Rubin
Hotlund

MF-200 (A)
(February 1952)

DOCKET No. DMEA 2782

COMMODITY Uranium

IDM-E 483

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 6 1953

EXPLORATION PROJECT CONTRACT[1]
(Short Form)

IT IS AGREED this 4th day of February, 1953, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Gold Bar Mines, Inc. A Colorado Corporation
J. R. Manning, President
1115 Main St.
Louisville, Colorado

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of Colorado, County of Clear Creek, described as follows:[3] A group of five mining claims, 3 patented and 2 unpatented, located in the Coral Mining District in Sec. 5, T.4S., R.73W. See Annex No. 1 attached.

the Operator represents and undertakes:[4]

(*a*) That the Operator is the owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached:

None

(*b*) ~~That the Operator is a lessee, in possession and entitled to possession, and the Owner's Consent to Lien is attached.~~ The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within 60 days from the date of this contract shall commence work on a project of exploration for[5] Uranium

in or upon the described land; and shall bring the project to completion within a period of Six months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay Ninety (90) percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $6984.00, which is 90 percent of $7760.00, the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided*, that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 8. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if, in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* _____

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

GOLD BAR MINES, INC.
(Operator)

By J. R. Manning

By W. S. King
Executive Officer, DMEA
Field Team, Region IV

I, Harvey W. Zook, certify that I am the secretary of the corporation named as Operator herein; that J.R. Manning who signed this contract on behalf of the Operator, was then president of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

Harvey W. Zook

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—66329-1

ANNEX NO. 1

The following patented mining claims:

Orton - U. S. Survey No. 7149
Bell - U. S. Survey No. 7149
Daisy Freese - U. S. Survey No. 16169

The following unpatented mining claims:

Claim Name	Book	Page
Martha E.	245	3
Elizabeth M.	245	1

Recorded in the County Clerk and Recorders Office of Clear Creek County, Colorado

EXHIBIT A

Description of the Work

STAGE I

The work consists of rehabilitating and clearing out the winze to the solid bottom and then sinking the winze an additional 35 feet. When this work has been completed, the operation will be stopped for re-appraisal by the DMEA Field Team representatives who will determine if additional work is desirable.

STAGE II

Upon written notice from the DMEA representatives authorizing Stage II, the following work will be authorized. The winze will be sunk an additional 50 feet, with not more than 20 feet of crosscuts into the hanging wall or footwall to test favorable areas.

The location of the winze is shown on Fig. 3 which is attached and made a part of Exhibit A.

Estimated Costs of the Work

STAGE I

Rehabilitating and cleaning out the existing winze to the solid bottom. 1/	$ 400.00
Sinking the winze 35 feet from the present bottom at $80.00 per foot	2800.00
Total STAGE I	$3200.00
Government Participation 90% Stage I	$2880.00

STAGE II

Sinking winze an additional 50 feet at $80.00 per foot	$4000.00
Crosscutting 20 feet at $28.00 per foot	560.00
Total STAGE II	$4560.00
Total STAGE I AND STAGE II	$7760.00
Government Participation 90% Stage I and Stage II	$6984.00

The above estimated costs include any and all costs incurred in the completion of the work.

1/ The entire work constitutes the unit of work.

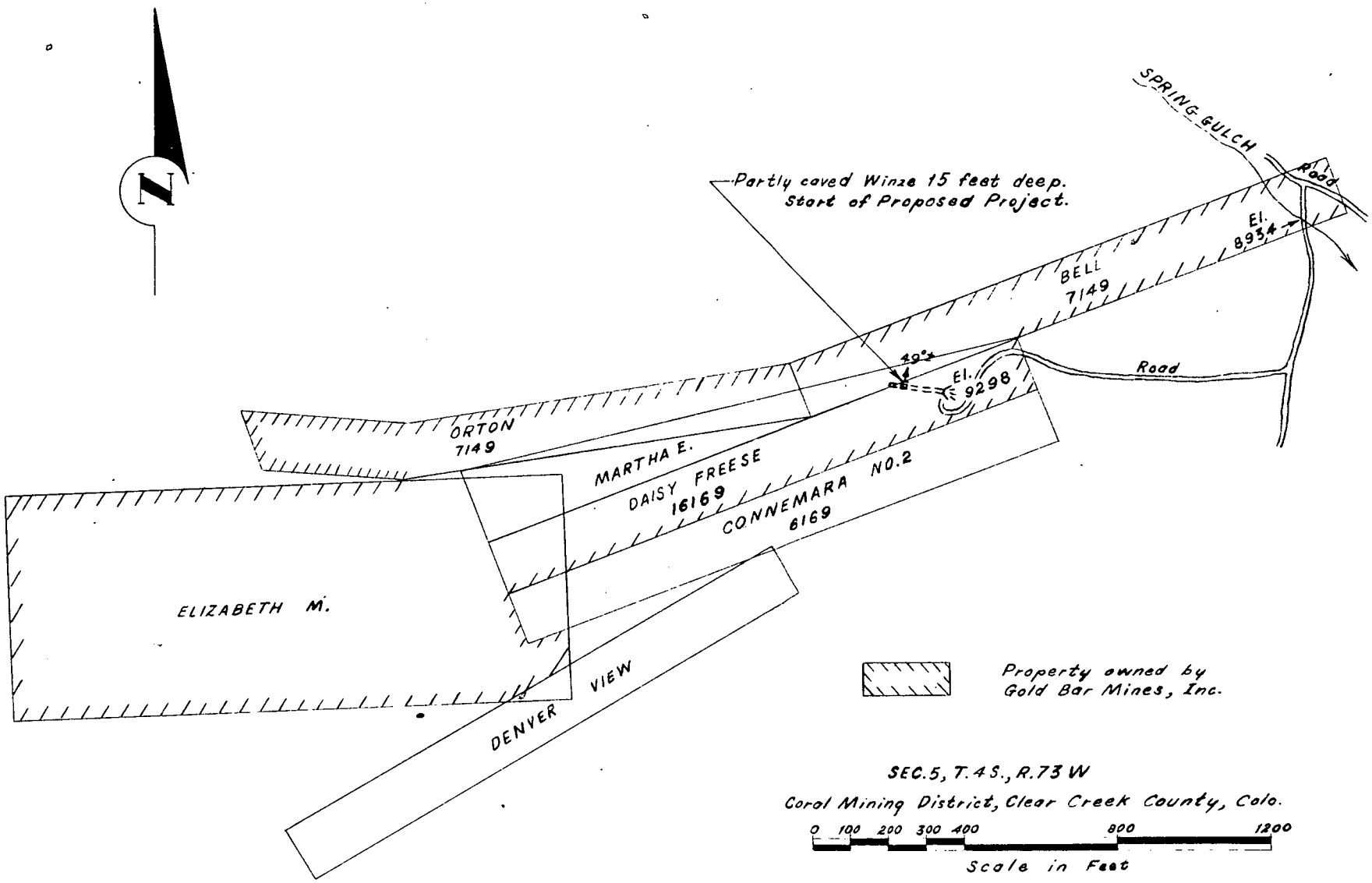

FIGURE 3 - GOLD BAR MINES INC., CLAIM AND PROJECT MAP, CLEAR CREEK CO., COLO. DMEA 2782

STANDARD FORM NO. 6

8/12/53 gla

Office Memorandum • UNITED STATES GOVERNMENT

Department of the Interior
Defense Minerals Administration
RECEIVED
AUG 11 1953

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

DATE: August 10, 1953

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

SUBJECT: Final Field Team reports, Docket 2782, (Uranium), Contract Idm-E483, Gold Bar Mines, Inc., contractor, Clear Creek County, Colorado. Martha E, sec. 5, T. 4 S., R. 73 W., Coral district, Clear Creek County, Colorado

I have reviewed the final geologic and engineering reports prepared as a result of the completion of the exploration contract on the property as identified in the subject above.

