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DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 4356

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Exploration Project

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To:	Admr	Date	7-6-56
To:	M & R	Date	7-6-56
To:	Oper Com	Date	9-27-56
To:	Admr.	Date	9-28-56
To:		Date	
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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

400

SEP 28 1956

M B Mining and Exploration, Inc.
5365 King Street
Denver 11, Colorado

Re: Docket No. DMEA 4356 - Tungsten
Henry Stone Lode
Teller County, Colorado

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, although noting tungsten mineralization in the Henry Stone Lode claim, indicates to us that the probability of disclosing minable tungsten 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 program and for bringing this property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

SPHolt:fec
9/25/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. III
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

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

400

September 26, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $11,640.40
Docket No. DMEA 435 - Tungsten
M B Mining and Exploration, Inc.
Heavy Stone Lode
Teller County, Colorado

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

(1) The applicant, M B Mining and Exploration, Inc., 5365 King Street, Denver 11, Colorado, requested exploration assistance in the amount of $11,640.40 for bulldozing and drifting in the Heavy Stone Lode claim.

(2) The applicant controls by lease from the owners, Mark J. DeAngelo and L. B. Kinnett, one unpatented lode mining claim, situated in the W½, sec. 13, T. 15 S., R. 68 W., 6th P. M., Teller County, Colorado, and recorded in the office of the County Clerk and Recorder of Teller County as follows:

Claim Name	Book No.	Page No.
(Heavy Stone Lode	239	127-128

(3) The proposed program is to explore the quartz vein and shear zone on the Heavy Stone Lode claim by an unstated amount of drifting, after bulldozing an access road.

(4) In the area of the Heavy Stone lode claim sparse traces of tungsten occur possibly as wolframite, in a quartz vein along the east side of a shear zone in granite.

(5) The Field Team reports that on the Heavy Stone lode claim no visible tungsten mineralization was noted in the quartz vein exposed at the face of the short exploration adit. Mineralogical studies, including x-ray examination revealed no wolframite, and no fluorescence was detected under ultra-violet light. A channel

sample across the vein ran less than 0.01 percent WO_3 and a selected hand sample of dark mineralized material contained only 0.33 percent WO_3. The quartz vein is small, with no evidence to suggest that it will widen and/or carry economically significant amounts of tungsten. The Field Team for the above reasons recommends that the application for DMEA assistance be denied. 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

SPHOLT:foc
9/26/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.

400

RECEIVED
SEP 19 1956

September 18, 1956

Memorandum

To: W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys

From: R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals & Ferroalloys

Subject: Review of Field Team Examination Report
DMEA Docket 4306 (Tungsten)
M. B. Mining and Exploration, Inc.,
Heavy Stone Lode
Teller County, Colorado

The Field Team found tungsten mineralization but concluded there is no evidence to suggest that the vein will widen and/or carry economically significant amounts of tungsten.

I concur in the recommendation that the application for DMEA assistance be denied.

R. W. Holliday

IN REPLY REFER TO:

402

RECEIVED
SEP - 7 1956

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

September 7, 1956

Re: DMEA 4356
. A. Mining & Exploration, Inc.
Heavy Stone Lode
Teller County, Colo.
$11,640.00 - Tungsten

Memorandum

To: M. . Martin, Defense Minerals Exploration Administration

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

Subject: Review of Field Team report.

The applicant requested assistance in doing $11,640.40 worth of work, exploring a quartz vein in a shear zone in granite, from which specimens of wolframite had been taken. About 80 days was to be consumed and the work was to be done where most likely to produce favorable results.

The examiners found old and new work had been done on the quartz vein, probably in search of gold as for the early work. The vein is up to 3.[illegible] ft wide and the shear zone as observed is up to 20 feet wide. A 2.[illegible] foot sample of the vein assayed 0.01% WO_3. As this was considered, by the applicants' representative the best exposure, the vein in general has no promise. A specimen assayed 0.33% WO_3.

The examiners and the Field Team recommend denial of the application.

I concur with that recommendation.

N. E. Nelson

N. . Nelson

N Nelson:btr
G 9/7/56

cc: Robert Holliday, 3517
Director's reading file (4212)
Branch reading file (4212)
DMEA (3)
Chron. file
Docket file

402

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

August 29, 1956

224 New Customhouse
Denver 2, Colorado

WSA

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4356 (Tungsten)
M B Mining and Exploration, Inc., (Heavy Stone Lode)
Teller County, Colorado

Enclosed are the original and three copies of a joint geologic and engineering Report of Examination on the subject property.

Samples taken by the examiners indicated insignificant amounts of tungsten in the vein material. They conclude that exploration would not result in the discovery of significant amounts of tungsten ore. They recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE

(date)

IN REPLY REFER TO:
DMEA
DEPARTMENT OF THE INTERIOR
REGION III
DENVER, COLORADO
AUG 29 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

August 28, 1956

TRANSMITTED
AUG 29 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw
E. N. Harshman

Subject: DMEA Docket 4356 (Tungsten), M B Mining and Exploration, Inc., Heavy Stone Lode, Teller County, Colorado

Enclosed are the original and eight copies of a joint examination report by D. H. Richter, U. S. Geological Survey, and Carl Belser, U. S. Bureau of Mines, in which denial of the subject application is recommended.

The applicant applied for exploration of the Heavy Stone lode claim by an unstated amount of drifting and bulldozing at an estimated cost of $11,640.

Samples taken by the examiners show insignificant amounts of tungsten present in the vein material accompanied by relatively high amounts of phosphorous. They conclude that exploration will not result in the discovery of significant amounts of tungsten ore.

We concur with these conclusions and recommendations.

John F. Shaw
Superintendent of the Denver
Experiment Station

E. N. Harshman
Member, Field Team

Enclosures (9)
ENHarshman:mp

Reviewed by
DMEA OPERATING COMMITTEE

(date)

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED

AUG 29 1956

CONFIDENTIAL

NOT FOR PUBLIC INSPECTION OR QUOTATION

DMEA 4356

M B Mining and Exploration, Inc.

Heavy Stone Lode

Teller County, Colorado

Tungsten

Joint Engineering and Geological Report

by

Donald H. Richter, Geologist
Geological Survey

Carl Belser, Mining Engineer
Bureau of Mines

August 20, 1956

Reviewed by
DMEA OPERATING COMMITTEE

(Date)

CONTENTS

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ILLUSTRATIONS

Figure	Follows page
1. Location map, Heavy Stone Lode, M B Mining and Exploration, Inc., Teller County, Colorado. DMEA 4356	2
2. Geologic map of mine workings, Heavy Stone claim, M B Mining and Exploration, Inc., Teller County, Colorado. DMEA 4356	2

DMEA 4356

M B MINING AND EXPLORATION, INC.
HEAVY STONE LODE
TELLER COUNTY, COLORADO

INTRODUCTION AND SUMMARY

M B Mining and Exploration, Inc., 5363 King Street, Denver, Colorado, on June 20, 1956, made application to the Defense Minerals Exploration Administration for aid in drifting an unstated distance upon a quartz vein containing wolframite, at a total estimated cost of $11,640.

The claims were examined on July 30, 1956, by an examining team from the Bureau of Mines and the Geological Survey.

The property consists of one unpatented claim on the south flank of Mount Rosa at an altitude of about 10,000 feet in sec. 13, T. 15 S., R. 68 W., 6th P. M., Teller County, Colorado.

The country rock is Pikes Peak granite, a coarse-grained intrusive of Precambrian age. A shear zone striking N. 15° W. and dipping N. 80° E. is exposed near the portal of a new adit and along the sides of old workings, where it has a maximum thickness of at least 20 feet. A quartz vein is present along the east side of the shear zone. It was on this quartz vein that the new adit was driven.

The best sample taken by the applicant is said to have run 0.22 percent WO_3. Samples taken during the examination contained only minor amounts of WO_3.

There is no reason to believe that significant amounts of tungsten ore will be discovered on the property. Therefore, the application is recommended for denial.

ACKNOWLEDGMENTS

The examining team was accompanied by Jack Olofson, a stockholder in the company, and Manas Veeraburus, an I. C. A. geologist.

LOCATION, TOPOGRAPHY, AND CLIMATE

The property consists of a single unpatented claim in the west half of sec. 13, T. 15 S., R. 68 W., 6th P. M., Teller County, Colorado (figs. 1 and 2). The claim is on the south flank of Mount Rosa at an approximate altitude of 10,000 feet. A 1,500-foot access road connects the mine workings with State Highway 122, at a point 19 miles east of Cripple Creek and 19 miles southeast of Colorado Springs. The nearest custom tungsten mill is at Nederland, Colorado, 109 miles to the north.

Snowfall is somewhat heavy during the winter months, but the roads can be kept open.

