Fig. 1*

EXTRA COPY
O. M. E.
RECEIVED JUN 11 1959

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

APR 17 1959

Memorandum

To: Executive Officer, OME Field Team, Region II

From: ACTING Chairman, Operating Committee, OME

Subject: Docket No. OME 6032 - Mercury
Pilot Mining Company
Redwing Quicksilver Mine
Mineral County, Nevada

The subject application is being referred to you for evaluation, and an examination if the work completed since the last examination, and the proposed new work, require one.

Copies of memoranda dated December 31, 1958, and April 13, 1959, by H. E. Nelson, Geological Survey, and January 7, 1959, by J. W. Pennington, Bureau of Mines, are enclosed. Also enclosed is an extra copy of the application for the use of the Field Team.

The Applicant submitted letters from two banks as evidence of its inability to secure funds from commercial sources on reasonable terms. Since our letter of January 29, 1959, did not request financial statements for the partnership or its members, and the Applicant appears to have limited resources, we are referring the application to you without further proof of financial eligibility. However, if a contract appears likely, the Field Team should inform the Applicant that before processing of the application can be completed, it will be necessary to furnish a recent detailed statement showing assets, liabilities and net worth of the partnership and each partner. The Field Team should not make any implication that a loan will be granted.

W. S. Martin

Enclosures

APPROVED:
G. W. Josephson
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

SPHOLT:fce 4-16-59
cc to: Code 400
Director's Read. File
Operating Comm.
FT. REG. II
Messrs. J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

April 13, 1959
Re: OME 6032
Rodring Mercury Mine
Mineral County, Nevada
Appl. Est.$3,540 - Mercury

Memorandum

To: W. S. Martin, Office of Minerals Exploration

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

Subject: Review of application

This request for assistance in exploring a narrow mercury-bearing fault vein is the fourth filed by the applicant.

In a review of the third application, 5075, I recommended that the application be referred to the Field Team, inasmuch as 90 feet of work done since 1956, the date of the filing of the second application, had opened up, as claimed by the applicant, a rich ore shoot. In that review, I said, "If the vein is as good in the floor of the undercut (winze) as seems to have been mined the prospects have been improved. Otherwise the observation of the first examiner remains good".

As we have no new information that tends to discredit the claim of the applicant, I still recommend referral to the Field Team. If the Field Team has or can obtain without an examination information that discredits the data in the application, I will readily agree to a denial. Previous reports of examiners suggest the sampling of earlier workers is not too reliable. Perhaps the information concerning the ore in the undercut is likewise not to be depended upon.

N. E. Nelson

cc: OME (3)
Director's reading
Branch reading
J. W. Pennington, 5623
Chron. file
Docket file
NENelson/mm
G-MD-4-13-59

MME Form 40
Dec. 1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Budget Bureau No. 42-R1368
Approval expires Dec. 31, 1963

APR 8 1959 OME

# APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85-701 (72 Stat. 700; 30 U.S.C. 641)

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

Re: Document No. DMEA 5075
- Mercury
Redwing Quicksilver Mine
Mineral County, Nevada

PILOT MINING CO. c/o J. A. Barry
1320 Arapahoe St., Los Angeles 6, Calif.

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6032.

DATE RECEIVED: 4-3-59

REGION: II

DIVISION CODE: 400

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL
- CORPORATION
- PARTNERSHIP ✓
- OTHER *(Specify)*

STATE IN WHICH FIRM IS ORGANIZED

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

| NAME | ADDRESS | TITLE |
|---|---|---|
| J. A. Barry | 1320 Arapahoe St. Los Angeles 6 Calif. | Sole General Partner of Limited Partnership |
| E. H. Nystrom | 1200 So. Hoover St.. Los Angeles 6, Calif. | Sole Limited Partner |

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE

ESTIMATED COST OF PROJECT $ 2500.00

| PROPERTY NAME | LOCATION COUNTY | STATE |
|---|---|---|
| Redwing Quicksilver Mine | Mineral | Nevada |

## GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). 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 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. 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 3(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 Office of Minerals Exploration, Department of the Interior, Washington 25, D. C., or with the nearest OME 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, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

April 1, 1959
DATED

J. A. Barry
BY *(Signature)*
Sole General Partner, Limited Partnership, Pilot Mining Co.
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. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the exploration [redacted] cost.

## 2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) 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 adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

## 3. 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 land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if 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, giving quantities and grades and sampling methods used. Support 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 have, indicating whether you require their return.

## 4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

## 5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show 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 *land boundaries* or to the closest identifiable corner.

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

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

## 6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

## 7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or 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. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. 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 equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *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 in the exploration work.

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

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(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*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

INT.-DUP. SEC., WASH., D.C. 48740