Comments

As a result of the exploration only 430 tons at .03% U_3O_8 of indicated reserves and 550 tons at .03% U_3O_8 of inferred reserves were found. As this material is of sub-marginal grade and there is no indication that higher grade material will be found at depth, the field team concludes that no certifiable discovery of ore was made.

Recommendations

I concur in the Field Team's conclusion.

Arthur P. Butler, Jr.

Copy to: E. Wm. Ellis - 2

IN REPLY REFER TO:

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

E. Wm. Ellis, DMEA Member
Uranium Commodity Committee

August 10, 1953

A. P. Butler, Jr., USGS Member
Uranium Commodity Committee

Final Field Team reports, Docket 2782, (Uranium), Contract Idm-E483, Gold Bar Mines, Inc., contractor, Clear Creek County, Colorado. Martha E, sec. 5, T. 4 S., R. 73 W., Coral district, Clear Creek County, Colorado

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Recommendations

I concur in the Field Team's conclusion.

Copy to: E. Wm. Ellis - 2

FILE COPY
SURNAME:

Docket.
F.E. Kyrouac
Ellis
Chambers

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

Mr. J. R. Manning, President
Gold Bar Mines, Inc.,
1115 Main St.
Louisville, Colorado

AUG 5 1953

Re: Docket No. [illegible]-2762 (Uranium)
Contract No. Idm-5h83
Five mining claims located in
the Coral Mining District,
Clear Creek County, Colorado

Dear Mr. Manning:

This is with reference to the subject Exploration Contract between you and the Government, dated February 4, 1953.

The final audit of the contract expenditures and the final reports of the Operator and of the Field Team have been received and accepted by this Administration. Of the total amount of $7,760.00 approved under the contract, the total sum was expended, 90 percent of which, or $6,984.00, represented the Government's share. There were no unused materials, supplies or equipment to be disposed of for the joint account of the Operator and the Government. The exploration work was completed in a satisfactory manner.

Because the results of the exploration were unfavorable, it is not our intention to make a certification of discovery or development which would create a lien against the subject property. We are, therefore, closing our books and records with respect to this project. Your attention is called, however, to Article 5(d) of the Contract which requires the Operator to "keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract".

Your interest in the Exploration Program of the Defense Minerals Exploration Administration and your willingness to participate therein are appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

FIKrouse/gla/db
8-4-53
cc to: Adm. Reading File
Operating Committee
Docket
Messrs. H. [illegible] Keiser, Ba. 3641
A.P. Butler, Jr., Ba. 3206, CBA
F.E. Johnson, Ba. 4624
J.L. Chambers, Ba. 4542
Ellis
Kouse

R.C.G. 8-5-53

7/31/53 gla
RL

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 31 1953

July 30, 1953

Memorandum

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

From: R. F. Griffith, Acting for, H. D. Keiser, Bureau of Mines
Member Uranium Commodity Committee

Subject: Final Report, Contract IDM-E483. DMEA Docket 2782 (Uranium)
Gold Bar Mines, Inc., Clear Creek County, Colorado

I have reviewed the subject contract reports and concur with the recommendation of the final Engineering Report and of the final Geologic Report in that no certification of discovery be made.

The reports have been forwarded to the Chief, Minerals Division, Bureau of Mines, in accord with the routing slip attached thereto.

R. F. Griffith

R. F. Griffith

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

Defense Minerals Administration
RECEIVED
JUL 31 1953

July 30, 1953

Memorandum

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

From: R. F. Griffith, Acting for, H. D. Keiser, Bureau of Mines
Member Uranium Commodity Committee

Subject: Final Report, Contract IEM-E483. DMEA Docket 2782 (Uranium)
Gold Bar Mines, Inc., Clear Creek County, Colorado

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The reports have been forwarded to the Chief, Minerals Division, Bureau of Mines, in accord with the routing slip attached thereto.

Signed

R. F. Griffith

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

Defense Minerals Administration
RECEIVED
JUL 31 1953

July 30, 1953

Memorandum

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

From: R. F. Griffith, Acting for, H. D. Keiser, Bureau of Mines
Member Uranium Commodity Committee

Subject: Final Report, Contract IBM-2483. DMEA Docket 2782 (Uranium)
Gold Bar Mines, Inc., Clear Creek County, Colorado

I have reviewed the subject contract reports and concur with the recommendation of the final Engineering Report and of the final Geologic Report in that no certification of discovery be made.

The reports have been forwarded to the Chief, Minerals Division, Bureau of Mines, in accord with the routing slip attached thereto.

Signed

R. F. Griffith

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

JUL 2 1953

224 New Customhouse
Denver 2, Colorado

July 21, 1953

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: DMEA Field Team, Region IV

Subject: Docket DMEA 2782, (Uranium) Contract IDM-E483, Gold Bar Mines, Inc., Clear Creek County, Colorado

Enclosed are the following final reports pertaining to work performed under the subject contract and the results thereof:

1. Original and one copy of the Operator's report.

2. Original and three copies of Final Geologic report by the Geological Survey.

3. Original and three copies of Final Engineering report by the Bureau of Mines.

The contract was prepared on Form MF-200(A) at an agreed unit cost. All units of work authorized were completed and funds fully expended. The operator has complied with the terms of the contract and final payment to him was processed in this office July 21, 1953.

The exploration work did not result in a discovery of commercial grade ore and exposures indicate that no further exploration work is justified. The exploration work did result in a small tonnage of sub-marginal grade ore. However, no certification of discovery is recommended.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
7-29-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Mining Division
Date Rec'd
JUL 7 - 1953
BUREAU OF MINES
Denver, Colorado

Building 20, Room B37
Denver Federal Center
Denver 14, Colorado
July 7, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 2782, Contract Idm-E483 (Uranium), Gold Bar Mines, Inc., (Martha E mine), Clear Creek County, Colorado

Please find enclosed the original and ten copies of W. L. Dare's final engineering report on the above docket.

