400

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

JAN 26 1956

Messrs. James H. Colvin and T. C. Stroud
c/o Wade M. Dale
Box 144
Beatty, Nevada

Re: Docket No. DMEA 4029 - Mercury
Curly Wright or Colvin Mine
(Lottie Claims)
Nye County, Nevada

Gentlemen:

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

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

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

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

Sincerely yours,

C. O. Mittondorf

Administrator

ADMcMahon/fec
1-24-56
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. II
H. M. Meyer, USBM
T. H. Kiilsgaard, USGS

January 24, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $26,400.00
Docket No. DMEA 4029 - Mercury
James H. Colvin and T. C. Stroud
Curly Wright or Colvin Mine (Lottie Claims)
Nye County, Nevada

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

(1) The applicants, James H. Colvin and T. C. Stroud, Box 144, Beatty, Nevada, % Wade M. Dale, requested exploration assistance in the amount of $26,400.00 for 500 feet of adit and 300 feet of crosscutting and raising.

(2) The applicants are the owners, by right of location, of seven claims, Lottie and Lottie No. 1 to Lottie No. 6, in the N.½ sec. 30, T. 11 S., R. 48E., M.D.B. & M., in Nye County, Nevada.

(3) The proposed program is to explore downward extensions of exposures on the east side of the ridge. The 500 foot tunnel from the west side of the ridge is expected to cut the ore at sufficient depth and serve as a haulage tunnel.

(4) A field examination showed there are no surface improvements or equipment on the property. The workings include several shallow open cuts, an a 8-foot adit and a 20-foot incline.

The Lottie claim contains cinnabar sparsely disseminated in a gently dipping layer 10 feet thick of partly silicified rhyolite. Six channel cut samples taken by the examining engineer in the presence of Mr. Dale, representative of the applicants, showed only minor amounts of mercury ranging from 0.1 to 1.4 pounds per ton.

(5) The Examiners conclude and recommend that the application for Government assistance be denied because of the very low grade of the deposit and the improbability that any higher grade material will be found. The Field Team and the Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

ADMcMahon/foc
1-24-56
cc to: Docket
Code 400
Admr. Read. File
Operating Comm.

400

RECEIVED
JAN 20 1956

January 1, 1956

Memorandum

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

From: J. W. Pennington, Branch of Base Metals

Subject: Review of Field Team Examination Report, Number No. DMEA 4087 (mercury), James H. Colvin and T. C. Strand, Curly Wright or Colvin Mine (Lottie Claims), Nye County, Nevada $96,400.00

Examination of this property by D. B. Patlock and R. M. Smith, Geological Survey, and R. H. Sheahan, Bureau of Mines, revealed that the mineralized area was very low grade, averaging less than 1.4 pounds mercury per ton of material. In addition, it was improbable that any higher material will be found.

For these reasons, it was recommended that the application for exploration aid be denied.

I concur in the recommendation.

J. W. Pennington

J. W. Pennington

JWPennington/vr

Copy to: Division of Minerals
Branch of Base Metals
J. W. Pennington
R. W. Sheahan
Thor Killegaard, U.S.G.S.
F i l e s

IN REPLY REFER TO:

400

RECEIVED

JAN 13 1956

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

January 12, 1956

Re: DMEA 4029
Calvin and Stroud
Calvin Mine
Nye County, Nevada
$26,400 - Mercury

Copy retain.

Memorandum

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

From: M. K. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

The applicants requested assistance in exploring a body of mercury-bearing rhyolite by adit, raising and crosscutting at an estimated cost of $26,400.

The examiners found that for the most part the mercury occurs near the crest of a flat anticlinal structure developed in a low dipping 10-foot thick rhyolite flow. The map indicates mercury is found and was sampled at four places along the outcrop of the bed in a distance of 680 feet and probably occurs at 3 other places where work has been done. The examiners estimate that on the average one tenth of the outcrop of the mercury-bearing bed shows mercury-bearing material, but as indicated by the channel sampling the best material is low grade:

Sample No.	Width	Lbs. Hg per ton	Remarks
S-415	1.5 ft.	0.8	Open cut, white tuff.
S-416	4.5 ft.	0.1	South side 8 ft. adit.
S-417	2.2 ft.	0.1	Open cut.
S-418	2.0 ft.	0.9	Main incline 8 ft. back of face.
S-419	2.0 ft.	1.3	Main incline below S-418.
S-420	4.5 ft.	1.4	Open cut, northwest side main incline.

Ore reserves

The examiners infer that the mercury-bearing material may extend down-dip 500 feet (about half way thru the ridge), and a 600x500x10 block would contain 220,000 tons, 1/10 of which might contain something less than 1.4 pounds of mercury per ton.

Considering the grade of the material exposed the proposed work is not warranted and the recommendation that the application be denied is justified.

I concur with the recommendation.

H. E. Nelson

H. E. Nelson

HENelson:jeh
G-1/12/56
cc: Director's reading 4212
Branch reading 4212
DMMA (3)
Docket file
H. M. Meyer, 3623

400

OCT 31 1955

Messrs. James H. Calvin and T. C. Stroud
% Wade M. Dale
Box 144
Beatty, Nevada

Re: Docket No. DMRA 4029 - Mercury
Curly Wright or Calvin Mine (Lottie Claims)
Nye County, Nevada

Gentlemen:

The above docketed application for exploration assistance has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. Spangler Richer, Executive Officer, DMRA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada, for a field examination of the property.

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

Sincerely yours,

Frank E. Johnson

Acting Administrator

ADMcMahon/fec
10/28/55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. II
H. M. Meyers, USBM
T. H. Kiilsgaard, USGS

400

OCT 31 1955

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 400 - Mercury
James H. Colvin and T. C. Sprague (Lottie Claims)
Curly Wright or Colvin Mine
Nye County, Nevada

Dear Mr. Richer:

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

Copies of memoranda dated October 24 and October 26, 1955, by J. W. Pennington, Bureau of Mines, and R. E. Nelson, Geological Survey, respectively, relating to the project are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosure

APPROVED:

/s/ Robert W. Geehan

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

ADMcMahon/fee 10/28/55
cc to: Docket
Code 400
Admr. Read. File
Operating Comm.
PT. REG. II
Messrs. Pennington, USBM
Kiilsgaard, USGS

400

IN REPLY REFER TO:

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

RECEIVED
OCT 27 1955

October 26, 1955

Copy retained 400

Re: DMEA 4029
James H. Colvin & T. C. Strand
Curly Wright or Colvin Mine
Nye County, Nevada
$26,400.00 - Mercury

Memorandum

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

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

Subject: Review of application.

I have no information on this prospect.

The applicants request assistance in the exploration of a mercury-bearing ash bed by driving 500 feet of haulage tunnel, and doing 300 feet of raising and crosscutting.

Seven open cuts have been made resulting in 50 tons of material assaying 0.1 to 0.6% Hg, according to the application. There has been no production.

The application says the material is low grade. Such being the case thorough sampling is necessary before action on the application is taken.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-10/26/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
H. M. Meyer, 3623

Copy retained 400

400

RECEIVED
OCT 24 1955

October 24, 1955

Copy retained 400

Memorandum

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

From: J. W. Pennington, Branch of Base Metals

Subject: DMEA application, Docket No. 4089 (mercury), $26,400, James H. Calvin and T. C. Strand, Gabbs, Nevada
Lettie Mercury Mine (Curly Wright or Calvin mine), Beatty, Nevada

To explore this prospect, the applicant proposes to tunnel 500 feet and raise and crosscut 300 feet. The total 800 feet is estimated to cost $26,400.00.

