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

224 New Customhouse
Denver 2, Colorado

April 1, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration, Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2369, T. J. Hazelton, Skylight Mine (Lead, Zinc) Animas Mining District, Sierra County, New Mexico

Enclosed are the original and three copies of the final report on DMEA-2369. The original and one copy of DMA Form 3b and a copy of the letter of denial to the applicant is also enclosed.

J. H. East, Jr.

A. H. Koschmann

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 7 1952

Form 3b detached in R. & R., 4-7-52.

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

224 New Customhouse
Denver 2, Colorado

April 1, 1952

Mr. T. J. Haselton
Ingalls, Kansas

Dear Mr. Haselton:

Your application for exploration aid, DMEA-2369, on the Skylight Mine in the Hillsboro (Las Animas) Mining District, Sierra County, New Mexico, has received careful consideration.

A field examination indicates that there is little possibility of making a significant discovery of strategic minerals on your property. We therefore regret to inform you that your application for aid is denied.

Very truly yours,

J. H. East, Jr.
Field Team, Region IV

A. H. Koschmann
Field Team, Region IV

HMC:cc

cc:W.R. Storms
Acting Administrator - Wash.
AHKoschmann (2)
DMA Subject, Chron.

Mining Division
Region IV

April 1, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2369, T. J. Hazelton, Skylight Mine (Lead, Zinc) Animas Mining District, Sierra County, New Mexico

Enclosed are the original and eight copies of the above report by J. H. Soule of the Bureau of Mines.

The field examination indicated little possibility of a significant discovery of strategic minerals.

We concur with the examiner in his recommendation that the exploration aid be denied.

W. H. King

W. H. King

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 7 1952

Reviewed by
DMEA OPERATING COMMITTEE
4-11-52
(NB) (date)

Mining Division
Date Rec'd.

MAR 26 1952

BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

March 24, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : Final Report, DMEA Docket 2369, T. J. Haselton's Skylight Lead-Zinc Mine, Animas Mining District, Sierra County, N. Mex.

Enclosed are original and 8 copies of the above report by J. H. Soule' of the Bureau of Mines. As no geologist was available to accompany Soule', and as his examination indicated that no separate geological examination was needed, a separate report will not be submitted by the Geological Survey.

Because of the extremely narrow veins (1 to 2 inches) and scanty mineralization on this property, and the improbability of discovering minable ore, the examiner has recommended denial of this loan.

The report has my approval.

Brochure is enclosed.

Walter R. Storms

Walter R. Storms

CC W. H. King (8)
C. A. Anderson
DMEA-2369
DF

WRStorms:frj

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA-2369, T. J. Hazelton's Skylight Lead-Zinc Mine

Animas Mining District

Sierra County, New Mexico

March 1952

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By John H. Soule[1]

In January 1952, T. J. Hazelton of Ingalls, Kansas, applied for Government assistance under the Defense Production Act of 1950, as amended, in exploring the Skylight mine, which is located on one of the six contiguous Dip Down unpatented claims in the Hillsboro (Las Animas) Mining District, Sierra County, N. Mex. Hazelton leased the claims from the owner, Ralph Tafoya, of Truth or Consequences, N. Mex. As very little information was supplied with the application, Docket DMEA-2369, a field examination of the property was requested. The examination was made on March 17, 1952.

The Dip Down claims are located in an unproductive part of the Hillsboro district. If any production has been made from the claims, It was insignificant.

Very narrow veins occur in faults near latite dikes that intrude andesite extrusive rocks. The veins average less than 1 inch in thickness and contain quartz with a little pyrite. No evidence of past or present base metal mineralization could be found. No ore reserves can be calculated or inferred to reasonable depths.

It is concluded that because of the extremely narrow, discontinuous veins, the lack of base metal mineralization, the lack of ore reserves, and the geologic improbability of discovering ore, no contribution could be made to the Nation's need for copper, lead, or zinc.

1/ Mining engineer, Bureau of Mines, Tucson, Ariz.

Therefore, it is recommended that the application for Government assistance to explore the Skylight mine on the Dip Down claims, DMEA Docket 2369, be denied.

DMEA-2369, T. J. HAZELTON'S SKYLIGHT LEAD-ZINC MINE
ANIMAS MINING DISTRICT
SIERRA COUNTY, NEW MEXICO

Engineer Report

By John H. Soule'
Mining Engineer
U. S. Bureau of Mines

March 1952

DMEA-2369, T. J. HAZELTON'S SKYLIGHT LEAD-ZINC MINE
ANIMAS MINING DISTRICT
SIERRA COUNTY, NEW MEXICO

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ILLUSTRATIONS

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INTRODUCTION

T. J. Hazelton of Ingalls, Kansas, has leased with option to purchase a mining property in the Hillsboro (Las Animas) Mining District, Sierra County, N. Mex. The property is the Dip Down group of claims upon which the Skylight mine is located. These claims were formerly known as the Superior group.

After doing some small amount of work, Hazelton applied for Government assistance under the Defense Production Act to explore the property. The original Docket, DMEA-1892, was resubmitted and is now identified as Docket DMEA-2369. As very little information was submitted with the application, the brochure was sent to the field for an examination of the property.

The examination was made on March 17, 1952. The results derived from that work are contained in this report.

