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

March 16, 1953

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 17 1953

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4640

From: H. D. Keiser, Bureau of Mines Member
Uranium Commodity Committee

Subject: Final report, DMEA Docket 2787, Marymont Mineral Co., Piute County, Utah.

I have reviewed the subject report and discussed it with Mr. Joseph O. Hosted, representative of the Atomic Energy Commission.

It is recommended that the subject report be approved, and that the application involved be denied.

The report has been forwarded to the Chief, Minerals Division, in accord with the routing slip attached thereto.

H. D. Keiser

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

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The report has been forwarded to the Chief, Minerals Division, in accord with the routing slip attached thereto.

Signed

H. D. Keiser

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 17 1953

TO : E. Wm. Ellis, DMEA Member
Uranium Commodity Committee

DATE: March 12, 1953

FROM : Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

SUBJECT: Final Report, DMEA Docket 2787 (Uranium), Marymont Mineral Co., Applicant, Marysvale, Utah; East Slope mine and claims, Durkee mining district, Sec. 6, T. 27 S., R. 3 W., and Sec. 28, T. 26 S., R. 4 W., Piute County, Utah.

Members of the Field Team examined the property identified in the above subject and consulted with members of the staff in the Marysvale area of the Atomic Energy Commission, which has also examined and drilled a few exploratory holes. On the basis of information presented in the Field Team report, I concur with its denial of Government assistance for exploration.

Arthur P. Butler, Jr.

Arthur P. Butler, Jr.

Copy to: E. Wm. Ellis (2)

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 17 1953

E. Wm. Ellis, DMEA Member
Uranium Commodity Committee
Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

March 12, 1953

Final Report, DMEA Docket 2787 (Uranium), Marymont Mineral Co., Applicant, Marysvale, Utah; East Slope mine and claims, Durkee mining district, Sec. 6, T. 27 S., R. 3 W., and Sec. 28, T. 26 S., R. 4 W., Piute County, Utah.

Members of the Field Team examined the property identified in the above subject and consulted with members of the staff in the Marysvale area of the Atomic Energy Commission, which has also examined and drilled a few exploratory holes. On the basis of information presented in the Field Team report, I concur with its denial of Government assistance for exploration.

Arthur P. Butler, Jr.

Copy to: E. Wm. Ellis (2)

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 17 1953

March 12, 1953

E. Wm. Ellis, DMEA Member
Uranium Commodity Committee
Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

Final Report, DMEA Docket 2787 (Uranium), Marymont Mineral Co., Applicant, Marysvale, Utah; East Slope mine and claims, Durkee mining district, Sec. 6, T. 27 S., R. 3 W., and Sec. 28, T. 26 S., R. 4 W., Piute County, Utah.

Members of the Field Team examined the property identified in the above subject and consulted with members of the staff in the Marysvale area of the Atomic Energy Commission, which has also examined and drilled a few exploratory holes. On the basis of information presented in the Field Team report, I concur with its denial of Government assistance for exploration.

Arthur P. Butler, Jr.

Copy to: E. Wm. Ellis (2)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 6 1953

224 New Customhouse
Denver 2, Colorado

March 2, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2787, (Uranium) Marymont Mineral Co., Piute County, Utah.

Enclosed are four copies of the final report on the subject docket, the original and one copy of Form 3b, and a copy of the letter of denial to the applicant.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosures

3-11-53
(Date)

COPY

224 New Customhouse
Denver 2, Colorado

March 2, 1953.

Mr. Joseph A. Thunder
Marymont Mineral Company
P. O. Box 243
Marysvale, Utah

Dear Mr. Thunder:

Reference is made to your application for Government aid on the East Slope Mine.

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

A careful study of your property and data available to this agency, reveals that the probability of disclosing mineable reserves of uranium by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

/s/
W. H. King
Field Team, Region IV

/s/
A. H. Koschmann
Field Team, Region IV

HMC:cwn
cc: Administrator (DMEA)
SRWilson
Subject
Chron.
Koschmann (2)
Connors

3-11-53
(Date)

REGIONAL DIRECTOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 6 1953

Mining Division
Region IV

March 2, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 2767 (Uranium) Marysvale Mineral Co., Piute County, Utah.

Enclosed are eleven copies of the final report on the subject docket.

The applicant requested $24,990.00 to build a new access road and drive a new tunnel.

Considerable trenching and diamond drilling have been done on the property and the field examination disclosed that the applicant's proposal is not likely to show any significant occurrences of uranium mineralization. The Atomic Energy Commission geologists in the area concur in this belief.

The examining engineer recommends that the application be denied and we concur in this recommendation.

W. H. King
W. H. King

Enclosures

Received by
DMA Office of Mineral Conservation
3-11-53
(Date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 9 1953

February 24, 1953

Memorandum,

To: W. H. King, Chief, Mining Division, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: DMEA 2787, Maryvant Mineral Co., Piute County, Utah

Attached are the original and 10 copies of a report covering examination of the subject property by personnel from this office and the office of the Geological Survey. Also included is a section on Summary, Conclusions and Recommendations.

The examination disclosed that uranium mineralization on the Maryvant property is found disseminated throughout the latite and in veinlets cut in altered latite. Samples taken indicate that the assay value of the uranium mineralization ranges from 0.01 to 0.14 percent U_3O_8. Considerable trenching and drilling has been done on the property, but no ore bodies of commercial significance found. It is believed that the chances of finding commercial ore on the Maryvant property are not good; thus the examining engineer and geologists recommend that the loan request be denied. I concur with this recommendation.

The examining personnel discussed the Maryvant application and property with AEC representatives at Marysvale.

The original brochure is enclosed.

Stephen R. Wilson

Stephen R. Wilson

Enclosures 3

Approved by
DMEA DEPARTMENT OF INTERIOR
3-11-53
(date)

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By R. J. Roberts, J. W. Hasler and M. M. Gilkey

Property of the Marymont Mineral Company, Piute County, Utah, was examined by personnel of the Geological Survey and Bureau of Mines during December 1952 and January 1953. The examination was made at the request of the DMEA Field Team, Region IV, to appraise an application for funds to conduct an exploratory project on the property.