Samples of the exposed mineralized formation assayed from 0.1 to 0.5 percent mercury.

Apparently the Lettie Claims are in or near to the Fluorine (Bare Mountain) district of Nevada. In describing this district, Bailey and Phoenix note that the mines never come up to expectations and the recorded production for the district is less than 800 flasks.

It is recommended that a Field Team examination be made of the property to obtain the information necessary to evaluate the proposal. With the meager information available, the proposed exploration, at present, appears to be too extensive to be justified.

J. W. Pennington

J. W. Pennington

JWPennington/vr

Copy to: Division of Minerals
Branch of Base Metals
J. W. Pennington
Thor Killeghard, U.S.G.S.
F i l e s

400

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

1605 Evans Avenue
Reno, Nevada

January 3, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4029 (Mercury)
James H. Colvin and T C. Stroud
Curly Wright or Colvin Mine (Lottie Claims)
Nye County, Nevada

Reference is made to your letter of October 31, 1955 relative to field examination of subject property.

Attached are four copies of a report by D. B Tatlock, Geological Survey, and B. H. Sheahan, Bureau of Mines, in which it is recommended that the application for exploration aid be denied.

Roscoe Smith and I concur in the recommendation.

S. Ricker

Attach.

SRicker:gh
cc: R. M Smith
File

Reviewed by
DMEA OPERATING COMMITTEE
1-11-56
(date)

6-998

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Report Nos. _____

REVIEW OF EXAMINATION REPORT

State Nevada *County* Nye *Mineral products* Mercury

Name of property Curly Wright or Colvin mine (Lottie claims) (DMEA-4029)

Owner James H. Colvin & T. C. Stroud *Address* Gabbs, Nevada

Lessee or Operator _____ *Address* _____

Location N1/2 sec. 30 (projected), T 11 S., R. 48 E., MDB&M, in the Yucca Mountains at an altitude of about 4,000 feet. About 8 miles from Beatty, Nev.

Examined by D. B. Tatlock & R M. Smith, USGS
B. H. Sheahan, USBM *Date* 11/6/55

Apparent quality of examination and report Good

Discussion and review: The ore bodies are pods and lenses of sparsely disseminated cinnabar confined primarily to a gently dipping layer of silicified and alunitized rhyolitic tuff. Cinnabar occurs as small concentric spheres generally less than 1 millimeter in diameter and as painty coatings in pores and along the faults in the silicified tuff. It also occurs as pink stains in white opal and chalcedony. No other sulfides were seen. Ore reserves of all classifications amount to about 20,000 tons averaging less than 1.4 pounds quicksilver per ton.

DATE	ACTION	BY

Reviewed by
DMEA OPERATING COMMITTEE
1-11-56
(date)

Reviewed by S. Ricker
S. Ricker, Executive Officer, DMEA Field Team, Region II
Date 1/3/56

GPO 83-54658

6-993

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Report Nos. _____

REVIEW OF EXAMINATION REPORT

State Nevada *County* Nye *Mineral products* Mercury

Name of property Curly Wright or Colvin mine (Lottie claims) (DMEA-4029)

Owner James H. Colvin & T. C. Strond *Address* Gabbs, Nevada

Lessee or Operator _____ *Address* _____

Location N1/2 sec. 30 (projected), T 11 S., R. 48 E., MDB&M, in the Yucca Mountains at an altitude of about 4,000 feet. About 8 miles from Beatty, Nev.

Examined by D. B. Tatlock & R M. Smith, USGS
B. H. Sheaban, USBM *Date* 11/6/55

Apparent quality of examination and report Good

Discussion and review: The ore bodies are pods and lenses of sparsely disseminated cinnabar confined primarily to a gently dipping layer of silicified and alunitized rhyolitic tuff. Cinnabar occurs as small concentric spheres generally less than 1 millimeter in diameter and as painty coatings in pores and along the faults in the silicified tuff. It also occurs as pink stains in white opal and chalcedony. No other sulfides were seen. Ore reserves of all classifications amount to about 20,000 tons averaging less than 1.4 pounds quicksilver per ton.

DATE	ACTION	BY

Reviewed by
DMEA OPERATING COMMITTEE

(date)

Reviewed by S. Ricker, Executive Officer, DMEA Field Team, Region II
Date 1/3/56

GPO 83-546 58

BUREAU OF MINES
WASHINGTON, D. C.
JAN 6 10 21 AM '56

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA 4029 (Mercury)
James H. Colvin and T. C. Stroud
Curly Wright or Colvin mine (Lottie claims)
Nye County, Nevada

by

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

D. B. Tatlock
Geologist
U. S. Geological Survey

December 15, 1955

Reviewed by
DMEA OPERATIVE COMMITTEE

(date)

CONTENTS

	Page
INTRODUCTION	1
CONCLUSIONS AND RECOMMENDATIONS	1
LOCATION, ACCESSIBILITY, AND LOCAL RESOURCES	2
HISTORY AND PRODUCTION	2
PROPERTY AND OWNERSHIP	3
DEVELOPMENT	3
GENERAL GEOLOGY	4
ORE DEPOSITS	4
SAMPLING	5
ORE RESERVES	6
PROPOSED EXPLORATION	6

ILLUSTRATIONS

Figure 1 . . . . . Location map

2 . . . . . Geologic map

INTRODUCTION

Mr. James H. Colvin and Mr. T. C. Stroud of Gabbs, Nevada applied for Government assistance in a $26,400.00 program with the Defense Minerals Exploration Administration (Docket DMEA-4029) to explore for mercury at their Lottie claims, also known as the Curly Wright or Colvin mine, Nye County, Nevada.

A field examination was requested by the Operating Committee October 31, 1955 and was made November 6, 1955 by B. H. Sheahan, mining engineer, U. S. Bureau of Mines, and D. B. Tatlock and R. M. Smith, geologists, U. S. Geological Survey, accompanied by Mr. Wade M. Dale of Beatty, Nevada. Mr. Dale prepared the application and is familiar with the property.

The scope of the examination included mapping and check sampling the deposit and discussing the application with the applicants' representative.

CONCLUSIONS AND RECOMMENDATIONS

The Lottie mine contains cinnabar sparsely disseminated in a gently dipping layer 10 feet thick of partly silicified rhyolite. Reserves of all classifications amount to about 20,000 tons averaging less than 1.4 pounds quicksilver per ton.

The applicants propose to explore the deposit by a 500-foot adit and by 300 feet of raising and crosscutting at an estimated total cost of $26,400.00

It is recommended that the application for Government assistance be denied because of the very low grade of the deposit and the improbability that any higher grade material will be found.

LOCATION, ACCESSIBILITY, AND LOCAL RESOURCES

The claims are in the N½ sec. 30 (projected) T. 11 S., R. 48 E., M.D.B.&M., in the Yucca Mountains, Nye County, Nevada, at an altitude of about 4,000 feet.