ACKNOWLEDGMENT

Acknowledgment is made to Ralph Tafoya, owner of the property, and to George Myers of Hillsboro, N. Mex. for giving the examining engineer directions to reach the property. Acknowledgment also is made of material obtained from Bulletin No. 10 of the New Mexico State Bureau of Mines and Mineral Resources, entitled "The Geology and Ore Deposits of Sierra County, New Mexico", by George Townsend Harley.

LOCATION, TOPOGRAPHY AND CLIMATE

The Skylight mine is located nearly 2 miles northeast of Hillsboro, N. Mex., in the Hillsboro (Las Animas) Mining District, Sierra County. With reference to the land survey, the Skylight mine is located very near the center of Sec. 3, T. 16 S., R. 7 W. (see fig. 1).

The property is reached by going east from the Hillsboro Post Office on State Highway 180 for a distance of 2.2 miles. This point is but a short distance east of the crest of a very steep grade and there a poor dirt road turns off to the north, or left. This poor dirt road is taken for 0.3 mile, a left fork taken for an additional 0.3 mile, and then a right fork for 0.3 mile to the Little King shaft and the end of the road. Just south of, and across the creek from the Little King dump, a dim trail is followed northeasterly to the Skylight mine, a distance of nearly 0.25 mile. The mine is almost at the top of the ridge northeast of the Little King mine.

The Terrain is rugged with steep hillsides and rocky slopes. The altitude of the Skylight mine is about 6,200 feet as shown in figure 2. Vegetation consists of the usual desert plants which are sparsely scattered. There is no timber suitable for mining purposes on the property but considerable stands of Ponderosa pine exist a few miles to the west.

The mean annual precipitation approximates 12 inches, largely as summer thunder showers. Winter snows usually are not severe. Temperatures range from hot in the summer to below freezing

FIGURE 1. - LOCATION MAP, SKYLIGHT MINE, SIERRA COUNTY, N. MEX.