Results of the exploration were negative, and a certification of discovery is not recommended, nor is any additional work with Government assistance.

W. M. Traver

W. M. Traver

enclosures
WMT:amh

cc: 10
E483
DMEA Chron.

Reviewed by
DMEA OPERATING COMMITTEE

7-29-53
(date)

7/7/53

To: ~~King~~ WHK

For: Townsend

Memo from Traver enclosing
11 copies of Dare's final
engineering report, DMEA 2782
E483, Gold Bar Mines, Inc.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

FINAL ENGINEERING REPORT

DMEA 2782, Exploration Project Contract Idm-E483

Gold Bar Mines, Inc., Martha E mine

Clear Creek County, Colo.

Uranium

W. L. Dare, Mining Engineer
Bureau of Mines

July 7, 1953

Reviewed by
DMEA OPERATING COMMITTEE

7-29-53
(date)

DMEA 2782
Contract Idm-E483

GOLD BAR MINES, INC.
MARTHA E MINE
CLEAR CREEK COUNTY, COLO.

CONTENTS

Final Engineering Report — Page

Summary and introduction 1
Location, history, production, ownership 2
Description of the deposit 3
Work completed under contract 4
Expenditures 6
Efficiency of operation 6
Equipment 6
Conclusions and recommendations 7

ILLUSTRATIONS

Figure — Follows Page

1. Location map, Elizabeth M. lode, Gold Bar Mines, Inc., Clear Creek County, Colo. 2
2. Gold Bar Mines, Inc., claim and project map, Clear Creek County, Colo. 2
3. Plan and section showing sample locations, Martha E mine, Clear Creek County, Colo. 7

DMEA 2782
Contract Idm-E483

GOLD BAR MINES, INC.
MARTHA E MINE
CLEAR CREEK COUNTY, COLO.

FINAL ENGINEERING REPORT

By

W. L. Dare

SUMMARY AND INTRODUCTION

On February 4, 1953, Gold Bar Mines, Inc., entered into an exploration contract with the Defense Minerals Exploration Administration. This contract, Idm-E483, provided Government assistance in exploring for uranium at the Martha E mine, Clear Creek County, Colo.

Under the terms of the short-form contract, the 14 feet of existing winze was cleaned out and rehabilitated, the winze sunk an additional 85 feet, and 20 feet of crosscut driven on the bottom, or 100-foot, level. The project work was started on February 4, 1953, and completed on April 29, 1953.

Additional crosscutting and drifting were accomplished at the expense of the operator after the completion of the contract footage.

Based on provisions of the short-form contract, the Government participated in the agreed estimated unit costs of $400.00 for rehabilitating the existing winze, $80.00 per foot of winze advance, and $28.00 per foot of crosscut advance. Total cost of the project amounted to $7,760.00, with Government participation $6,984.00.

All uranium mineralization exposed in ground opened up under the project has proven to be submarginal. The indicated reserves of submarginal 0.03 percent U_3O_8 are estimated as 430 tons, and inferred reserves of the same grade are estimated as 550 tons.

On the basis of the grade of the material exposed, certification of discovery is not recommended.

LOCATION, HISTORY, PRODUCTION, OWNERSHIP

The five mining claims owned by Gold Bar Mines, Inc., and listed in Annex No. 1 of the exploration contract are in sec. 5, T. 4 S., R. 73 W., Coral Mining District, Clear Creek County, Colo. (fig. 1).

The property is reached by traveling south from Idaho Springs on Colorado State Highway 103 for 0.5 mile, where a right turn is taken onto a graveled road that follows up Spring Gulch. This road is followed for about 3.3 miles, where a left split is followed for an additional 0.1 mile. At this point, a right turn is taken and followed approximately 0.3 mile to the mine.

The five claims (fig. 2) include the three patented claims, Orton - number 7149, Bell - number 7149, and Daisy Freese - number 16169, and the two unpatented claims, Martha E and Elizabeth M. The Orton and Bell claims were located by Orton Cook in August 1891. The Daisy Freese claim was located by Mary Jane Simmons, August 26, 1902. The Elizabeth M. claim was located October 16, 1950, and the Martha E claim September 3, 1948, and relocated October 28, 1950.

There is no record of any production from these claims; however, the present owners reported that good silver values were found by early miners in the now inaccessible lower adit. It is not known if this caved lower adit was driven on the same or some other structure than the present work.