Beatty, Nevada is the nearest town and source of labor, supplies, and water. From the Beatty Post Office travel northerly 2.9 miles on paved U. S. Highway 95, turn right on Beatty Wash road and travel 5.0 miles east and northeasterly up the sandy wash, turn right up a steep dirt road 0.2 mile to the deposit. The total distance by road from Beatty is 8 miles. A four-wheel drive vehicle is needed to travel over the sandy dirt road and up the last 0.2 mile of steep rocky road to the property.

The region is arid and water is scarce. The western edge of the Tonopah Bombing Range is a few miles east of the claims.

HISTORY AND PRODUCTION

Mr. Wade M. Dale reported that the deposit was discovered by Mr. R. Curley Wright (Death Valley Curley) in 1928. The property was relocated by the applicants July 28, 1955.

Quicksilver occurrences have been known in this section of Nye County for many years but there has been very little production and none from this deposit.

PROPERTY AND OWNERSHIP

The applicants are the owners of the property by right of location. The group includes seven claims, Lottie and Lottie No. 1 to Lottie No. 6. Location certificates are reported to be recorded at Tonopah, Nevada as follows:

Name of Claim	Book No.	Page No.
Lottie	112	562
Lottie No. 1	6	259
Lottie No. 2	6	259
Lottie No. 3	6	260
Lottie No. 4	6	260
Lottie No. 5	6	261
Lottie No. 6	6	261

Mr. James H. Colvin is a mechanic and miner employed at Gabbs, Nevada. Mr. T. C. Stroud also is employed at Gabbs.

DEVELOPMENT

There are no surface improvements or equipment on the property.

The Lottie and Lottie No. 3 claims cover most of the area explored which is indicated on the attached geologic map, fig. 2. The workings include several shallow open cuts, an 8-foot adit, and a 20-foot incline. No timber was needed for ground support. The workings are dry and open.

Mr. Colvin and his partner intended to supply their share of the requested loan by furnishing equipment, supplies, and some labor. They were not interviewed.

GENERAL GEOLOGY

The Lottie mine is in an area of moderate relief on a ridge along the east side of Beatty Wash. The rocks are nearly horizontal Tertiary rhyolite flows and tuffs totaling at least 280 feet in thickness. Locally these have been silicified to opal and chalcedony, and in part leached and alunitized.

The rhyolitic rocks are roughly stratified and individual beds range from 1 inch to 80 feet in thickness. They strike north and dip west about 10 degrees.

Both steeply dipping faults and bedding plane faults cut the rhyolitic rocks; these, in part, have controlled the course of the ore-bearing solutions.

ORE DEPOSITS

The ore bodies are pods and lenses of sparsely disseminated cinnabar confined primarily to a gently dipping layer of silicified and alunitized rhyolitic tuff.

Cinnabar occurs as small concentric spheres generally less than 1 millimeter in diameter and as painty coatings in pores and along the faults in the silicified tuff. It also occurs as pink stains in white opal and chalcedony. No other sulfides were seen.

The best showings of cinnabar are in pods and lenses of pulverulent hydrous silica within a 10-foot layer of silicified tuff about 100 feet below the top of the series of silicified rhyolitic rocks. This tuff layer is overlain and underlain by porphyritic rhyolite flows. The tuff appears to be more permeable than the flow rocks and therefore more favorable for the guiding of ore solutions and the emplacement of ore.

Traces of cinnabar are also enclosed in irregular layers and pods of white opal and chalcedony a few inches thick and several feet long, generally parallel with the bedding, which are found throughout the entire series of rhyolitic rocks.

The applicants have stated that "a gentle anticlinal effect is present" and that "mineralization is greatest in the apex zone of the anticline". This structure is not substantiated by the geologic mapping and probably plays no part in the control of the ore.

SAMPLING

Six channel cuts were taken by the examining engineer with assistance from Mr. Dale. Analyses were made by the Bureau of Mines and locations are shown on attached map, fig. 2.

Sample analyses in the applicants' docket and map are believed by the examining engineer to be erroneously high.

Sample No.	Width	Lbs.Hg per ton	Remarks
S-415	1.5 ft.	0.8	Open cut, white tuff.
S-416	4.5 ft.	0.1	South side 8 ft. adit.
S-417	2.2 ft.	0.1	Open cut.
S-418	2.0 ft.	0.9	Main incline 8 ft. back of face
S-419	2.0 ft.	1.3	Main incline below S-418.
S-420	4.5 ft.	1.4	Open cut, northwest side main incline.

ORE RESERVES

About 50 tons of measured reserves averaging less than 1.4 pounds of quicksilver per ton could be mined from the small cuts and adits in the silicified rhyolite along the east side of the ridge. Indicated reserves amount to about 70 tons averaging less than 1.4 pounds per ton. Inferred reserves have been calculated by assuming that the ore occurs in discontinuous masses which occupy about one-tenth of a block measuring 600 feet long, 500 feet wide, and 10 feet thick. This amounts to about 20,000 tons averaging less than 1.4 pounds of quicksilver per ton.

PROPOSED EXPLORATION

The applicants propose to explore the exposures on the east side of the ridge by approximately 500 feet of adit driven from the west side of the ridge along section AA' (fig. 2), and by a total of 300 feet of raising and cross-cutting, at an estimated total cost of $26,400.00. The adit is to serve as a haulage-way, and thereby eliminate the need for an extra mile of road to the east side of the ridge. Actually an adit 1,000 feet long, rather than 500 feet, would be necessary to reach a point below the ore on the east side of the ridge. The showings do not warrant a project this large, and any additional exploration should be confined to the east side where cinnabar is known to occur. Government assistance is not justified because the existing showings are very low grade and no indications were seen that higher grade ore will be found.