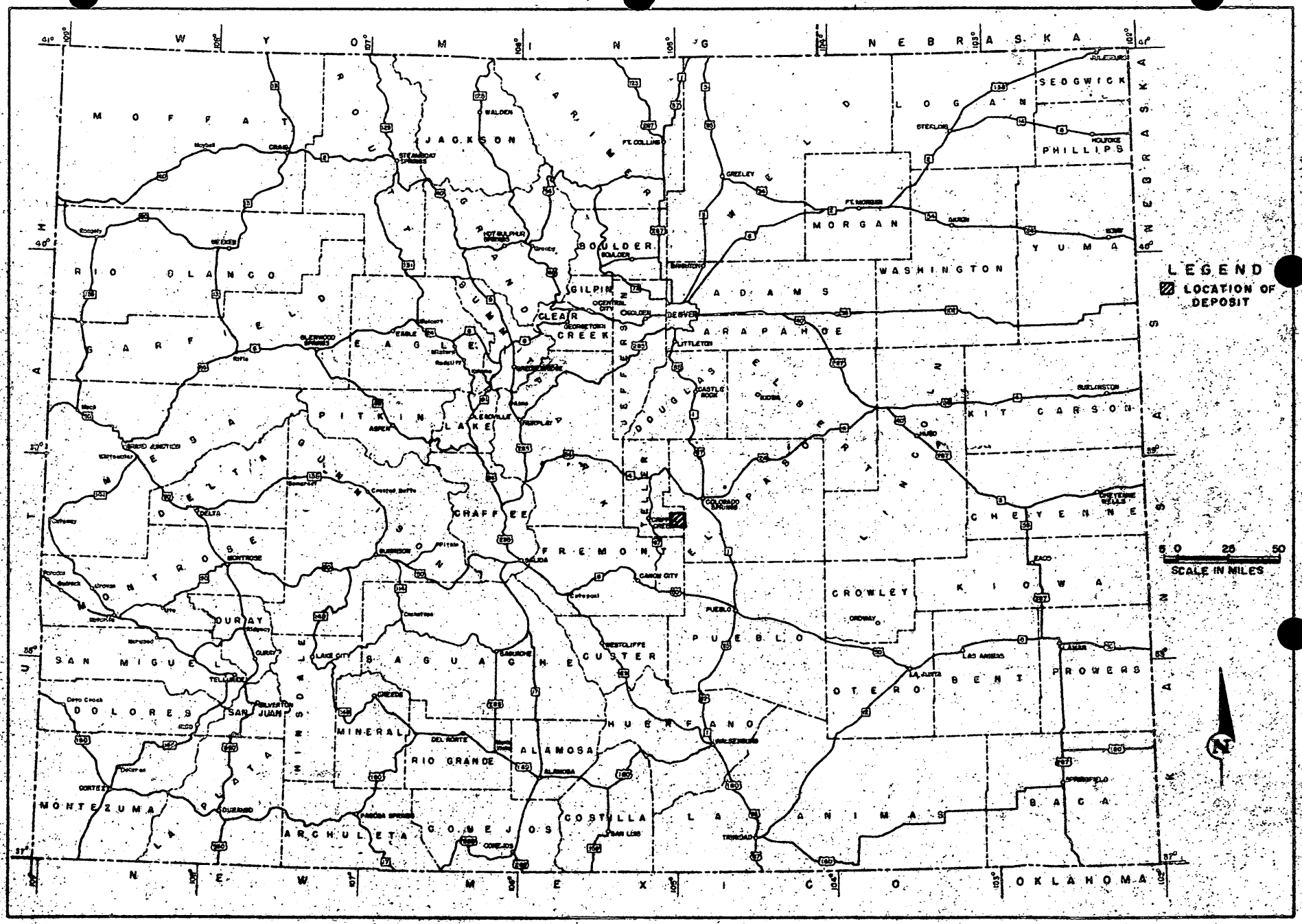

FIGURE 1 - LOCATION MAP, MEAVY STONE LODE, M.B. MINING AND EXPLORATION, INC., TELLER COUNTY, COLO. DMEA 4356

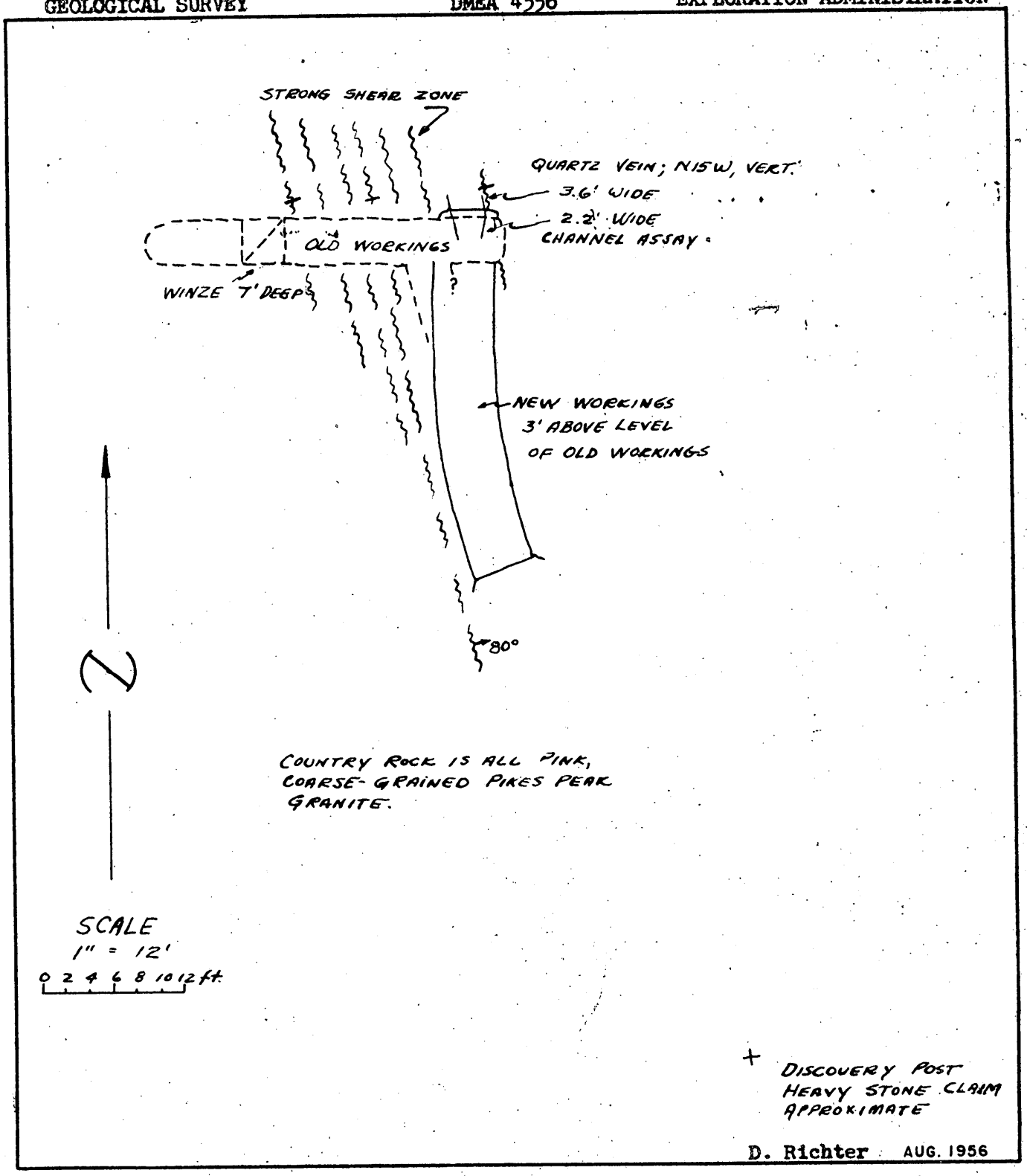

FIGURE 2. GEOLOGIC MAP OF MINE WORKINGS, HEAVY STONE CLAIM, M B MINING AND EXPLORATION INC., TELLER COUNTY, COLORADO. DMEA 4356.

HISTORY AND PRODUCTION

In 1934 a short adit was driven by a prospector looking for gold. Later some work was done in approximately the same location by L. B. Kimmett, but no claim was recorded. Mark J. Angelo located the ground in 1954. No production of either gold or tungsten has been made.

OWNERSHIP AND EXTENT

The Heavy Stone lode was recorded in the Office of the County Clerk and Recorder of Teller County in Book 239, pages 127 and 128, by Mark J. Angelo on June 11, 1954. An agreement of joint ownership was then made between Mark J. DeAngelo and L. B. Kimmett. Leases were granted to M B Mining and Exploration, Inc., by L. B. Kimmett for his 51 percent interest in the property on September 9, 1955, and by Mark J. DeAngelo for his 49 percent interest in the property on May 1, 1956.

PRESENT STATUS

Exploration and development

The property has been partly explored through a 27-foot adit driven northerly, which connects with older workings that were driven in 1934 (fig. 2).