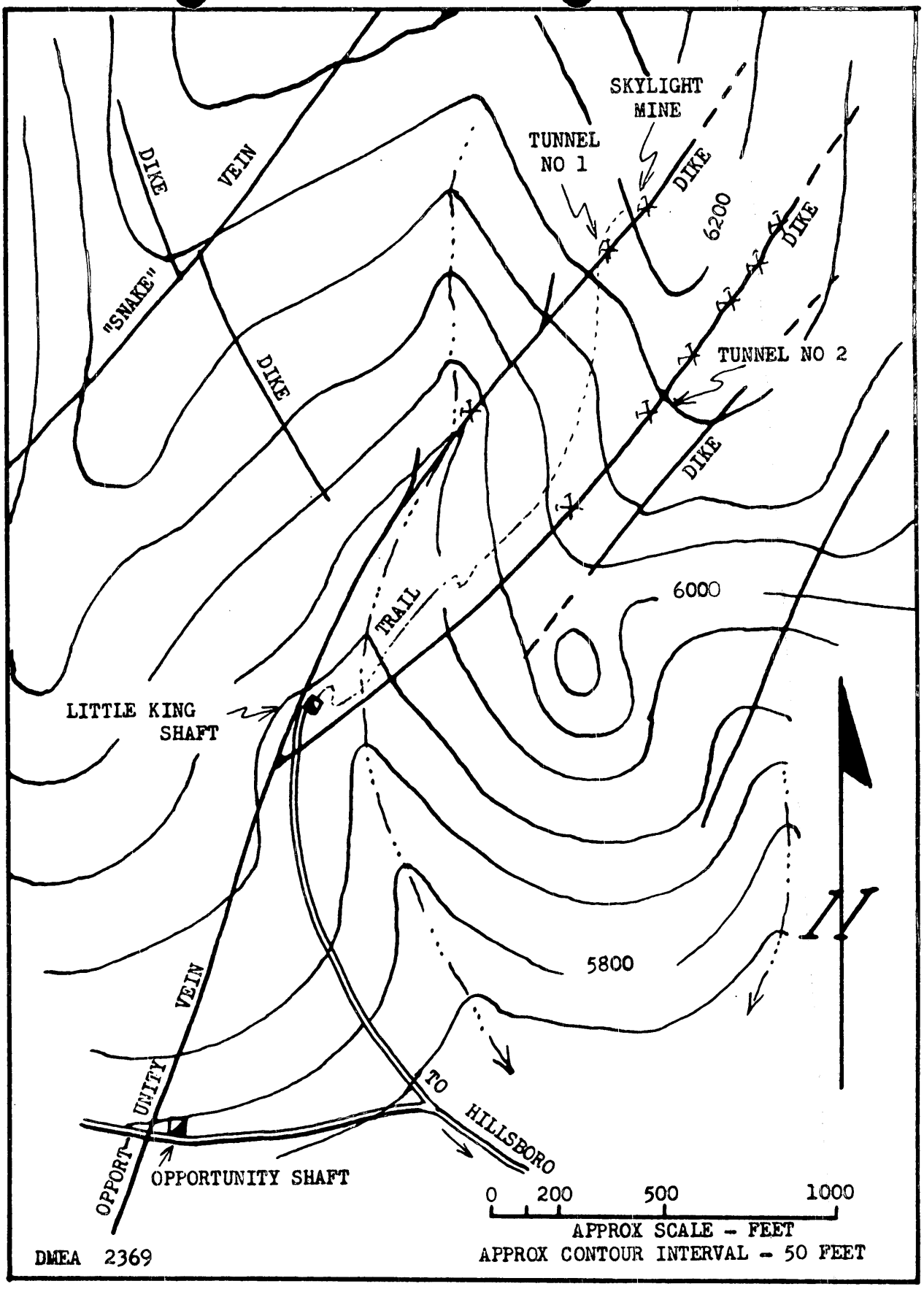

FIGURE 2. - TOPOGRAPHIC AND GEOLOGIC SKETCH, SKYLIGHT MINE

in the winter, but prolonged cold weather is unusual. There are no permanent streams in the immediate area although the Rio Percha, a couple of miles to the south, flows a small quantity of water through part of the year. Subsurface water may be found at considerable depth beneath the Skylight property.

No living accommodations exist on the property, but limited accommodations may be found at Hillsboro, about 3 miles away by road. The nearest rail point is Nutt, N. Mex., 34 miles south of Hillsboro. Major mining supplies are obtainable at El Paso, Texas, about 125 miles to the south.

HISTORY AND PRODUCTION

Gold was first discovered in the Hillsboro district in 1877. Considerable prospecting ensued and a number of mines were developed, some of which produced considerable ore. The only important production during the last two decades has been from a placer operation which was stopped about 1940. Since that time, only desultory prospecting has been done. The total production from the district is estimated at nearly $7,000,000, largely from precious metals. Base metal production has been insignificant.

The Skylight mine no doubt was prospected during the early days of district activity. It was recently leased and a small amount of work was done by the lessee. If any production was made from this property, it was of very small value. This is borne out by the limited size of the mine workings and the extreme narrowness of the vein.

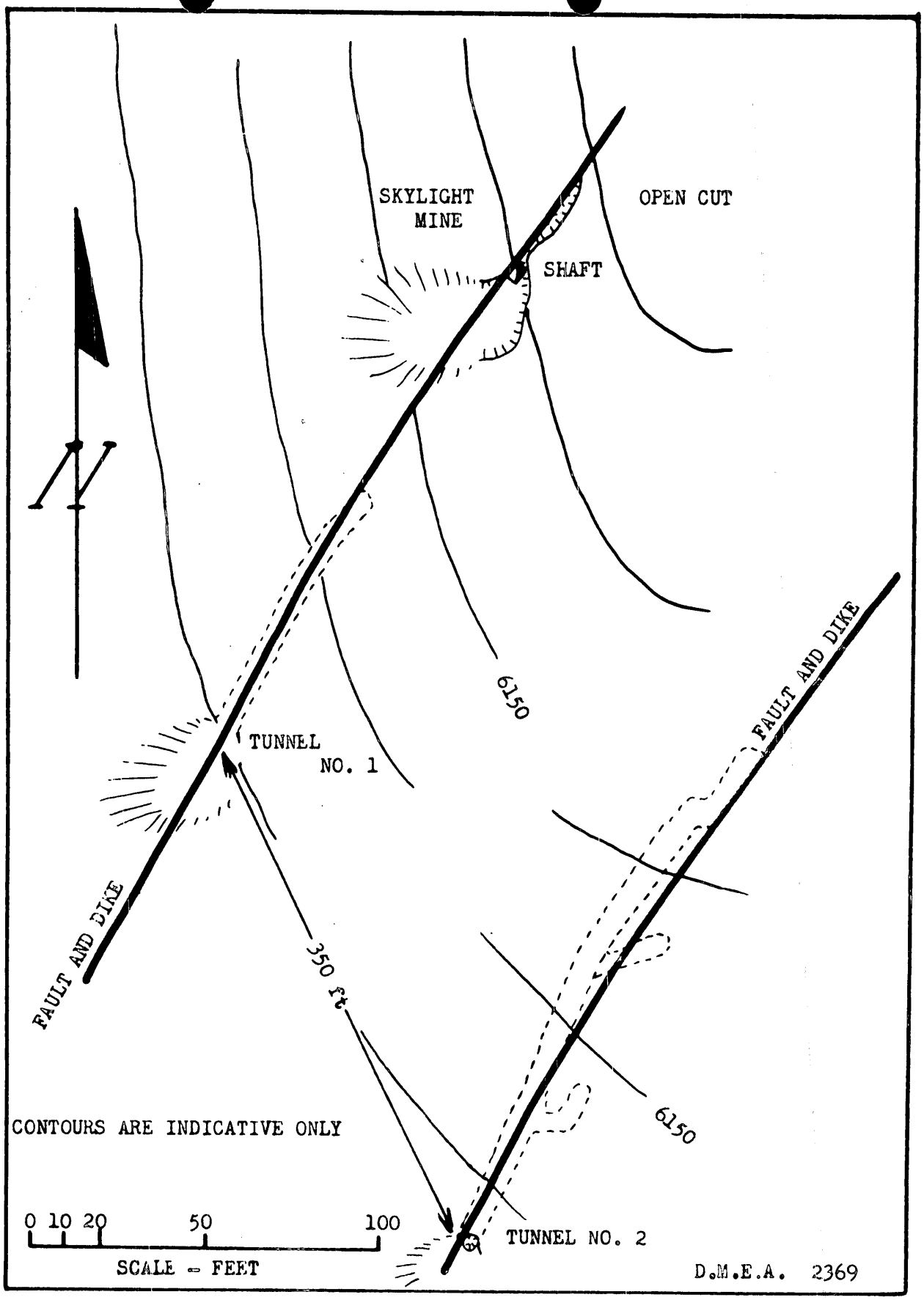

FIGURE 3. - MINE WORKINGS, SKYLIGHT MINE

OWNERSHIP AND EXTENT

The Skylight mine is located on the contiguous Dip Down claims. There are 6 of these claims, the Dip Down Nos. 1 to 6, inclusive. They are unpatented and were formerly known as the Superior group.