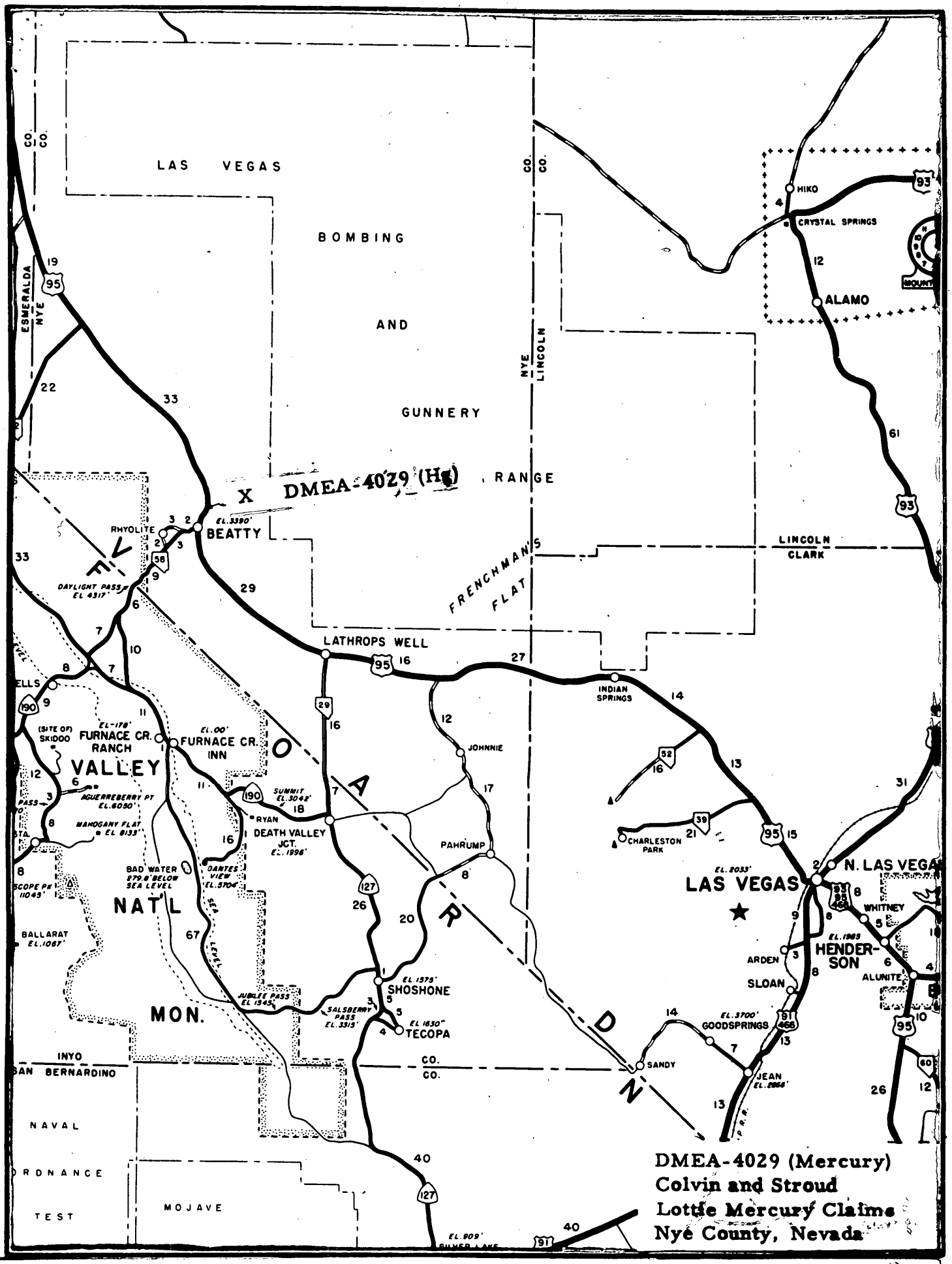

FIG. 1. LOCATION MAP NEVADA

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

400

DOCKET
SURNAME
McMahon
Martin
Geehan
Kilgoard
Selfridge
Johnson

JAN 26 1956

Messrs. James H. Colvin and T. C. Stroud
c/o Wade M. Dale
Box 144
Beatty, Nevada

Re: Docket No. DMEA 4029 - Mercury
Curly Wright or Colvin Mine
(Lottie Claims)
Nye County, Nevada

Gentlemen:

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

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

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

ADMcMahon/foc
1-24-56
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H. M. Meyer, USBM
T. H. Kiilsgaard, USGS

R.G.S.

DOCKET
SURNAME
McMahon
Martin
Hildegaard

400

January 24, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $26,400.00
Docket No. DMEA 4029 - Mercury
James H. Colvin and T. C. Stroud
Curly Wright or Colvin Mine (Lottie Claims)
Nye County, Nevada

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

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(2) The applicants are the owners, by right of location, of seven claims, Lottie and Lottie No. 1 to Lottie No. 6, in the N.½ sec. 30, T. 11 S., R. 48E., M.D.B. & M., in Nye County, Nevada.

(3) The proposed program is to explore downward extensions of exposures on the east side of the ridge. The 500 foot tunnel from the west side of the ridge is expected to cut the ore at sufficient depth and serve as a haulage tunnel.

(4) A field examination showed there are no surface improvements or equipment on the property. The workings include several shallow open cuts, an a 8-foot adit and a 20-foot incline.

The Lottie claim contains cinnabar sparsely disseminated in a gently dipping layer 10 feet thick of partly silicified rhyolite. Six channel cut samples taken by the examining engineer in the presence of Mr. Dale, representative of the applicants, showed only minor amounts of mercury ranging from 0.1 to 1.4 pounds per ton.

(5) The Examiners conclude and recommend that the application for Government assistance be denied because of the very low grade of the deposit and the improbability that any higher grade material will be found. The Field Team and the Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

ADMcMahon/foc
1-24-56
cc to: Docket
Code 400
Admr. Read. File
Operating Comm.

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

January 24, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $26,400.00
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(3) The proposed program is to explore downward extensions of exposures on the east side of the ridge. The 500 foot tunnel from the west side of the ridge is expected to cut the ore at sufficient depth and serve as a haulage tunnel.

(4) A field examination showed there are no surface improvements or equipment on the property. The workings include several shallow open cuts, an a 8-foot adit and a 20-foot incline.

The Lottie claim contains cinnabar sparsely disseminated in a gently dipping layer 10 feet thick of partly silicified rhyolite. Six channel cut samples taken by the examining engineer in the presence of Mr. Dale, representative of the applicants, showed only minor amounts of mercury ranging from 0.1 to 1.4 pounds per ton.

(5) The Examiners conclude and recommend that the application for Government assistance be denied because of the very low grade of the deposit and the improbability that any higher grade material will be found. The Field Team and the Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

W S Martin
W. S. Martin, Chief
Iron and Ferro-Alloys Division

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

Docket

RECEIVED
JAN 20 1956

January 19, 1956

Memorandum

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

WSM

From: J. W. Pennington, Branch of Base Metals

Subject: Review of Field Team Examination Report, Docket No. DMEA 4029 (mercury), James H. Colvin and T. C. Stroud, Curly Wright or Colvin Mine (Lottie Claims), Nye County, Nevada $26,400.00

Examination of this property by D. B. Tatlock and R. M. Smith, Geological Survey, and B. H. Sheahan, Bureau of Mines, revealed that the mineralized area was very low grade, averaging less than 1.4 pounds mercury per ton of material. In addition, it was improbable that any higher material will be found.

For these reasons, it was recommended that the application for exploration aid be denied.

I concur in the recommendation.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals
J. W. Pennington
R. W. Geehan
Thor Kiilsgaard, U.S.G.S.
F i l e s

RECEIVED
JAN 20 1956

January 19, 1956

Memorandum

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

From: J. W. Pennington, Branch of Base Metals

Subject: Review of Field Team Examination Report, Docket No. DMEA 4083 (mercury), Jesse N. Calvin and T. C. Strand, Early Wright or Calvin Mine (Lottie Claim), Nye County, Nevada $26,400.00

Examination of this property by D. B. Ketlock and R. M. Smith, Geological Survey, and D. H. Sheahan, Bureau of Mines, revealed that the mineralized area was very low grade, averaging less than 1.4 pounds mercury per ton of material. In addition, it was improbable that any higher material will be found.

For these reasons, it was recommended that the application for exploration aid be denied.

I concur in the recommendation.

J. W. Pennington

J. W. Pennington

JWPennington/vr

Copy to: Division of Minerals
Branch of Base Metals
J. W. Pennington
R. W. Gentzen
Thor Killingsard, U.S.G.S.
File

RECEIVED
JAN 20 1956

January 17, 1956

Memorandum

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

From: J. W. Pennington, Branch of Base Metals

Subject: Review of Field Team Examination Report, Docket No. DMEA 4089 (mercury), James H. Calvin and F. C. Strand, Curly Wright or Calvin Mine (Lottie Claims), Eye County, Nevada $25,400.00

Examination of this property by D. B. Tatlock and R. M. Smith, Geological Survey, and R. E. Sheahan, Bureau of Mines, revealed that the mineralized area was very low grade, averaging less than 1.4 pounds mercury per ton of material. In addition, it was improbable that any higher material will be found.