Mining equipment and other facilities

Mining equipment consists of 150 feet of 12-pound track, and about 750 feet of 12-pound rails that are stored near the portal of the adit.

GEOLOGY AND MINERALOGY

The geology of the Heavy Stone claim of M B Mining and Exploration, Inc., is relatively simple. The country rock is Pikes Peak granite, a coarse-grained pink intrusive of Precambrian age. A few tens of feet north of the center of the claim a strong shear zone striking N. 10° to 15° W. and dipping from 80° E. to vertically is present. This shear zone is best exposed near the portal of the new adit and along the sides of the old workings, where it has a maximum thickness of at least 20 feet. Fracture surfaces in the shear zone contain secondary white mica and minor amounts of chlorite.

A quartz vein or pegmatite, ranging in width from 3.5 to 2.2 feet and striking approximately N. 15° W. with a near vertical dip is present along the known east side of the shear zone. The vein is exposed in the north face of the new workings and at the east end of the old workings (fig. 2). The quartz is massive and

coarsely crystalline, varies in color from white to smoky, and is strongly fractured and striated. Thin yellow-brown iron oxide films coat many of the fracture surfaces. Scattered sparingly across the face of the vein are small, 1- to 6-inch, dark nodules of specular hematite, botryoidal wad, limonite, quartz, and possibly wolframite. This same type of mineralization, only more pronounced, is also present in a thin chloritized shear which separates the quartz vein from the granite on the east. Mineralogical studies, consisting of X-ray and physical examinations, of the nodules did not reveal the presence of wolframite. No fluorescence, which could be attributable to scheelite, was detected by ultra-violet light examination of the quartz vein, sheared granite, or selected hand specimens.

A channel sample across the face of the quartz vein exposed in the old workings contained less than 0.01 percent WO_3 and 0.02 percent P. This part of the vein, which measures 2.2 feet wide was, according to the applicant's representative, some of the "highest grade material" in the workings. Furthermore, selected samples of dark mineralized material contained only 0.33 percent WO_3 and 0.44 percent P. Gold in both samples was less than 0.005 ounce per ton.

ORE RESERVES

No known reserves of tungsten are on the property.

PROPOSED EXPLORATION AND COSTS

The applicant's proposed exploration consisted of an unstated amount of drifting and a limited amount of surface bulldozing. The time estimated to complete the project was 4 months. The applicant's estimate of costs follows:

Independent contracts		
Bulldozing 32 hours at $15/hr.	$ 480.00	
Total		$ 480.00
Labor and supervision		
Miner-foreman, 80 days at $25/day	$ 2,000.00	
Miner, 80 days at $20/day	1,600.00	
Helper, 80 days at $15/day	1,200.00	
Engineer-geologist (part time)	500.00	
Total labor and supervision		$ 5,300.00
Operating material and supplies		
Water, fuel, bits, dynamite, caps, and steel (lumped) 80 days at $20/day	$ 1,600.00	
Repairs and maintenance, 80 days at $7/day	560.00	
Total operating material and supplies		$2,160.00

Operating equipment (rental)

Compressor, hose, hammer, air leg, and water tank, 4 months at $300/mo.	$ 1,200.00

Rehabilitation and repairs

None

New buildings, improvements, installations

Compressor and tool house	$ 500.00

Miscellaneous

Analytical work, accounting, workman's compensation, and taxes, 4 months at $125/mo.	$ 500.00

Contingencies

Lumped	$ 1,500.00

Total estimated cost of contract	$11,640.00
Government participation 75 percent, or	$ 8,730.00

At the time of the examination it was ascertained that the bulldozing is for the purpose of replacing the steep access road with a new road. No specified amount of drifting was stated, and later Mr. Biggs said that no definite amount of footage had been considered, just working for 3 or 4 months on what looked best to them.

RECOMMENDATIONS AND CONCLUSIONS

We do not recommend Government participation in this proposed tungsten exploration project for the following reasons:

(1) No visible tungsten mineralization was noted in the quartz vein exposed at the face of the short exploration adit. A channel sample across the vein ran less than 0.01 percent WO_3 and a selected hand sample contained only 0.33 percent WO_3.

(2) The quartz vein is small and there is no evidence to suggest that the vein will widen and/or carry economically significant amounts of tungsten.

For the above reasons it is recommended that the application for DMEA assistance (DMEA Docket 4356) be denied.

400

REGION III

Copy retained 400

Building 20
Denver Federal Center
Denver 2, Colorado
July 12, 1956

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4356 (Tungsten) M B Mining and Exploration, Inc. (Heavy Stone Lode) Teller County, Colorado

The application for M. B. Mining and Exploration, Inc., DMEA 4356, in the amount of $11,640.40 was received in this office on July 11.

A field examination will be made and suitable report prepared by an engineer from the Denver Office.

JOHN F. SHAW

John F. Shaw

cc: W. M. Traver (2)
E. H. Harshman
J. F. Shaw
Sec. Opr. Com. (2)

400

RECEIVED
JUL 12 1956

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

July 10, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

Copy retained 400

To: J. F. Shaw (2) (With brochure)
E. E. Marshman

From: Field Team, Region III

Subject: Docket DMEA 4356 (Tungsten) M B Mining and Exploration, Co. (Heavy Stone Lode), Teller County, Colorado

Copy retained 400

Enclosed is the subject application in the amount of $11,640.40.

No definite exploration program is submitted by the Applicant and additional information is needed before a field examination is warranted. In the event that the necessary additional information can be obtained from Mr. Maurice I. Biggs, President, 5365 King Street, Denver 11, Colorado, or Mr. Simon P. Forster, Vice-President, 2833 W. Irvington, Denver, Colorado, a field examination should be made.

Enclosed for your further information is a copy of a letter from the Chairman of the Operating Committee dated July 6, 1956 with attached memoranda of review of the application by E. E. Nelson and R. W. Holliday.

DMEA Field Team, Region III

W. M. TRAVER.

By W. M. Traver
Executive Officer

Enclosures

WMT:ab

cc: Chair. Op. Comm. (2)
Docket 4356
Chron.

400

JUL 8 - 1956

Mr. W. M. Trever, Executive Officer
DMEA Field Team, Region III
22d New Custom House Building
Denver 2, Colorado

Re: Docket No. DMEA 4356 - Tungsten
M B Mining and Exploration, Inc.
Heavy Stone Lode
Teller County, Colorado

Dear Mr. Trever:

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

As you note in your memorandum of June 22, 1956, no definite program is submitted by the applicant. We believe it would be advisable to contact Mr. Maurice I. Riggs, president, 5365 King Street, Denver 11, Colorado, or Mr. Simon P. Forster, vice-president, 2033 N. Irvington, Denver, Colorado, and if possible obtain sufficient information to justify a field examination.

Copies of memoranda dated June 27 and 28, 1956, by M. E. Nelson, Geological Survey, and R. W. Holliday, Bureau of Mines, respectively, relating to the project are enclosed.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

/s/ Robert W. Geehan

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

TLChapman/fec 7/3/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. III
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

Enclosures

JUL 6 - 1956

M B Mining and Exploration, Inc.
5365 King Street
Denver 11, Colorado

Re: Docket No. DMEA 4356 - Tungsten
Heavy Stone Lode
Teller County, Colorado

Gentlemen:

The above docketed application for exploration assistance for tungsten ores has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and is being referred to Mr. W. M. Trever, Executive Officer, DMEA Field Team, Region III, 224 New Custom House, Denver 2, Colorado, for review and a possible field examination of the property.

The Field Team will contact you and probably request further information. They will then advise you if a field examination is considered necessary, and any assistance you may give them will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

TLChapman/foc
7/3/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. III
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

408

June 28, 1956

Memorandum

To: W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys

From: R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals & Ferroalloys

Subject: Application
Docket DMEA 4356-$11,640.40
B B Mining and Exploration Inc.
5365 King Street, Denver 11, Colo.
Heavy Stone Lode
Teller County, Colorado
Mark J. De Angelo, Florence, Colorado

Subject application does not specifically state the nature of work proposed although it apparently would consist of 300 to 400 feet of drift at a cost of $11,640.40

Justification for the proposed exploration apparently consists of a single outcrop which assayed ".22 wolframite."

Additional information is needed for an appraisal and should be obtained either by correspondence or by an examination.

R. W. Holliday

Copy [illegible]

IN REPLY REFER TO:

400

RECEIVED
JUN 28 1956

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

June 27, 1956

Re: DMEA 4356
N.B. Mining and
Exploration, Inc.
Heavy Stone Lode
Teller Co., Colo.
511,640.40 - Tungsten

Memorandum

To: [illegible] . [illegible] Martin, Defense Minerals Exploration Administration

From: N. [illegible] Nelson, U. [illegible] Geological Survey

Subject: Review of application.