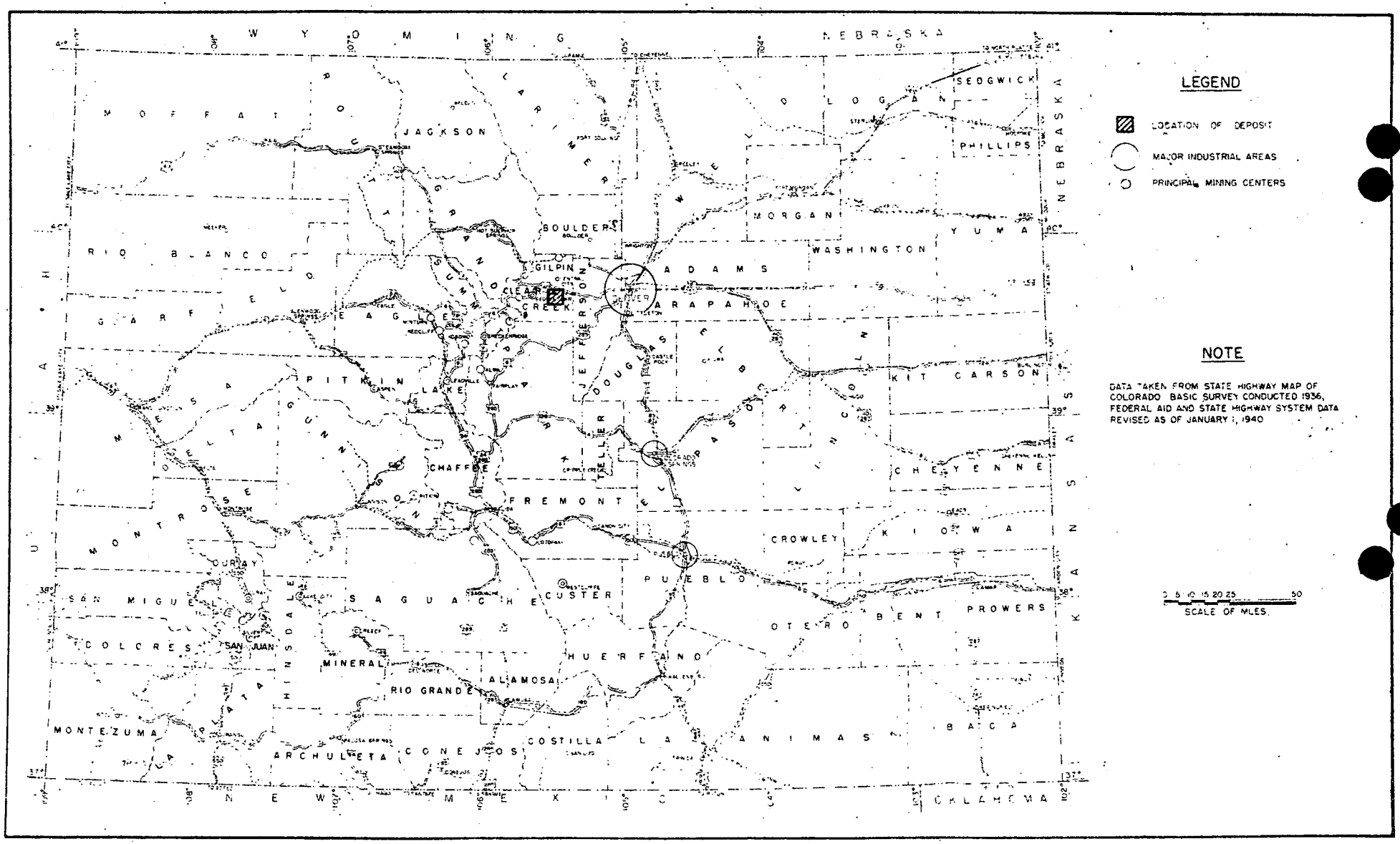


Figure 1 - Location map, Elizabeth M. lode, Gold Bar Mines, Inc., Clear Creek County, Colorado - DMEA 2782

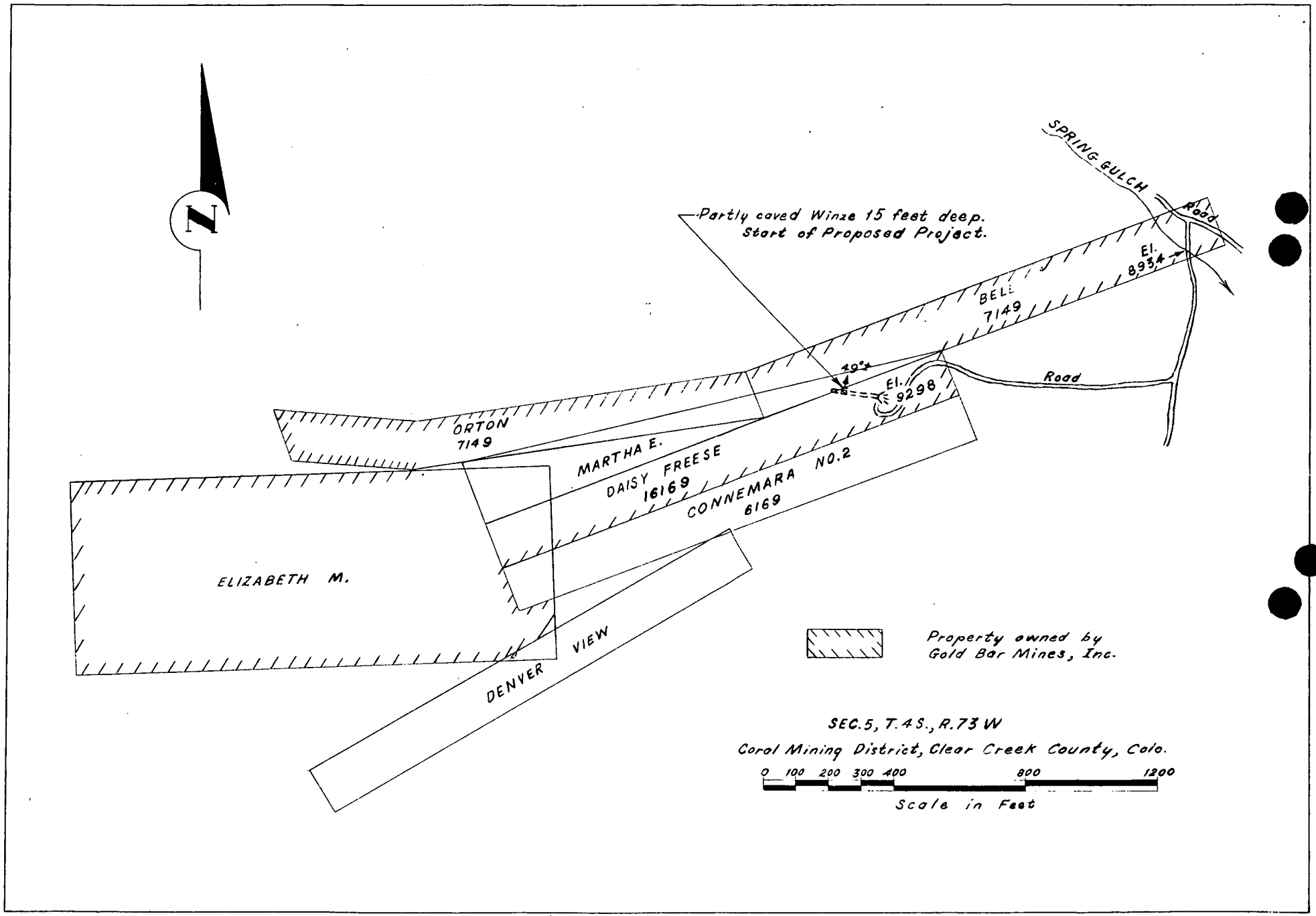


FIGURE 2 - GOLD BAR MINES INC., CLAIM AND PROJECT MAP, CLEAR CREEK CO., COLO. DMEA 2782

The adit from which the present work was accomplished was first opened by Stanley Mines, Inc., and later driven to its present length, 150 feet, by Gold Bar Mines, Inc., in 1949. In 1950, the owners discovered radio-active mineralization and brought it to the attention of the Geological Survey.

DESCRIPTION OF THE DEPOSIT

Uranium mineralization is confined to shears, small cross fractures, joints, and gouge, with slight dissemination in the more highly altered shattered wall rock, all within a shear zone. The shear zone varies from 3 to 20 feet wide and cuts the schist country rock with a general strike of about N. 80° W. with an average dip of about 46° northeast. Uranium mineralization exposed in the winze and bottom level consists of the secondary minerals, torbernite, autunite, and sooty pitchblende. Small, irregular veinlets carrying small amounts of quartz and pyrite are in evidence.

A total of 33 samples were cut in the winze and bottom level (fig. 3) by members of the Reconnaissance Group, Geological Survey. On the west side of the winze, samples were taken at 4-foot intervals and on the east wall at 8-foot intervals. On the bottom level, sampling had no regular pattern, but samples were taken at points where uranium mineralization appeared strongest. This would account for the slightly higher average of the U_3O_8 content for the 4 bottom level samples.

The weighted average of the U_3O_8 content for the 22 samples cut from the west wall of the winze is 0.036, and for the east wall the average is 0.022 percent. The 4 samples cut on the bottom level average 0.053 percent. The average U_3O_8 content for all samples is 0.033 percent.