For these reasons, it was recommended that the application for exploration aid be denied.

I concur in the recommendation.

J. W. Pennington

J. W. Pennington

JWPennington/vr

Copy to: Division of Minerals
Branch of Base Metals
J. W. Pennington
R. W. Gaskin
Thor Kiilsgaard, W.S.G.S.
Files

Docket

IN REPLY REFER TO:

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

RECEIVED
JAN 13 1956

January 12, 1956

Re: DMEA 4029
Colvin and Stroud
Colvin Mine
Nye County, Nevada
$26,400 - Mercury

Copy retained

Memorandum

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

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

Subject: Review of Field Team report.

The applicants requested assistance in exploring a body of mercury-bearing rhyolite by adit, raising and crosscutting at an estimated cost of $26,400.

The examiners found that for the most part the mercury occurs near the crest of a flat anticlinal structure developed in a low dipping 10-foot thick rhyolite flow. The map indicates mercury is found and was sampled at four places along the outcrop of the bed in a distance of 680 feet and probably occurs at 3 other places where work has been done. The examiners estimate that on the average one tenth of the outcrop of the mercury-bearing bed shows mercury-bearing material, but as indicated by the channel sampling the best material is low grade:

Sample No.	Width	Lbs.Hg per ton	Remarks
S-415	1.5 ft.	0.8	Open cut, white tuff.
S-416	4.5 ft.	0.1	South side 8 ft. adit.
S-417	2.2 ft.	0.1	Open cut.
S-418	2.0 ft.	0.9	Main incline 8 ft. back of face.
S-419	2.0 ft.	1.3	Main incline below S-418.
S-420	4.5 ft.	1.4	Open cut, northwest side main incline.

Ore reserves

The examiners infer that the mercury-bearing material may extend down-dip 500 feet (about half way thru the ridge), and a 600x500x10 block would contain 220,000 tons, 1/10 of which might contain something less than 1.4 pounds of mercury per ton.

Considering the grade of the material exposed the proposed work is not warranted and the recommendation that the application be denied is justified.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
JAN 13 1956

January 12, 1956

Re: DMEA 4029
Calvin and Stroud
Calvin Mine
Nye County, Nevada
$26,400 - Mercury

Memorandum

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

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

Subject: Review of Field Team report.

The applicants requested assistance in exploring a body of mercury-bearing rhyolite by adit, raising and crosscutting at an estimated cost of $26,400.

The examiners found that for the most part the mercury occurs near the crest of a flat anticlinal structure developed in a low dipping 10-foot thick rhyolite flow. The map indicates mercury is found and was sampled at four places along the outcrop of the bed in a distance of 680 feet and probably occurs at 3 other places where work has been done. The examiners estimate that on the average one tenth of the outcrop of the mercury-bearing bed shows mercury-bearing material, but as indicated by the channel sampling the best material is low grade:

Sample No.	Width	Lbs.Hg per ton	Remarks
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S-417	2.2 ft.	0.1	Open cut.
S-418	2.0 ft.	0.9	Main incline 8 ft. back of face.
S-419	2.0 ft.	1.3	Main incline below S-418.
S-420	4.5 ft.	1.4	Open cut, northwest side main incline.

Ore reserves

The examiners infer that the mercury-bearing material may extend down-dip 500 feet (about half way thru the ridge), and a 600x500x10 block would contain 220,000 tons, 1/10 of which might contain something less than 1.4 pounds of mercury per ton.

Considering the grade of the material exposed the proposed work is not warranted and the recommendation that the application be denied is justified.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

NENelson:jah
G-1/12/56
cc: Director's reading 4212
Branch reading 4212
BMRA (3)
Docket file
H. W. Meyer, 3623

IN REPLY REFER TO:

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

RECEIVED
JAN 13 1956

January 12, 1956

Re: DMEA 4029
Calvin and Stroud
Calvin Mine
Nye County, Nevada
$26,400 - Mercury

Memorandum

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

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

Subject: Review of Field Team report.

The applicants requested assistance in exploring a body of mercury-bearing rhyolite by adit, raising and crosscutting at an estimated cost of $26,400.

The examiners found that for the most part the mercury occurs near the crest of a flat anticlinal structure developed in a low dipping 10-foot thick rhyolite flow. The map indicates mercury is found and was sampled at four places along the outcrop of the bed in a distance of 680 feet and probably occurs at 3 other places where work has been done. The examiners estimate that on the average one tenth of the outcrop of the mercury-bearing bed shows mercury-bearing material, but as indicated by the channel sampling the best material is low grade:

Sample No.	Width	Lbs.Hg per ton	Remarks
S-415	1.5 ft.	0.8	Open cut, white tuff.
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S-419	2.0 ft.	1.3	Main incline below S-418.
S-420	4.5 ft.	1.4	Open cut, northwest side main incline.

Ore reserves

The examiners infer that the mercury-bearing material may extend down-dip 500 feet (about half way thru the ridge), and a 600x500x10 block would contain 220,000 tons, 1/10 of which might contain something less than 1.4 pounds of mercury per ton.

Considering the grade of the material exposed the proposed work is not warranted and the recommendation that the application be denied is justified.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

NENelson:jek
G-1/12/56
cc: Director's reading 4212
Branch reading 4212
BMEA (3)
Docket file
E. M. Meyer, 3603

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

1605 Evans Avenue
Reno, Nevada

January 3, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4029 (Mercury)
James H. Colvin and T C. Stroud
Curly Wright or Colvin Mine (Lottie Claims)
Nye County, Nevada

Reference is made to your letter of October 31, 1955 relative to field examination of subject property.

Attached are four copies of a report by D. B Tatlock, Geological Survey, and B. H. Sheahan, Bureau of Mines, in which it is recommended that the application for exploration aid be denied.

Roscoe Smith and I concur in the recommendation.

S. Ricker

Attach.

Reviewed by
DMEA OPERATING COMMITTEE
1-11-56
(date)

BUREAU OF MINES
WASHINGTON, D. C.

JAN 6 10 20 AM '56

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA 4029 (Mercury)
James H. Colvin and T. C. Stroud
Curly Wright or Colvin mine (Lottie claims)
Nye County, Nevada

by

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

D. B. Tatlock
Geologist
U. S. Geological Survey

December 15, 1955

Reviewed by
DMEA OPERATING COMMITTEE
1-11-56
(date)

CONTENTS

	Page
INTRODUCTION	1
CONCLUSIONS AND RECOMMENDATIONS	1
LOCATION, ACCESSIBILITY, AND LOCAL RESOURCES	2
HISTORY AND PRODUCTION	2
PROPERTY AND OWNERSHIP	3
DEVELOPMENT	3
GENERAL GEOLOGY	4
ORE DEPOSITS	4
SAMPLING	5
ORE RESERVES	6
PROPOSED EXPLORATION	6

ILLUSTRATIONS

Figure 1 . . . . . Location map

2 . . . . . Geologic map

INTRODUCTION

Mr. James H. Colvin and Mr. T. C. Stroud of Gabbs, Nevada applied for Government assistance in a $26,400.00 program with the Defense Minerals Exploration Administration (Docket DMEA-4029) to explore for mercury at their Lottie claims, also known as the Curly Wright or Colvin mine, Nye County, Nevada.