The applicant requests assistance in exploring a mineralized quartz dike or vein from the outcrop of which a sample was taken which assayed 0.[illegible] WO3. No other particulars, such as width of vein or dike, length exposed, etc., are given.

The work proposed consists of drifting which has been started. No footage is given, except that the work will be done in 60 days.

The county information and the grade of the material do not warrant an examination. Perhaps the Field Team can get first hand information from the President of the Company, justifying an examination or a denial.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. [illegible] Nelson

N Nelson:btr
G 6/27/56

cc: Robert Holliday, 3517
Director's reading file (4212)
Branch reading file (4212)
DMEA (3)
Chron. file
Docket file

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

400

DOCKET SURNAME
Holt
Martin
Killsgaard
Lahut
Selfridge

SEP 28 1956

M B Mining and Exploration, Inc.
5365 King Street
Denver 11, Colorado

Re: Docket No. DMEA 4356 - Tungsten
Heavy Stone Lode
Teller County, Colorado

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, although noting tungsten mineralization in the Heavy Stone Lode claim, indicates to us that the probability of disclosing minable tungsten 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 program and for bringing this property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

SPHolt:foc
9/25/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. III
Messrs. R. W. Holliday, USBM
T. H. Killsgaard, USGS

R.R.L.

DOCKET
SURNAME
Holt
Martin

400

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

September 26, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $11,640.40
Docket No. DMEA 4356 - Tungsten
M B Mining and Exploration, Inc.
Heavy Stone Lode
Teller County, Colorado

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

(1) The applicant, M B Mining and Exploration, Inc., 5365 King Street, Denver 11, Colorado, requested exploration assistance in the amount of $11,640.40 for bulldozing and drifting in the Heavy Stone Lode claim.

(2) The applicant controls by lease from the owners, Mark J. DeAngelo and L. B. Kimmett, one unpatented lode mining claim, situated in the W½, sec. 13, T. 15 S., R. 68 W., 6th P. M., Teller County, Colorado, and recorded in the office of the County Clerk and Recorder of Teller County as follows:

Claim Name	Book No.	Page No.
Heavy Stone Lode	239	127-128

(3) The proposed program is to explore the quartz vein and shear zone on the Heavy Stone Lode claim by an unstated amount of drifting, after bulldozing an access road.

(4) In the area of the Heavy Stone lode claim sparse traces of tungsten occur, possibly as wolframite, in a quartz vein along the east side of a shear zone in granite.

(5) The Field Team reports that on the Heavy Stone lode claim no visible tungsten mineralization was noted in the quartz vein exposed at the face of the short exploration adit. Mineralogical studies, including x-ray examination, revealed no wolframite, and no fluorescence was detected under ultra-violet light. A channel

sample across the vein ran less than 0.01 percent WO_3 and a selected hand sample of dark mineralized material contained only 0.33 percent WO_3. The quartz vein is small, with no evidence to suggest that it will widen and/or carry economically significant amounts of tungsten. The Field Team for the above reasons recommends that the application for DMEA assistance be denied. 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

SPHOLT:foc
9/26/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.

Docket

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

RECEIVED
SEP 19 1956

September 18, 1956

Memorandum

WSM

To: W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys

From: R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals & Ferroalloys

Subject: Review of Field Team Examination Report
DMEA Docket 4356 (Tungsten)
M. B. Mining and Exploration, Inc.,
Heavy Stone Lode
Teller County, Colorado

The Field Team found tungsten mineralization but concluded there is no evidence to suggest that the vein will widen and/or carry economically significant amounts of tungsten.

I concur in the recommendation that the application for DMEA assistance be denied.

RW Holliday
R. W. Holliday

Copy retained 400

Docket

IN REPLY REFER TO:

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

RECEIVED
SEP - 7 1956

September 7, 1956

Re: DMEA 4356
M. B. Mining & Exploration, Inc.
Heavy Stone Lode
Teller County, Colo.
$11,640.00 - Tungsten

Copy retained 400

NSay

Memorandum

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

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

Subject: Review of Field Team report.

The applicant requested assistance in doing $11,640.40 worth of work, exploring a quartz vein in a shear zone in granite, from which specimens of wolframite had been taken. About 80 days was to be consumed and the work was to be done where most likely to produce favorable results.

The examiners found old and new work had been done on the quartz vein, probably in search of gold as for the early work. The vein is up to 3.6 ft wide and the shear zone as observed is up to 20 feet wide. A 2.2 foot sample of the vein assayed 0.01% WO_3. As this was considered, by the applicants' representative the best exposure, the vein in general has no promise. A specimen assayed 0.33% WO_3.

The examiners and the Field Team recommend denial of the application.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

Docket

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

August 29, 1956

224 New Customhouse
Denver 2, Colorado

W309

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4356 (Tungsten)
M B Mining and Exploration, Inc., (Heavy Stone Lode)
Teller County, Colorado

Enclosed are the original and three copies of a joint geologic and engineering Report of Examination on the subject property.

Samples taken by the examiners indicated insignificant amounts of tungsten in the vein material. They conclude that exploration would not result in the discovery of significant amounts of tungsten ore. They recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
9-7-56
(date)

IN REPLY REFER TO:
DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR
AUG 29 1956
REGION III
DENVER, COLORADO

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

August 28, 1956

Memorandum

TRANSMITTED
AUG 29 1956

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw
E. N. Harshman

Subject: DMEA Docket 4356 (Tungsten), M B Mining and Exploration, Inc., Heavy Stone Lode, Teller County, Colorado

Enclosed are the original and eight copies of a joint examination report by D. H. Richter, U. S. Geological Survey, and Carl Belser, U. S. Bureau of Mines, in which denial of the subject application is recommended.

The applicant applied for exploration of the Heavy Stone lode claim by an unstated amount of drifting and bulldozing at an estimated cost of $11,640.

Samples taken by the examiners show insignificant amounts of tungsten present in the vein material accompanied by relatively high amounts of phosphorous. They conclude that exploration will not result in the discovery of significant amounts of tungsten ore.

We concur with these conclusions and recommendations.

John F. Shaw
Superintendent of the Denver
Experiment Station

E. N. Harshman
Member, Field Team

Enclosures (9)
ENHarshman:mp

Reviewed by
DMEA OPERATING COMMITTEE
9-7-56
(date)

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED
AUG 29 1956

CONFIDENTIAL
NOT FOR PUBLIC INSPECTION OR QUOTATION

DMEA 4356

M B Mining and Exploration, Inc.

Heavy Stone Lode

Teller County, Colorado

Tungsten

Joint Engineering and Geological Report

by

Donald H. Richter, Geologist
Geological Survey

Carl Belser, Mining Engineer
Bureau of Mines

August 28, 1956

Reviewed by
DMEA OPERATING COMMITTEE
9-7-56
(date)

CONTENTS

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Exploration and development	3
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Geology and Mineralogy	4
Ore Reserves	6
Proposed Exploration and Costs	6
Recommendations and Conclusions	8

ILLUSTRATIONS

Figure	Follows page
1. Location map, Heavy Stone Lode, M B Mining and Exploration, Inc., Teller County, Colorado. DMEA 4356	2
2. Geologic map of mine workings, Heavy Stone claim, M B Mining and Exploration, Inc., Teller County, Colorado. DMEA 4356	2

DMEA 4356

M B MINING AND EXPLORATION, INC.
HEAVY STONE LODE
TELLER COUNTY, COLORADO

INTRODUCTION AND SUMMARY

M B Mining and Exploration, Inc., 5363 King Street, Denver, Colorado, on June 20, 1956, made application to the Defense Minerals Exploration Administration for aid in drifting an unstated distance upon a quartz vein containing wolframite, at a total estimated cost of $11,640.

The claims were examined on July 30, 1956, by an examining team from the Bureau of Mines and the Geological Survey.

The property consists of one unpatented claim on the south flank of Mount Rosa at an altitude of about 10,000 feet in sec. 13, T. 15 S., R. 68 W., 6th P. M., Teller County, Colorado.

The country rock is Pikes Peak granite, a coarse-grained intrusive of Precambrian age. A shear zone striking N. 15° W. and dipping N. 80° E. is exposed near the portal of a new adit and along the sides of old workings, where it has a maximum thickness of at least 20 feet. A quartz vein is present along the east side of the shear zone. It was on this quartz vein that the new adit was driven.

The best sample taken by the applicant is said to have run 0.22 percent WO_3. Samples taken during the examination contained only minor amounts of WO_3.

There is no reason to believe that significant amounts of tungsten ore will be discovered on the property. Therefore, the application is recommended for denial.

ACKNOWLEDGMENTS

The examining team was accompanied by Jack Olofson, a stockholder in the company, and Manas Veeraburus, an I. C. A. geologist.