It is evident from figure 3 that the best mineralization was in an area of from 10 to 17 feet from the collar on the west side of the winze. When the examining team sampled the then 14-foot winze, they found the best showing near the bottom. It was these higher values that caused speculation of possible enrichment in depth and resulted in the recommendations that a modified and limited exploration program be undertaken.

Mineralization has not improved in the additional 85 feet of winze. Other than one sample cut at about 47 feet from the collar, all material exposed is well below marginal value. In the last 30 feet of winze, mineralization is slight.

WORK COMPLETED UNDER CONTRACT

Work under stage I of the contract was started the day the contract was signed, February 4, 1953. In February, along with general preparatory work, the existing 14 feet of winze was cleaned out, straightened, and retimbered. Winze advance was claimed and verified as 13 feet. On March 17, the operator finished stage I of the project by sinking the winze another 22 feet to a total of 35 feet. Upon recommendations of field representatives, the operator was authorized to start stage II. The winze was advanced an additional 36 feet in March under stage II to bring the March advance to 58 feet and total advance to 71 feet.

In April, the operator continued to sink until the total contract footage, 85 feet, was completed.

The shear zone roughly coincides with the foliation of the schist, and, because it was considered possible that the zone might cover a wider area than exposed in the winze, the operator was authorized to commence crosscutting at the bottom of the winze as outlined in the contract.

In order to eliminate excessive timbering at the station, the operator first drifted west 17 feet on the 100-foot level. At the time of the last visit, May 5, 1953, he had completed 26 feet of crosscutting. Twenty-one feet was advanced into the footwall, and 5 feet of advance was made into the hanging wall. The faces of both crosscuts were in fresh, unaltered schist, so it is reasonably certain that the width of the zone in this immediate area has been determined. Although the operator drove 26 feet of crosscuts prior to the last visit, the Government participated in only the agreed unit costs of the allowable 20 feet. This crosscutting was completed on April 29, 1953.

After the contract work was finished, the operator advanced the 100-foot level drift another 23 feet, and advanced the hanging wall crosscut another 4 feet. This work was done at his expense. Members of the Reconnaissance Group, Geological Survey, visited the property after completion of this latter work and reported that no uranium mineralization was found, and no samples were taken.

Recapitulation of Contract Monthly Work Accomplishments

Month	Winze Footage	Crosscut Footage
February 1953 - rehabilitation of existing winze	13	
March 1953	58	
April 1953	14	20
Total winze footage	85	
Total crosscut footage		20

EXPENDITURES

Under the terms of contract Idm-E483, the Government participated in the cost of the program on the basis of agreed estimated unit costs.

Estimated Costs in which the Government Participated

Rehabilitation of existing winze	$ 400.00
Winze sinking - 85 feet at $80.00 per foot	6,800.00
Crosscutting - 20 feet at $28.00 per foot	560.00
	$7,760.00
Government participation - 90 percent	$6,984.00

EFFICIENCY OF OPERATION

Good progress was made under the contract, as the contract footage was completed in less than 3 months. Harvey W. Zook, who is the secretary for the company, was also acting foreman on the project. Although it is understood that Zook's mining experience is limited, he is conscientious and hard working. He pressed his crew hard, and, at one time, the morning of April 2, 1953, they all quit. In a few days he hired another crew that finished the project.

The work was completed satisfactorily, and, with the equipment on hand, the operation was considered efficient.

EQUIPMENT

Equipment used on the project consisted of a 240-c.f.m. Ingersoll-Rand compressor with Waukesha drive, two 1-ton and two 3/4-ton mine cars, one Thor jackhammer, one rock drill and pusher, and one Ingersoll-Rand utility air hoist.

The compressor proved adequate for the needs of the machines and hoist. When drifting and crosscutting on the bottom level, the muck was hand loaded into a wheelbarrow for transporting to the skip. The skip was about 1/2-ton capacity, mounted on wheels, and hoisted or lowered on 20-pound rail in the winze.

The operator used electric lighting underground, the current supplied by a small generator with gasoline drive.

CONCLUSIONS AND RECOMMENDATIONS

On April 6, 1953, Harvey W. Zook, in behalf of Gold Bar Mines, Inc., requested an extension of funds for additional Government assistance to allow for 200 feet of drifting on the bottom winze level. Because the material exposed in the ground opened up to date has proven to be submarginal, with no indication that higher uranium values can be expected either in depth or by advancing the 100-foot level westward, the request was denied.

The indicated reserves of submarginal 0.03 percent U_3O_8 are estimated at 430 tons and inferred reserves of the same grade are estimated at 550 tons.

On the basis of the grade of the material exposed, certification of discovery is not recommended. Additional exploration with Government assistance is not considered warranted.

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

200 New Customhouse
Denver 2, Colorado

June 17, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2782, Gold Bar Mines, Inc., Martha E Mine, Clear Creek County, Colorado.

Attached are 10 copies of the final geologic report by D. R. MacLaren covering DMEA Docket 2782. He concludes that no ore has been discovered and recommends that no discovery be certified.

I concur in this recommendation.

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

Enclosures (10)

Reviewed by
DMEA OPERATING COMMITTEE

(date)

DEPARTMENT OF THE INTERIOR
Bureau of Land Management
RECEIVED
JUL 2 1983

GOLD BAR MINES, INC.

MARTHA E MINE

CLEAR CREEK COUNTY, COLORADO

DMEA DOCKET 2782

Final Geologic Report

By D. R. MacLaren
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE

(date)

GOLD BAR MINES, INC.
CLEAR CREEK COUNTY, COLORADO

Exploration on the Martha E claim of the Gold Bar Mines, Inc., which was provided for in DMEA Contract Idm-E483, has been completed.

A winze 100 feet deep followed a shear zone 3 to 20 feet wide that contained metatorbernite, autunite, and sooty pitchblende as irregular patches and flakes in clay gouge and as irregular coatings along joints across the main shear planes. There are at least 3 footwall splits from a quartz-pyrite vein that is fairly continuous along the back of the winze. Jack E. Harrison of the U. S. Geological Survey sampled the east wall of the winze at eight foot intervals and the west wall every four feet. Except for one sample from the west wall that assayed .153% U_3O_8 over a width of 25 inches, all assays were well below ore grade. The average grade of 11 samples taken from the east wall is .023% U_3O_8 and the average of 22 samples taken from the west wall is .036% U_3O_8. If the one "high" assay from the west wall is disregarded as being erratic, the average for that wall is .026% U_3O_8.

Whether or not better grade material can be expected at or near the lower limit of the zone of oxidation cannot be estimated, as there is a complete lack of information on secondary uranium deposits in this area. The average grade of the first ten samples taken below the collar of the winze is .037% U_3O_8, and that of the last ten above the bottom of the winze is .032% U_3O_8.