The rocks in the Marysvale district are largely volcanic, and have been intruded by quartz monzonite and granite. The area has been cut by three sets of vertical faults, one set that strikes north, one northwest, and a third, N. 60° - 70° E. The latter set contains the principal ore deposits.

Rocks in the Marymont mine area are principally latite and quartz monzonite. Latite is exposed on the surface and in the adits, and quartz monzonite was cut in diamond drill holes from 100 feet to 300 feet below the surface. These rocks have been cut by northwestward-trending faults and shear zones that dip southwestward.

Uranium showings at the Marymont property contain autunite, and other secondary uranium minerals disseminated throughout the latite, and in veinlets cutting altered latite. Assays of these uranium pods range from 0.01 to 0.14 percent U_3O_8. Considerable trenching and drilling has been done and no ore bodies of minable size and grade have been found.

Reviewed by
DMEA OPERATING COMMITTEE

3-11-53
(date)

There has been no production from the Marymont property and it is not possible at this time to calculate any reserves of inferred ore.

The applicant's proposal consists of an access road and several hundred feet of drifting and crosscutting at depth. A field examination disclosed that the applicant's proposal is not likely to find ore of commercial grade and that the mine area does not have any significant occurrences of uranium mineralization.

It is therefore concluded that the chances of finding ore of commercial grade at the Marymont property are not good, and it is recommended that the application for a loan be denied. The AEC field geologists in the area concur with this recommendation.

MARYMONT MINERAL COMPANY
PIUTE COUNTY, UTAH
DMEA-2787
Uranium

Engineering and Geologic Report

By R. J. Roberts and J. W. Hasler,
Geologists
Geological Survey

and

M. M. Gilkey
Mining engineer
Bureau of Mines

MARYMONT MINERAL COMPANY
PIUTE COUNTY, UTAH

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Proposed exploration	6
Conclusions and recommendations	6

ILLUSTRATIONS

Fig. 1 Location map, Marymont Mineral Co., Piute County, Utah
Fig. 2 Plan and section of workings

INTRODUCTION

The Marymont Mineral Co. has requested a loan of $24,590 (DMEA docket 2787) to conduct exploration for uranium ores on property in the Durkee mining district near Marysvale, Piute County, Utah.

The project proposed by the applicant consists of construction of 300 feet of access road, erection of a work shack, and driving an exploratory adit, with additional underground exploration to be indicated by the nature of mineralization encountered in the adit.

A Bureau of Mines engineer examined the property on December 9, 1952, and on January 12 and 13, 1953, the area was examined by two Geological Survey geologists.

LOCATION AND PHYSICAL FEATURES

The Marymont Mineral Co. property is situated about 6 miles by road north of Marysvale, Piute County, Utah, in Sec. 6, T. 27 S., R. 3 W., and Sec. 28, T. 26 S., R. 4 W., S.L.B.M. The property is included in the Durkee mining district, approximately 1½ miles west of the present uranium-producing area (fig. 1).

Marysvale is served by a branch line of the D. & R. G. Railroad and is the location of the AEC ore-buying depot. The road from Marysvale to the property consists of 5½ miles of good county road and a final one-half mile of fairly good, privately owned, graded, dirt road.

Topographically, most of the property, including the principal showings of uranium mineralization, is situated on a steeply inclined, east slope. The site of the proposed project is at an altitude of approximately 6,500 feet.

The Sevier River, which at the nearest point is about 1/4 mile west of the property, is sufficiently large to supply ample water for an exploratory project.

Climatic conditions allow year-round mining operations in this area.

OWNERSHIP AND EXTENT

The property, known as the East Slope mine, is owned by John W. Henry and Donald McIntosh of Junction, Utah. Five unpatented claims are leased to the applicant, Maryment Mineral Co., owned by Joseph A. Thunder, Box 268, Del Mar, California. The book and page numbers in the Piute County records are as follows:

Claim	Book	Page
East Slope Nos. 1 and 2	E	281
East Slope No. 3	E	282
East Slope No. 4	F	110
East Slope No. 5	F	204

Notice of proof of labor on assessment work has been filed for the required periods.

The claim locations are valid in so far as withdrawals are concerned. Bureau of Land Management records show that some of this

land had been withdrawn previously, but was restored to entry in 1932, prior to the date of location of these claims.

GEOLOGY

The Marysvale district is largely underlain by volcanic rocks which have been intruded by quartz monzonite and granite. These rocks are unconformably overlain by younger basalt flows.

Two periods of major extrusions are noted in the area: the early Bullion Canyon series, and the later Mt. Belnap series. The Bullion Canyon series of latitic and andesitic flows and breccias was extruded on formations ranging from Permian to Jurassic in age. Contemporaneous with or slightly later than the extrusion of the Bullion Canyon series, large quartz monzonite intrusions emplaced the volcanics. Mountainous terrain was developed during an erosional interval following this period of igneous activity. The second major period of volcanic activity deposited the Mt. Belnap rhyolitic flows and related pyroclastics on the rugged erosion surface cut in latite, andesite and quartz monzonite. Granitic intrusions, the compositional equivalents of the rhyolites, were emplaced either contemporaneously or slightly later than the Mt. Belnap intrusion. An erosion surface, developed in both extrusives and intrusives, provided a base for the last period of volcanism during which thin olivine basalt flows were locally extruded.

The rocks have been cut by three sets of nearly vertical faults, one set that strikes N. 60° - 70° E., and contains the principal ore

deposits; another fault strikes generally north; and another system of faults strikes northwest and dips steeply south. The quartz monzonite is cut by joints which may be related to the ore bodies as they locally contain uranium minerals. Two of the more prominent vertical joint sets strike N. 85° W. and N. 35° W. The uranium deposits are found in narrow veins, gouge-filled fissures, and shear zones in the quartz monzonite.

The rocks in the mine area include latite and quartz monzonite of Tertiary age. The latite is exposed on the surface and in the Marymont mine adits; the quartz monzonite was cut in drill holes 100 to 300 feet below the surface (fig. 2). These rocks have been cut by northwestward-trending faults and shear zones that dip southwestward.

ORE DEPOSITS

The uranium deposits in the central Marysvale area occur largely in narrow veins and gouge-filled shear zones in the quartz monzonite. Pitchblende is the primary mineral, but it is altered to secondary minerals near the surface.