The Dip Down group is owned by Ralph Tafoya of Truth or Consequences, N. Mex., and is leased, with option to purchase, to T. J. Hazelton of Ingalls, Kansas.

MINE WORKINGS

All of the mine workings of the Skylight mine and of a parallel vein about 350 feet to the southeast are relatively shallow. They consist of shafts and drifts. The most extensive of those accessible were mapped and are shown in figure 3. All accessible pits were examined.

GEOLOGY

The country rock of the Dip Down claims is an andesite extrusive. Northeast-striking steeply-dipping latite dikes were subsequently emplaced, the veins occurring in faults along either wall of the dikes. Hydrothermal alteration is quite marked along the veins and fault walls. Weathering effects are very shallow and unoxidized vein material occurs near the surface.

The veins are typical quartz veins. On the Dip Down property they are discontinuous in lateral and vertical extent as shown by the outcrops and mine workings. The veins average less than one inch in thickness, although a few specimens were seen that reached a width of 2 inches.

Quartz is the gangue mineral of the Skylight stringers. Pyrite is common though not abundant and may or may not contain precious metals. No base metal minerals were noted anywhere on the property. Two samples of vein material were taken, carefully examined, but not assayed, when no base metal minerals were found.

ORE RESERVES

There are no measured or indicated ore reserves of base metals in the prospected part of the Dip Down claims. The topographic expression of nearly 300 feet vertically indicates the geologic improbability of making a discovery or inferring any reserves at a reasonable depth.

CONCLUSIONS

The following conclusions are based upon an examination of the Skylight mine and the Dip Down claims:

1. There is no evidence of present or past appreciable base metal mineralization in the veins;

2. The veins are narrow, merely stringers, and are discontinuous, both vertically and horizontally;

3. There are no ore reserves on the property and there is practically no chance of even inferring any reserves at a reasonable depth;

4. The geologic probability of discovering any base metal deposits of appreciable size is not good.

RECOMMENDATIONS

Based upon the foregoing conclusions, it must be recommended that the application, Docket DMEA-2369, for Government assistance in exploring the Skylight mine be denied.

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

224 New Customhouse
Denver 2, Colorado

April 1, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration, Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2369, T. J. Hamilton, Skylight Mine (Lead, Zinc) Animas Mining District, Sierra County, New Mexico

Enclosed are the original and three copies of the final report on DMEA-2369. The original and one copy of DMA Form 3b and a copy of the letter of denial to the applicant is also enclosed.

J. H. Eart, Jr.

A. H. Koschmann

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
APR 2 1952

Mining Division
Region IV

April 1, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2369, T. J. Haselton, Skylight Mine (Lead, Zinc) Animas Mining District, Sierra County, New Mexico

Enclosed are the original and eight copies of the above report by J. H. Soule of the Bureau of Mines.

The field examination indicated little possibility of a significant discovery of strategic minerals.

We concur with the examiner in his recommendation that the exploration aid be denied.

W. H. King
W. H. King

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 7 1952

Reviewed by
DMEA OPERATING COMMITTEE
4-11-52
(date)

Mining Division
Date Rec'd.
MAR 23 1952
BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

March 24, 1952

Memorandum

To : W. R. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : Final Report, RFC Docket 2369, T. J. Hazelton's Skylight Lead-Zinc Mine, Animas Mining District, Sierra County, N. Mex.

Enclosed are original and 8 copies of the above report by J. T. Soule' of the Bureau of Mines. As no geologist was available to accompany Soule', and as his examination indicated that no separate geological examination was needed, a separate report will not be submitted by the Geological Survey.

Because of the extremely narrow veins (1 to 2 inches) and scanty mineralization on this property, and the improbability of discovering minable ore, the examiner has recommended denial of this loan.

The report has my approval.

Enclosure is enclosed.

Walter R. Storms

Walter R. Storms

cc W. R. King (8)
C. A. Anderson
RFC-2369
DF

WRStorms:frj

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA-2369, T. J. Hazelton's Skylight Lead-Zinc Mine

Animas Mining District

Sierra County, New Mexico

March 1952

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

by John M. Soule[1]

In January 1952, T. J. Hazelton of Ingalls, Kansas, applied for Government assistance under the Defense Production Act of 1950, as amended, in exploring the Skylight mine, which is located on one of the six contiguous Dip Down unpatented claims in the Hillsboro (Las Animas) Mining District, Sierra County, N. Mex. Hazelton leased the claims from the owner, Ralph Tafoya, of Truth or Consequences, N. Mex. As very little information was supplied with the application, Docket DMMA-2369, a field examination of the property was requested. The examination was made on March 17, 1952.

