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

224 New Customhouse
Denver 2, Colorado

July 11, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration. Attention: 200.

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 3021 (Tungsten), James L. McBroom, Anna C Mine, Boulder County, Colorado.

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

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosures

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

224 New Customhouse
Denver 2, Colorado

July 11, 1953.

Mr. James L. McBroom
Box 184
Nederland, Colorado

Re: Docket DMEA-3021

Dear Mr. McBroom:

Reference is made to your application for Government aid on the Anna C. Mine.

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

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

Very truly yours,

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

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

HMC:cwn

cc: Administrator, DMEA
WMTraver
Subject
AHKoschmann (2)
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

July 11, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 3021 (Tungsten), James L. McBroom, Anna C Mine, Boulder County, Colorado.

Enclosed are eight copies of the final engineering report on the subject docket.

The applicant requested $9,320.00 for shaft sinking and drifting. The examining engineer believes this work is not justified and recommends that the application be denied.

We concur in this recommendation.

W. H. King

W. H. King

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colo.
May 29, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: EMRA 3021 (Tungsten), James L. McBroom (Anna C. mine), Boulder County, Colo.

Please find enclosed the original and eight copies of a memorandum report by M. E. Salsbury recommending denial of a loan request for $9,320.00 on the subject docket.

The conclusions are that the exploration has little prospects of developing any appreciable reserves of tungsten ore and that additional shaft sinking and drifting on a lower level could be off ground leased by the applicant, at least drifting in one of the favorable directions.

I agree that the application should be denied.

The brochure will be retained in our files in the event a more complete report is required at a later date.

W. M. Traver

W. M. Traver

enclosures

WMT/amh

cc: 8
EMRA 3021
EMRA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

June 22, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3021, Anna C Mine, Boulder County, Colorado.

Attached are 8 copies of the geological report by E. N. Harshman covering DMEA Docket 3021, Anna C Mine, Boulder County, Colorado.

The applicant proposes to explore for tungsten ore (ferberite) by sinking the Anna C inclined shaft an additional 66 feet, and drifting 80 feet northward along the Anna C vein at an estimated cost of $9,320.

Flooding made an examination of the underground workings impossible, but from discussions with the applicant and a study of available geologic data, it is concluded that the requested exploration will not result in the discovery of significant tungsten ore. The position of side line of the Anna C claim limits exploration on the Anna C vein to the block of ground north of the shaft and may prohibit deepening the shaft. Harshman, therefore, recommends that the loan be denied.

I concur in this recommendation.

The brochure is enclosed.

E. N. Harshman
for A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 3021, Anna C. Mine

Boulder County, Colo.

Tungsten

M. H. Salsbury, Mining Engineer
Bureau of Mines

May 29, 1953

ANNA C MINE

BOULDER COUNTY, COLORADO

JAMES L. MC BROOM

DMEA DOCKET 3021

Geologic Report

By E. N. Harshman
U. S. Geological Survey

ANNA C MINE
BOULDER COUNTY, COLORADO

INTRODUCTION

James L. McBroom, P. O. Box 184, Nederland, Colorado, has applied to the Defense Minerals Exploration Administration, DMEA Docket 3021, for assistance to explore for tungsten ore (ferberite) in the Anna C Mine. The applicant is lessee of the Anna C Lode claim and the Gold Coin Lode claim, U. S. Mineral Survey No. 18374, Grand Island mining district, Boulder County, Colorado. The claims are located about 1 1/3 miles (airline) northwest of Nederland, Colorado, in sec. 11, T. 1 S., R. 73 W., 6th P. M.

The applicant proposes to sink the Anna C inclined shaft, which is now 155 feet deep, an additional 66 feet, and to drift 80 feet north along the Anna C vein. The cost of the project is estimated to be $9,320.

The property was visited on May 20, 1953, in company with J. C. MacLachlan, U. S. Geological Survey, and M. H. Salsbury, U. S. Bureau of Mines. The shaft was flooded and no underground examination could be made; the application was discussed with the applicant.

There appears to be little chance that the requested exploration will discover significant tungsten ore and denial of the application is recommended.

GEOLOGY

The Anna C mine is located on the western edge of the main Boulder County tungsten district in an area of pre-Cambrian Idaho Springs schist, intruded by irregular bodies of pegmatite and Boulder Creek granite.

Figure 1, prepared by H. T. Schassberger of the U. S. Geological Survey, shows the geology of the 115-foot level of the mine, and the geology of the Anna C shaft above the 115-foot level. The Anna C vein occupies a shear zone which strikes about N. 5° E., and dips 60° E. The shear zone ranges from 2 to 5 feet in width and consists of broken and somewhat silicified, unmineralized wall rock. Ferberite and horn quartz are restricted in occurrence to a hanging wall and a footwall stringer which for the most part consist of clay gouge. The hanging wall stringer is the most persistant. When present in the shear zone, ferberite and horn quartz stringers rarely exceed 1 inch in width.

According to Schassberger, the deposition of ferberite and horn quartz was controlled to a large extent by the intersection of the Anna C vein and the Northeast vein. The Northeast vein was not observed underground but is exposed in the caved shaft 155 feet northeast of the Anna C shaft (fig. 1). Granite and pegmatite wall rocks appear more favorable to ore deposition than does schist.

PRODUCTION AND ORE RESERVES

No production figures are available for the Anna C mine, but it is probable that the total production has been less than 1,000 units of WO_3.

No estimates of ore reserves can be given for the Anna C mine.

CONCLUSIONS AND RECOMMENDATIONS

Exploration, development and mining in the Anna C mine have resulted in the production of some tungsten ore from small stopes on the 50-foot and 115-foot levels. An unknown amount of drifting, probably about 30 to 50 feet, has been done on the 155-foot level, but according to the applicant little or no ore was produced. The ore shoots exposed to date have been

short, narrow, and low grade, and from the geological point of view, there is no reason to believe that exploration at greater depths will expose more significant ore bodies.

The approximate location of the Anna C side line is shown on Figure 1. This common boundary between the Anna C claim on the north and the Sunset No. 2 claim on the south, not owned or controlled by the applicant, limits exploration to the block of ground north of the shaft. Furthermore, it appears that the south side line of the Anna C claim passes through the center of the shaft on the 155-foot level and any shaft deepening would involve work on the Sunset No. 2 claim, not controlled by the applicant.