The uranium exposures on the Marymont property contain autunite, schroeckingerite, and possibly torbernite, disseminated throughout the altered latite, and in veinlets cutting the altered latite. The uranium minerals are found in small pods a foot or two in diameter. Assays of these pods range from 0.01 to 0.14 percent U_3O_8. Although considerable trenching and drilling has been done, no ore bodies of minable size and grade have been found.

ORE RESERVES

There has been no production from the Marymont Mining Company property and it is not possible at this time to calculate any reserves of inferred ore.

PROPOSED EXPLORATION

The applicant has proposed an exploratory program consisting of construction of a 300-foot access road to the site of a proposed exploratory adit of undetermined length, for the purpose of exploring the property at depth, below surface indications. The proposed work is estimated by the applicant to cost $24,590. A field examination was made January 12 and 13, 1953, by R. J. Roberts and J. W. Hasler, in answer to a request from the Field Team, Region IV. Occasional pods of mineralization as much as a foot wide were noted disseminated throughout the altered latite. Samples of the most promising mineralization assayed as high at 0.14 percent U_3O_8 and averaged 0.04 percent U_3O_8.

CONCLUSIONS AND RECOMMENDATIONS

The area has been explored by trenching and several short adits, which failed to show any commercial-grade ores. Geiger counter readings on the property are slightly above the regional background count.

Diamond drilling on the property by the Atomic Energy Commission found quartz monzonite 100-300 feet below the surface, but no mineralized faults were found to serve as targets for possible exploration. The applicant's exploratory program is not likely to find uranium ore of commercial grade, and the mine area itself does not have any significant

occurrences of mineralization. It is therefore concluded that the chances of finding ore of commercial grade on the Marymont Mineral property are not good and it is recommended that the application for a loan be denied. The AEC field geologists working in the area concur with this recommendation.

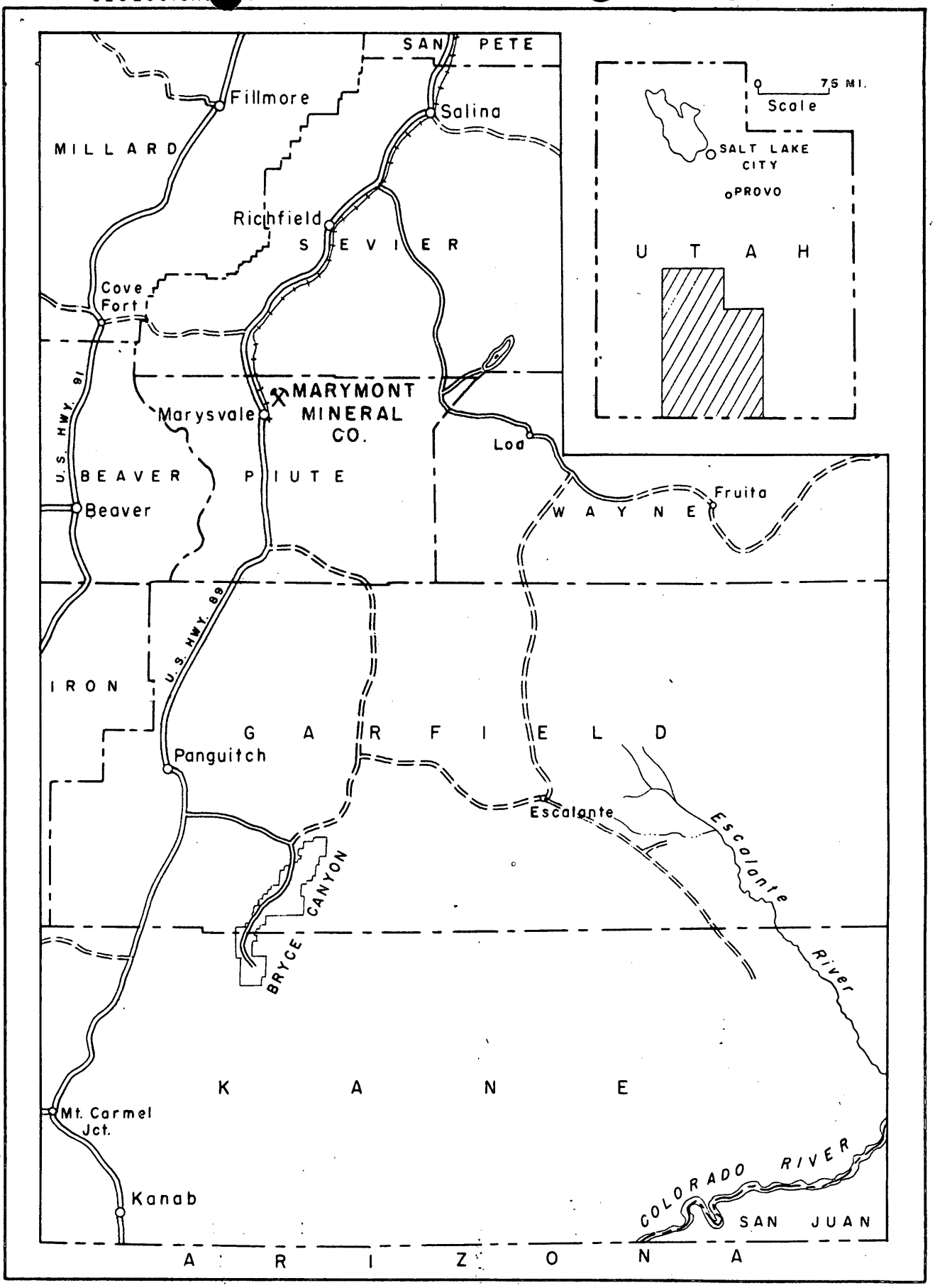

FIG. 1 INDEX MAP OF UTAH

0 5 10 15 20 MILES
Scale

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

224 New Customhouse
Denver 2, Colorado

March 2, 1953.

Mr. Joseph A. Thunder
Marymont Mineral Company
P. O. Box 243
Marysvale, Utah

Dear Mr. Thunder:

Reference is made to your application for Government aid on the East Slope Mine.