The Dip Down claims are located in an unproductive part of the Hillsboro district. If any production has been made from the claims, it was insignificant.

Very narrow veins occur in faults near latite dikes that intrude andesite extrusive rocks. The veins average less than 1 inch in thickness and contain quartz with a little pyrite. No evidence of past or present base metal mineralization could be found. No ore reserves can be calculated or inferred to reasonable depths.

It is concluded that because of the extremely narrow, discontinuous veins, the lack of base metal mineralization, the lack of ore reserves, and the geologic improbability of discovering ore, no contribution could be made to the Nation's need for copper, lead, or zinc.

[1] Mining engineer, Bureau of Mines, Tucson, Ariz.

Therefore, it is recommended that the application for Government assistance to explore the Skylight mine on the Dip Down claims, DMEA Docket 2369, be denied.

DMA-2369, T. J. HAZELTON'S DAYLIGHT LEAD-ZINC MINE
ANIMAS MINING DISTRICT
SIERRA COUNTY, NEW MEXICO

Engineer Report

By John H. Soule'
Mining Engineer
U. S. Bureau of Mines

March 1952

RMSA-2369, T. J. CAZELTON'S SKYLIGHT LEAD-ZINC MINE
ANIMAS MINING DISTRICT
SIERRA COUNTY, NEW MEXICO

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INTRODUCTION

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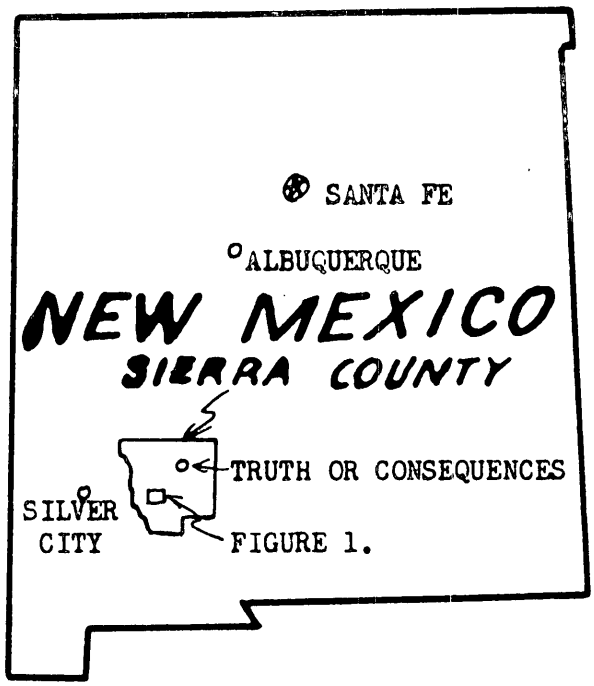
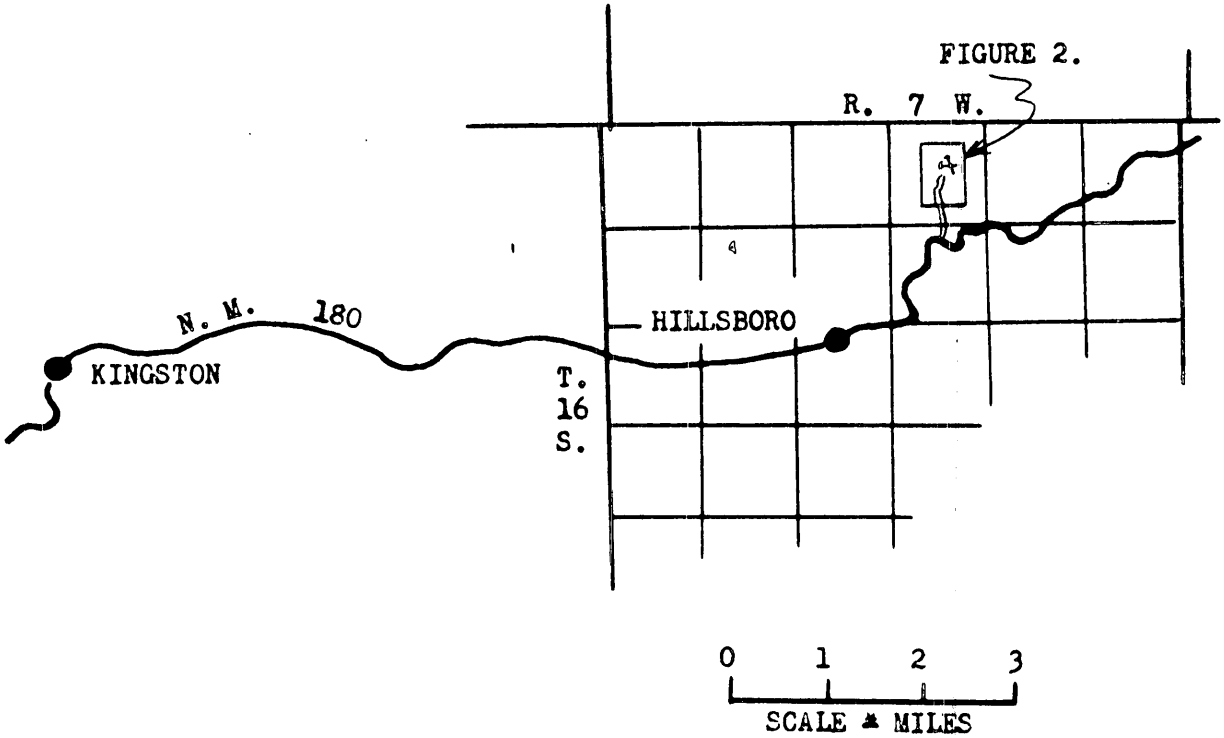
The property is reached by going east from the Hillsboro Post office on State Highway 180 for a distance of 2.2 miles. This point is but a short distance east of the crest of a very steep grade and there a poor dirt road turns off to the north, or left. This poor dirt road is taken for 0.3 mile, a left fork taken for an additional 0.3 mile, and then a right fork for 0.3 mile to the Little King shaft and the end of the road. Just south of, and across the creek from the Little King dump, a dim trail is followed northeasterly to the Skylight mine, a distance of nearly 0.25 mile. The mine is almost at the top of the ridge northeast of the Little King mine.