For the above reasons it is recommended that the application for Government assistance, DMEA Docket 3021, be denied.

DMEA 3021

ANNA C. MINE
BOULDER COUNTY, COLO.

Engineering Report

By M. H. Salsbury
Mining Engineer
Bureau of Mines

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colo.
May 29, 1953

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: M. H. Salsbury

Subject: DMEA 3021 (Tungsten), James L. McBroom (Anna C. mine), Boulder County, Colo.

The subject application, DMEA 3021, was investigated by a Region IV examining team on May 20, 1953.

The applicant proposes to pump out and rehabilitate the Anna C. shaft, 155 feet deep, and accomplish 60 feet of shaft sinking and 80 feet of drifting, at an estimated cost of $9,320.00--Government participation, 75 percent or $6,990.00.

On the basis of available information on the property, the underground workings of which are flooded and inaccessible, denial of the application is recommended.

The applicant, James L. McBroom, has a lease on two patented claims--Anna C. and Gold Coin, survey number 18374--from the owner, O. B. Scott, Rye, Colo. The lease runs to March 30, 1956, with the privilege of a two-year extension. The owner has signified his willingness to sign a consent to lien.

The mine is situated 2 miles northwest of Nederland, Colo., in the Grand Island Mining District, sec. 11, T. 1 S., R. 73 W. (fig. 1). There are no surface improvements and the only usable shaft is flooded to within 30 feet of the collar.

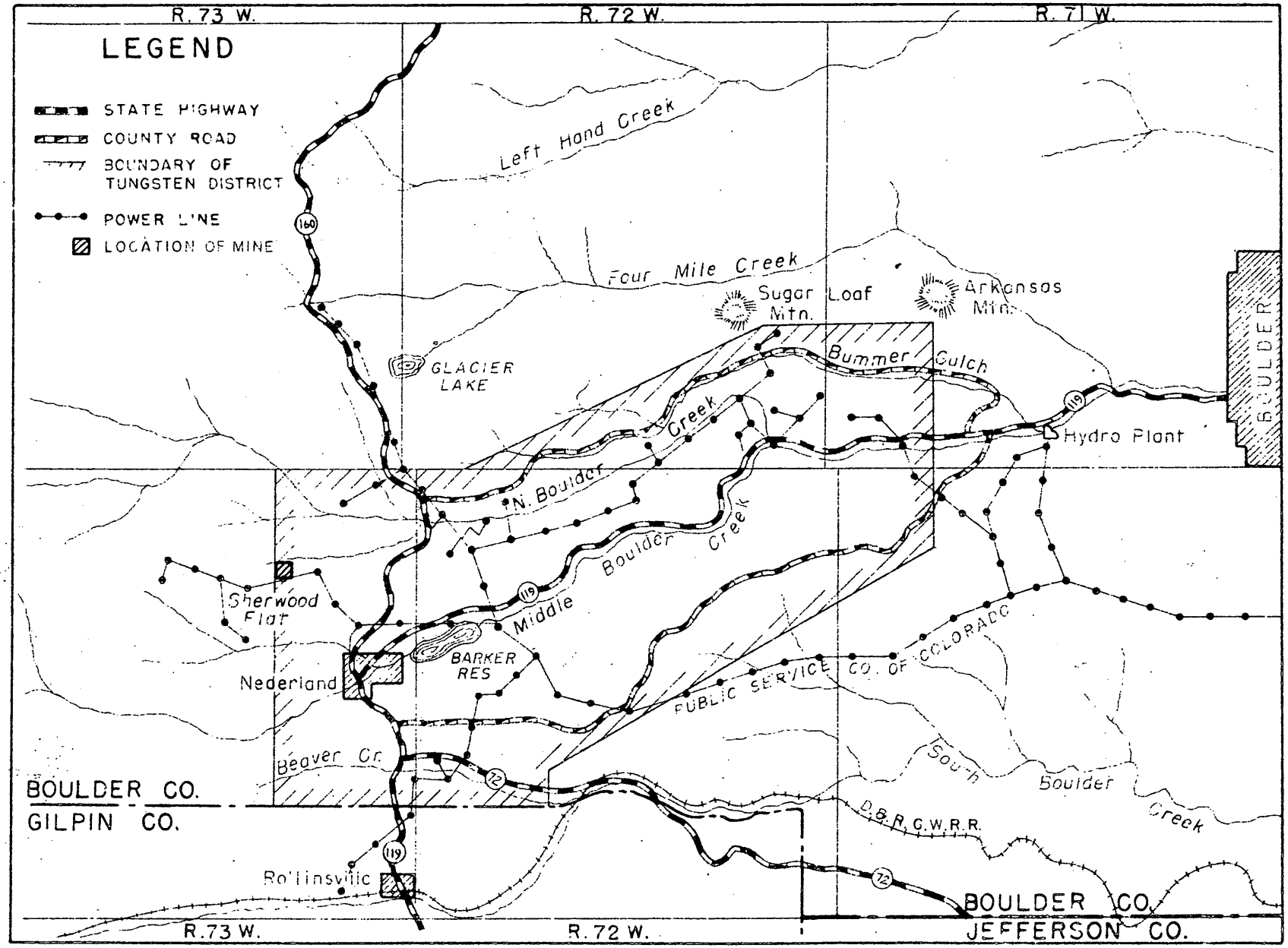


FIGURE 1. - LOCATION MAP OF THE ANNA C. MINE, BOULDER COUNTY, COLO. (DMEA 3021).

The shaft is within a few feet of the south side line of the Anna C. claim, and McBroom does not have a lease on the adjoining Sunset claim although he thought he could get one. The veins strike north and south and the side lines of the claims run east and west, so the available length within the Anna C. claim for drifting on the vein does not exceed 300 feet, all north of the shaft.

In addition, according to a claim map which the applicant showed the examining team but which was not furnished with the application, the Anna C. shaft is so close to the side line of the property that an additional sinking operation on the inclination of the vein would possibly cross over into the Sunset claim unless the line of the shaft was changed, considered poor procedure in an incline shaft.

