DMA Form 1

DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 3757

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Exploration

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August 2, 1955

Deny

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance to the amount of $5,000.00
Docket No. DMEA 3757 - Tungsten
Douglas M. Murphy
Sager-Murphy claims
Deer Lodge County, Montana

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

1. The applicant, Douglas M. Murphy, 1627 South 11th Street, Missoula, Montana, requested exploration assistance to the amount of $5,000.00 for bulldozer stripping, diamond drilling or drifting and crosscutting.

2. The applicant is owner of the following mining claims by right of location:

   The Sager-Murphy-Silver Star No's 1, 2, 3, 4 and 5 claims in Section 1, T. 5, N., R. 12, W., M.P.M. Deer Lodge County, Montana, recorded in Book 23, Pages 205 to 214 inclusive in the County Court House.

3. The proposed program is to explore small quartz stringers and veins in limestones and shaly limestones. Some large bedding faults have occurred in these limestones and shaly limestones. The quartz stringers and veins show occasional crystals of scheelite, but as a whole are barren.

4. On Silver Star No. 1 and No. 2 claims, a crosscut adit 250 feet in length with about 100 feet of drifting has been driven. Very little mineralization was found.

5. The Field Team concludes that there is little probability of making a significant discovery and recommends denial.

The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in the recommendations.

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

TLCHAPMAN:foc
8-2-55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.

400

AUG 1 0 1955

Mr. Douglas M. Murphy
1627 South 11th Street
Missoula, Montana

Re: Docket No. DMEA 3757 - Tungsten
Sager-Murphy claims
Deer Lodge County, Montana

Dear Mr. Murphy:

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

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, 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 all our information indicates to us that, although some scattered tungsten mineralization is found in quartz stringers, the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, therefore, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

TLChapman:fec
8-1-55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG.I - NW Dist.
Messrs. Holliday, USBM
Kiilsgaard, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D.C.
No. 157 Howard Street
Spokane 4, Washington

402

RECEIVED
JUL 10 1955

July 5, 1955

Mr. George T. Welfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

WSM

Re: Docket No. DMEA-3757 (tungsten)
Yager-Murphy claims
Deer Lodge County, Montana

Dear Mr. Welfridge:

Enclosed are four copies of a memorandum by J. J. Quinlan, Geological Survey, recommending denial of the application by Mr. Douglas K. Murphy.

The quartz stringers which are the objective of the exploration lack continuity and contain but little tungsten. Consequently, we are in accord with Quinlan's conclusion that there seems to be no exploration target, and we concur with his recommendation for denial.

By Field Team, Region I
Northwest District

A. T. Weissenborn, Exec. Officer
U. S. Geological Survey

Ving C. Agnew, Member
U. S. Bureau of Mines

Enclosure

cc: J.DM (2)
J OM (2)
Quinlan

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
[illegible] 127 [illegible] Street
[illegible], Washington

RECEIVED
JUL 18 1955

July 5, 1955

Memorandum

To: [illegible] Field Area, Region 2, Northwest District

From: James [illegible] Quinlan, Geologist, U. S. Geological Survey

Subject: Project No. [illegible] (Surveyed), Field Examination Report, Douglas H. Murphy, Ayer Murphy claims, Ravalli County, Montana

Introduction

The Ayer Murphy property was examined June 3, 1955. Mr. Douglas H. Murphy, the applicant, assisted during the examination.

Recommendation

It is recommended that Mr. Murphy's application for exploration assistance be denied, because the scheelite showings in the area he wishes to explore are insignificant.

Applicant

The applicant is Mr. Douglas H. Murphy, 1427 South 11th Street, Missoula, Montana.

Mr. Murphy has worked for the U. S. Bureau of Public Roads as an Engineering Aid for 20 of the last 21 years. He has had little mining experience outside of a year's work, 1948-1949, on a small prospect in Arizona. He had an interest in this prospect and quit his job with the Bureau of Public Roads for a year to work on the prospect.

Location

The Ayer Murphy property is in sec. 1, T. [illegible], R. 12 [illegible], Ravalli County, Montana. It is about 12 miles west of Stevensville, Montana, and lies along the ridge separating Sam Orphan and Foster Creeks. The altitude in the vicinity of the principal workings is about 6,300 feet.

To reach the property from Anaconda, the nearest point of supply, one follows U. S. Highway 10A 11 miles west to Warm Springs Creek, thence 3 miles north on the county road up Warm Springs Creek to McCoy's ranch, thence 1-3/4 miles in an easterly direction over a jeep road to the principal workings on the property.

The principal workings on the Sager-Murphy property are about 2,500 feet northwest of the open pit on the neighboring Tip Top property. The claim map accompanying the application shows the relation of the Sager-Murphy claim to the neighboring Tip Top and New Deal claims which are the principal claims of the Tip Top property.

Property

The property consists of 10 unpatented quartz lode mining claims, the Sager-Murphy Silver Star No. 1- No. 10 claims (claim map accompanies application). Although 10 claims have been located, only the Sager-Murphy Silver Star No. 1 - No. 5 claims have been recorded. These five claims are reported by the applicant to be recorded in the Deer Lodge County Records of unpatented quartz lode claims in Book 25 on pages 213 and 214.

The claims are jointly owned by Mr. Murphy and Mr. Sager of Missoula, Montana.

Workings

The principal workings on the property are on the Sager-Murphy Silver Star No. 1 and No. 2 claims. These workings consist of an adit 150 feet in length, a shaft 40 feet deep, and numerous pits and trenches. The adit was driven on bearing N. 37° W., 200 feet in order to cut the downward extension of a zone of quartz stringers exposed in a pit (herein called the main pit) 125 feet northwest and 80 feet higher than the adit portal. Two drifts, respectively, 160 and 230 feet from the portal, follow bedding structures about 75 feet northwest from the adit crosscut. In addition there is a 30-foot stub crosscut to the northwest from the end of the drift 230 feet from the portal.

There is also an adit 150 feet in length on the Sager-Murphy Silver Star No. 5 claim.

Geology

The Sager-Murphy property is within the Philipsburg quadrangle. The geology of this quadrangle has been described by W. H. Emmons and F. C. Calkins in U. S. Geol. Survey Prof. Paper 78,

Geology and Ore Deposits of the Philipsburg Quadrangle, Montana. The geologic map of the quadrangle (scale 1" = 2 miles) accompanying this professional paper shows the geology in the area of the applicant's property.

The property is principally underlain by sedimentary rocks belonging to the following formations: Red Lion (Cambrian), Maywood (Silurian), and Jefferson limestone (Devonian). The area is cut by numerous faults and the structure is rather complex.

The area in the vicinity of the principal workings is underlain by limestones, shaly limestones, and shales. These rocks appear to be a part of the rather broad transition zone which separates the distinctive Maywood and Jefferson formations. Within the adit the limestones and shaly limestones strike about N. 20° E. and dip 48 - 87° SE. A large bedding plane fault, 1 to 1.5 feet of gouge, is exposed in the adit about 160 feet from the portal. A drift follows this fault 55 feet northeast from where cut in the adit crosscut. The drift at the end of the adit crosscut also follows bedding shearing 55 feet to the northeast.

Most of the pits and shallow shafts in the area of the principal workings prospect thin quartz stringers. The best exposure of quartz stringers is in a pit, 125 feet northwest and 80 feet higher than the adit portal, and it is evident that the adit was driven in order to cut these quartz stringers at depth. The quartz stringers exposed in the pit appear to follow fracture cleavage in massive limestone beds. The quartz stringers strike N. 45° E. and dip 45° NW; the beds strike N. 20° E. and dip 60° - 65° SE. About 20 individual stringers are exposed in the wall of the pit in a 20-foot wide (true thickness) zone. Similar, but not nearly as numerous, quartz stringers are poorly exposed in outcrops and pits for at least another 40 or 50 feet in the hanging wall of the 20-foot wide zone. Individual stringers within the 20-foot wide zone range in width from a fraction of an inch to 5 inches and the total thickness of quartz within the zone would be about 25 inches. The zone of stringers exposed in the main pit can be traced in shallow trenches for about 160 feet north of the main pit.