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that no ore has been discovered; that there is no improvement in the uranium content in the 100 feet that the winze has been sunk; and that there is no justification to explore this vein further, except scientific information. Therefore, it is recommended that no further exploration be done on this property, and that no discovery be certified.

Gold Bar Mines, Inc.
P O Box 577
Idaho Springs, Colo.

Mining Division
Date Rec'd
JUN 15 1953

June 12th, 1953.

BUREAU OF MINES
Denver, Colorado

Mr. W. H. King,
Executive Officer DMEA,
Field Team , Region IV,
224 New Customhouse
Denver 2, Colo.

Re. Docket No. DMEA-2782
Contract Idm - E483

Dear Mr. King:

As a final report on the exploration work performed on the above Contract, we submit the following:

Stage I - The winze was cleared out and timbered; reset head frame and sheave; installed track in winze; mounted ore skip; set receiver tank and safety valve. Rehabilitation Cost $400.00
Sunk winze 35 feet @ $80.00 per unit 2,800.00

$ 3,200.00
Government Participation 90%, St I $ 2,880.00

Stage II - Sunk winze additional 50 feet @ $80.00 per unit 4,000.00
20 feet crosscutting @ 28.00 pr unit 560.00

4560.00
Total Stage I and Stage II 7,760.00
Government participation Stage I & II 6,984.00

Winze was timbered, manway was lagged, ladders were set with landings at 15 foot intervals; two radio-active veins were encountered in crosscutting, but were not of commercial value.

Respectfully submitted,
Gold Bar Mines, Inc.

By Harvey W. Zook
Harvey W. Zook, Secretary.

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

224 New Customhouse
Denver 2, Colorado

June 9, 1953

Mr. Harvey W. Zook, Secretary
Gold Bar Mines, Inc.
Idaho Springs, Colorado

Re: Docket No. DMEA-2782
Contract Idm-E483

Dear Mr. Zook:

Reference is made to your letter of April 6, 1953, and supplemental of April 9, 1953, requesting authorization of additional work and additional funds under Contract Idm-E483.

Examination of the exposures resulting from the work performed to date indicates that a significant discovery would not result from the additional work that you have requested, therefore your request is denied.

Receipt is acknowledged of your Form MF-104, Operator's Monthly Report and Voucher for the month of April 1953, which will constitute your final claim under the terms of the contract.

Reimbursement to you for the amount of the Government's participation in the costs of the work performed will be deferred until your final narrative report is received. In this matter you are referred to Article "5 (b), (c) and (d)" of Exploration Project Contract Form MF-200(A).

Very truly yours,

for John T. Shaw
W. H. King

A. H. Koschmann
A. H. Koschmann

Field Team, Region IV

JWT:jp
cc Contract
Chron
WMTraver
AHKoschmann
JWTownsend
Sec. to Oper. Committee

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 25 1953

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

DATE: February 24, 1953

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

SUBJECT: Final Report, DMEA Docket 2782 (Uranium), Gold Bar Mines, Inc. (Elizabeth M. lode), Coral Mining District, Clear Creek County, Colorado.

I concur with the recommendations of the Field Team that Government exploration assistance to be granted in the Government's proportionate share of a total cost of $8,397.50 for exploration as described in the report on the property as identified in the subject above.

Arthur P. Butler, Jr.
Arthur P. Butler, Jr.

Copy to: E. Wm. Ellis (2)

IN REPLY REFER TO:

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

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

February 24, 1953

Final Report, DMEA Docket 2782 (Uranium), Gold Bar Mines, Inc. (Elizabeth M. lode), Coral Mining District, Clear Creek County, Colorado.

I concur with the recommendations of the Field Team that Government exploration assistance to be granted in the Government's proportionate share of a total cost of $8,397.50 for exploration as described in the report on the property as identified in the subject above.

Arthur P. Butler, Jr.

Copy to: E. Wm. Ellis (2)

GOLD BAR MINES, INC.

CLEAR CREEK COUNTY, COLORADO

DMEA DOCKET 2702

Geologic Report

By D. R. MacLaren
U. S. Geological Survey

GOLD BAR MINES, INC.
CLEAR CREEK COUNTY, COLORADO

INTRODUCTION

Gold Bar Mines, Inc., of Louisville, Colorado, has applied to the Defense Minerals Exploration Administration for assistance to explore for uranium in Spring Gulch, Clear Creek County, Colorado. The property, located 3½ miles southwest of Idaho Springs in sec. 5, T. 4 S., R. 73 W., is easily accessible throughout the year.

No specific exploration program was presented with the application, but Harvey W. Zook, Secretary-Treasurer of the corporation, who will also supervise the exploration, stated that the proposal is to deepen a winze, now about 15 feet deep, to a depth of 450 feet along the plane of the vein, or to the bottom of the radioactive zone should that be reached first; and to drift 300 feet along the vein from the bottom of the winze. The applicant estimates that the cost of this project will be $25,000, the Government's share to be $22,500. The property was examined on December 4, 1952, in the company of Mr. Harvey Zook.

In November, 1950, F. B. Moore and E. N. Hinrichs of the U. S. Geol. Survey mapped the adit and sampled the vein, and T. J. Botinelli of the Survey identified the radioactive minerals as metatorbernite, autunite, and sooty pitchblende(?). In July and August, 1951, Jack E. Harrison of the Survey made a detailed geologic map of the surface on behalf of the Atomic Energy Commission. The data compiled by these geologists has been made available to the examining team. Engineers of the AEC have visited the property, but the AEC does not contemplate any work there at the present time.

Although it is concluded that the chances of making a significant discovery of uranium are less than fair and do not warrant the program proposed by the applicant, some exploration should be done to follow up the showing of .14% U_3O_8 in the winze. It is, therefore, recommended that approval be given for a modified program that will allow for sinking the winze 100 feet and driving 20 feet of crosscut. It is recommended that the contract state that after a depth of 50 feet has been reached, no further work be done until a re-evaluation of the project has been made.

GEOLOGY

The rocks in the area are gneiss (Idaho Springs formation), granite, and pegmatite of pre-Cambrian age, intruded by bostonite dikes in Tertiary times. The general trend of the rock units and foliation is northeast with prevailing northwesterly dips. A zone of shearing that strikes about N. 62° W., and dips 48°-50° NE., has been mineralized by small quartz stringers and "veins," up to 8 inches thick, composed mostly of gouge with scattered radioactive minerals. An adit has been driven 150 feet along a mineralized shear. About 135 feet from the portal of the adit, a winze has followed a gouge filled "vein" to a depth of 15 feet. Metatorbernite, autunite, and sooty pitchblende(?) occur as disseminated flakes along planes of foliation in the schist bordering the shear zone, as irregular patches and flakes in the gouge, and as irregular coatings along joint surfaces. In the winze radioactive minerals have been found in the schist as much as 2 feet away from a 1 inch quartz-pyrite vein. In 1950, F. B. Moore and E. N. Hinrichs took 8 samples from the adit and winze (fig. 2). The assays were:

Sample No.	Location of sample	Width	% U_3O_8
1	Vein, back of adit, east side of winze	1.0'	.016
2	FW, back of adit, east side of winze	1.0'	.015
3	HW, back of adit, center of winze	1.0'	.014
4	Vein, back of adit, center of winze	1.0'	.023
5	Vein, back of adit, 2 ft. west of winze	1.0'	.025
6	Vein, back of adit, 2 ft. west of winze	1.0'	.003
7	Vein, floor of adit, in winze, 2 ft. west of center	1.0'	.142
8	Vein, bottom of winze, west wall	1.0'	.142
9	FW, bottom of winze, west wall	0.6'	.039

Considering that the adit has been driven in well weathered rock and that the preponderance of the radioactive minerals are secondary, these assays are not necessarily too low grade to be of further interest. As water is reported to stand in the winze almost to adit level throughout the year, the highly weathered zone is probably not very deep.