In 1951, a previous lessee of the property, C. H. Smith, made application for exploration assistance under docket DMA 2158. An examination was made by a Region IV examining team on November 26, 1951. Later, Smith withdrew his application and reports were not prepared. A rough draft was available, however, to the present examiners.

Smith proposed a somewhat more elaborate program than the present applicant, including a crosscut on the 115-foot level to cut the Sunset vein, estimated to be 75 feet in the hanging or east wall of the Anna C. vein. The present applicant does not consider the Sunset vein in his proposed exploration program.

The property has been known since before World War I, but no production is recorded before 1942 and that since was undoubtedly small and unverified.

There is the following record of production in 1942-43 by Harrison Cobb, a Boulder County operator:

Date	Dry pounds ore	Percent WO_3
November 24, 1942	7,720	7.74
January 9, 1943	2,100	14.10
January 27, 1943	379	40.10

C. M. Smith in 1951-52 produced seven shipments totaling 42,706 pounds which contained from 0.93 to 23.90 percent WO_3 and which returned $1,586.49. The ore was mined from old workings above the 115-foot level. There is an unconfirmed report of production at some earlier period from a pocket of high grade found in the north drift on the 155-foot level.

McBroom is a competent miner who has been engaged in tungsten mining in Boulder County for many years. His cost estimates in the application are reasonable.

All evidence on the property available to the examining team tends to confirm the facts that known ore occurrences on the property are meager and that the ore shoot north of the Anna C. shaft and above the 115-foot level was very small and erratic. Presumably, very little ore was found in similar work on the 155-foot level, reported to have encountered a heavy flow of water which discouraged further exploration.

There is no basis for assuming that deeper exploration would encounter any better or larger ore bodies or contribute to tungsten reserves materially.

In addition, the limited property rights would not permit exploration south of the shaft under a Government assisted project.

These facts are considered a sufficient reason to recommend denial of the application for Government assistance.

R. L. Bolmer

for M. H. Salsbury
Mining Engineer

MHS/amh

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

224 New Customhouse
Denver 2, Colorado

July 11, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration. Attention: 200.

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 3021 (Tungsten), James L. McBroom, Anna C Mine, Boulder County, Colorado.

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

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE

7-20-53
(date)

C O P Y

224 New Customhouse
Denver 2, Colorado

July 11, 1953.

Mr. James L. McBroom
Box 184
Nederland, Colorado

Re: Docket DMEA-3021

Dear Mr. McBroom:

Reference is made to your application for Government aid on the Anna C. Mine.

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

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

Very truly yours,

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

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

HMC:cwm

Reviewed by
DMEA OPERATING COMMITTEE
7-20-53
(date)

cc: Administrator, DMEA
WMTraver
Subject
AHKoschmann (2)
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

July 11, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 3021 (Tungsten), James L. McBroom, Anna C Mine, Boulder County, Colorado.

Enclosed are eight copies of the final engineering report on the subject docket.

The applicant requested $9,320.00 for shaft sinking and drifting. The examining engineer believes this work is not justified and recommends that the application be denied.

We concur in this recommendation.

W. H. King
W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
7-20-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colo.
May 29, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3021 (Tungsten), James L. McBroom (Anna C. mine), Boulder County, Colo.

Please find enclosed the original and eight copies of a memorandum report by M. E. Salsbury recommending denial of a loan request for $9,320.00 on the subject docket.

The conclusions are that the exploration has little prospects of developing any appreciable reserves of tungsten ore and that additional shaft sinking and drifting on a lower level could be off ground leased by the applicant, at least drifting in one of the favorable directions.

I agree that the application should be denied.

The brochure will be retained in our files in the event a more complete report is required at a later date.

W. M. Traver

W. M. Traver

enclosures

WMT/amh

cc: 8
DMEA 3021
DMEA Chron.

Reviewed by
DMEA OPERATING COMMITTEE
7-20-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
230 New Customhouse
Denver 2, Colorado

June 22, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3021, Anna C Mine, Boulder County, Colorado.

Attached are 8 copies of the geological report by E. N. Harshman covering DMEA Docket 3021, Anna C Mine, Boulder County, Colorado.

The applicant proposes to explore for tungsten ore (ferberite) by sinking the Anna C inclined shaft an additional 66 feet, and drifting 80 feet northward along the Anna C vein at an estimated cost of $9,320.

Flooding made an examination of the underground workings impossible, but from discussions with the applicant and a study of available geologic data, it is concluded that the requested exploration will not result in the discovery of significant tungsten ore. The position of side line of the Anna C claim limits exploration on the Anna C vein to the block of ground north of the shaft and may prohibit deepening the shaft. Harshman, therefore, recommends that the loan be denied.

I concur in this recommendation.

The brochure is enclosed.

E. N. Harshman
for A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

Reviewed by
DMEA OPERATING COMMITTEE

7-20-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 3091, Anna C. Mine

Boulder County, Colo.

Tungsten

M. H. Salsbury, Mining Engineer
Bureau of Mines

May 29, 1953

Reviewed by
DMEA OPERATING COMMITTEE
7-20-53
(date)

ANNA C MINE

BOULDER COUNTY, COLORADO

JAMES L. MC BROOM

DMEA DOCKET 3021

Geologic Report

By E. N. Harshman
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE

7-20-53
(date)

ANNA C MINE
BOULDER COUNTY, COLORADO

INTRODUCTION

James L. McBroom, P. O. Box 184, Nederland, Colorado, has applied to the Defense Minerals Exploration Administration, DMEA Docket 3021, for assistance to explore for tungsten ore (ferberite) in the Anna C Mine. The applicant is lessee of the Anna C Lode claim and the Gold Coin Lode claim, U. S. Mineral Survey No. 18574, Grand Island mining district, Boulder County, Colorado. The claims are located about 1 1/3 miles (airline) northwest of Nederland, Colorado, in sec. 11, T. 1 S., R. 73 W., 6th P. M.

The applicant proposes to sink the Anna C inclined shaft, which is now 155 feet deep, an additional 66 feet, and to drift 80 feet north along the Anna C vein. The cost of the project is estimated to be $9,320.

The property was visited on May 20, 1953, in company with J. C. MacLachlan, U. S. Geological Survey, and M. H. Salsbury, U. S. Bureau of Mines. The shaft was flooded and no underground examination could be made; the application was discussed with the applicant.