Although several thin quartz stringers are exposed in the adit 80 feet below the main pit, no zone of stringers resembling that exposed in the main pit is exposed in the adit. If the zone of stringers is projected from the pit to the adit level on a 45° dip (dip of stringer in main pit), the zone should have been cut about 25 feet back of the crosscut face. If, however, the zone of stringers flattened in dip to 35° the projected position of the adit level would be immediately ahead of the crosscut.

face. However, the possibility also exists that the zone of stringers is offset or cut out by the large bedding fault exposed 100 feet from the portal. One other possibility would be that the zone of stringers is only well developed in the more massive limestone bed as is the case in the main pit; whereas the beds near the face of the adit are thinner and contain thin siliceous laminae.

In any event, the quartz stringers are essentially barren and of no economic interest. Longing showed only a few scattered grains of scheelite in several of the quartz stringers exposed in the main pit. A few grains were also noted in the dump of a small pit southwest of the main pit. Two or three small crystals of scheelite were also noted in association with the thin quartz stringers in the adit. Although the entire area in the vicinity of the principal workings, a mile of road on the claims leading to the area of principal workings, and the area in the vicinity of the adit on the Hagen-Murphy Silver Star No. 5 claim was longed, the only scheelite seen was the few grains previously described as occurring in the area of the principal workings. There are a few specks of wolframite in some of the quartz veinlets.

Applicant's proposal

The applicant's proposal is rather indefinite. Initially he proposed to strip a large area in the vicinity of the principal workings and to the north along the Porter Creek-Upper Springs Creek ridge in the hopes of uncovering scheelite ore. He estimates that this phase of the work will require 75 hours of bulldozing at a cost of $1,000. If this initial work is successful he proposes to spend an additional $4,000 on additional dozing, diamond drilling, or underground exploration.

Evaluation of applicant's proposal and conclusion

The scheelite showings in the area of the applicant's proposed exploration are completely insignificant and do not merit testing, even by the limited program proposed by the applicant.

Distribution:
- [illegible] (4)
- [illegible] (2)
- [illegible] (Sho)
- [illegible]
- [illegible]

IN REPLY REFER TO:

400

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

July 27, 1955

Re: DMEA 3757
Douglas Murphy
Sager-Murphy Claims
Deer Lodge Co., Mont.
Tungsten

Memorandum

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

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

Subject: Review of Field Examiner's report

A thorough examination with a lamp appears to have been made and very little scheelite found. In view of such results, the conclusions of the examiner are justified.

I concur with the recommendation of denial of the Field Team.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-7/27/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. Holliday, 3513

RECEIVED
JUL 28 1955

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

Department of the Interior
Defense Minerals Administration
RECEIVED
MAY 31 1955

So. 137 Howard Street
Spokane 4, Washington

Copy retained 400

May 27, 1955

Special Delivery

Mr. Douglas M. Murphy
1627 So. 11th Street
Missoula, Montana

3757

Re: Docket No. DMEA-3557 (tungsten)
Sager-Murphy claims
Deer Lodge County, Montana

Dear Mr. Murphy:

Thank you for your letter of May 23. James J. Quinlan is in Montana and expects to examine your property the latter part of next week. A copy of your letter has been sent to him, so he will be getting in touch with you.

In the event you wish to contact him, however, he plans to stay in Helena, Montana, at the Main Motel Tuesday night. This weekend he is in Butte, Montana, at Eddy's Motel.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

cc: DMEA (2)
USBM (2)
Quinlan

RECEIVED
MAY 25 1955
U. S. G. S.
SPOKANE, WASH.

May 23, 1955

Mr. A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District
Spokane, Washington

Re: Docket No. DMEA-3557 (tungsten)
Sager-Murphy Claims
Deer Lodge County, Montana

Dear Mr. Weissenborn,

Yesterday, I made a trip to the above named mining claims to look at snow conditions. There are large areas of bare ground, interspersed with snowdrifts up to 2' in depth; it was necessary to walk the last mile to the property. However, the snow is melting rapidly. I would say that snow will not be gone by the end of May, but almost certainly will be gone by the weekend of June 4th.

I noticed again the association of bornite, azurite, malachite and galena with the quartz and scheelite in much the same way as at the claims 1/2 mile southeasterly, which are being worked by J. W. Abbott. Although the amount of scheelite exposed is small, and is apparently in a ~~discontinuous~~ discontinuous quartz stringer, it may be a valuable indication and I would very much like to have your evaluation of it.

It happens that I will have June ~~4,5~~ 3, 4 and 5 and ~~6~~ free (Fri., Sat., and Sun.) If this should be agreeable to you, we could make the field examination at that time. If not, please let me know a time suitable to you and I will do my best to make it. Normally, I have only Saturdays and Sundays free, but I can probably arrange to get a Friday or a Monday off with almost any weekend.

The trip to the property is not difficult. Yesterday, I left Missoula at 7:30 AM, visited these claims and also Abbott's and returned to Missoula at 5:30 PM. From Anaconda, we could drive by jeep to the claims in 30 to 40 minutes. If agreeable to you, I would suggest that we meet at the Montana Hotel in Anaconda as early in the morning of Fri., June 3 as is suitable to you, or later in the day, depending upon how much time you anticipate spending at the property, or similarly on June 4 or June 5. I can bring my old jeep, which I am quite sure will make the trip, unless you have a better one available in the area.

I am glad to have your letter of May 3 and the explanation of your procedure. I did become far too enthusiastic about an early start in the spring, as the weather has turned out to be quite bad until recently.

Please advise me as to the time most agreeable to you and I will plan accordingly.

Sincerely yours,
Douglas M. Murphy
Douglas M. Murphy
1627 So. 11th St., Missoula, Mont.

Mr. Weissenborn,
I am working on a highway project at Olney, Montana, returning to Missoula each weekend. My address continues the same: 1627 So. 11th St., Missoula. Mail reaching Missoula on Mondays or Tuesdays is forwarded to me at box 107, Olney, Montana; mail arriving in Missoula on Wed., Thurs., Fri. is kept for me in Missoula. The Olney address would work out best, perhaps, for all but end-of-week mail.

DEPARTMENT OF THE INTERIOR:
Defense Minerals Administration
RECEIVED
MAY 31 1955

400

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

May 4, 1955

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Copy retained 400

Re: Docket No. DMEA-3757 (tungsten)
Douglas M. Murphy
Sager-Murphy group of claims
Deer Lodge County, Montana

Dear Mr. Selfridge:

With reference to your letter of April 14, 1955, the field examination of the Sager-Murphy property has been delayed because of the exceptionally late spring.

We will schedule an examination as soon as weather permits.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

cc: USBM (2)
Quinlan

400

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

May 3, 1955

Mr. Douglas M. Murphy
1627 South 11th Street
Missoula, Montana

WSM

Re: Docket No. DMEA-3557 (tungsten)
Sager-Murphy Claims
Deer Lodge County, Montana

Dear Mr. Murphy:

This will acknowledge your letter of April 18, 1955, regarding your application for DMEA assistance.

We wish to thank you for advising us as to the snow conditions at the property, and will await word from you as to when the snow is gone before scheduling a field examination.