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that the probability of making a significant discovery of uranium is less than fair, and that the proposal stated verbally by the applicant is not justified. However, because of the considerable amount of secondary metatorbernite and autunite seen in the gouge and the adjacent walls, and because of the probable high water table, it is concluded that a limited amount of exploration work is justified to determine whether or not hard pitchblende of mineable grade underlies the low grade secondary minerals. It is, therefore, recommended that the applicant be given assistance to sink the winze to a depth of 100 feet, and to crosscut 30 feet. It is also recommended that after the winze has reached a depth of 50 feet, no further work be done until a re-examination and re-evaluation of the project be made.

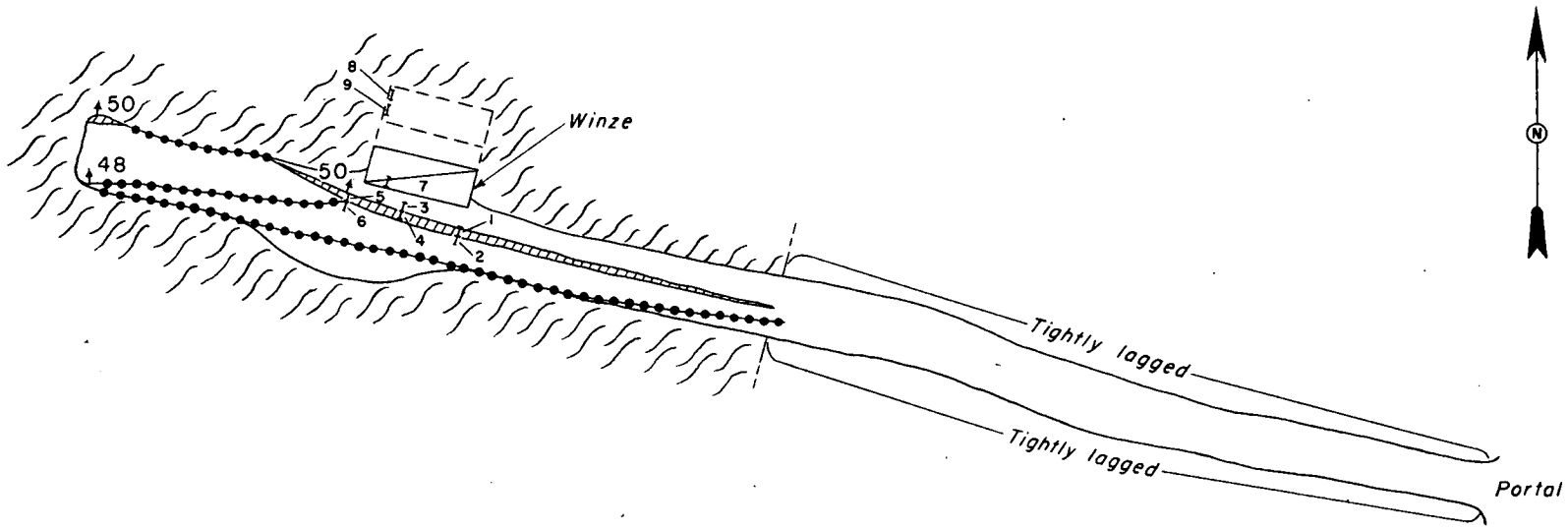
REFERENCES

Harrison, Jack E., The uranium occurrences in the Martha G. prospect, near Idaho Springs, Colorado: U. S. Geol. Survey, Trace Elements Memorandum Report 201, 1952.

Moore, F. B., Geologic map of the Martha G. adit, Clear Creek County, Colorado.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA Docket No. 2782



Sample No.	Width	% U_3O_8
1	1.0	.016
2	1.0	.015
3	1.0	.014
4	1.0	.023
5	1.0	.025
6	1.0	.003
7	1.0	.142
8	1.0	.142
9	0.6	.039

EXPLANATION

Idaho Springs schist

48
Vein showing dip

I 5
Location and number of samples

TRACE ELEMENTS MEMORANDUM 291
F. B. Moore, 1950

Reduced By D.R. Mac Laren
December, 1952

FIG. 2

GOLD BAR MINES INCORPORATED, CLEAR CREEK COUNTY, COLORADO

GEOLOGIC MAP OF MARTHA E ADIT

20 0 20 Feet

DMEA 2782

GOLD BAR MINES, INC.
ELIZABETH M. LODE
CORAL MINING DISTRICT
CLEAR CREEK COUNTY, COLORADO

Engineering Report

By C. M. Harper
Mining Engineer
Bureau of Mines

DMEA 2782

GOLD BAR MINES, INC.
ELIZABETH M. LODE
OGRAL MINING DISTRICT
CLEAR CREEK COUNTY, COLORADO

CONTENTS

Engineering Report	Page
Introduction	1
Acknowledgments	1
Location, topography, and physical features	2
History and production	2
Ownership and extent	3
Description of the deposit	3
Ore reserves	4
Present status	5
Exploration and development	5
Mining and milling equipment	5
Project proposals, with costs	6
Conclusions	10
Recommendations	11

ILLUSTRATIONS

Figure	Follows Page
1. Location map, Elizabeth M. lode, Gold Bar Mines, Inc., Clear Creek County, Colorado	2
2. Gold Bar Mines, Inc., Clear Creek County, Colorado, geologic map of Martha E. adit	*
3. Gold Bar Mines, Inc., claim and project map, Clear Creek County, Colorado	5

* See figure following Geologic Report

DMEA 2782

GOLD BAR MINES, INC.
ELIZABETH M. LODE
CORAL MINING DISTRICT
CLEAR CREEK COUNTY, COLORADO

ENGINEERING REPORT

By

C. M. Harrer

INTRODUCTION

Gold Bar Mines, Inc., a Colorado corporation, whose mailing address is 1115 Main Street, Louisville, Colo., has applied for a Defense Minerals Exploration Administration loan of $25,000.00 to explore a zone of uranium mineralization on the Daisy Freese claim with about 450 feet of winze and by drifting on encouraging concentrations of uranium for about 300 feet or to the limit of funds.