A field examination was requested by the Operating Committee October 31, 1955 and was made November 6, 1955 by B. H. Sheahan, mining engineer, U. S. Bureau of Mines, and D. B. Tatlock and R. M. Smith, geologists, U. S. Geological Survey, accompanied by Mr. Wade M. Dale of Beatty, Nevada. Mr. Dale prepared the application and is familiar with the property.

The scope of the examination included mapping and check sampling the deposit and discussing the application with the applicants' representative.

CONCLUSIONS AND RECOMMENDATIONS

The Lottie mine contains cinnabar sparsely disseminated in a gently dipping layer 10 feet thick of partly silicified rhyolite. Reserves of all classifications amount to about 20,000 tons averaging less than 1.4 pounds quicksilver per ton.

The applicants propose to explore the deposit by a 500-foot adit and by 300 feet of raising and crosscutting at an estimated total cost of $26,400.00

It is recommended that the application for Government assistance be denied because of the very low grade of the deposit and the improbability that any higher grade material will be found.

LOCATION, ACCESSIBILITY, AND LOCAL RESOURCES

The claims are in the N½ sec. 30 (projected) T. 11 S., R. 48 E., M.D.B.&M., in the Yucca Mountains, Nye County, Nevada, at an altitude of about 4,000 feet.

Beatty, Nevada is the nearest town and source of labor, supplies, and water. From the Beatty Post Office travel northerly 2.9 miles on paved U. S. Highway 95, turn right on Beatty Wash road and travel 5.0 miles east and northeasterly up the sandy wash, turn right up a steep dirt road 0.2 mile to the deposit. The total distance by road from Beatty is 8 miles. A four-wheel drive vehicle is needed to travel over the sandy dirt road and up the last 0.2 mile of steep rocky road to the property.

The region is arid and water is scarce. The western edge of the Tonopah Bombing Range is a few miles east of the claims.

HISTORY AND PRODUCTION

Mr. Wade M. Dale reported that the deposit was discovered by Mr. R. Curley Wright (Death Valley Curley) in 1928. The property was relocated by the applicants July 28, 1955.

Quicksilver occurrences have been known in this section of Nye County for many years but there has been very little production and none from this deposit.

PROPERTY AND OWNERSHIP

The applicants are the owners of the property by right of location. The group includes seven claims, Lottie and Lottie No. 1 to Lottie No. 6. Location certificates are reported to be recorded at Tonopah, Nevada as follows:

Name of Claim	Book No.	Page No.
Lottie	112	562
Lottie No. 1	6	259
Lottie No. 2	6	259
Lottie No. 3	6	260
Lottie No. 4	6	260
Lottie No. 5	6	261
Lottie No. 6	6	261

Mr. James H. Colvin is a mechanic and miner employed at Gabbs, Nevada. Mr. T. C. Stroud also is employed at Gabbs.

DEVELOPMENT

There are no surface improvements or equipment on the property.

The Lottie and Lottie No. 3 claims cover most of the area explored which is indicated on the attached geologic map, fig. 2. The workings include several shallow open cuts, an 8-foot adit, and a 20-foot incline. No timber was needed for ground support. The workings are dry and open.

Mr. Colvin and his partner intended to supply their share of the requested loan by furnishing equipment, supplies, and some labor. They were not interviewed.

GENERAL GEOLOGY

The Lottie mine is in an area of moderate relief on a ridge along the east side of Beatty Wash. The rocks are nearly horizontal Tertiary rhyolite flows and tuffs totaling at least 280 feet in thickness. Locally these have been silicified to opal and chalcedony, and in part leached and alunitized.

The rhyolitic rocks are roughly stratified and individual beds range from 1 inch to 80 feet in thickness. They strike north and dip west about 10 degrees.

Both steeply dipping faults and bedding plane faults cut the rhyolitic rocks; these, in part, have controlled the course of the ore-bearing solutions.

ORE DEPOSITS

The ore bodies are pods and lenses of sparsely disseminated cinnabar confined primarily to a gently dipping layer of silicified and alunitized rhyolitic tuff.

Cinnabar occurs as small concentric spheres generally less than 1 millimeter in diameter and as painty coatings in pores and along the faults in the silicified tuff. It also occurs as pink stains in white opal and chalcedony. No other sulfides were seen.

The best showings of cinnabar are in pods and lenses of pulverulent hydrous silica within a 10-foot layer of silicified tuff about 100 feet below the top of the series of silicified rhyolitic rocks. This tuff layer is overlain and underlain by porphyritic rhyolite flows. The tuff appears to be more permeable than the flow rocks and therefore more favorable for the guiding of ore solutions and the emplacement of ore.

Traces of cinnabar are also enclosed in irregular layers and pods of white opal and chalcedony a few inches thick and several feet long, generally parallel with the bedding, which are found throughout the entire series of rhyolitic rocks.

The applicants have stated that "a gentle anticlinal effect is present" and that "mineralization is greatest in the apex zone of the anticline". This structure is not substantiated by the geologic mapping and probably plays no part in the control of the ore.

SAMPLING

Six channel cuts were taken by the examining engineer with assistance from Mr. Dale. Analyses were made by the Bureau of Mines and locations are shown on attached map, fig. 2.

Sample analyses in the applicants' docket and map are believed by the examining engineer to be erroneously high.

Sample No.	Width	Lbs.Hg per ton	Remarks
S-415	1.5 ft.	0.8	Open cut, white tuff.
S-416	4.5 ft.	0.1	South side 8 ft. adit.
S-417	2.2 ft.	0.1	Open cut.
S-418	2.0 ft.	0.9	Main incline 8 ft. back of face
S-419	2.0 ft.	1.3	Main incline below S-418.
S-420	4.5 ft.	1.4	Open cut, northwest side main incline.

ORE RESERVES

About 50 tons of measured reserves averaging less than 1.4 pounds of quicksilver per ton could be mined from the small cuts and adits in the silicified rhyolite along the east side of the ridge. Indicated reserves amount to about 70 tons averaging less than 1.4 pounds per ton. Inferred reserves have been calculated by assuming that the ore occurs in discontinuous masses which occupy about one-tenth of a block measuring 600 feet long, 500 feet wide, and 10 feet thick. This amounts to about 20,000 tons averaging less than 1.4 pounds of quicksilver per ton.

PROPOSED EXPLORATION

The applicants propose to explore the exposures on the east side of the ridge by approximately 500 feet of adit driven from the west side of the ridge along section AA' (fig. 2), and by a total of 300 feet of raising and cross-cutting, at an estimated total cost of $26,400.00. The adit is to serve as a haulage-way, and thereby eliminate the need for an extra mile of road to the east side of the ridge. Actually an adit 1,000 feet long, rather than 500 feet, would be necessary to reach a point below the ore on the east side of the ridge. The showings do not warrant a project this large, and any additional exploration should be confined to the east side where cinnabar is known to occur. Government assistance is not justified because the existing showings are very low grade and no indications were seen that higher grade ore will be found.