Your letter leads us to believe that you may be misinformed as to the actual operating procedure of this administration. We fully understand your enthusiasm and your desire to start work as soon as possible, but we must inform you that even if an application is in order and it is given favorable consideration there is usually a month to six weeks delay between the time a field examination is made and the time a contract authorizing the work is signed. The reason for this delay is that contracts are prepared in Washington, D. C., and the results of the field examination have to be available before a contract is written. This administration cannot participate in the cost of any work done between the time of the field examination and the date of the contract.

The questions you have raised regarding supervision of proposed project work can best be settled at the time of the field examination. We wish, however, to inform you that this organization cannot furnish direct supervision to any project, but can only advise on the course of the work during routine inspections, which normally do not take place more often than once a month.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

cc: DMEA (2) w/cys incoming
USBM (2) "
Quinlan " "

4/18/55

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region I, Northwest District
South 157 Howard Street
Spokane, Washington

Dear Mr. Weissenborn:

I have today received a letter from Mr. C. O. Mittendorf, Administrator, stating that my docket No. 3557-Tungsten, has been referred to you for a field examination of the property.

Yesterday, (Sunday) I talked with Mr. J. W. Abbott who is presently working the tungsten property ½ mile southeasterly from my property. He advises that snow is approx. 3' deep on the level of the flat between our properties and is lying in deep, overhanging drifts on the ridge-top at my property. We have, unfortunately, had exceptionally heavy snows recently and I am afraid that my objective of beginning work by May 1 will not be too feasible. Nor would such snow conditions be favorable for a field examination. The winze, north from the tunnel, would be full of snow as well as the numerous small open cuts.

However, I can keep track of snow conditions there, and will advise you when snow is gone.

Meanwhile, I have tentatively lined up a D-6 dozer in good condition, owned and operated by a good man, at $9.00 per hour.

My situation, briefly, is this: I am employed by the U. S. Bureau of Public Roads as Eng'r. Aid, with 20+ years experience. However, my main interest is mining, and I would very much like to prove or disprove this tungsten property, as coarse scheelite of very good quality is there.

My plan was to get two weeks off from my work in early May for doing this exploration work. It now appears that snow will delay us until the last half of May or later. By that time, due to our commitments to highway contracts, I may be unable to spend full time supervising the mine exploration work as I had hoped to do. But I would be there on week-ends, possibly some more than that, and I have a couple of plans in mind, which we could discuss, for providing supervision and inspection of the dozer cuts. Or it would be more than satisfactory to me if your organization could provide this supervision, with my assistance whenever and as much of the time as I could be there.

Please let me know if I can be of any assistance whatever.

Sincerely yours,

/s/ Douglas M. Murphy

C
O
P
Y

Douglas M. Murphy
1627 So. 11th St.,
Missoula, Montana

APR 1 4 1955

Mr. A. E. Weissenburn, Executive Officer
DMEA Field Team, Region I - Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 3757 - Tungsten
Douglas M. Murphy
Sagar-Murphy group of claims
Deer Lodge County, Montana

Dear Mr. Weissenburn:

Reference is made to the subject docket and your letter of March 31, 1955, which states that a field examination of the property will be made as soon as the weather permits and a man is in the vicinity, probably in late April.

We will, therefore, hold this application in abeyance until the report and recommendations by the Field Team are received.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

FARutledge:fcc 4-7-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. I - NWD
Messrs. Holliday, USBM
Kiilsgaard, USGS

400

APR 14 1955

Mr. Douglas M. Murphy
1627 South 11th Street
Missoula, Montana

Re: Docket No. DMEA 3757 - Tungsten
Sager-Murphy group of claims
Deer Lodge County, Montana

Dear Mr. Murphy:

The above-docketed application for exploration assistance for tungsten has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region I, Northwest District, South 157 Howard Street, Spokane 4, Washington, for a field examination of the property.

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

Sincerely yours,

G. O. Mittendorf

Administrator

FARutledge:fcc
4-7-55
cc to: Docket
Code 400
Adm. Reading File
FT. REG. I - NWD
Messrs. Holliday, USBM
Kiilsgaard, USGS

DOCKET
SURNAME

400
Chapman
Martin
Holliday
Kelsor
Kiilsgaard
Gechan
Hoffman

AUG 1 0 1955

Mr. Douglas M. Murphy
1627 South 11th Street
Missoula, Montana

Re: Docket No. DMEA 3757 - Tungsten
Sagar-Murphy claims
Deer Lodge County, Montana

Dear Mr. Murphy:

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

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, 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 all our information indicates to us that, although some scattered tungsten mineralization is found in quartz stringers, the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, therefore, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

TLChapman:foc
8-1-55
cc to: Docket
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Adm. Read. File
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FT. REG.I - NW Dist.
Messrs. Holliday, USBM
Kiilsgaard, USGS

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

August 2, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance to the amount of $5,000.00
Docket No. DMEA 3757 - Tungsten
Douglas M. Murphy
Sager-Murphy claims
Deer Lodge County, Montana

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

1. The applicant, Douglas M. Murphy, 1627 South 11th Street, Missoula, Montana, requested exploration assistance to the amount of $5,000.00 for bulldozer stripping, diamond drilling or drifting and crosscutting.

2. The applicant is owner of the following mining claims by right of location:

   The Sager-Murphy-Silver Star No's 1, 2, 3, 4 and 5 claims in Section 1, T. 5, N., R. 12, W., M.P.M. Deer Lodge County, Montana, recorded in Book 23, Pages 205 to 214 inclusive in the County Court House.

3. The proposed program is to explore small quartz stringers and veins in limestones and shaly limestones. Some large bedding faults have occurred in these limestones and shaly limestones. The quartz stringers and veins show occasional crystals of scheelite, but as a whole are barren.

4. On Silver Star No. 1 and No. 2 claims, a crosscut adit 250 feet in length with about 100 feet of drifting has been driven. Very little mineralization was found.

5. The Field Team concludes that there is little probability of making a significant discovery and recommends denial.

The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in the recommendations.

W S Martin

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

DOCKET
SURNAME
Chapman
Martin
Holliday
Nelson

August 2, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance to the amount of $5,000.00
Docket No. DMEA 3757 - Tungsten
Douglas M. Murphy
Sager-Murphy claims
Deer Lodge County, Montana

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5. The Field Team concludes that there is little probability of making a significant discovery and recommends denial.

The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in the recommendations.

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

TLCHAPMAN:foc
8-2-55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.

IN REPLY REFER TO:

Docket

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

July 27, 1955

Re: DMEA 3757
Douglas Murphy
Sager-Murphy Claims
Deer Lodge Co., Mont.
Tungsten

Memorandum

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

WSM

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

Subject: Review of Field Examiner's report

A thorough examination with a lamp appears to have been made and very little scheelite found. In view of such results, the conclusions of the examiner are justified.

I concur with the recommendation of denial of the Field Team.

N. E. Nelson

N. E. Nelson

RECEIVED
JUL 28 1955

Copy retained 400

IN REPLY REFER TO:

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

July 27, 1955

Re: DMEA 3757
Douglas Murphy
Sager-Murphy Claims
Deer Lodge Co., Mont.
Tungsten

Memorandum

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

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

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N. E. Nelson

N. E. Nelson

NENelson:iml
G-7/27/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. Holliday, 3513

RECEIVED
JUL 28 1955

IN REPLY REFER TO:

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DEPARTMENT OF THE INTERIOR
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cc: Director's reading, 4212
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DMEA (3)
Docket file
R. Holliday, 3513

RECEIVED
JUL 28 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

Log sheet

RECEIVED
JUL 1 3 1955

July 5, 1955

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

USM

Re: Docket No. DMEA-3757 (tungsten)
Sager-Murphy claims
Deer Lodge County, Montana

Dear Mr. Selfridge:

Enclosed are four copies of a memorandum by J. J. Quinlan, Geological Survey, recommending denial of the application by Mr. Douglas M. Murphy.