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

A careful study of your property and data available to this agency, reveals that the probability of disclosing mineable reserves of uranium by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

W. H. King
W. H. King
Field Team, Region IV

A. H. Koschmann
A. H. Koschmann
Field Team, Region IV

HMC:cwn

CC: Administrator (DMEA)
SEWilson
Subject
Chron.
Koschmann (2)
Connors

Entered by
ASTM DATA COMMITTEE
3-11-53
(date)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 6 1953

224 New Customhouse
Denver 2, Colorado

March 2, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2787, (Uranium) Marymont Mineral Co., Piute County, Utah.

Enclosed are four copies of the final report on the subject docket, the original and one copy of Form 3b, and a copy of the letter of denial to the applicant.

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
3-11-53

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 6 1953

Mining Division
Region IV

March 2, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2787 (Uranium) Marymont Mineral Co., Piute County, Utah.

Enclosed are eleven copies of the final report on the subject docket.

The applicant requested $24,590.00 to build a new access road and drive a new tunnel.

Considerable trenching and diamond drilling have been done on the property and the field examination disclosed that the applicant's proposal is not likely to show any significant occurrences of uranium mineralization. The Atomic Energy Commission geologists in the area concur in this belief.

The examining engineer recommends that the application be denied and we concur in this recommendation.

W. H. King
W. H. King

Enclosures

3-11-58
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 6 1953

February 24, 1953

Memorandum,

To: W. H. King, Chief, Mining Division, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: DMEA 2787, Marymont Mineral Co., Piute County, Utah

Attached are the original and 10 copies of a report covering examination of the subject property by personnel from this office and the office of the Geological Survey. Also included is a section on Summary, Conclusions and Recommendations.

The examination disclosed that uranium mineralization on the Marymont property is found disseminated throughout the latite and in veinlets cut in altered latite. Samples taken indicate that the assay value of the uranium mineralization ranges from 0.01 to 0.14 percent U_3O_8. Considerable trenching and drilling has been done on the property, but no ore bodies of commercial significance found. It is believed that the chances of finding commercial ore on the Marymont property are not good; thus the examining engineer and geologists recommend that the loan request be denied. I concur with this recommendation.

The examining personnel discussed the Marymont application and property with AEC representatives at Marysvale.

The original brochure is enclosed.

Stephen R. Wilson
Stephen R. Wilson

Enclosures 3

Noted by
DMEA Operations Commission
3-11-53
(date)

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By R. J. Roberts, J. W. Hasler and M. M. Gilkey

Property of the Marymont Mineral Company, Piute County, Utah, was examined by personnel of the Geological Survey and Bureau of Mines during December 1952 and January 1953. The examination was made at the request of the DMEA Field Team, Region IV, to appraise an application for funds to conduct an exploratory project on the property.

The rocks in the Marysvale district are largely volcanic, and have been intruded by quartz monzonite and granite. The area has been cut by three sets of vertical faults, one set that strikes north, one northwest, and a third, N. 60° - 70° E. The latter set contains the principal ore deposits.

Rocks in the Marymont mine area are principally latite and quartz monzonite. Latite is exposed on the surface and in the adits, and quartz monzonite was cut in diamond drill holes from 100 feet to 300 feet below the surface. These rocks have been cut by northwestward-trending faults and shear zones that dip southwestward.

Uranium showings at the Marymont property contain autunite, and other secondary uranium minerals disseminated throughout the latite, and in veinlets cutting altered latite. Assays of these uranium pods range from 0.01 to 0.14 percent U_3O_8. Considerable trenching and drilling has been done and no ore bodies of minable size and grade have been found.

Reviewed by
DMEA OPERATING COMMITTEE
3-11-53
(date)

There has been no production from the Marymont property and it is not possible at this time to calculate any reserves of inferred ore.

The applicant's proposal consists of an access road and several hundred feet of drifting and crosscutting at depth. A field examination disclosed that the applicant's proposal is not likely to find ore of commercial grade and that the mine area does not have any significant occurrences of uranium mineralization.

It is therefore concluded that the chances of finding ore of commercial grade at the Marymont property are not good, and it is recommended that the application for a loan be denied. The AEC field geologists in the area concur with this recommendation.

MARYMONT MINERAL COMPANY
PIUTE COUNTY, UTAH
DMEA-2787
Uranium

Engineering and Geologic Report

By R. J. Roberts and J. W. Hasler,
Geologists
Geological Survey

and

M. M. Gilkey
Mining engineer
Bureau of Mines

MARYMONT MINERAL COMPANY
PIUTE COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Marymont Mineral Co., Piute County, Utah
Fig. 2 Plan and section of workings

INTRODUCTION

The Marymont Mineral Co. has requested a loan of $24,590 (DMEA docket 2787) to conduct exploration for uranium ores on property in the Durkee mining district near Marysvale, Piute County, Utah.

The project proposed by the applicant consists of construction of 300 feet of access road, erection of a work shack, and driving an exploratory adit, with additional underground exploration to be indicated by the nature of mineralization encountered in the adit.

A Bureau of Mines engineer examined the property on December 9, 1952, and on January 12 and 13, 1953, the area was examined by two Geological Survey geologists.

LOCATION AND PHYSICAL FEATURES

The Marymont Mineral Co. property is situated about 6 miles by road north of Marysvale, Piute County, Utah, in Sec. 6, T. 27 S., R. 3 W., and Sec. 28, T. 26 S., R. 4 W., S.L.B.M. The property is included in the Durkee mining district, approximately 1½ miles west of the present uranium-producing area (fig. 1).

Marysvale is served by a branch line of the D. & R. G. Railroad and is the location of the AEC ore-buying depot. The road from Marysvale to the property consists of 5½ miles of good county road and a final one-half mile of fairly good, privately owned, graded, dirt road.

Topographically, most of the property, including the principal showings of uranium mineralization, is situated on a steeply inclined, east slope. The site of the proposed project is at an altitude of approximately 6,500 feet.

The Sevier River, which at the nearest point is about 1/4 mile west of the property, is sufficiently large to supply ample water for an exploratory project.

Climatic conditions allow year-round mining operations in this area.

OWNERSHIP AND EXTENT

The property, known as the East Slope mine, is owned by John W. Henry and Donald McIntosh of Junction, Utah. Five unpatented claims are leased to the applicant, Marymont Mineral Co., owned by Joseph A. Thunder, Box 268, Del Mar, California. The book and page numbers in the Piute County records are as follows:

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Notice of proof of labor on assessment work has been filed for the required periods.