There appears to be little chance that the requested exploration will discover significant tungsten ore and denial of the application is recommended.

GEOLOGY

The Anna C mine is located on the western edge of the main Boulder County tungsten district in an area of pre-Cambrian Idaho Springs schist, intruded by irregular bodies of pegmatite and Boulder Creek granite.

Figure 1, prepared by H. T. Schassberger of the U. S. Geological Survey, shows the geology of the 115-foot level of the mine, and the geology of the Anna C shaft above the 115-foot level. The Anna C vein occupies a shear zone which strikes about N. 5° E., and dips 60° E. The shear zone ranges from 2 to 5 feet in width and consists of broken and somewhat silicified, unmineralized wall rock. Ferberite and horn quartz are restricted in occurrence to a hanging wall and a footwall stringer which for the most part consist of clay gouge. The hanging wall stringer is the most persistent. When present in the shear zone, ferberite and horn quartz stringers rarely exceed 1 inch in width.

According to Schassberger, the deposition of ferberite and horn quartz was controlled to a large extent by the intersection of the Anna C vein and the Northeast vein. The Northeast vein was not observed underground but is exposed in the caved shaft 155 feet northeast of the Anna C shaft (fig. 1). Granite and pegmatite wall rocks appear more favorable to ore deposition than does schist.

PRODUCTION AND ORE RESERVES

No production figures are available for the Anna C mine, but it is probable that the total production has been less than 1,000 units of WO_3.

No estimates of ore reserves can be given for the Anna C mine.

CONCLUSIONS AND RECOMMENDATIONS

Exploration, development and mining in the Anna C mine have resulted in the production of some tungsten ore from small stopes on the 50-foot and 115-foot levels. An unknown amount of drifting, probably about 30 to 50 feet, has been done on the 155-foot level, but according to the applicant little or no ore was produced. The ore shoots exposed to date have been

short, narrow, and low grade, and from the geological point of view, there is no reason to believe that exploration at greater depths will expose more significant ore bodies.

The approximate location of the Anna C side line is shown on Figure 1. This common boundary between the Anna C claim on the north and the Sunset No. 2 claim on the south, not owned or controlled by the applicant, limits exploration to the block of ground north of the shaft. Furthermore, it appears that the south side line of the Anna C claim passes through the center of the shaft on the 155-foot level and any shaft deepening would involve work on the Sunset No. 2 claim, not controlled by the applicant.

For the above reasons it is recommended that the application for Government assistance, DMEA Docket 3021, be denied.

IMEA 3021

ANNA C. MINE
BOULDER COUNTY, COLO.

Engineering Report

By M. H. Salsbury
Mining Engineer
Bureau of Mines

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colo.
May 29, 1953

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: M. E. Salsbury

Subject: BMMA 3021 (Tungsten), James L. McBroom (Anna C. mine), Boulder County, Colo.

The subject application, BMMA 3021, was investigated by a Region IV examining team on May 20, 1953.

The applicant proposes to pump out and rehabilitate the Anna C. shaft, 155 feet deep, and accomplish 60 feet of shaft sinking and 80 feet of drifting, at an estimated cost of $9,320.00--Government participation, 75 percent or $6,990.00.

On the basis of available information on the property, the underground workings of which are flooded and inaccessible, denial of the application is recommended.

The applicant, James L. McBroom, has a lease on two patented claims--Anna C. and Gold Coin, survey number 18374--from the owner, O. B. Scott, Rye, Colo. The lease runs to March 30, 1956, with the privilege of a two-year extension. The owner has signified his willingness to sign a consent to lien.

The mine is situated 2 miles northwest of Nederland, Colo., in the Grand Island Mining District, sec. 11, T. 1 S., R. 73 W. (fig. 1). There are no surface improvements and the only usable shaft is flooded to within 30 feet of the collar.

The shaft is within a few feet of the south side line of the Anna C. claim, and McBroom does not have a lease on the adjoining Sunset claim although he thought he could get one. The veins strike north and south and the side lines of the claims run east and west, so the available length within the Anna C. claim for drifting on the vein does not exceed 300 feet, all north of the shaft.

In addition, according to a claim map which the applicant showed the examining team but which was not furnished with the application, the Anna C. shaft is so close to the side line of the property that an additional sinking operation on the inclination of the vein would possibly cross over into the Sunset claim unless the line of the shaft was changed, considered poor procedure in an incline shaft.

In 1951, a previous lessee of the property, C. N. Smith, made application for exploration assistance under docket EMA 2158. An examination was made by a Region IV examining team on November 26, 1951. Later, Smith withdrew his application and reports were not prepared. A rough draft was available, however, to the present examiners.

Smith proposed a somewhat more elaborate program than the present applicant, including a crosscut on the 115-foot level to cut the Sunset vein, estimated to be 75 feet in the hanging or east wall of the Anna C. vein. The present applicant does not consider the Sunset vein in his proposed exploration program.

The property has been known since before World War I, but no production is recorded before 1942 and that since was undoubtedly small and unverified.

There is the following record of production in 1942-43 by Harrison Cobb, a Boulder County operator:

Date	Dry pounds ore	Percent WO_3
November 24, 1942	7,720	7.74
January 9, 1943	2,100	14.10
January 27, 1943	379	40.10

C. M. Smith in 1951-52 produced seven shipments totaling 42,706 pounds which contained from 0.93 to 23.90 percent WO_3 and which returned $1,586.49. The ore was mined from old workings above the 115-foot level. There is an unconfirmed report of production at some earlier period from a pocket of high grade found in the north drift on the 155-foot level.

McBroom is a competent miner who has been engaged in tungsten mining in Boulder County for many years. His cost estimates in the application are reasonable.

All evidence on the property available to the examining team tends to confirm the facts that known ore occurrences on the property are meager and that the ore shoot north of the Anna C. shaft and above the 115-foot level was very small and erratic. Presumably, very little ore was found in similar work on the 155-foot level, reported to have encountered a heavy flow of water which discouraged further exploration.

There is no basis for assuming that deeper exploration would encounter any better or larger ore bodies or contribute to tungsten reserves materially.

In addition, the limited property rights would not permit exploration south of the shaft under a Government assisted project.