The quartz stringers which are the objective of the exploration lack continuity and contain but little tungsten. Consequently, we are in accord with Quinlan's conclusion that there seems to be no exploration target, and we concur with his recommendation for denial.

By Field Team, Region I
Northwest District

A. E. Weissenborn/ovf.

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosure

cc: USBM (2)
USGS (SRO)
Quinlan

Reviewed by
DMEA OPERATING COMMITTEE
7-25-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
JUL 1 2 1955

July 5, 1955

Memorandum

To: DMEA Field Team, Region I, Northwest District

From: James J. Quinlan, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3757 (tungsten), Field Examination Report, Douglas M. Murphy, Sager-Murphy claims, Deer Lodge County, Montana

Introduction

The Sager-Murphy property was examined June 3, 1955. Mr. Douglas M. Murphy, the applicant, assisted during the examination.

Recommendation

It is recommended that Mr. Murphy's application for exploration assistance be denied, because the scheelite showings in the area he wishes to explore are insignificant.

Applicant

The applicant is Mr. Douglas M. Murphy, 1627 South 11th Street, Missoula, Montana.

Mr. Murphy has worked for the U. S. Bureau of Public Roads as an Engineering Aid for 20 of the last 21 years. He has had little mining experience outside of a year's work, 1947-1948, on a small prospect in Arizona. He had an interest in this prospect and quit his job with the Bureau of Public Roads for a year to work on the prospect.

Location

The Sager-Murphy property is in sec. 1, T. 5 N., R. 12 W., M. P. M., Deer Lodge County, Montana. It is about 12 miles west of Anaconda, Montana, and lies along the ridge separating Warm Springs and Foster Creeks. The altitude in the vicinity of the principal workings is about 8,300 feet.

Reviewed by
DMEA OPERATING COMMITTEE
7-25-55
(date)

To reach the property from Anaconda, the nearest point of supply, one follows U. S. Highway 10A 11 miles west to Warm Springs Creek, thence 3 miles north on the county road up Warm Springs Creek to McCoy's ranch, thence 1-3/4 miles in an easterly direction over a jeep road to the principal workings on the property.

The principal workings on the Sager-Murphy property are about 2,500 feet northwest of the open pit on the neighboring Tip Top property. The claim map accompanying the application shows the relation of the Sager-Murphy claim to the neighboring Tip Top and New Year claims which are the principal claims of the Tip Top property.

Property

The property consists of 10 unpatented quartz lode mining claims, the Sager-Murphy Silver Star No. 1- No. 10 claims (claim map accompanies application). Although 10 claims have been located, only the Sager-Murphy Silver Star No. 1 - No. 5 claims have been recorded. These five claims are reported by the applicant to be recorded in the Deer Lodge County Records of unpatented quartz lode claims in Book 23 on pages 205 and 214.

The claims are jointly owned by Mr. Murphy and Mr. Sager of Missoula, Montana.

Workings

The principal workings on the property are on the Sager-Murphy Silver Star No. 1 and No. 2 claims. These workings consist of an adit 350 feet in length, a shaft 40 feet deep, and numerous pits and trenches. The adit was driven on bearing N. 55° W., 230 feet in order to cut the downward extension of a zone of quartz stringers exposed in a pit (herein called the main pit) 125 feet northwest and 80 feet higher than the adit portal. Two drifts, respectively, 160 and 230 feet from the portal, follow bedding structures about 55 feet northeast from the adit crosscut. In addition there is a 10-foot stub crosscut to the northwest from the end of the drift 230 feet from the portal.

There is also an adit 150 feet in length on the Sager-Murphy Silver Star No. 5 claim.

Geology

The Sager-Murphy property is within the Philipsburg quadrangle. The geology of this quadrangle has been described by W. H. Emmons and F. C. Calkins in U. S. Geol. Survey Prof. Paper 78,

Geology and Ore Deposits of the Philipsburg Quadrangle, Montana. The geologic map of the quadrangle (scale 1" = 2 miles) accompanying this professional paper shows the geology in the area of the applicant's property.

The property is principally underlain by sedimentary rocks belonging to the following formations: Red Lion (Cambrian), Maywood (Silurian), and Jefferson limestone (Devonian). The area is cut by numerous faults and the structure is rather complex.

The area in the vicinity of the principal workings is underlain by limestones, shaly limestones, and shales. These rocks appear to be a part of the rather broad transition zone which separates the distinctive Maywood and Jefferson formations. Within the adit the limestones and shaly limestones strike about N. 20° E. and dip 48 - 87° SE. A large bedding plane fault, 1 to 1.5 feet of gouge, is exposed in the adit about 160 feet from the portal. A drift follows this fault 55 feet northeast from where cut in the adit crosscut. The drift at the end of the adit crosscut also follows bedding shearing 55 feet to the northeast.

Most of the pits and shallow shafts in the area of the principal workings prospect thin quartz stringers. The best exposure of quartz stringers is in a pit, 125 feet northwest and 80 feet higher than the adit portal, and it is evident that the adit was driven in order to cut these quartz stringers at depth. The quartz stringers exposed in the pit appear to follow fracture cleavage in massive limestone beds. The quartz stringers strike N. 45° E. and dip 45° NW; the beds strike N. 20° E. and dip 60° - 65° SE. About 20 individual stringers are exposed in the wall of the pit in a 20-foot wide (true thickness) zone. Similar, but not nearly as numerous, quartz stringers are poorly exposed in outcrops and pits for at least another 40 or 50 feet in the hanging wall of the 20-foot wide zone. Individual stringers within the 20-foot wide zone range in width from a fraction of an inch to 5 inches and the total thickness of quartz within the zone would be about 25 inches. The zone of stringers exposed in the main pit can be traced in shallow trenches for about 160 feet north of the main pit.

Although several thin quartz stringers are exposed in the adit 80 feet below the main pit, no zone of stringers resembling that exposed in the main pit is exposed in the adit. If the zone of stringers is projected from the pit to the adit level on a 45° dip (dip of stringer in main pit), the zone should have been cut about 25 feet back of the crosscut face. If, however, the zone of stringers flattened in dip to 35° the projected position on the adit level would be immediately ahead of the crosscut

face. However, the possibility also exists that the zone of stringers is offset or cut out by the large bedding fault exposed 160 feet from the portal. One other possibility would be that the zone of stringers is only well developed in the more massive limestone bed as is the case in the main pit; whereas the beds near the face of the adit are thinner and contain thin siliceous laminae.

In any event, the quartz stringers are essentially barren and of no economic interest. Lamping showed only a few scattered grains of scheelite in several of the quartz stringers exposed in the main pit. A few grains were also noted in the dump of a small pit northwest of the main pit. Two or three small crystals of scheelite were also noted in association with the thin quartz stringers in the adit. Although the entire area in the vicinity of the principal workings, a mile of road on the claims leading to the area of principal workings, and the area in the vicinity of the adit on the Sager-Murphy Silver Star No. 5 claim was lamped, the only scheelite seen was the few grains previously described as occurring in the area of the principal workings. There are a few specks of tetrahedrite in some of the quartz veinlets.

Applicant's proposal

The applicant's proposal is rather indefinite. Initially he proposed to strip a large area in the vicinity of the principal workings and to the north along the Foster Creek-Warm Springs Creek ridge in the hopes of uncovering scheelite ore. He estimates that this phase of the work will require 74 hours of bulldozing at a cost of $1,000. If this initial work is successful he proposes to spend an additional $4,000 on additional dozing, diamond drilling, or underground exploration.

Evaluation of applicant's proposal and conclusion

The scheelite showings in the area of the applicant's proposed exploration are completely insignificant and do not merit testing, even by the limited program proposed by the applicant.