The claim locations are valid in so far as withdrawals are concerned. Bureau of Land Management records show that some of this

land had been withdrawn previously, but was restored to entry in 1932, prior to the date of location of these claims.

GEOLOGY

The Marysvale district is largely underlain by volcanic rocks which have been intruded by quartz monzonite and granite. These rocks are unconformably overlain by younger basalt flows.

Two periods of major extrusions are noted in the area: the early Bullion Canyon series, and the later Mt. Belnap series. The Bullion Canyon series of latitic and andesitic flows and breccias was extruded on formations ranging from Permian to Jurassic in age. Contemporaneous with or slightly later than the extrusion of the Bullion Canyon series, large quartz monzonite intrusions emplaced the volcanics. Mountainous terrain was developed during an erosional interval following this period of igneous activity. The second major period of volcanic activity deposited the Mt. Belnap rhyolitic flows and related pyroclastics on the rugged erosion surface cut in latite, andesite and quartz monzonite. Granitic intrusions, the compositional equivalents of the rhyolites, were emplaced either contemporaneously or slightly later than the Mt. Belnap intrusion. An erosion surface, developed in both extrusives and intrusives, provided a base for the last period of volcanism during which thin olivine basalt flows were locally extruded.

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deposits; another fault strikes generally north; and another system of faults strikes northwest and dips steeply south. The quartz monzonite is cut by joints which may be related to the ore bodies as they locally contain uranium minerals. Two of the more prominent vertical joint sets strike N. 85° W. and N. 35° W. The uranium deposits are found in narrow veins, gouge-filled fissures, and shear zones in the quartz monzonite.

The rocks in the mine area include latite and quartz monzonite of Tertiary age. The latite is exposed on the surface and in the Marymont mine adits; the quartz monzonite was cut in drill holes 100 to 300 feet below the surface (fig. 2). These rocks have been cut by northwestward-trending faults and shear zones that dip southwestward.

ORE DEPOSITS

The uranium deposits in the central Marysvale area occur largely in narrow veins and gouge-filled shear zones in the quartz monzonite. Pitchblende is the primary mineral, but it is altered to secondary minerals near the surface.

The uranium exposures on the Marymont property contain autunite, schroeckingerite, and possibly torbernite, disseminated throughout the altered latite, and in veinlets cutting the altered latite. The uranium minerals are found in small pods a foot or two in diameter. Assays of these pods range from 0.01 to 0.14 percent U_3O_8. Although considerable trenching and drilling has been done, no ore bodies of minable size and grade have been found.

ORE RESERVES

There has been no production from the Marymont Mining Company property and it is not possible at this time to calculate any reserves of inferred ore.

PROPOSED EXPLORATION

The applicant has proposed an exploratory program consisting of construction of a 300-foot access road to the site of a proposed exploratory adit of undetermined length, for the purpose of exploring the property at depth, below surface indications. The proposed work is estimated by the applicant to cost $24,590. A field examination was made January 12 and 13, 1953, by R. J. Roberts and J. W. Hasler, in answer to a request from the Field Team, Region IV. Occasional pods of mineralization as much as a foot wide were noted disseminated throughout the altered latite. Samples of the most promising mineralization assayed as high at 0.14 percent U_3O_8 and averaged 0.04 percent U_3O_8.

CONCLUSIONS AND RECOMMENDATIONS

The area has been explored by trenching and several short adits, which failed to show any commercial-grade ores. Geiger counter readings on the property are slightly above the regional background count.

Diamond drilling on the property by the Atomic Energy Commission found quartz monzonite 100-300 feet below the surface, but no mineralized faults were found to serve as targets for possible exploration. The applicant's exploratory program is not likely to find uranium ore of commercial grade, and the mine area itself does not have any significant

occurrences of mineralization. It is therefore concluded that the chances of finding ore of commercial grade on the Marymont Mineral property are not good and it is recommended that the application for a loan be denied. The AEC field geologists working in the area concur with this recommendation.