These facts are considered a sufficient reason to recommend denial of the application for Government assistance.

for R. L. Bolmer

M. H. Salsbury
Mining Engineer

MHS/amh

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

913

224 New Customhouse
Denver 2, Colorado

July 13, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration. Attention: 200

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 3028 (Uranium), La Florecita Mining Company, Wayne County, Utah.

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

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosures

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

224 New Customhouse
Denver 2, Colorado

July 13, 1953.

Mr. H. W. Allen, President
La Florecita Mining Company
1153 East 6th South
Salt Lake City 2, Utah

Re: Docket DMEA-3028

Dear Mr. Allen:

Reference is made to your application for Government aid on the La Florecita Exploration Tract.

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

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

Very truly yours,

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

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

HMC:cwm
cc: Administrator
ERGordon
RPFischer
SHWilson
AHKoschmann (2)
Subject
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

June 9, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3028, La Florecita Mining Company, Wayne County, Utah.

Enclosed are 11 copies of the geologic report by J. Fred Smith of the U. S. Geological Survey covering the above docket.

It has been recommended that the loan be denied.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (11)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colorado

June 5, 1953

Memorandum

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

From: R. P. Fischer
Colorado Plateau District office

Subject: DMEA Docket 3028, La Florecita Mining Co., Wayne County, Utah

Transmitted herewith are eleven copies of a geologic report on the La Florecita Exploration Tract, Wayne County, Utah. The La Florecita Mining Co. has applied for a loan to sink a 250-foot shaft to explore for uranium ore.

The attached report was prepared by J. Fred Smith and is based on detailed field work in this area in 1951 and 1952, in connection with mapping being conducted by the Geological Survey on behalf of AEC. Because of this work by the Survey, the AEC has made no detailed studies in this immediate area.

Because the Shinarump conglomerate, which contains the uranium deposits in this area, is more likely absent than present at the site of the proposed shaft, the report recommends that the application be denied. Furthermore, it is believed that the proposed shaft would be more appropriately considered development work than exploration.

Richard P. Fischer

Richard P. Fischer
Acting District Supervisor

Enclosures

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS MCKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM

REGION IV

DMEA 3028 (Uranium)

La Florecita Mining Co., Wayne County, Utah

By

J. Fred Smith
U. S. Geological Survey

June 5, 1953

DMEA DOCKET 3028 (Uranium)

LA FLORECITA MINING CO., WAYNE COUNTY, UTAH

INTRODUCTION AND SUMMARY

The La Florecita Mining Company of Salt Lake City, Utah, has applied (Docket 3028) to the Defense Minerals Exploration Administration for a loan to explore for uranium on the La Florecita Exploration Tract in the Capitol Reef National Monument. The application is for $12,643.18, 90 percent of the total cost of the project, and calls for sinking a 250-foot shaft to the ore horizon (the Shinarump conglomerate).

This report is prepared on the basis of geologic work done by the Geological Survey during 1951 and 1952 in the vicinity of the ground controlled by the applicant.

It is recommended that the application be denied for the following reasons: (1) in this immediate area the Shinarump lenses and might be missing at the site of the proposed shaft; and (2) although the Oyler mine contains mineralized rock 1,100 feet to the west, no geologic data indicate the presence of ore in the area of the proposed shaft. Furthermore, the proposed shaft might be more appropriately considered development work than exploration. With good core recovery, a diamond-drill hole would yield nearly as much information as the shaft and cost much less.

GEOLOGY

At the site of the proposed shaft the Chinle formation is exposed. It is underlain by the Shinarump conglomerate, or by the Moenkopi formation where the Shinarump is absent, and is overlain by the cliff-forming Wingate sandstone.

The Shinarump conglomerate (the ore-bearing formation) is lenticular and commonly absent in outcrops for about 3½ miles northwest and about 1½ miles south of the exploration site. This lensing indicates that at any single locality where the Shinarump horizon is covered by younger beds in this immediate area, the Shinarump beds may be lacking. (See enclosed sketch map.)

Because of the lenticularity of the Shinarump in this area, it may be missing below the site of the proposed shaft.

ORE DEPOSITS

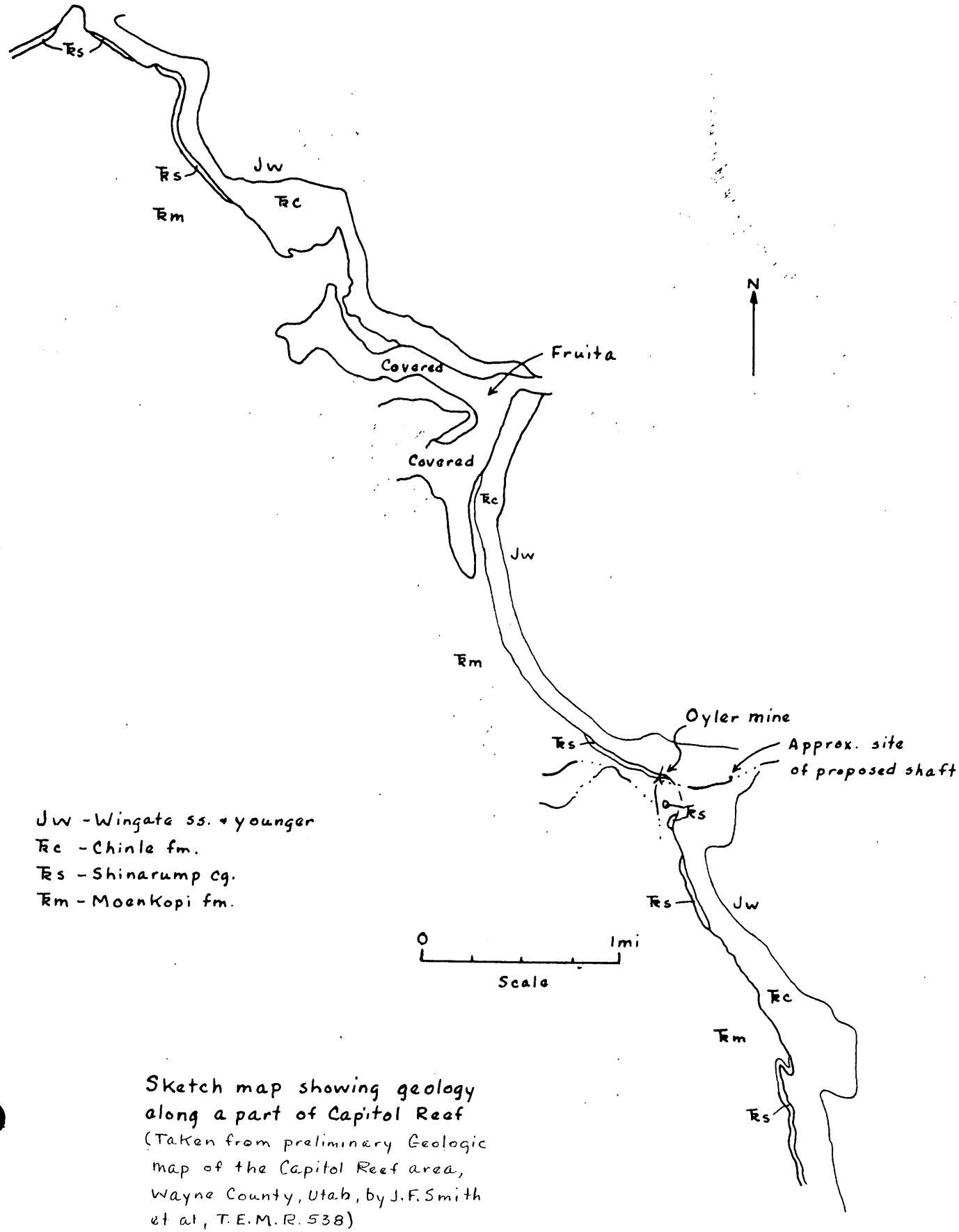
Most of the ore at the Oyler mine is in a clay layer, that averages about 1 foot in thickness, at the base of the Shinarump conglomerate. Sandstone overlying the clay is not mineralized. Spots in the upper 1 to 2 feet of the underlying Moenkopi formation are mineralized. The Shinarump sediments at the mine have filled a channel that was cut into the Moenkopi beds. The channel trends in a northerly direction.