Distribution:
DMEA (4)
USBM (2)
USGS (SRO)
Docket
Quinlan

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

Department of the Interior
Defense Minerals Administration
RECEIVED
MAY 31 1955

May 27, 1955

Special Delivery

Mr. Douglas M. Murphy
1627 So. 11th Street
Missoula, Montana

Copy retained 100

WSM

Re: Docket No. DMEA-3757 (tungsten)
Sager-Murphy claims
Deer Lodge County, Montana

Dear Mr. Murphy:

Thank you for your letter of May 23. James J. Quinlan is in Montana and expects to examine your property the latter part of next week. A copy of your letter has been sent to him, so he will be getting in touch with you.

In the event you wish to contact him, however, he plans to stay in Helena, Montana, at the Main Motel Tuesday night. This weekend he is in Butte, Montana, at Eddy's Motel.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

cc: DMEA (2)
USBM (2)
Quinlan

RECEIVED
MAY 25 1955

May 23, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 31 1955

Mr. A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District
Spokane, Washington

Re: Docket No. DMEA-3557 (tungsten)
Sager-Murphy Claims
Deer Lodge County, Montana

Dear Mr. Weissenborn,

Yesterday, I made a trip to the above named mining claims to look at snow conditions. There are large areas of bare ground, interspersed with snowdrifts up to 2' in depth; it was necessary to walk the last mile to the property. However, the snow is melting rapidly. I would say that snow will not be gone by the end of May, but almost certainly will be gone by the weekend of June 4th.

I noticed again the association of bornite, azurite, malachite and galena with the quartz and scheelite in much the same way as at the claims 1/2 mile southeasterly, which are being worked by J. W. Abbott. Although the amount of scheelite exposed is small, and is apparently in a ~~discontinuous~~ discontinuous quartz stringer, it may be a valuable indication and I would very much like to have your evaluation of it.

It happens that I will have June ~~4,5~~ 3, 4 and 5 and ~~6~~ free (Fri., Sat., and Sun.) If this should be agreeable to you, we could make the field examination at that time. If not, please let me know a time suitable to you and I will do my best to make it. Normally, I have only Saturdays and Sundays free, but I can probably arrange to get a Friday or a Monday off with almost any weekend.

The trip to the property is not difficult. Yesterday, I left Missoula at 7:30 AM, visited these claims and also Abbott's and returned to Missoula at 5:30 PM. From Anaconda, we could drive by jeep to the claims in 30 to 40 minutes. If agreeable to you, I would suggest that we meet at the Montana Hotel in Anaconda as early in the morning of Fri., June 3 as is suitable to you, or later in the day, depending upon how much time you anticipate spending at the property, or similarly on June 4 or June 5. I can bring my old jeep, which I am quite sure will make the trip, unless you have a better one available in the area.

I am glad to have your letter of May 3 and the explanation of your procedure. I did become far too enthusiastic about an early start in the spring, as the weather has turned out to be quite bad until recently.

Please advise me as to the time most agreeable to you and I will plan accordingly.

Sincerely yours,
Douglas M. Murphy
Douglas M. Murphy
1627 So. 11th St., Missoula, Mont.

Mr. Weissenborn,
I am working on a highway project at Olney, Montana, returning to Missoula each weekend. My address continues the same: 1627 So. 11th St., Missoula. Mail reaching Missoula on Mondays or Tuesdays is forwarded to me at box 107, Olney, Montana; mail arriving in Missoula on Wed., Thurs., Fri. is kept for me in Missoula. The Olney address would work out best, perhaps, for all but end-of-week mail.

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

May 4, 1955

WSM

Copy forwarded 300

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-3757 (tungsten)
Douglas M. Murphy
Sager-Murphy group of claims
Deer Lodge County, Montana

Dear Mr. Selfridge:

With reference to your letter of April 14, 1955, the field examination of the Sager-Murphy property has been delayed because of the exceptionally late spring.

We will schedule an examination as soon as weather permits.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

cc: USBM (2)
Quinlan

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

So. 157 Howard Street
Spokane 4, Washington

May 3, 1955

Mr. Douglas M. Murphy
1627 South 11th Street
Missoula, Montana

Re: Docket No. DMEA-3557 (tungsten)
Sager-Murphy Claims
Deer Lodge County, Montana

Dear Mr. Murphy:

This will acknowledge your letter of April 18, 1955, regarding your application for DMEA assistance.

We wish to thank you for advising us as to the snow conditions at the property, and will await word from you as to when the snow is gone before scheduling a field examination.

Your letter leads us to believe that you may be misinformed as to the actual operating procedure of this administration. We fully understand your enthusiasm and your desire to start work as soon as possible, but we must inform you that even if an application is in order and it is given favorable consideration there is usually a month to six weeks delay between the time a field examination is made and the time a contract authorizing the work is signed. The reason for this delay is that contracts are prepared in Washington, D. C., and the results of the field examination have to be available before a contract is written. This administration cannot participate in the cost of any work done between the time of the field examination and the date of the contract.

The questions you have raised regarding supervision of proposed project work can best be settled at the time of the field examination. We wish, however, to inform you that this organization cannot furnish direct supervision to any project, but can only advise on the course of the work during routine inspections, which normally do not take place more often than once a month.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

cc: DMEA (2) w/cys incoming
UMRM (2) " "
Quinlan " "

4/18/55

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region I, Northwest District
South 157 Howard Street
Spokane, Washington

Dear Mr. Weissenborn:

I have today received a letter from Mr. C. O. Mittendorf, Administrator, stating that my docket No. 3757-Tungsten, has been referred to you for a field examination of the property.

Yesterday, (Sunday) I talked with Mr. J. W. Abbott who is presently working the tungsten property ½ mile southeasterly from my property. He advises that snow is approx. 3' deep on the level of the flat between our properties and is lying in deep, overhanging drifts on the ridge-top at my property. We have, unfortunately, had exceptionally heavy snows recently and I am afraid that my objective of beginning work by May 1 will not be too feasible. Nor would such snow conditions be favorable for a field examination. The winze, north from the tunnel, would be full of snow as well as the numerous small open cuts.

However, I can keep track of snow conditions there, and will advise you when snow is gone.

Meanwhile, I have tentatively lined up a D-6 dozer in good condition, owned and operated by a good man, at $9.00 per hour.

My situation, briefly, is this: I am employed by the U. S. Bureau of Public Roads as Eng'r. Aid, with 20+ years experience. However, my main interest is mining, and I would very much like to prove or disprove this tungsten property, as coarse scheelite of very good quality is there.

My plan was to get two weeks off from my work in early May for doing this exploration work. It now appears that snow will delay us until the last half of May or later. By that time, due to our commitments to highway contracts, I may be unable to spend full time supervising the mine exploration work as I had hoped to do. But I would be there on week-ends, possibly some more than that, and I have a couple of plans in mind, which we could discuss, for providing supervision and inspection of the dozer cuts. Or it would be more than satisfactory to me if your organization could provide this supervision, with my assistance whenever and as much of the time as I could be there.

Please let me know if I can be of any assistance whatever.

Sincerely yours,

/s/ Douglas M. Murphy

Douglas M. Murphy
1627 So. 11th St.,
Missoula, Montana

COPY

DMEA

DOCKET
SURNAME
Rutledge
Martin
Holliday
Nelson
Selfridge
Ferguson

APR 14 1955

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region I - Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 3757 - Tungsten
Douglas M. Murphy
Sager-Murphy group of claims
Deer Lodge County, Montana

Dear Mr. Weissenborn:

Reference is made to the subject docket and your letter of March 31, 1955, which states that a field examination of the property will be made as soon as the weather permits and a man is in the vicinity, probably in late April.

We will, therefore, hold this application in abeyance until the report and recommendations by the Field Team are received.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

APPROVED:

J. H. Hedges (JHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

FARutledge:foc 4-7-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. I - NWD
Messrs. Holliday, USBM
Kiilsgaard, USGS

R.C.S.