LOCATION, TOPOGRAPHY, AND CLIMATE

The property consists of a single unpatented claim in the west half of sec. 13, T. 15 S., R. 68 W., 6th P. M., Teller County, Colorado (figs. 1 and 2). The claim is on the south flank of Mount Rosa at an approximate altitude of 10,000 feet. A 1,500-foot access road connects the mine workings with State Highway 122, at a point 19 miles east of Cripple Creek and 19 miles southeast of Colorado Springs. The nearest custom tungsten mill is at Nederland, Colorado, 109 miles to the north.

Snowfall is somewhat heavy during the winter months, but the roads can be kept open.

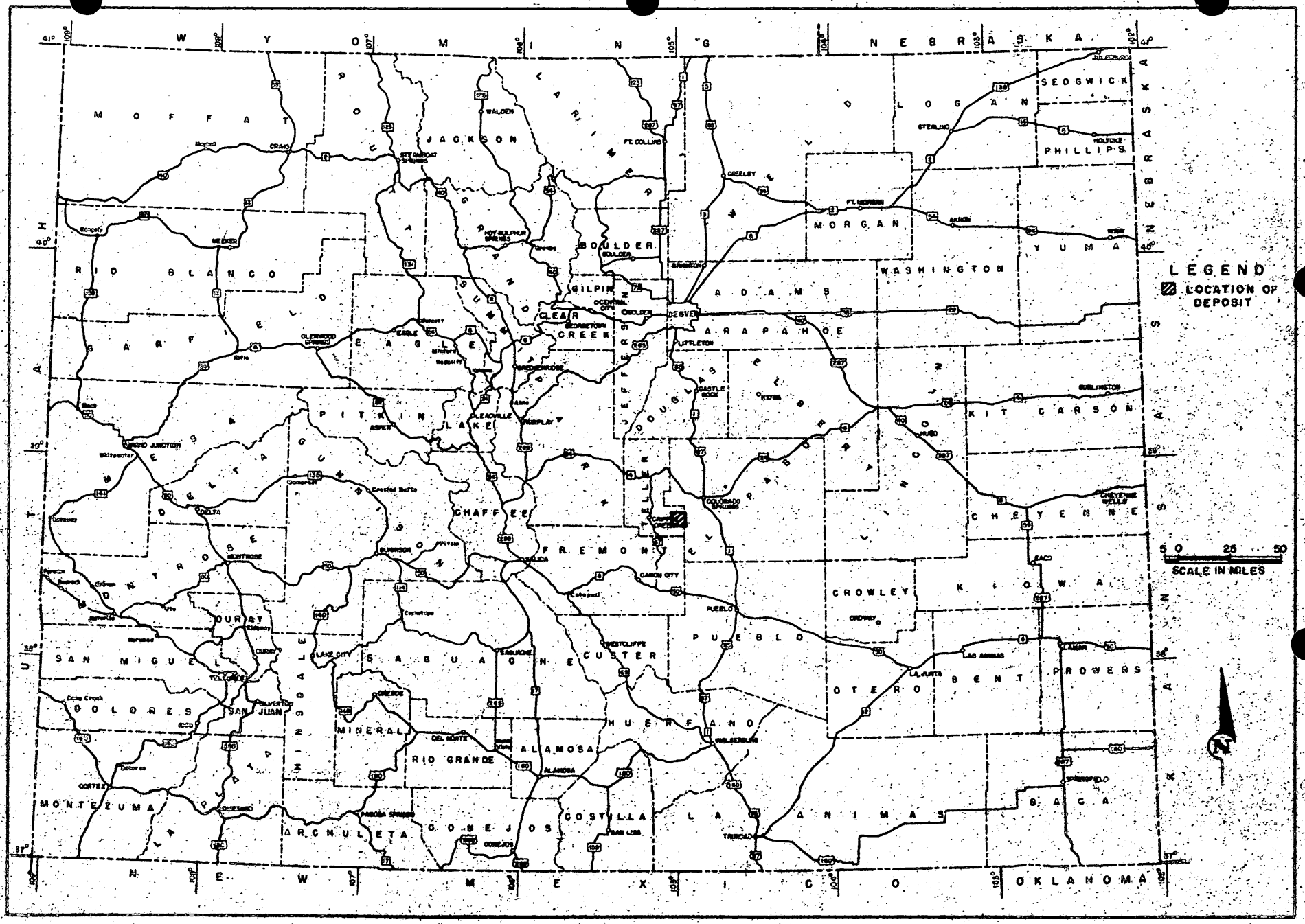


FIGURE 1 - LOCATION MAP, MEAVY STONE LODE, M.B. MINING AND EXPLORATION, INC., TELLER COUNTY, COLO. DMEA 4356

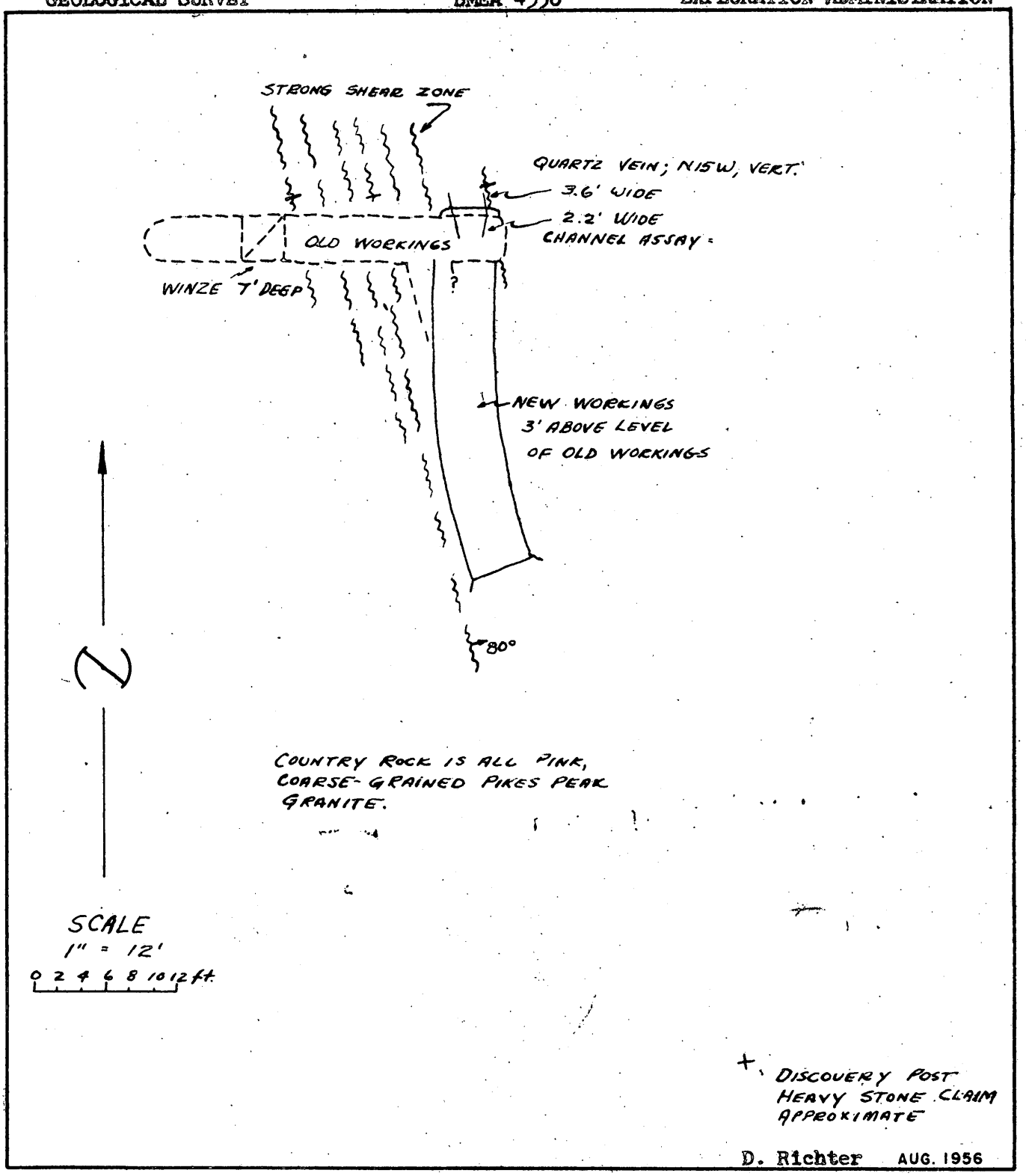


FIGURE 2. GEOLOGIC MAP OF MINE WORKINGS, HEAVY STONE CLAIM, M B MINING AND EXPLORATION INC., TELLER COUNTY, COLORADO. DMEA 4356.

RECEIVED
AUG 31 1979

HISTORY AND PRODUCTION

In 1934 a short adit was driven by a prospector looking for gold. Later some work was done in approximately the same location by L. B. Kimmett, but no claim was recorded. Mark J. Angelo located the ground in 1954. No production of either gold or tungsten has been made.