The Terrain is rugged with steep hillsides and rocky slopes. The altitude of the Skylight mine is about 6,200 feet as shown in figure 2. Vegetation consists of the usual desert plants which are sparsely scattered. There is no timber suitable for mining purposes on the property but considerable stands of Ponderosa pine exist a few miles to the west.

The mean annual precipitation approximates 12 inches, largely as summer thunder showers. Winter snows usually are not severe. Temperatures range from hot in the summer to below freezing





D.M.E.A. 2369

FIGURE 1. - LOCATION MAP, SKYLIGHT MINE, SIERRA COUNTY, N. MEX.

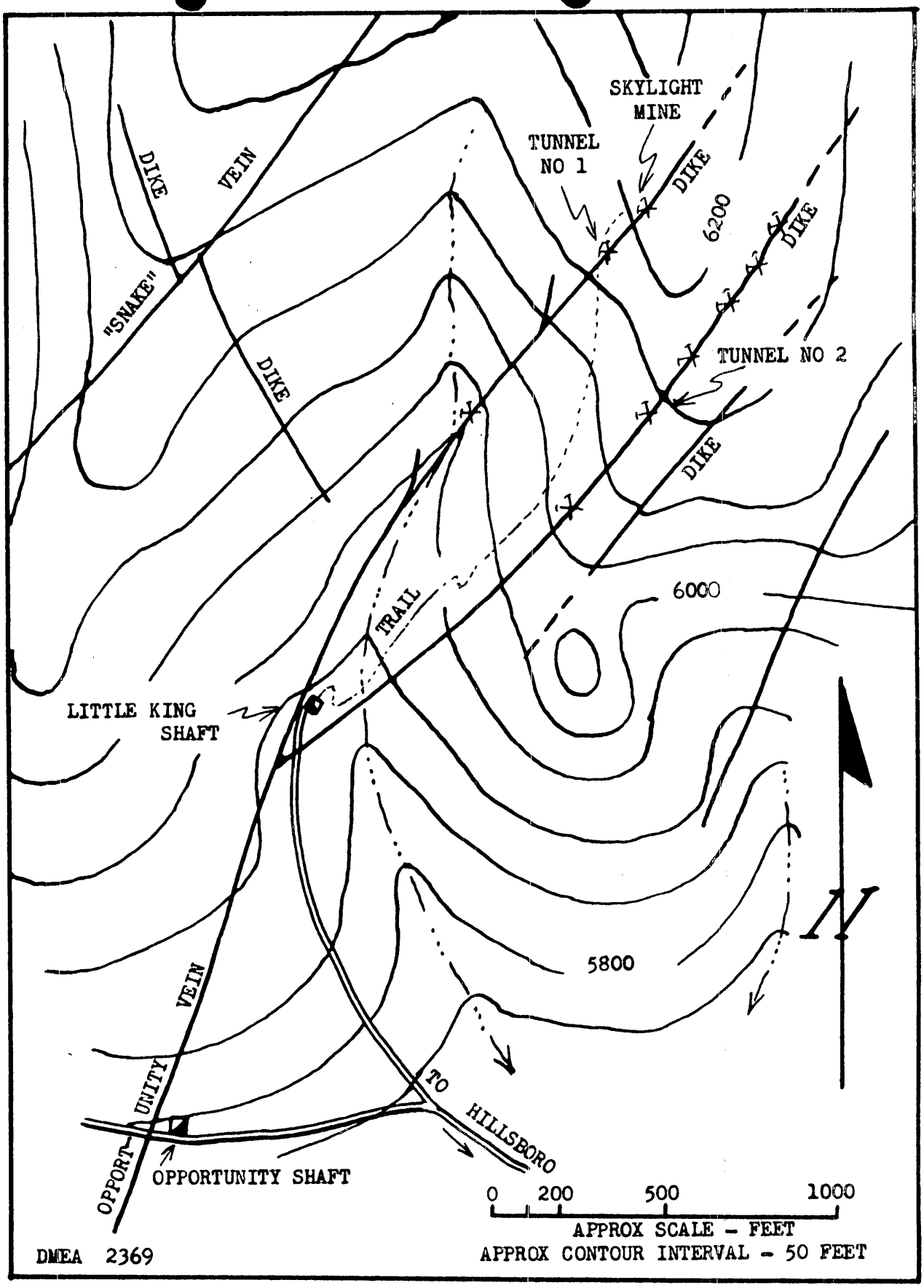


FIGURE 2. - TOPOGRAPHIC AND GEOLOGIC SKETCH, SKYLIGHT MINE

in the winter, but prolonged cold weather is unusual. There are no permanent streams in the immediate area although the Rio Percha, a couple of miles to the south, flows a small quantity of water through part of the year. Subsurface water may be found at considerable depth beneath the Skylight property.