On the Oyler Tunnel Tract south of the mine, slightly mineralized rock is exposed at several places along the Moenkopi-Shinarump contact. Meta-torbernite forms thin coatings chiefly along bedding planes in the upper siltstone of the Moenkopi and the basal clay of the Shinarump, but none of this rock is believed to be of minable grade in a minable thickness. On an isolated outcrop, one margin of a channel is exposed, and it probably is a southward extension of the Oyler channel. No channel-filling sediments have been observed elsewhere in the immediate vicinity.

CONCLUSIONS AND RECOMMENDATIONS

In the vicinity of the La Florecita Exploration Tract, the Shinarump conglomerate is known to contain uranium-bearing rock of ore grade only in the Oyler mine, where the ore is in the basal beds of the formation where it fills a channel cut into the underlying Moenkopi formation. It is assumed that such a geologic environment is the favorable one for uranium deposits in this area.

As the Shinarump is present along only a relatively small part of the outcrops in the area (see attached map), and as it forms channel fills along only a small part of the outcrops where the formation is present, the chance of the proposed shaft cutting an ore body is slight. For this reason, it is recommended that the application be denied. Furthermore, the proposed shaft might be more appropriately considered development work than exploration. With good core recovery, a diamond-drill hole would yield nearly as much information as the shaft and would cost much less.



Sketch map showing geology along a part of Capitol Reef
(Taken from preliminary Geologic map of the Capitol Reef area, Wayne County, Utah, by J. F. Smith et al, T. E. M. R. 538)

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Form Approved.
Defense Minerals Administration.
RECEIVED
MAY 5 1953

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. DMEA-3021
Metal or Mineral
Date Received 5/5/53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: James L. McBroom Anna C. Mine
Box 184
Nederland, Colo.

(*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 Anna C. Lode Book No. 18374 Grand Island, Boulder, Colorado
Gold Coin 18374 Grand Island Boulder Colo.

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

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

(*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 Tungsten

(*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 15 days and be completed within 8 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. 12 years - leasing + employed

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 April 15, 1953

James L. McBroom
(Applicant)

By

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. (a) Is under water now, but has a shaft sank approximately 140 feet with some stoping on the 80' level.
(B) We are enclosing Copies of settlement sheets
(C) Maps enclosed.
(d) 1 mile from Nederland, Colorado.

6. (a) Sinking shaft - 60 ft. @ $70.00 - - - - - - - - - - - - - - - - $4200.00
Drifting 80 ft. @ $40.00 - - - - - - - - - - - - $3200.00
Sump 6 ft. @ $70.00 - - - - - - - - - - - - - - $420.00