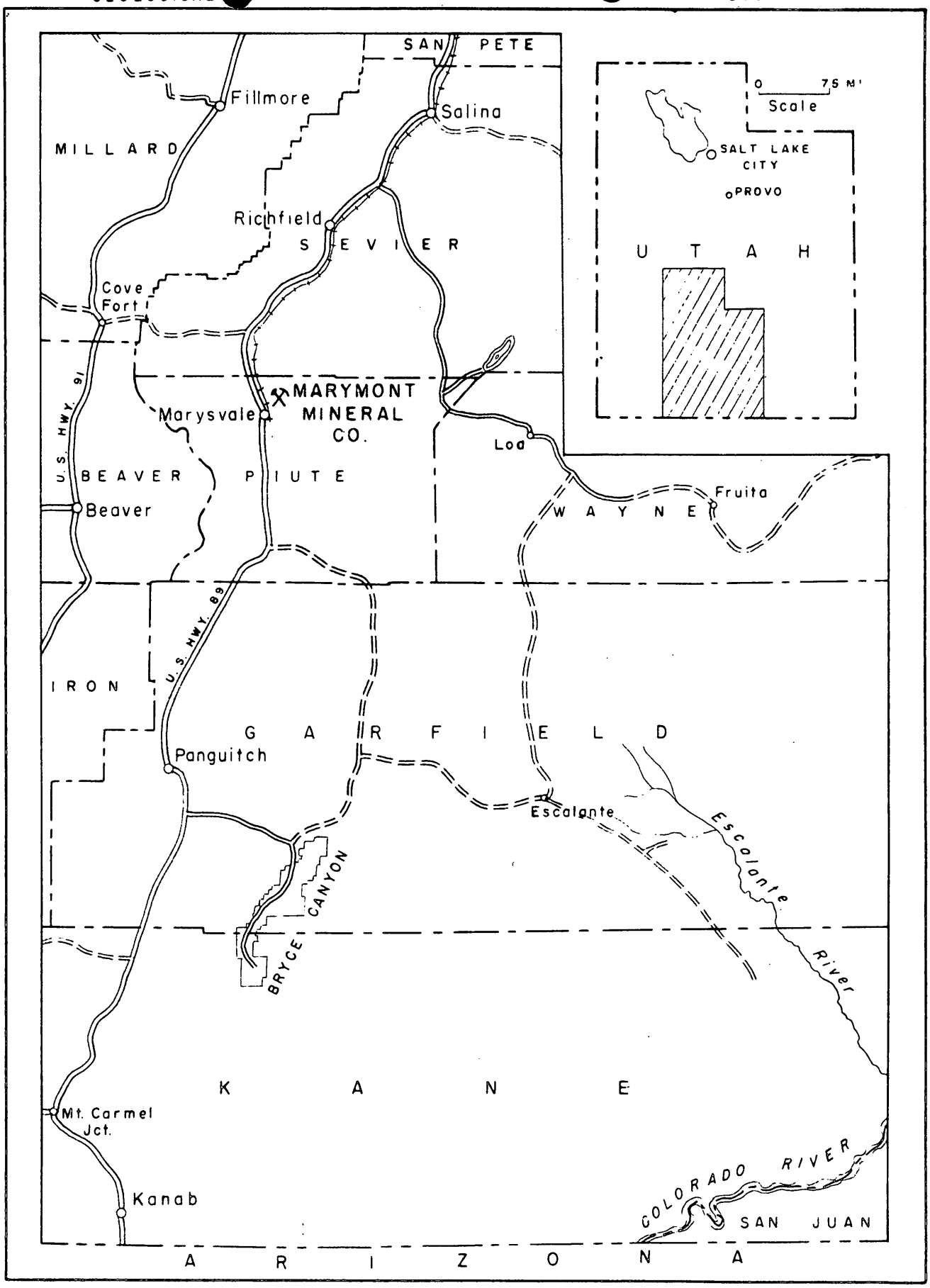

FIG. 1 INDEX MAP OF UTAH

0 5 10 15 20 MILES
Scale

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

224 New Customhouse
Denver 2, Colorado

NOV 3 - 1952

November 21, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Executive Officer, Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate is DMA Form 3b and Form MF-103 in triplicate and supporting data pertaining to the following applications for Government assistance in exploration work.

Marymont Mineral Co. — Dmea - 2787
P. O. Box 243
Marysvale, Utah

~~Floyd Blair and Lowell Staats~~ - ~~Dmea - 2788~~
~~Box 307~~
~~Nucla, Colorado~~

~~American Fiber Co.~~ - ~~Dmea - 2789~~
~~c/o Bryant & Carnell~~
~~42 North Broad St.~~
~~Globe, Arizona~~

W. H. King
W. H. King

Enclosures

Dmea-2787

MARYMONT MINERAL CO.
Marysvale, Uta h

November2,1952

Mr. C. O. Mittendort
Acting Administrator
Defense Minerals Exploration Administration
Department of Intereir
Washington, 25, D.C.

Dear Sir:

Attached please find our applietion fer a mining exploration loan.

Form MF (revised April 1952) is completed herein to the best of our understanding. If any information is lacking or requires revision of clarification, please advise us and we will gladly comply with your request.

Very truly yours

Marymont Mineral Co.

By J. A. Thunder
J. A. Thunder, owner

APPLICATION FOR

MINING EXPLORATION LOAN

Pursua nt to
Sections 302 and 303 and
Mineral Order No. 5
of the
Defense production act of 1950.

Submitted to
Mr. C. O. MITTENDORF, ACTING ADMINISTRATOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
WASHINGTON D.C.

by

MARYMONT MINERAL CO.

Maryavale, Utah

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

RECEIVED
Defense Minerals Administration
NOV 24 1952

Not to be filled in by applicant

Docket No. Dmea - 2787
Metal or Mineral
Date Received 11-24-52
Estimated Cost
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: MARYMONT MINERAL CO. P. O. Box 243 Marysvale, Utah

Joseph A. Thunder, (owner) Box 268 Del Mar. Calif.

(*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 Five "EAST SLOPE MINE" Claims are in within the W½ of SW¼, Sec. 28 and the W½ of NW¼ of Sec. 6, R 3 W. T 27 S No land is owned by this company. Only five claims are under lease.

(*b*) State any mine name by which the property is known. East Slope Mine

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee (copy of lease attached)

(*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. Claims Nos. 1 and 2, in Book "E" Page 281, No. 3 on Page 282 Claims Nos. 4 and 5, in Book "F" Page 110 and 204 respectively

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 Uranium Primarily, Silver and Copper if ore proves of value.

(*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 1 days and be completed within 6 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.). None

(*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. None

(*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)? YES

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

[X] Money [X] Use of equipment owned by you [X] 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 1 November, 1952, 195

MARYMONT MINERAL CO.
(Applicant)

By Joseph A. Thunder
Joseph A. Thunder

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

MARYMONT MINERAL CO.
Marysvale, Utah

SUPPLEMENTARY DATA TO FORM MF-103

4. PHYSICAL DESCRIPTION

(a) Atomic Energy Commission has performed some diamond drilling in two different locations on claims.

The required assessment work for the years 1949, 1950, 1951 and 1952 has been done well over minimum needs. These have consisted in uncovering the vein at five different elevations. (see attached sketch) Also at second to lowest level two drifts were started, one approximately 40 feet long and the other about 20 feet. Road and excavation work over and above the assessment work has been done about $2000.00 value.

Since all this work was done prior to my lease, I have no interest in it other than to utilize the work when possible.

Mine workings are easilyaccessible by good county and private road over a distance of approximately six miles from Highway #89, Marysvale, Utah.

(b) There has been no past or current production of any ore.

(c) The claims is on the east slope of a lower than average hill of this area. The surface is quite rocky with little and poor vegetation . Surface inspection shows, Monazite, Autunite, Ryolite and Alunite. There is evidence of Fluorspar by reason of stain, also evidence of copper and silver and copper quartz, and Bullion Canyon rock in abundance. Uranium deposit shows in veins and gives evidence of bedding.

Reasons for exploring are to exploit strong evidence of good existing deposits.

Claim sketch and layout attached sketches #1, #2, and #3.

(d) Piute County, Utah, road of good gravel quality to within one-half mile of claims. Private road of good quality balance of way. Claims are about six miles from railroad and U. S. Government buying station.

The village of Marysvale, Utah is about six miles distance. It offers ample man power, residence facilities and supply concerns.