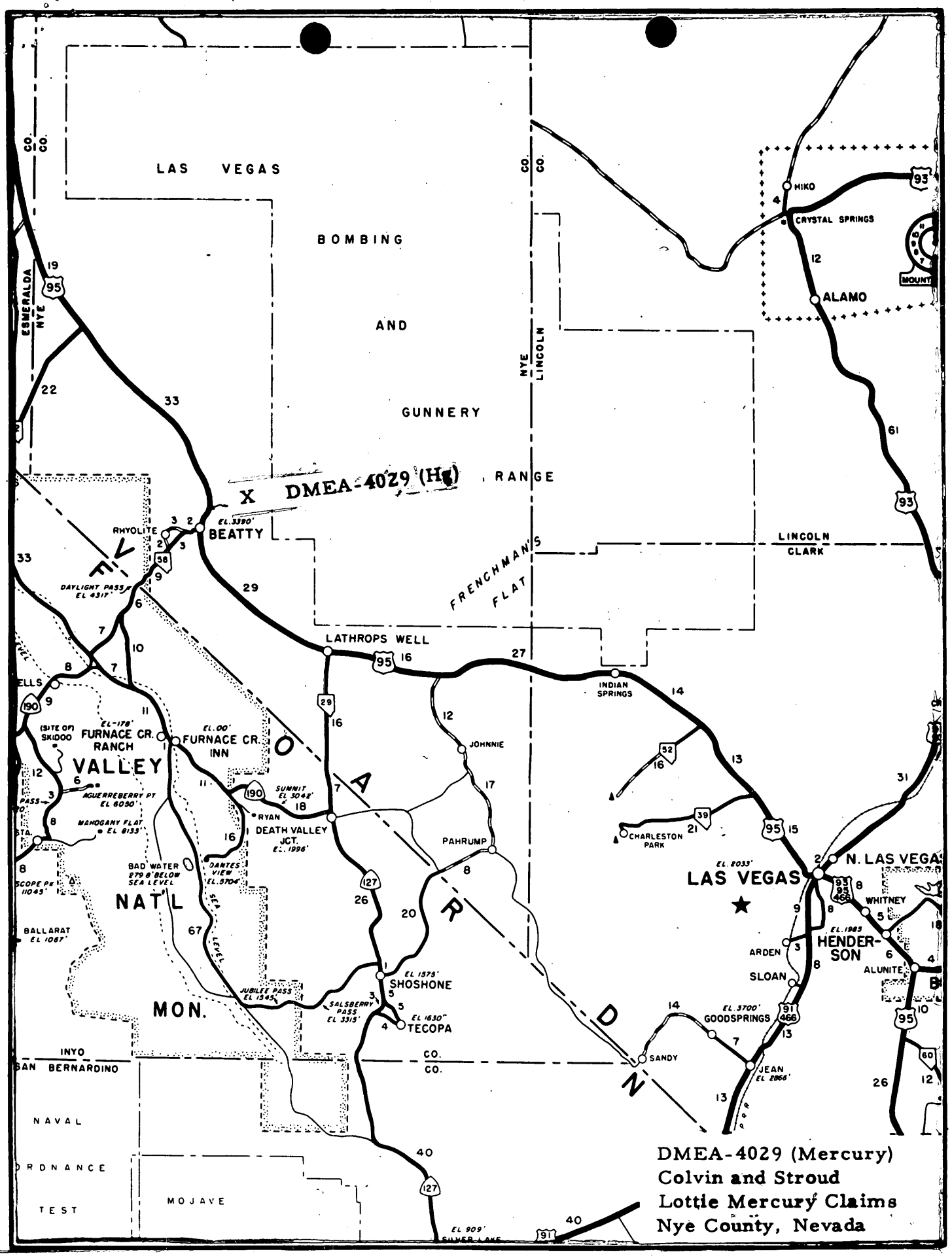

FIG. 1. LOCATION MAP NEVADA

400 DOCKET
SURNAME
McMahon
Martin
Selfridge
Johnson

OCT 31 1955

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 4019 - Mercury
James M. Colvin and T. C. Strand
Curly Wright or Colvin Mine (Lottie Claims)
Nye County, Nevada

Dear Mr. Richer:

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

Copies of memoranda dated October 24 and October 26, 1955, by J. W. Pennington, Bureau of Mines, and H. E. Malmon, Geological Survey, respectively, relating to the project are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (SVB)

Enclosure

APPROVED:

/s/ Robert W. Geehan (SVB)
Member, Bureau of Mines

Thor H. Kiilsgaard (SVB)
Member, Geological Survey

ADMcMahon/foc 10/28/55
cc to: Docket
Code 400
Admr. Read. File
Operating Comm.
FT. REG. II
Messrs. Pennington, USBM
Kiilsgaard, USGS

RCH.

DOCKET
SURNAME
400 McMahon
Martin
Kilsgaard
Geehan
Selfridge

OCT 31 1955

Messrs. James H. Calvin and T. C. Stowed
% Wade M. Dale
Box 144
Beatty, Nevada

Re: Docket No. DMEA 4029 - Mercury
Curly Wright or Calvin Mine (Lottie Claims)
Nye County, Nevada

Gentlemen:

The above docketed application for exploration assistance has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. Spangler Richer, Executive Officer, DMEA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada, for a field examination of the property.

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

Sincerely yours,

Frank E. Johnson

Acting Administrator

ADMcMahon/foc
10/28/55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. II
H. M. Meyers, USBM
T. H. Kiilsgaard, USGS

R.C.G.

Docket

IN REPLY REFER TO:

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

RECEIVED
OCT 27 1955

October 26, 1955

Copy retained 400

Re: DMEA 4029
James H. Colvin & T. C. Stroud
Curly Wright or Colvin Mine
Nye County, Nevada
$26,400.00 - Mercury

WSM

Memorandum

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

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

Subject: Review of application.

I have no information on this prospect.

The applicants request assistance in the exploration of a mercury-bearing ash bed by driving 500 feet of haulage tunnel, and doing 300 feet of raising and crosscutting.

Seven open cuts have been made resulting in 50 tons of material assaying 0.1 to 0.6% Hg, according to the application. There has been no production.

The application says the material is low grade. Such being the case thorough sampling is necessary before action on the application is taken.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

Copy retained 400

Docket

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

RECEIVED
OCT 24 1955

October 24, 1955

Copy retained 400

Memorandum

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

From: J. W. Pennington, Branch of Base Metals

WSM

Subject: DMEA application, Docket No. 4029 (mercury), $26,400, James H. Calvin and T. C. Stroud, Gabbs, Nevada Lottie Mercury Mine (Curly Wright or Calvin mine), Beatty, Nevada

To explore this prospect, the applicant proposes to tunnel 500 feet and raise and crosscut 300 feet. The total 800 feet is estimated to cost $26,400.00.

Samples of the exposed mineralized formation assayed from 0.1 to 0.5 percent mercury.

Apparently the Lottie Claims are in or near to the Fluorine (Bare Mountain) district of Nevada. In describing this district, Bailey and Phoenix note that the mines never came up to expectations and the recorded production for the district is less than 200 flasks.

It is recommended that a Field Team examination be made of the property to obtain the information necessary to evaluate the proposal. With the meager information available, the proposed exploration, at present, appears to be too extensive to be justified.