No living accommodations exist on the property, but limited accommodations may be found at Hillsboro, about 3 miles away by road. The nearest rail point is Nutt, N. Mex., 34 miles south of Hillsboro. Major mining supplies are obtainable at El Paso, Texas, about 125 miles to the south.

HISTORY AND PRODUCTION

Gold was first discovered in the Hillsboro district in 1877. Considerable prospecting ensued and a number of mines were developed, some of which produced considerable ore. The only important production during the last two decades has been from a placer operation which was stopped about 1940. Since that time, only desultory prospecting has been done. The total production from the district is estimated at nearly $7,000,000, largely from precious metals. Base metal production has been insignificant.

The Skylight mine no doubt was prospected during the early days of district activity. It was recently leased and a small amount of work was done by the lessee. If any production was made from this property, it was of very small value. This is borne out by the limited size of the mine workings and the extreme narrowness of the vein.

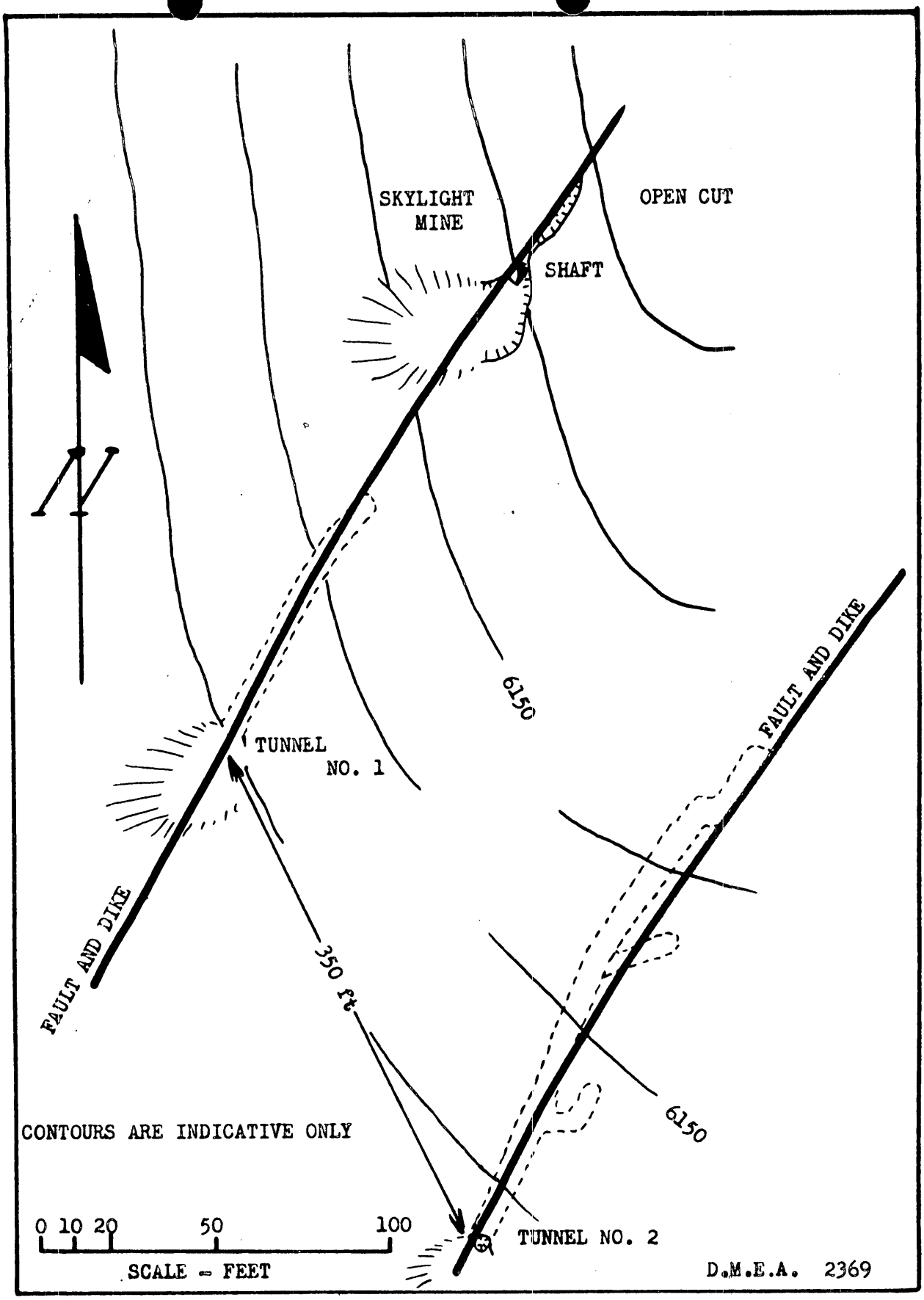


FIGURE 3. - MINE WORKINGS, SKYLIGHT MINE

OWNERSHIP AND EXTENT

The Skylight mine is located on the contiguous Dip Down claims. There are 6 of these claims, the Dip Down Nos. 1 to 6, inclusive. They are unpatented and were formerly known as the Superior group.