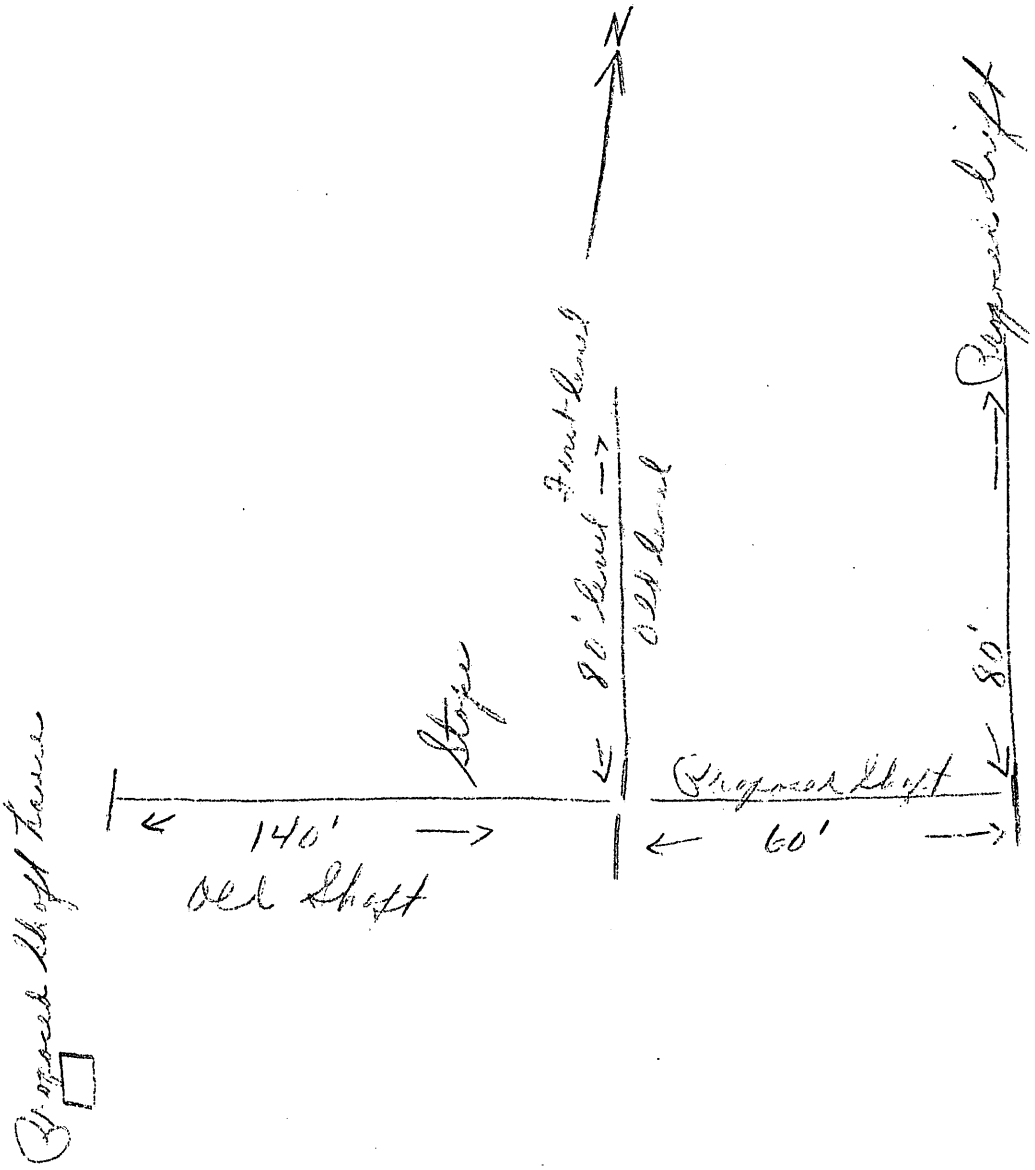
(e) Rehabilitation & Repairs to shaft, timbering - - - - - - - - - - $400.00
(f) Constructing shaft house & Change room - - - - - - - - - - - - $300.00
Head frame - $300.00
Electric Instulation from power line - - - - - - - - - - - - - - - - $500.00
Total $9,320.00

I will furnish all equipment for this Contract

7. (B) Under short Contract, will furnish & rent all equipment and Labor etc.

James L. McBroom
Box 184
Nederland, Colo.

Claim C



James L McBroom
Box 184
Nederland, Colo.

DMEA-3021

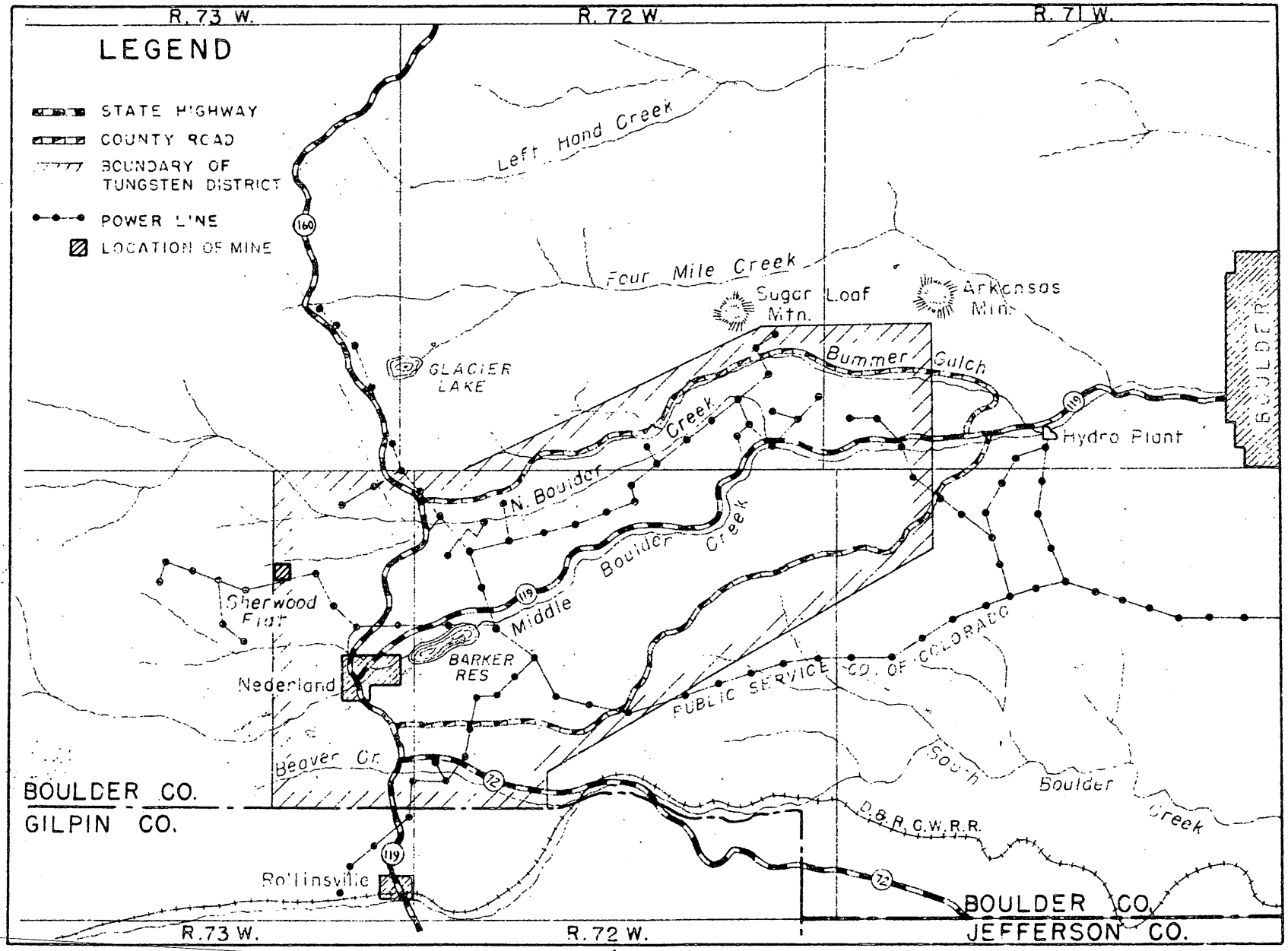


FIGURE 1. - LOCATION MAP OF THE ANNA C. MINE, BOULDER COUNTY, COLO. (DMEA 3021).