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals
J. W. Pennington
Thor Kiilsgaard, U.S.G.S.
F i l e s

October 21, 1955

Subject: DMEA-4029
Re: Curly Wright or Colvin Mine

James J. Colvin & J.C. Stroud
c/o Wade M. Dale
Box 144
Beatty, Nevada

Gentlemen:

The receipt of your application dated Ocotber 12, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4029 and referred to the Iron Ferro Alloys Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

October 21, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region II.

DMEA 4029 James H. Colvin & J.C. Stroud

Robert E. Adams
Chief, Operation's Control
and Statistics Division

DMEA

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

RECEIVED
OCT 21 1955

1605 Evans Avenue
Reno, Nevada

October 19, 1955

DMEA 4029

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application
Lottie Group - Mercury
James H. Colvin and J. C. Stroud
Gabbs, Nevada

Attached are three sets of MF-103 Application for Aid forms relative to above subject. The fourth set has been retained in our files.

S. Ricker

S. Ricker

Attach.

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

RECEIVED
OCT 21 1955

1605 Evans Avenue
Reno, Nevada

October 19, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application
Lottie Group - Mercury
James H. Colvin and J. C. Stroud
Gabbs, Nevada

Attached are three sets of MF-103 Application for Aid forms relative to above subject. The fourth set has been retained in our files.

S. Ricker

Attach.

SRicker:gh
cc: R. M. Smith
File

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
OCT 21 1955

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

Not to be filled in by applicant

Docket No. 4029
Metal or Mineral Mercury
Date Received 10-14-55 10-21-55
Estimated Cost 26,400
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: James A. Colvin Box 98 Gabbs Nevada
J. C. Stroud Box 630 Gabbs Nevada

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract 6 Claims located in the SW¼ of SW¼ of T11S, R48E, MDBM
Lottie claim recorded Book 112 pg. 562
Unpatented. Lottie #1 Book 6 pg. 259 Lottie #2 Book 6 pg. 259 Lottie #3 Book 6 pg. 260
Lottie #4 Book 6 pg. 260 Lottie #5 Book 6 pg. 261 Lottie #6 Book 6 pg. 261

(*b*) State any mine name by which the property is known. Curly Wright or Colvin Mine

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

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

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

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

See attahed report for the following information

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

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

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

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

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

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

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

(*c*) The work will start within 30 days and be completed within 10 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☒ Use of equipment owned by you ☒ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated October 12, 1955

James H. Colvin
J. C. Stroud

(Applicant)

By Wade M. Dale
Wade M. Dale

Box 144, Beatty, Nevada

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

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

Appendage to DMEA Application for
the Lottie Mercury Mine
Colvin-~~Tank~~ Sixgun Property
Beatty, Nevada

RECEIVED
OCT 21 1955

4. PHYSICAL DESCRIPTION:

a. There are seven open cuts in the fae of the ledge, as shown in the accompanying geological illustrations, all easily accessible.

b. There has been no commercial production but there are several dumps at the open cuts aggregating some fifty (50) tons of material (0.1% to 0.6% Hg).

c. The formation consists essentially of an alunitized bed of rhyolitic ash, striking northerly and dipping 15 degrees westerly. Faults and slippage planes occur intermittently striking westerly with a normal dip to the bedding planes of the ash. A gentle anticlinal effect is present. Some opalite is present in the vein material but does not appear mineralized. Mineralization is greatest in the apex zone of the anticline. There is a uniform mineralization of all of the ash with concentrations of cinnabar in the faults and bedding planes. The entire thickness of the ash bed has not yet been determined, but the open cuts expose as much as 15 feet with no indications of discontinuing. Overlying the mineralized bed is a series of volcanic lavas, tuffs and breccia. This series formed an impervious capping, there being no evidence of mineralization above the ash.

Assays are shown on the map.

Areal geology indicates that the volcanics emanated from deep faulting of Pre-Cambrian formations. One such open fault is exposed six miles South Bare Mountain. Here may be seen an open fault filled with volcanic ash interspersed with opalite and carrying 0.3% to 1.5% Hg. This property is being worked at the present time on a small scale.

The purpose for wishing to explore the property is to determine the extent of the ore body and it's uniformity of mineralization with the contemplation of installing a rotary kiln of sufficient size to treat low grade ore if justified.

d. The property is easily accessible by a dirt road following a wide wash (Beatty Wash), with a uniform 2-4 percent grade. This road is 4.4 miles long and connects with Nevada State Highway 95, 3 miles North of Beatty, Nevada. The nearest railroad is at Las Vegas, 150 miles distant. There is sufficient manpower available at Beatty. Timber and machinery would have to come from Las Vegas or Los Angeles. There is a bulk fuel plant at Beatty. Fuel suitable for a kiln costs 12¢/gal. delivered at the mine.

5. THE EXPLORATION PROJECT:

a. Cinnabar is the only commercial mineral evident on the property.

b. With the present exposures and assays obtained, it is indicated that a tunnel driven from the west side of the ridge will cut the ore at sufficient depth for exploration and subsequently serve as a haulage tunnel (See illustration). Total tunnel length is approximately 500 feet; total raise and crosscut footage 300 ft., making a total of approximately 800 ft. for estimating exploration costs.

c. Answered on form.

5. continued:

d. The property owners have been actively engaged in mining for about 20 years in Nevada. Both are now employed by mining companies at Gabbs, Nevada. The supervising will be done by the writer, Wade M. ~~Die~~ Dale, who has been engaged in mine engineering work since 1932, General Superintendent of B. & B. Quicksilver Mine 1957, 1958.

6. ESTIMATE OF COSTS:

a. Owners have their own equipment.

b. Labor, Supervision, Consultants:

Class	No.	Rate of Pay	Total Payroll
Contract labor @ $9.00 ft. 5' x 7' tunnel		800 ft.	$ 7,200.00
Foreman-Mech.	1	$25.00/day	4,875.00
Cons. Eng.	1	$500/Mo.	2,250.00
		Total	$14,325.00

c. Operating Materials and Supplies:

Dynamite @ 3 lbs./ ft. x 800 ft. - 2400 lbs	$ 575.00
Drill steel, blast. caps, shovels, small tools . . .	2,040.00
Gasoline - lubrication	1,260.00
	$ 3,875.00

d. Operating Equipment:

Compressor, 200 cu. ft., 8 mo. @ $200.00/Mo.	$ 1,600.00
Vent tube and blower	800.00
2 drilling machines, hose, receiver, pipe, track, ties	2,200.00
	$ 4,600.00

e. Rehabilitation nd Repairs:

None

f. Tool room, 10 x 15 . . . . . $ 500.00

g. Miscellaneous

Compressor parts, drill parts	$ 600.00
Assaying @ $5.00 each	500.00
accounting, workman's compensation, insurance	2,000.00
	$ 3,100.00

h. Contingencies:

None

7 a-b. Applicants have all necessary equipment nd will operate as foreman and mechanic.

Under 6-d.	Equipment	$ 4,600.00
6-b.	Labor, Supervision	4,875.00
	Their share	$ 9,475.00

TOTAL COST $26,400.00

OFFICIAL BUSINESS

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Defense Minerals Exploration Administration
U. S. Department of the Interior
Interior Building
Washington 25, D. C.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA-4029
(MERCURY)

FIG. 2. LOTTIE MINE, COLVIN AND STROUD PROPERTY, NYE COUNTY, NEVADA