400

DOCKET
SURNAME
Rutledge
Martin
Holliday
Nelson
Hedges
Kilsgaard
Selfridge
Fitzsimons

APR 14 1955

Mr. Douglas M. Murphy
1627 South 11th Street
Missoula, Montana

Re: Docket No. DMEA 3757 - Tungsten
Sager-Murphy group of claims
Deer Lodge County, Montana

Dear Mr. Murphy:

The above-docketed application for exploration assistance for tungsten has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region I, Northwest District, South 157 Howard Street, Spokane 4, Washington, for a field examination of the property.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge:fec
4-7-55
cc to: Docket
Code 400
Adm. Reading File
FT. REG. I - NWD
Messrs. Holliday, USBM
Kilsgaard, USGS

R.C.G.

April 6, 1955
Subject: DMEA 3757
Re: Exploration Assistance
Sager-Murphy Silver-Star
claims Nos. 1 to 5 and
Sager-Murphy claims Nos.
6 to 10

Mr. Douglas M. Murphy
1627 So. 11th St.
Missoula, Montana

Dear Mr. Murphy:

The receipt of your application dated March 1, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3757 and referred to the Iron and Ferro-Alloys Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

April 6, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region I Nw.

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 I Northwest.

DMEA - 3757 Douglas M. Murphy

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

March 31, 1955

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Application for exploration assistance
(tungsten)
Douglas M. Murphy
Sager-Murphy claims
Deer Lodge County, Montana

Dear Mr. Selfridge:

Enclosed are three copies of an application submitted by Douglas M. Murphy of Missoula, Montana, with three copies of his letter of March 13. The application proposes to explore the Sager-Murphy Silver-Star claims 1 to 5, and Sager-Murphy claims 6 to 10, in Deer Lodge County, Montana, for tungsten (scheelite).

An examination will be scheduled as soon as the weather permits and we have a man in the vicinity, probably in late April.

Sincerely yours,

John S. Vhay

John S. Vhay
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

Enclosures

cc: USBM (2)
Quinlan

1627 So. 11th St.
Missoula, Montana
March 13, 1955

RECEIVED
MAR 17 1955
U.S.G.S.
SPOKANE, WASH.

OF THE INTERIOR
Mines Administration
RECEIVED
APR - 4 1955

Mr. Wing G. Agnew, Member
DMEA Field Team, Region II
United States Department of The Interior
Defense Minerals Exploration Administration
1201 N. Division St.
Spokane 2, Washington

Dear Mr. Agnew,

Thank you for your letter of January 7, 1955 and the enclosed forms MF-103.

I have filled out these forms, correctly enough, I hope, for an exploration project I would like to do for scheelite on the Sager-Murphy group of claims owned by me.

These claims are 1/2 mile distant from the Tip Top and New Year patented claims and have the same type of scheelite ore, in large crystals, although there is but a small showing of this scheelite as shown on the attached sketches. However, I believe that there are possible faults and fissure intersections that should be explored.

I propose to do, first, $1000.00 worth of dozer stripping at favorable areas and then, if deemed advisable, $4000.00 worth of further exploratory work as outlined under paragraph 6.(h) of the attached form MF-103.

The claims are readily accessible by jeep road when snow is gone. I would like very much to commence the work during the first half of May, 1955 in order to take advantage of best weather.

If any further information is desired that I can supply, please advise me.

Sincerely yours,

Douglas M. Murphy

Douglas M. Murphy
1627 So. 11th St.
Missoula, Montana

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
MAR 17 1955
U. S. G. S.
SPOKANE, WASH.

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. 3757
Metal or Mineral Tungsten
Date Received 4-4-55
Estimated Cost $5,000
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: Douglas M. Murphy
1627 So. 11th St.
Missoula, Montana

(*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. Sager-Murphy Silver-Star claims Nos. 1,2,3,4, and 5, unpatented, recorded June 7, 1954 at Anaconda Courthouse, Deer Lodge County, Montana, with serial Nos. 61892 to 61896 incl. in Book 23, pages 205 to 214 incl., and Sager-Murphy claims Nos. 6,7,8,9 and 10 which have "Notice of Location". (See sketch-map, page 1, attached).

(*b*) State any mine name by which the property is known. None that I know of.

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

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

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

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

(Continued on attached sheets)

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. Probably none.

(*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 Scheelite.

(*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 12 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)? Yes

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

[x] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper. I will pay my share of the costs as required at any time, or in advance to a fund, or in any manner specified by the government.

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 March 1, 1955, 1955

Douglas M. Murphy
(Applicant)

By Douglas M. Murphy

1627 So. 11th St.

Missoula, Montana

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

4. Physical description.- (a) The explorations previously made, probably during and prior to the 1930s, and since abandoned, consist of a 40' inclined shaft, a 150' tunnel with two 75' drifts and several small, open cuts, all on claims 1 and 2, and a tunnel 50' or longer on claim no. 5. I had no interest in or knowledge of this work at the time it was done.

For purposes of examination, the mine workings are accessible by jeep road when snow is gone, approximately from May 1 to Nov. 1, and may be accessible earlier than May 1, 1955, due to less than normal snowfall.

(b) None

(c) See attached sketches for general geologic features.
My reasons for wishing to explore are: The existence of coarse scheelite of the same character as is being produced from the Tip Top and New Year patented claims which lie 1/2 mile southeasterly, and the possibilities if mineralization at the intersections of fissures, (see page 2 of attached sketches).

(d) The tunnel on claim No. 5 is approx. 15-1/4 miles by road from Anaconda, Montana, the mine workings on claims 1 and 2 are 1/2 mile farther. Beginning at Anaconda, travel approx. 11 miles westerly on paved highway(toward Phillipsburg, Montana), then travel northerly on gravelled road approx. 3 miles up Warm Springs Creek to McCoy ranch, then approx. 1-1/4 miles by jeep road to claim no. 5, then an additional 1/2 mile by jeep road to claims 1 and 2. (see sketch maps attached).

(e) Manpower, materials, supplies and equipment are available in nearby Anaconda, or Butte, Montana.

5.-(a) Scheelite is the mineral for which I wish to explore.

(b) The work proposed is dozer stripping to bedrock at favorable areas or at possible intersections of fissures, and crosscutting or stripping any veins or favorable areas found, especially on claims 1 to 5 inclusive, but maybe as importantly on claims 6 to 10 inclusive. Then, if deemed advisable, further work would be done as outlined in paragraph 6.(h), contingencies, (see on continuation sheet 2).

(c) The work will start within 30 days and will be completed within 12 months (but probably within 3 months) from the date of an exploration project contract if not in winter weather. The desirable beginning date is May 1, 1955, in order to take advantage of best weather.

(d) The applicant, Douglas M. Murphy, has had one years experience in drifting, raising and drilling rock for building 1-3/4 miles of mountain road to a mine in Arizona in 1947 - 1948, and, together with Mr. John B. White of Missoula, Montana, supervised dozer stripping at the Tip Top and New Year patented claims(see sketch map, page 1) in late December, 1954. Murphy plans to supervise the dozer stripping, but would like to have advice and consultation with Bureau of Mines representatives if available during stripping operations. Murphy has previously registered as a possible producer of tungsten ore when registration was first being done, I believe this was in June or July of 1950.

Turn to continuation sheet 2

6. Estimate of costs.- Total cost $5000.00, entirely under items 6.(d), 6.(g), and 6.(h)., see below.

(a) Independent contracts.- None.

(b) Labor, supervision, consultants.- Supervision of work and inspection of the dozer cuts for scheelite with ultra-violet light will be done by the applicant, Douglas M. Murphy, A Bureau of Mines geologist for consultation and advice would be very welcomeon this project but if not available I would proceed with the work as outlined above.