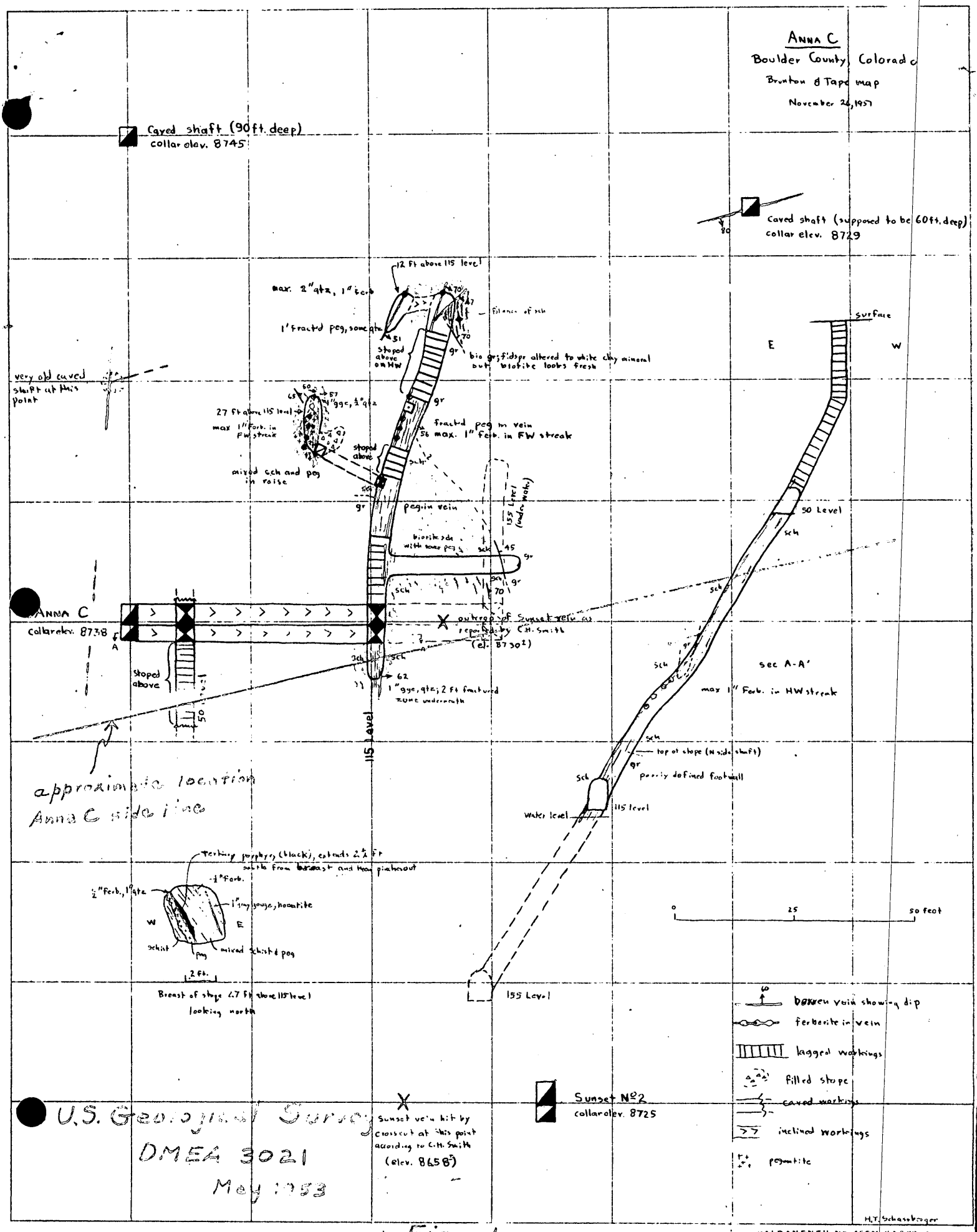

ANNA C
Boulder County, Colorado
Brunton & Tape map
November 26, 1957
Caved shaft (90 ft. deep)
collar elev. 8745
Caved shaft (supposed to be 60 ft. deep)
collar elev. 8729
12 ft above 115 level
max. 2" qtz, 1" ferb
1' fractd peg, some qtz
Stoped above on HW
filonic of sch
bio gr; feldspr altered to white clay mineral but biotite looks fresh
very old caved shaft at this point
27 ft above 115 level
max 1" ferb. in FW streak
1" gge, ½" qtz
fractd peg in vein
max. 1" ferb. in FW streak
stoped above
mixed sch and peg in raise
peg in vein
155 Level (under work)
biotite sch with some peg
surface
E
W
50 Level
ANNA C
collar elev. 8738
outcrop of Sunset vein as reported by C.H. Smith (el. 8730±)
Stoped above
50 Level
62
1" gge, qtz; 2 ft fractured zone underneath
115 Level
sec A-A'
max 1" Ferb. in HW streak
top of stope (N side shaft)
poorly defined footwall
115 level
water level
approximate location Anna C side line
Parting porphyry, (black), extends 2½ ft south from breast and then pinches out
½" ferb.
½" ferb., 1" qtz
1" gray gouge, hematite
W
E
schist
peg
mixed schist & peg
2 ft.
Breast of stope 27 ft above 115 level looking north
155 Level
0
25
50 feet
barren vein showing dip
ferberite in vein
lagged workings
filled stope
caved workings
inclined workings
pegmatite
Sunset No 2
collar elev. 8725
Sunset vein hit by crosscut at this point according to C.H. Smith (elev. 8658±)
U.S. Geological Survey
DMEA 3021
May 1953
H.T. Schassberger
"ALBANENE" NO. 1650M K&E CO., N.Y.

Fig. 1