OWNERSHIP AND EXTENT

The Heavy Stone lode was recorded in the Office of the County Clerk and Recorder of Teller County in Book 239, pages 127 and 128, by Mark J. Angelo on June 11, 1954. An agreement of joint ownership was then made between Mark J. Angelo and L. B. Kimmett. Leases were granted to M B Mining and Exploration, Inc., by L. B. Kimmett for his 51 percent interest in the property on September 9, 1955, and by Mark J. Angelo for his 49 percent interest in the property on May 1, 1956.

PRESENT STATUS

Exploration and development

The property has been partly explored through a 27-foot adit driven northerly, which connects with older workings that were driven in 1934 (fig. 2).

Mining equipment and other facilities

Mining equipment consists of 150 feet of 12-pound track, and about 750 feet of 12-pound rails that are stored near the portal of the adit.

GEOLOGY AND MINERALOGY

The geology of the Heavy Stone claim of M B Mining and Exploration, Inc., is relatively simple. The country rock is Pikes Peak granite, a coarse-grained pink intrusive of Precambrian age. A few tens of feet north of the center of the claim a strong shear zone striking N. 10° to 15° W. and dipping from 80° E. to vertically is present. This shear zone is best exposed near the portal of the new adit and along the sides of the old workings, where it has a maximum thickness of at least 20 feet. Fracture surfaces in the shear zone contain secondary white mica and minor amounts of chlorite.

A quartz vein or pegmatite, ranging in width from 3.5 to 2.2 feet and striking approximately N. 15° W. with a near vertical dip is present along the known east side of the shear zone. The vein is exposed in the north face of the new workings and at the east end of the old workings (fig. 2). The quartz is massive and

coarsely crystalline, varies in color from white to smoky, and is strongly fractured and striated. Thin yellow-brown iron oxide films coat many of the fracture surfaces. Scattered sparingly across the face of the vein are small, 1- to 6-inch, dark nodules of specular hematite, botryoidal wad, limonite, quartz, and possibly wolframite. This same type of mineralization, only more pronounced, is also present in a thin chloritized shear which separates the quartz vein from the granite on the east. Mineralogical studies, consisting of X-ray and physical examinations, of the nodules did not reveal the presence of wolframite. No fluorescence, which could be attributable to scheelite, was detected by ultra-violet light examination of the quartz vein, sheared granite, or selected hand specimens.

A channel sample across the face of the quartz vein exposed in the old workings contained less than 0.01 percent WO_3 and 0.02 percent P. This part of the vein, which measures 2.2 feet wide was, according to the applicant's representative, some of the "highest grade material" in the workings. Furthermore, selected samples of dark mineralized material contained only 0.33 percent WO_3 and 0.44 percent P. Gold in both samples was less than 0.005 ounce per ton.

ORE RESERVES

No known reserves of tungsten are on the property.

PROPOSED EXPLORATION AND COSTS

The applicant's proposed exploration consisted of an unstated amount of drifting and a limited amount of surface bulldozing. The time estimated to complete the project was 4 months. The applicant's estimate of costs follows:

Independent contracts		
Bulldozing 32 hours at $15/hr.	$ 480.00	
Total		$ 480.00
Labor and supervision		
Miner-foreman, 80 days at $25/day	$ 2,000.00	
Miner, 80 days at $20/day	1,600.00	
Helper, 80 days at $15/day	1,200.00	
Engineer-geologist (part time)	500.00	
Total labor and supervision		$ 5,300.00
Operating material and supplies		
Water, fuel, bits, dynamite, caps, and steel (lumped) 80 days at $20/day	$ 1,600.00	
Repairs and maintenance, 80 days at $7/day	560.00	
Total operating material and supplies		$2,160.00

Operating equipment (rental)

Compressor, hose, hammer, air leg, and water tank, 4 months at $300/mo.	$ 1,200.00

Rehabilitation and repairs

None

New buildings, improvements, installations

Compressor and tool house	$ 500.00

Miscellaneous

Analytical work, accounting, workman's compensation, and taxes, 4 months at $125/mo.	$ 500.00

Contingencies

Lumped	$ 1,500.00

Total estimated cost of contract	$11,640.00
Government participation 75 percent, or	$ 8,730.00

At the time of the examination it was ascertained that the bulldozing is for the purpose of replacing the steep access road with a new road. No specified amount of drifting was stated, and later Mr. Biggs said that no definite amount of footage had been considered, just working for 3 or 4 months on what looked best to them.

RECOMMENDATIONS AND CONCLUSIONS

We do not recommend Government participation in this proposed tungsten exploration project for the following reasons:

(1) No visible tungsten mineralization was noted in the quartz vein exposed at the face of the short exploration adit. A channel sample across the vein ran less than 0.01 percent WO_3 and a selected hand sample contained only 0.33 percent WO_3.

(2) The quartz vein is small and there is no evidence to suggest that the vein will widen and/or carry economically significant amounts of tungsten.

For the above reasons it is recommended that the application for DMEA assistance (DMEA Docket 4356) be denied.

Docket

RECEIVED
JUL 12 1956

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

July 10, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

Copy retained 400

To: J. F. Shaw (2) (With brochure)
E. N. Harshman

From: Field Team, Region III

Subject: Docket DMEA 4356 (Tungsten) M B Mining and Exploration, Inc. (Heavy Stone Lode), Teller County, Colorado

Enclosed is the subject application in the amount of $11,640.40.

No definite exploration program is submitted by the Applicant and additional information is needed before a field examination is warranted. In the event that the necessary additional information can be obtained from Mr. Maurice I. Biggs, President, 5365 King Street, Denver 11, Colorado, or Mr. Simon P. Forster, Vice-President, 2833 W. Irvington, Denver, Colorado, a field examination should be made.

Enclosed for your further information is a copy of a letter from the Chairman of the Operating Committee dated July 6, 1956 with attached memoranda of review of the application by E. E. Nelson and R. W. Holliday.

DMEA Field Team, Region III

W. M. TRAVER.

By W. M. Traver
Executive Officer

Enclosures

MMT:ab

cc: Chair. Op. Comm. (2)
Docket 4356
Chron.

Docket

REGION III

Copy retained 400

Building 20
Denver Federal Center
Denver 2, Colorado
July 12, 1956

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4356 (Tungsten) M B Mining and Exploration, Inc. (Heavy Stone Lode) Teller County, Colorado

The application for M. B. Mining and Exploration, Inc., DMEA 4356, in the amount of $11,640.40 was received in this office on July 11.

A field examination will be made and suitable report prepared by an engineer from the Denver Office.

JOHN F. SHAW

John F. Shaw

cc: W. M. Traver (2)
E. M. Barnhart
J. F. Shaw
Sec. Op. Com (2)

400

DOCKET
SURNAME
Hoff
Chapman
Geehan
Kilsgaard
Selfridge

JUL 6 - 1956

M B Mining and Exploration, Inc.
5365 King Street
Denver 11, Colorado

Re: Docket No. DMEA 4356 - Tungsten
Heavy Stone Lode
Teller County, Colorado

Gentlemen:

The above docketed application for exploration assistance for tungsten ores has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and is being referred to Mr. W. M. Trever, Executive Officer, DMEA Field Team, Region III, 224 New Custom House, Denver 2, Colorado, for review and a possible field examination of the property.

The Field Team will contact you and probably request further information. They will then advise you if a field examination is considered necessary, and any assistance you may give them will be appreciated.

Sincerely yours,

G. O. Mittendorf

Administrator

TLChapman/fcc
7/3/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. III
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

DOCKET
SURNAME
Holt
Chapman
Selfridge

400

JUL 6 - 1956

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
22½ New Custom House Building
Denver 2, Colorado

Re: Docket No. DMEA 4356 - Tungsten
M B Mining and Exploration, Inc.
Heavy Stone Lode
Teller County, Colorado

Dear Mr. Traver:

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

As you note in your memorandum of June 22, 1956, no definite program is submitted by the applicant. We believe it would be advisable to contact Mr. Maurice I. Biggs, president, 5365 King Street, Denver 11, Colorado, or Mr. Simon P. Forster, vice-president, 2833 W. Irvington, Denver, Colorado, and if possible obtain sufficient information to justify a field examination.

Copies of memoranda dated June 27 and 28, 1956, by H. E. Nelson, Geological Survey, and R. W. Holliday, Bureau of Mines, respectively, relating to the project are enclosed.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

APPROVED:

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

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

TLChapman/fec 7/3/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. III
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

Enclosures

Docket

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

June 28, 1956

Memorandum

To: W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys

From: R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals & Ferroalloys

Subject: Application
Docket DMEA 4356-$11,640.40 - Tungsten
M B Mining and Exploration Inc.
5365 King Street, Denver 11, Colo.
Heavy Stone Lode
Teller County, Colorado
Mark J. De Angelo, Florence, Colorado

Subject application does not specifically state the nature of work proposed although it apparently would consist of 300 to 400 feet of drift at a cost of $11,640.40

Justification for the proposed exploration apparently consists of a single outcrop which assayed ".22 wolframite."