The Dip Down group is owned by Ralph Tafoya of Truth or Consequences, N. Mex., and is leased, with option to purchase, to T. J. Hamelton of Ingalls, Kansas.

MINE WORKINGS

All of the mine workings of the Skylight mine and of a parallel vein about 350 feet to the southeast are relatively shallow. They consist of shafts and drifts. The most extensive of those accessible were mapped and are shown in figure 3. All accessible pits were examined.

GEOLOGY

The country rock of the Dip Down claims is an andesite extrusive. Northeast-striking steeply-dipping latite dikes were subsequently emplaced, the veins occurring in faults along either wall of the dikes. Hydrothermal alteration is quite marked along the veins and fault walls. Weathering effects are very shallow and unoxidized vein material occurs near the surface.

The veins are typical quartz veins. On the Dip Down property they are discontinuous in lateral and vertical extent as shown by the outcrops and mine workings. The veins average less than one inch in thickness, although a few specimens were seen that reached a width of 2 inches.

Quartz is the gangue mineral of the Skylight stringers. Pyrite is common though not abundant and may or may not contain precious metals. No base metal minerals were noted anywhere on the property. Two samples of vein material were taken, carefully examined, but not assayed, when no base metal minerals were found.

ORE RESERVES

There are no measured or indicated ore reserves of base metals in the prospected part of the Dip Down claims. The topographic expression of nearly 300 feet vertically indicates the geologic improbability of making a discovery or inferring any reserves at a reasonable depth.

CONCLUSIONS

The following conclusions are based upon an examination of the Skylight mine and the Dip Down claims:

1. There is no evidence of present or past appreciable base metal mineralization in the veins;

2. The veins are narrow, merely stringers, and are discontinuous, both vertically and horizontally;

3. There are no ore reserves on the property and there is practically no chance of even inferring any reserves at a reasonable depth;

4. The geologic probability of discovering any base metal deposits of appreciable size is not good.

RECOMMENDATIONS

Based upon the foregoing conclusions, it must be recommended that the application, Docket MMA-2369, for Government assistance in exploring the Skylight mine be denied.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. DMEA-2361
Metal or Mineral
Date Received 2-11-52
Amount $
Participation (Government %)

Name and address of applicant: T. J. Hazelton, Ingalls Kansas

Date Jan 28 1952

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. dip down Claims aslo known as Superior Claims Skylight mine

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. dip down Claims recorded at court house Hot Springs New Mex.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find? Copper lead zinc silver gold iron

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project. Raise wing 35 ft. to surface sink wing 100 ft., drift 200 ft. at bottom. $10,000.00

   (*b*) State the time required to start the project and to complete it. 6 Mo.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition. None

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item. boarding up shaft $100.00

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased. Hoist, 2 buckets track and lumber $400.00

   (*c*) Furnished by you Pickup Compressor, jack hammer and hand tools.

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each. 2 miners at $1.00 Per hr. One Manager 300.00 Per Mo.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above. supplies $500.00

10. (*a*) How much are you prepared to invest in the proposed project? $1100.00

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Sky light Mine (Name of company) By T J Hagelton (Signature of authorized official)

Jan 28 1952 (Date) owner operator (Title)

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—64067-2

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2369

Date received 2-11-52

J. J. Hazelton
Ingalls Kansas

Name and address of applicant

Date Jan 28 1952

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products? Silver copper lead zinc iron gold
   (*b*) What are the byproducts, if any? flux quartz crystals + talc
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts. 35 ft
   (*b*) Linear feet of drifts and crosscuts. 20 ft.
   (*c*) Linear feet of tunnels or adits. none
   (*d*) Linear feet of other mine openings (explain briefly). 15 ft. Wing at end of drift
   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity. no flooding
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. 33 miles south west of Hot Springs new mex
   (*b*) Mining district. Ammon
   (*c*) Township, Section, Range. Recorded in County Clerk office at Hot Springs new mex.
   (*d*) County, State. Sierra County
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated. yes.
   (*b*) Are you operating this property as:
   ☒ Owner.
   ☒ Lessee.
   ☐ Contractor.

Defense Minerals Administration
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FEB 11 1952

5. Number of years in production 2 years
   If not in production or operation, estimated date when production will begin
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project. operated mine also managed and done all other kinds of mine work
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation. do not have information
   (*b*) State briefly the known history and production of adjoining and neighboring properties. answered else where
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

do not have information

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)	1000		$25.00		$8.00

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads. 33 miles to Hot Springs New Mex. Black topped road except 4 miles of graded dirt road

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year. Well water

15. Power:

State amount of power used, rate per hour, and source thereof. gasoline motor also R. E. A. line

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period. 2 and add more as needed.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation. Compressor jack hammer and other hand tools

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Skylight Mine (Name of company)

By T. J. Hazelton (Signature of authorized official)

Jan 28 1952 (Date)

Owner operator (Title)

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—63792-1