(c) There is more than ample man power in Marysvale. All needed materials can be obtained in Marysvale or in Richfield, Utah, about 30 miles north on Highway #89. Ample water can be had from the Sevier River, 1200 feet distant. Electric power is about half mile distant.

5. THE EXPLORATION PROJECT

(b) The proposed work will consist of:

1. Construction of new access road at lower level than in existence. This road is to be about 300 feet long.

2. Erection of work shack and sanitary facilities for men.

3. Start of new tunnel or drift at this lower level to try and get under ore as much as possible and avoid the expense of lifting as is being done on most other claims that are being worked in this area. The proposed tunnel will drift westward on a level until such time as ore of marketable value is found. Then a re-examination will be made to determine further action.

(d) Lessee has been a licensed general contractor in State of California since 1939, along with about 18 years of experience in general construction work of all types, including underground and tunnel work.

Our general supervisor has been working on mining operations or general construction since a youth of 12 years when under his father's guidance, also a miner. He has owned or operated mining claims since 20 years of age. His total accumulated mining and prospecting experience will aggregate over 20 years. He has an excellent reputation among local mining men.

6. ESTIMATE OF COSTS

(b) Labor supervision:

1 Mine supt.	@ $18.00 per day	$2700.00
1 miner	@ 15.00 per day	2250.00
1 mucker	@ 12.50 per day	1875.00
	labor for 6 mo.	$6825.00
1 Engineer in charge	$600.00 per mo.	3600.00
		$10425.00

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(Revised April 1952)

Marymont Mineral Co.
Marysvale, Utah

(c) OPERATING MATERIAL & SUPPLIES

Blasting Powder 20# per day @ $20.00 per CWt	$520.00
Fuse 50¢ per day	75.00
Blasting Caps $1.00 per day	150.00
Gasoline and oil for compressor	400.00
" " " " Truck	200.00
Tires for truck	50.00
Miscl. parts and repair to all equipment	25.00
Carbide for miner lamps @ $16.00 Cwt	40.00
6 months total	$1460.00

(d) OPERATING EQUIPMENT NEEDED

1. Air Compressor	$1600.00
1. Air hammer	350.00
1. Air hammer leg	150.00
150 feet of air hose	300.00
6 Air hose fittings	10.00
150 feet of pressure water hose	75.00
1 water hose valve	10.00
1 " pressure tank	75.00
Jack hammer drill steel (assorted)	50.00
100 drill bits @ 50¢ ea.	50.00
3 Miners hats @ $6.50	20.00
4 Miners picks @ 2.75	11.00
1 Air venting pressure system @ $2.00 per foot	1000.00
1 Ultra Violet light unit	35.00
	$5736.00

(d) EQUIPMENT ON HAND

1. Pickup truck (use allowance)	500.00
2 Wheel barrows	65.00
2 Wood axes	10.00
2 Miners' picks	4.00
1 Bow pipe and fittings	5.00
2 Powder tamper sticks	2.00

Form MP-103
(Revised April 1952

Marysvale Mineral Co.
Marysvale, Utah

6. (d) Continued

Heavy timber suitable for mining approx 2000 bd. ft.	$ 100.00
Oil and gas drums and containers	20.00
1 Oil burning water heater	100.00
2 " " space heater	100.00
1 Coal stove	15.00
1 Forge and tool sharpening equipment	125.00
Carpenter and mechanical hand tools	300.00
10 shovels	40.00
8 Timber and wood saws	50.00
1 Desk and Chairs	125.00
1 Typewriter	100.00
1 Stationery and booking supplies	10.00
100# Nails	12.00
1 Geiger Counter	110.00
2 Gasoline carrying cans	6.00
Miscl. Hardware	10.00
	$1809.00

(f) NEW BUILDING

1 Work shack and sanitary facilities	$ 450.00

(g) MISCELLANEOUS

Accounting and analytical work @ $4.00 per hour	$1200.00
State Unemployment Security Tax, Social Security Tax, Workmen's Compensation, Liability Insurance and payroll taxes. @ 11% of Gross	1140.00
Telephone service @ $5.00 per month	30.00
	$2370.00

(h) CONTINGENCIES

Unforseen and reserve for breakdown and emergencies 6% of total	1340.00
Total Cost of Project estimate	$24,590.00

Form MF-103
(Revised April 1952)