Additional information is needed for an appraisal and should be obtained either by correspondence or by an examination.

R W Holliday
R. W. Holliday

Copy retained 400

Docket

IN REPLY REFER TO:

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

RECEIVED
JUN 28 1956

June 27, 1956

Re: DMEA 4356
M.B. Mining and
Exploration, Inc.
Heavy Stone Lode
Teller Co., Colo.
$11,640.40 - Tungsten

WSM

Copy retained 450

Memorandum

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

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

Subject: Review of application.

The applicant requests assistance in exploring a mineralized quartz dike or vein from the outcrop of which a sample was taken which assayed 0.22% WO_3. No other particulars, such as width of vein or dike, length exposed, etc., are given.

The work proposed consists of drifting which has been started. No footage is given, except that the work will be done in 80 days.

The scanty information and the grade of the material do not warrant an examination. Perhaps the Field Team can get first hand information from the President of the Company, justifying an examination or a denial.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

Copy retained 450

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

RECEIVED
JUN 25 1956

June 22, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Application for DMEA Aid (Tungsten), M B Mining and Exploration, Inc. (Heavy Stone Lode), Teller County, Colorado

Enclosed are three copies of the subject application in the amount of $11,640.40.

The Applicant has submitted no definite program of exploration, and the application is inadequate.

One copy of the application is being retained in our file.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

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

June 22, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Application for DMEA Aid (Tungsten), M B Mining and Exploration, Inc. (Heavy Stone Lode), Teller County, Colorado

Enclosed are three copies of the subject application in the amount of $11,640.40.

The Applicant has submitted no definite program of exploration, and the application is inadequate.

One copy of the application is being retained in our file.

DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

Enclosures

June 26, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

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 III.

DMEA - 4356 M B Mining and Exploration Inc.

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

June 26, 1956

M B Mining and Exploration, Inc.
5365 King Street
Denver 11, Colorado

Subject: DMEA 4356
Re: Exploration Assistance
Heavy Stone Lode

Gentlemen

The receipt of your application dated June 20, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 4356 and referred to the Iron & Ferro-Alloy 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

MF-103
(Revised April 1955)

DMEA
Date Rec'd
JUN 21 1956
BUREAU OF MINES
Denver, Colorado

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUN 25 1956

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. 4356
Metal or Mineral Tungsten
Date Received 6/25/56
Estimated Cost $11,640.40
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: .....

(*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 .....

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

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

(*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 .....

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

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 .....

(*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 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.).

(*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 JUN 20 1956, 195...

MB Mining & Exploration Inc.
(Applicant)

By Maurice J. Biggs

Simon P. Forster

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

Application for aid in an Exploration project, pursuant to DMEA order 1, under the Defense production act of 1950, as amended.

RECEIVED
JUN 25 1956
DMEA
Date Rec'd.
JUN 21 1956
BUREAU OF MINES
Denver, Colorado

1. M B Mining and Exploration Inc. Pres. Maurice I. Biggs
5365 King St. 5365 King St.
Denver 11, Colo. Denver 11, Colo.

Vice Pres. Simon P. Forster Sec. Le Roy Failor
2833 W. Irvington 4494 Stuart
Denver, Colo. Denver, Colo.

3. Legal description attached

(b) Heavy Stone Lode
(c) Purchaser & Lessee
(d) See attached documents
(e) Pages 127 & 128 of book 239

4. (a) Drift started with rail and car in place. Said work done by interested parties. All weather road to portal.
(b) None
(c) Nearly vertical mineralized quartz dike or vein striking NW*SE in the Pikes Peak Granite. Reason for exploration. Quartz dike or vein out crop assayed .22 Wolframite.
(d) Situated equally between Colo. Springs and Cripple Creek. On the Gold Camp Road.
(e) All available.

5. (a) Tungstun.
(b) See 4.(c)
(c) Thirty days.--Six months.
(d) Corp. has experienced personnel.

6. (a) Bulldozer operations, 32 hrs. @ $15.00per hr. 480.00
(b) Miner foreman @ $25.00 per day
Miner @ 20.00 " "
Helper @ 15.00 " "
80 days or 4 months 4800.00
Engineering & Geological consulting 500.00
(c) Water, fuel, bits, dynamite, caps and steel.
$20 per day-80days or 4 months 1600.00
(d) Compressor, hose hammer air leg & water tank
$300.00 per month for 4 months 1200.00
(e) None
(f) Compressor and tool house 500.00
(g) Repairs and maintaince-$7.00per day for 80 days 560.00
Analytical work , accounting, workmans comp, insurance and taxes.$125.00 per month for 4 months 500.00
(h) 1500.00
$11640.40

September 9, 1955

Mr. L. B. Kimmett
5198 Sherman St.
Denver, Colorado

Dear Mr. Kimmett:

As per our conversation of September 7, 1955 I understand you own 51% of the Heavy Stone Lode, claim. Situated in Sec. 13, T15S, R68W, Teller County, Colorado. The remaining 49% of this claim is owned by Mark J. De Angelo of Florence, Colorado.

I hereby agree to purchase your 51% of the Heavy Stone Lode claim for one dollar in cash and the sum of $100,000.00 (one hundred thousand-dollars)to be paid to you only out of 5%of the net value of mint, mill or smelter receipts received by me for ore mined from the Heavy Stone Lode claim, I also agree to be responsible for 51% of the assessment work on the claim during my ownership. Should I fail to actively operate my share of the claim within one year of the date of this agreement I shall return title of the 51% of the claim to you. If this agreement meets with your approval sign the attached copy as accepted and return to me. This agreement is fully assignable and binding on heirs and assignees of both parties.

168195

Accepted L. B. Kimmett
Mr. L. B. Kimmett Date

Witnesses:

Sworn to this 9th day of Sept. 1955

Maurice I. Biggs
Mr. Maurice I. Biggs

My Commission Expires May 5, 1959

Paul B. Bruno
Notary

168195

Kimmett

Biggs

STATE OF COLORADO }
COUNTY OF TELLER }

I hereby certify that this instrument was filed for record in my office at 9:44 o'clock A M Sept 10 1955 and duly recorded in Book 270 Page 257

RUTH THOMAS, Recorder

By M.O. Deputy

1.25

Filed for record the.....day of....., A. D. 19....., at.....o'clock.....M.

Reception No.....

.....RECORDER

(THIS MAP MUST BE ATTACHED TO LOCATION CERTIFICATE)

MAP OF HEAVY STONE LODE

attached to and hereby made a part of the Location Certificate, which map is prepared from an actual field survey of said Lode Claim.

1. Name and Address of Discoverer of Claim:

   Name.....

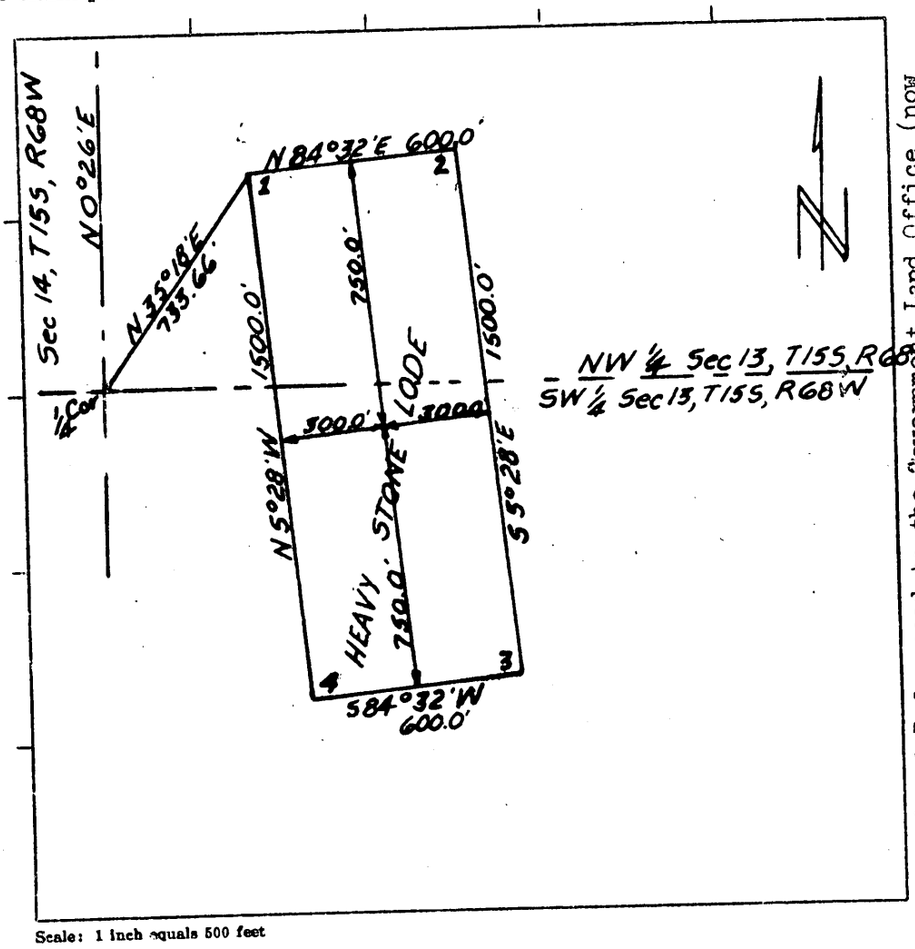
   Address.....