(c) Operating materials and supplies.- A portable ultra-violet light and miscellaneous small tools such as picks, shovels, brooms to be furnished by the applicant at no charge to the project. (Also see 6.(d) below.)

(d) Operating equipment.- One tractor(with dozer, operator, fuel and repairs) at hourly rental rate.(I can probably get Mr. Wm. G. Postlethwaite, of Anaconda, Montana to do this work., he did the dozer stripping mentioned in 5.(d).) Proposed is approx. 74 hours of dozer work at, say, $13.50 per hour for a total cost of $1000.00, or the equivalent total cost of work($1000.00) if done by larger or smaller dozer at fair rental rates. If underground exploration work were to be justified, after the initial $1000.00 worth of dozer work, suitable drilling and/or mining equipment could be obtained, likewise, on a rental basis.

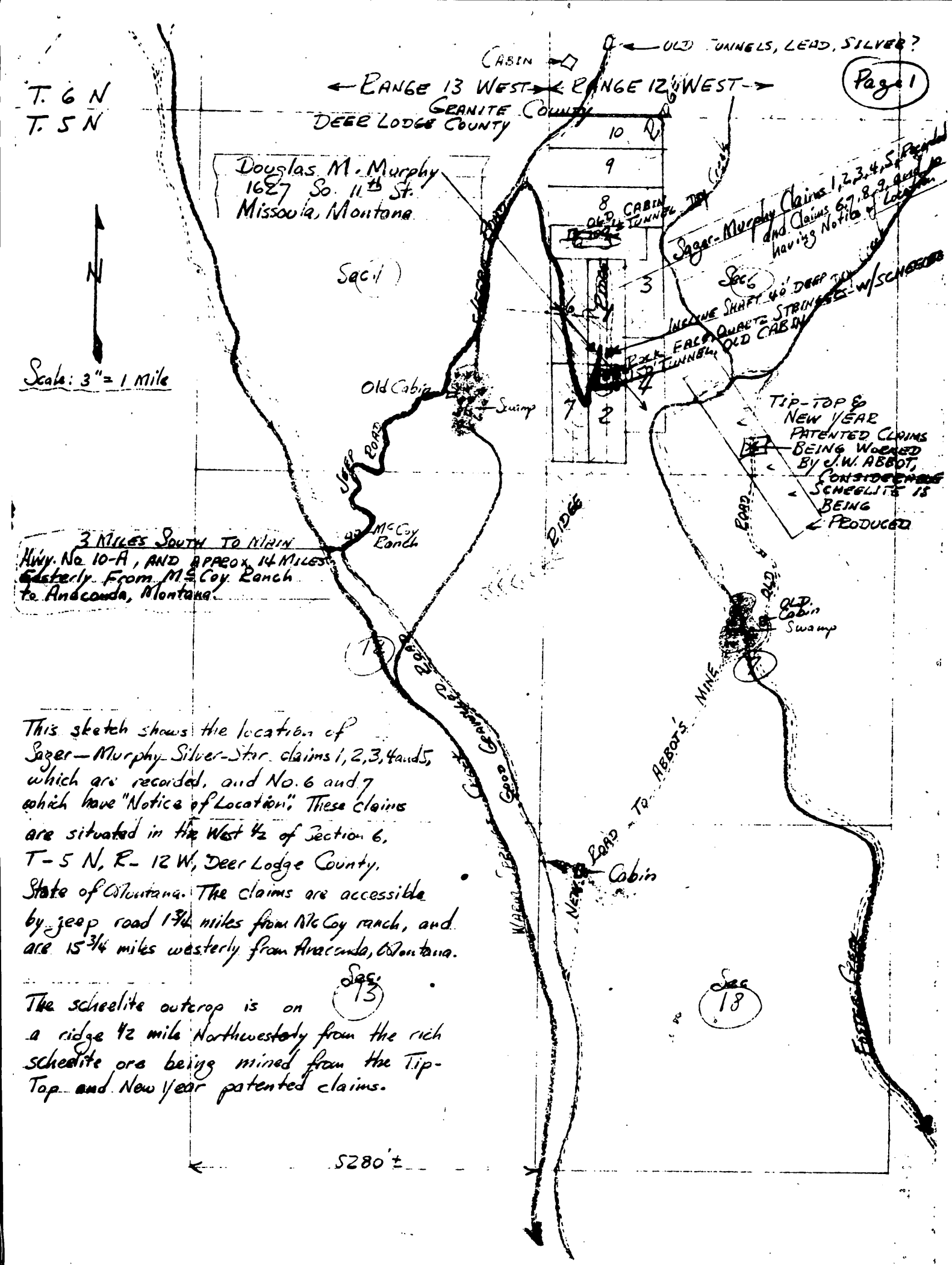
One jeep, 4x4, for general use, to be furnished by the applicant at no charge to the project.

(e) Rehabilitation and repairs.- None

(f) New buildings, improvements, installations.- None

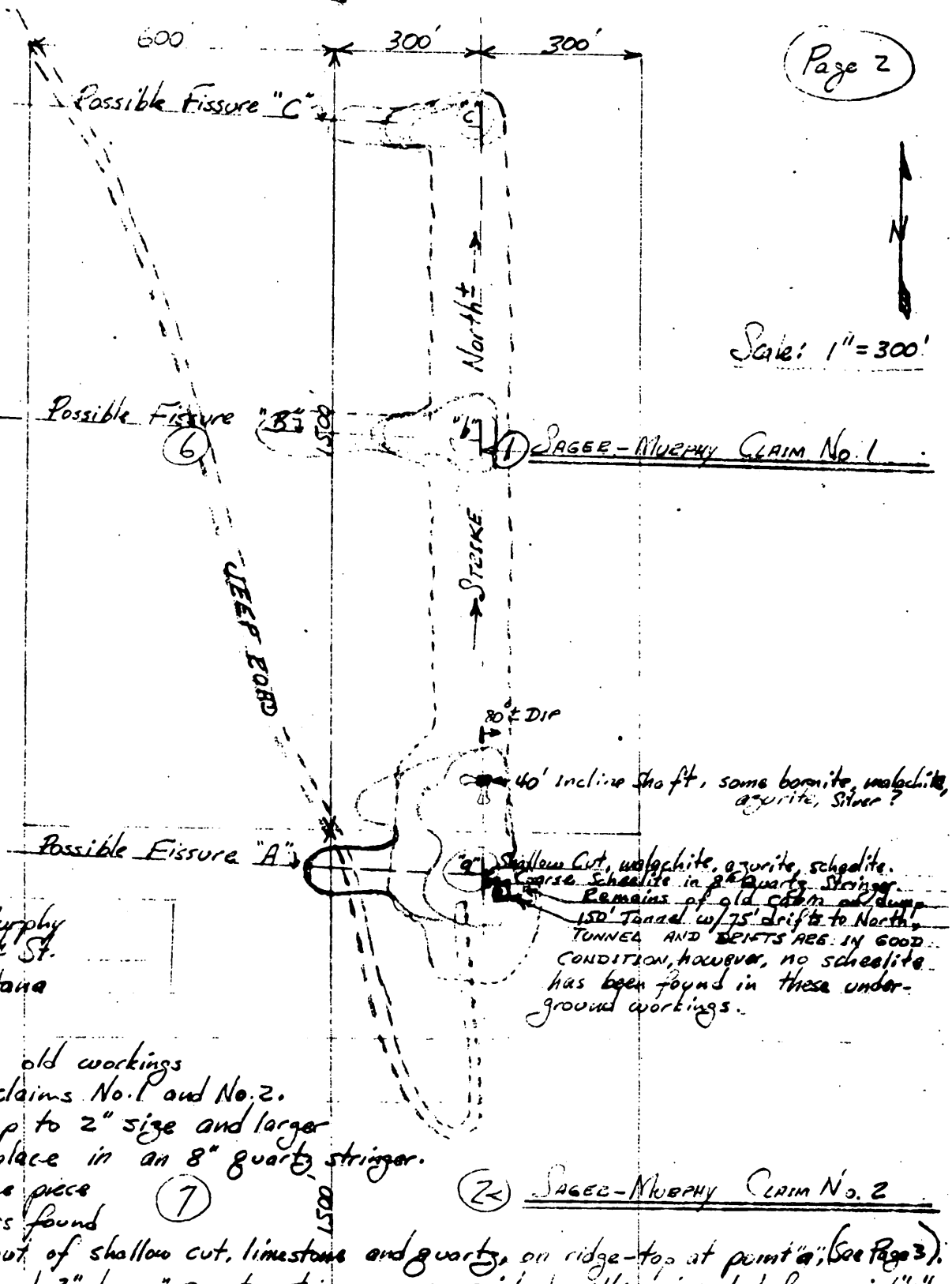
(g) Miscellaneous.- Workmens compensation, employers liability insurance and payroll taxes to be furnished by the owners of equipment within the hourly rental rates.