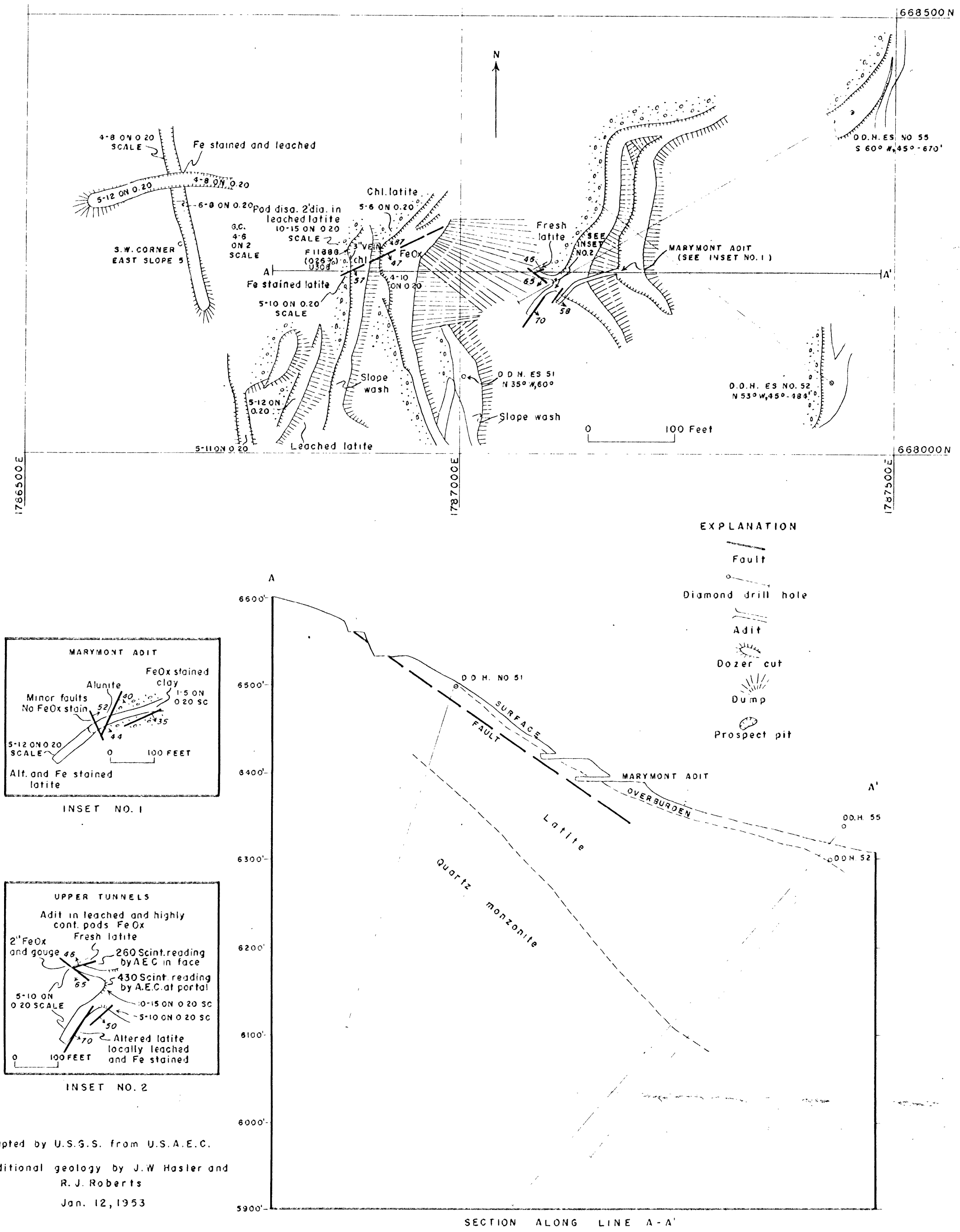
Marymont Mineral Co.
Marysvale, Utah

7. (b) I am prepared to furnish my share of the costs by:

Private capital funds.
Use of any and all now owned equipment.
Personal supervision and labor if necessary.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 2787



Adapted by U.S.G.S. from U.S.A.E.C.

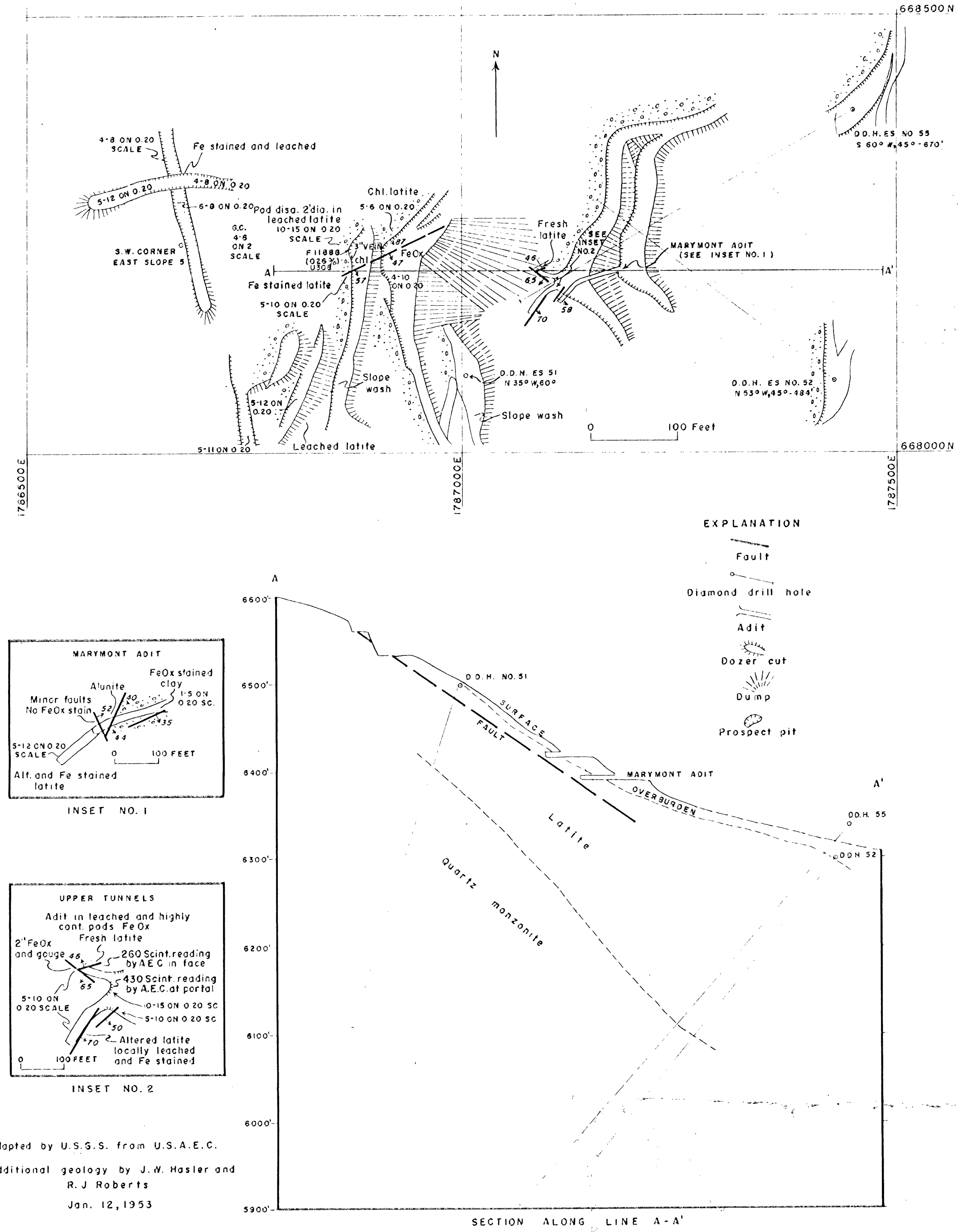
Additional geology by J.W Hasler and R. J. Roberts

Jan. 12, 1953

FIG. 2 PLAN AND SECTION OF WORKINGS - MARYMONT MINERAL COMPANY
PIUTE COUNTY, UTAH

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 2787



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