   .....

2. Legal Subdivision of the land upon which the claim is located, if such land is surveyed:

   NW¼ SW Quarters of Section 13, Township 15 South, Range 68 West of the 6th P.M. Meridian, in the County of Teller, State of Colorado.

3. The claim pattern with courses and distances of the boundary lines is as follows:



Scale: 1 inch equals 500 feet

Surveyed and Referenced to the Government Land Office (now (Bureau of Land Management) dependent resurvey and extension survey of A.D. 1910, under my supervision

Warren R. Harriage, Registered Land Surveyor 1752

Dated at....., Colorado, this.....day of

....., 19.....

.....(SEAL)

.....(SEAL)

.....(SEAL)

.....(SEAL)

.....(SEAL)

.....(SEAL)

LOCATOR.....

(THE CLAIM PATTERN MUST REFER TO THE NEAREST SECTION OR QUARTER SECTION CORNER OF PUBLIC LAND SURVEY, IF SURVEYED, OR TO A PERMANENT MONUMENT, IF NOT SURVEYED, BY WHICH THE CLAIM ON THE GROUND CAN BE READILY AND ACCURATELY ASCERTAINED.)

92-22-6A—Colorado Revised Statutes, 1953

MINING LEASE

MINING LEASE made by MARK JERRY DeANGELO, also known as MARK J. DeANGELO, hereinafter called "Lessor"; and MAURICE I. BIGGS, hereinafter called "Lessee".

Whereas said Lessor is the owner of an undivided 49% of the Heavy Stone Lode Mining Claim, an unpatented mining claim located in Teller County, Colorado, as shown by the location certificates recorded in Book 239 at Pages 127 and 128, of the records in the office of the County Clerk and Recorder of Teller County, Colorado, and as may be shown by any other amended location certificates which may be filed with said County Clerk and Recorder; and whereas Lessee is the owner of the other 51% of said claim, and desires to lease the said interest of Lessor; therefore

LESSOR HEREBY GRANTS AND LEASES TO LESSEE, Lessor's undivided 49% interest in and to said mining claim, for the purpose of prospecting and exploring for and mining all minerals of whatsoever nature in, upon and under said claim and to which Lessor may be entitled by virtue of said claim.

This is a mining lease and not a mineral deed, option or license; and the consideration therefor is the royalties, covenants and agreements provided for in this lease.

This lease shall be for a term of five years from the date hereof, and as long thereafter as Lessee is producing minerals in paying quantities from said claim; subject, however, to being terminated under the provisions of this lease.

LESSEE COVENANTS AND AGREES AS FOLLOWS:

To pay or cause to be paid to the Lessor the following royalty: 5% of the assay value at the mill of all of the minerals in all the ores taken from the said mining claim including Lessee's 51% thereof, with no deduction for transportation or other expenses. In addition, Lessee shall pay to Lessor 5% of any and all bonuses, premiums and allowances paid by the government, state or federal, or any agency thereof, on or by virtue of all ores taken from said property or the mining discoveries or development thereon. Provided, however, that Lessee shall be entitled to and shall have all of the allowances for haulage. Lessee shall direct the purchasers, governments, or agencies to make payment of his 5% royalty or share directly to Lessor addressed to him at the hereinafter provided for address for the giving of notices.

To fulfill for and in behalf of Lessor the obligations of annual assessment work on said mining claim not later than May 1st of each year hereafter, and on or before such date of each year, furnish to Lessor the recorded annual affidavit of value of labor and improvements required by law; and to do all other things required by law to keep said claim in good standing and so that said claim may be patented within a reasonable time if such is reasonably justified from the standpoint of the minerals contained in the ores from said claim and if such is desired by the Lessor. For the current year, Lessee shall complete such assessment work and furnish such affidavit to Lessor on or before June 20, 1956, and if such is not done Lessor may enter and perform such work at the expense of Lessee.

Regardless of the payment of the minimum royalties aforesaid, to diligently prospect, explore, work, mine and develop said mining property as a unit in accordance with the best mining practices and techniques, and in a manner necessary to good and economical mining, with due regard to the development and preservation of all workable mines, and without limiting the generality of the foregoing, to work said mining property not less than ten man-days per month. If ore is found in commercial quantities and temporary market conditions do not warrant mining production, then Lessee shall not be required to work said mine as aforesaid, provided, anything to the contrary notwithstanding, Lessee shall not cease mining operations for more than one year at a time, and provided further that Lessee shall at all times perform the annual assessment work as provided for above.

To not assign this lease or sublet said claim or any part thereof without the prior written approval of Lessor, provided Lessor shall not unreasonably withhold such approval.

To comply at all times with the workmen's compensation and industrial disease laws of Colorado, and a failure of Lessee at any time to so comply shall automatically terminate this lease at the election of Lessor.

To allow the Lessor or the authorized agent or agents of the Lessor to enter upon the lands or any part thereof at any time, for the purpose of making surveys, taking samples, and inspecting the workings of the Lessee, and to permit Lessor to go upon said lands to prospect and explore for undiscovered minerals provided such is done so as not to interfere with the operations of Lessee and provided any new discoveries shall be subject to this lease.

To pay all taxes which may be assessed against said mine and against the mining fixtures, equipment, machinery and property owned by Lessee, and all taxes resulting from the mining operations on said lands.

To obtain all necessary licenses and in every manner comply with all regulations and rules of the Atomic Energy Commission, and all laws, rules and regulations of the United States, the State of Colorado, and of all departments, bureaus and agencies of said United States and State of Colorado.

To post any and all notices and to do any and all things necessary to prevent any liens from arising on said mine by virtue of the mining operations of Lessee and to protect Lessor against any and all liability which might arise from negligence, and to indemnify and save harmless Lessor from any and all such liability and damages.

To execute, acknowledge and deliver to Lessor any and all necessary releases or other instruments of writing to show the above described mine free and clear of this lease, which may be requested by Lessor, in event of abandonment or expiration of this lease.

To make quarterly sworn reports to Lessor setting forth in detail all activities on such claim and all production from such claim during such quarter; and to permit Lessor to inspect any and all books and records of Lessee pertaining to said claim.

To keep accurate logs and records of all drill work on said claim and to currently furnish copies of the same to Lessor.

It is agreed that Lessee may terminate this lease at anytime upon giving Lessor thirty days prior written notice of intention to do so; provided that if the lease is terminated on or after January 1st of any year, the Lessee shall be obligated to do the assessment work for such year and furnish Lessor evidence thereof as above provided.

It is agreed that Lessor may at his option terminate this lease upon the failure of Lessee to cure any default or violation on the part of Lessee of any covenant or agreement of this lease within thirty days after notice in writing of such violation has been given Lessee by Lessor.

Any written notices provided for herein shall be sent by registered mail, return receipt requested, and addressed as follows:

To Lessor: Mark J. DeAngelo
531 West Main Street
Florence, Colorado

To Lessee: Maurice I. Biggs
5365 King Street
Denver, Colorado

Either the Lessor or Lessee may change the name or address for notice to him, respectively, by written notice to the other party. Notices shall be effective when delivered.

This is not a partnership agreement but is solely a mining lease.

The benefits and obligations of this lease shall extend to, and be binding upon the heirs, executors, administrators, successors and assigns of the respective parties hereto.

Lessee shall have the right to remove any of his machinery or equipment on the termination or expiration of this lease, provided, however, any improvements or work of a permanent nature shall remain on the said mining claim except by mutual agreement otherwise.

Regardless of where this lease may be executed it shall be construed and enforced according to the laws of the State of Colorado.

EXECUTED in duplicate this 1st day of May 1950.

Mark Jerry DeAngelo
Lessor

Lessee

STATE OF COLORADO)
) ss.
County of _____)

The foregoing instrument was acknowledged before me this _____ day of May 1956, by Maurice I. Biggs.

Witness my hand and official seal.

My Notarial commission expires _____

_____
Notary Public

STATE OF FLORIDA)
) ss.
County of Santa Rosa)

The foregoing instrument was acknowledged before me this 29 day of May 1956, by Mark Jerry DeAngelo, also known as Mark J. DeAngelo.

Witness my hand and official seal

My notarial commission expires _____

Ben Henry Pooley Clerk cr cc
~~Notary Public~~
By Edna Moneyboy D. C.