(h) Contingencies.- A fund of $4000.00 to be used for diamond drilling, other underground exploration or for further dozer stripping or any logical combination of these if and as deemed advisable by Bureau of Mines representatives and the applicant.



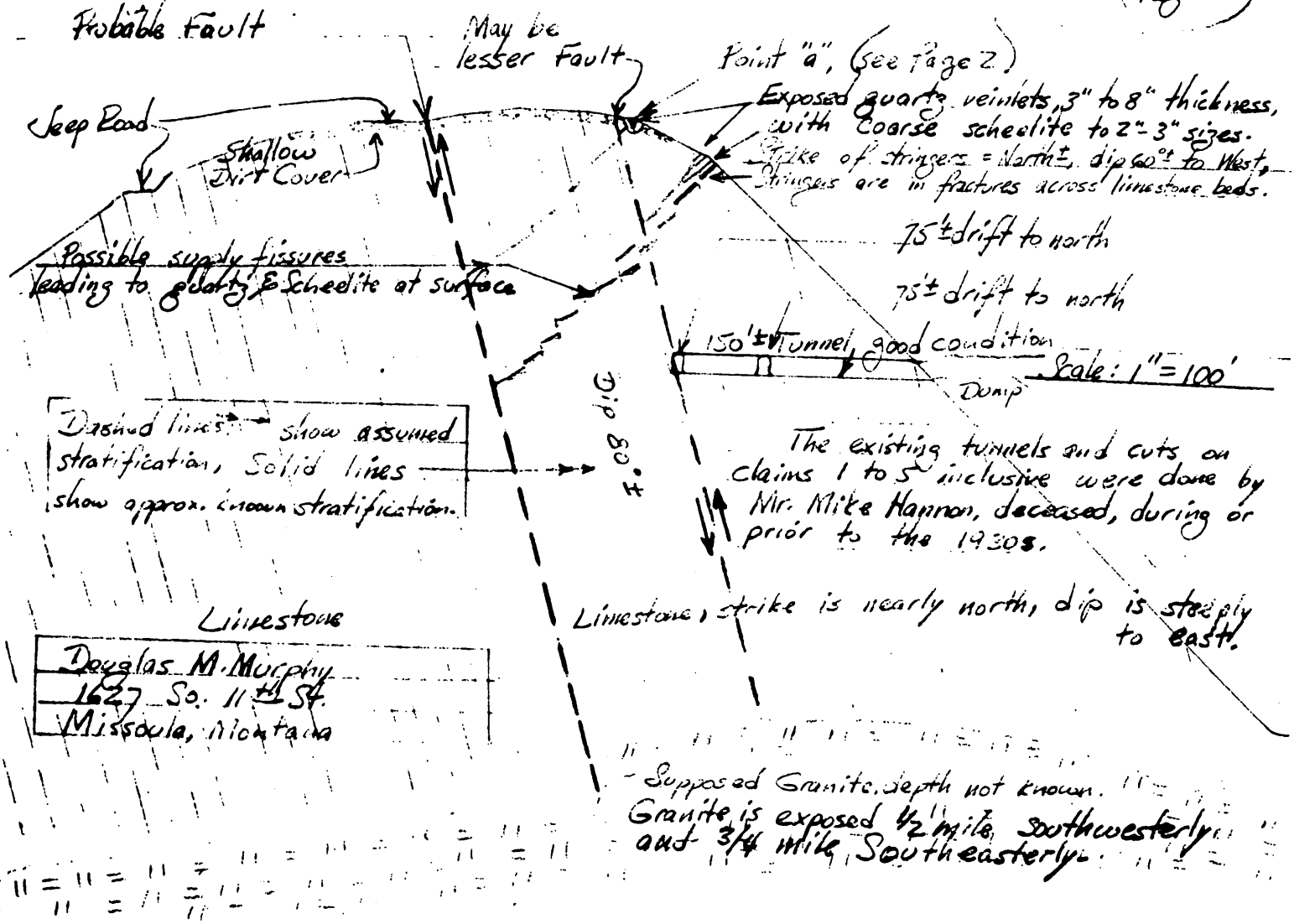
This sketch shows the location of Sager—Murphy Silver-Star claims 1, 2, 3, 4 and 5, which are recorded, and No. 6 and 7 which have "Notice of Location". These claims are situated in the West ½ of Section 6, T-5 N, R-12 W, Deer Lodge County, State of Montana. The claims are accessible by jeep road 1¾ miles from McCoy ranch, and are 15¾ miles westerly from Anaconda, Montana.

The scheelite outcrop is on a ridge ½ mile Northwesterly from the rich scheelite ore being mined from the Tip-Top and New Year patented claims.



This sketch shows old workings on Sager-Murphy claims No. 1 and No. 2. Coarse scheelite up to 2" size and larger is exposed in place in an 8" quartz stringer. At point "a", a large piece of scheelite (3") was found in material thrown out of shallow cut, limestone and quartz, on ridge-top at point "a" (See Page 3). Several 3" to 10" quartz stringers are evident within 50' easterly from point "a".

The ridge-top area shown outlined in red, above, is nearly flat-topped and is covered by dirt ranging from 1' to an estimated 6' in depth. This area is approx. 1700' in length along ridge-top, and is from 100' to 200' in width. There may be a slip-fault between the strata of limestone, which strike nearly North and dip steeply to the East. At "a", "b" and "c" there may be fissures intersecting the North-South faulting, the fissures trending nearly East-West. Within the approximate areas outlined in red and green, I would like to do some dozer stripping.



This section, looking north into strike of limestone beds, shows the existing tunnel which runs east to west into the mountain, with two drifts to the North. No scheelite was found in this tunnel. The 75'± drifts (See above) follow soft brecciated limestone beds which may be lesser or minor faults.

However, there may be a larger fault, as shown by red dashed line above, aerial pictures show this possibility most clearly.
Previous prospectors were probably looking for silver ore. Copper-iron sulphides, and blue and green copper carbonates are quite plentiful in quartz-limestone rock approx. 100' to the north from Point "a", along strike of same limestone bed. In this immediate vicinity, if dozer stripping were to show encouraging results, a short extension of the tunnel might be warranted. However, the writer feels that not only the immediate vicinity of the old tunnel should be prospected, but also the possible intersections of fissures shown at "B" and "C" (on Page 2) should be investigated by dozer stripping, with no underground work to be done or contemplated unless warranted by the results of surface exploration. The objective would be scheelite ore; it is of very gangunity and presents no difficult milling problem.

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