The property was examined in detail by members of the U. S. Geological Survey during 1950-51 and the results are combined in Trace Elements Memorandum Report 291, by J. E. Harrison, entitled, "The Uranium Occurrences in the Martha E. Prospect, near Idaho Springs, Colo."

The property was examined by D. R. MacLaren, of the U. S. Geological Survey, for the Defense Minerals Exploration Administration on December 4, 1952, accompanied by Harvey W. Zook, secretary of Gold Bar Mines, Inc. The property was visited by C. M. Harrer, of the Bureau of Mines, and Harvey W. Zook on December 30, 1952.

ACKNOWLEDGMENTS

Jack E. Harrison, geologist for the U. S. Geological Survey, made the results of prior investigations and his own work available to the examining team. Harvey W. Zook, as company representative,

cooperated fully with all information at his disposal.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

Property of the Gold Bar Mines, Inc., is in the Coral Mining District, Clear Creek County, Colo. (fig. 1), in sec. 5, T. 4 S., R. 73 W., at an altitude of about 9,300 feet. The claims extend southeasterly from Spring Gulch. The portal of the Daisy Freeze (Martha E.) adit is 3.5 miles southeast of Idaho Springs on a well-maintained county road and is accessible throughout the year. Water is available from the mine workings and from Spring Creek. Supplies are readily obtainable at nearby Idaho Springs and Denver.

HISTORY AND PRODUCTION

The Orton and Bell claims were located by Orton Cook during August 1891 and surveyed for patent on September 22, 1891. The Daisy Freeze claim was located by Mary Jane Simmons, August 26, 1902, and surveyed for patent September 23, 1902. The Elizabeth M. lode was discovered and located October 16, 1950. The Martha E. lode was discovered September 3, 1948, and relocated October 24, 1950, to include unpatented fractions.

There has been no production from these claims. The property was first prospected by Stanley Mines. The adit started by Stanley Mines was completed by Gold Bar Mines, Inc., during 1949.

Radioactive mineralization was first called to the attention of the U. S. Geological Survey in 1950 by the owners. During

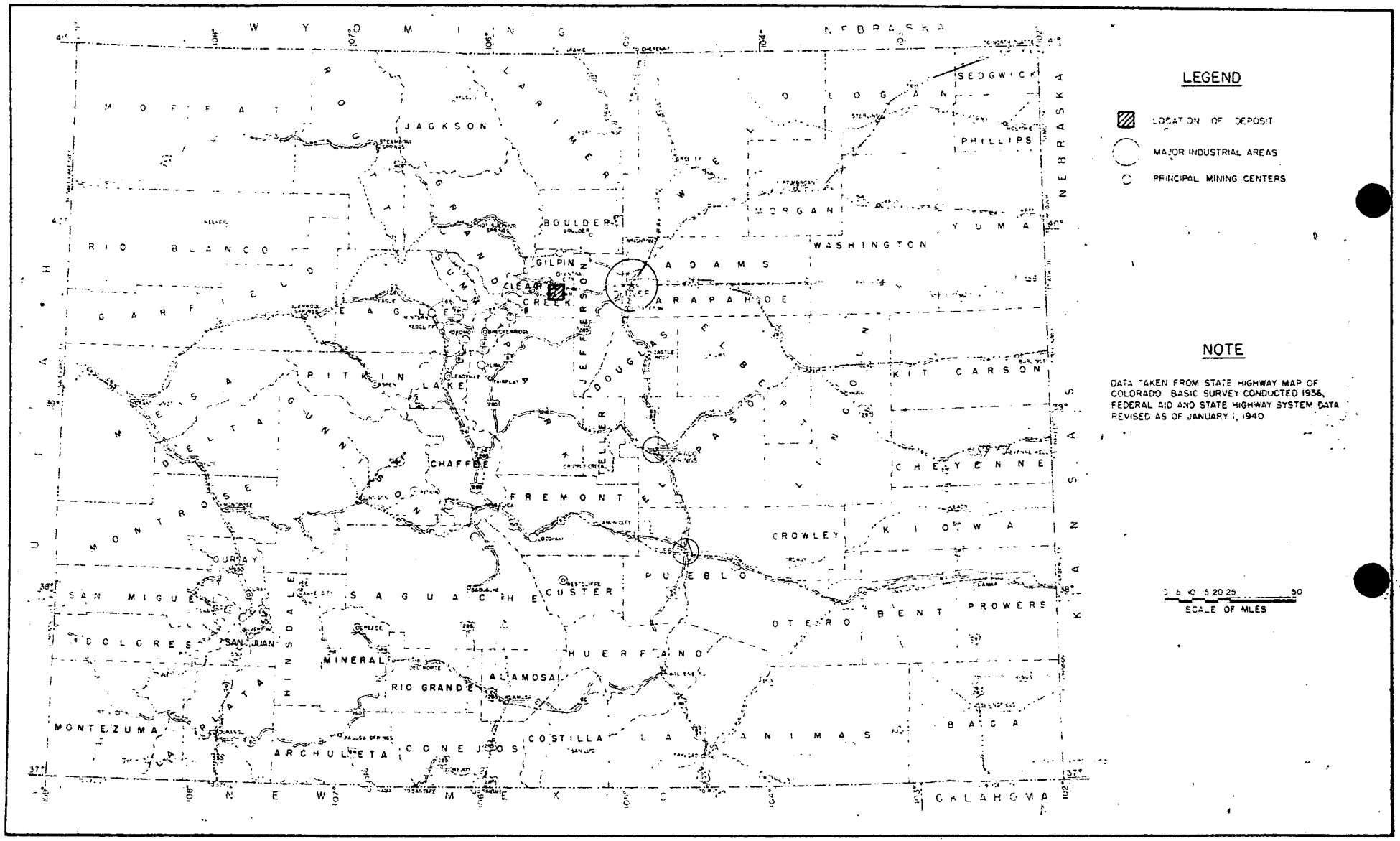


Figure 1 - Location map, Elizabeth M. lode, Gold Bar Mines, Inc., Clear Creek County, Colorado - DMEA 2782

November 1950, F. B. Moore and E. N. Hinrichs mapped and sampled the adit. During July and August 1951, Jack E. Harrison made a detailed geologic survey of uranium mineralization on the property for the Atomic Energy Commission. The results are included in Trace Elements Memorandum Report 291, "The Uranium Occurrences in the Martha E. Prospect, near Idaho Springs, Colo."

OWNERSHIP AND EXTENT

Gold Bar Mines, Inc., mailing address 1115 Main Street, Louisville, Colo., is incorporated under the laws of Colorado. J. R. Manning, of Louisville, is president. Harvey W. Zook, of Idaho Springs, Colo., is secretary. The company controls five mining claims, shown on figure 3. Three are patented as the Orton and Bell claims, survey number 7149, and the Daisy Freese claim, survey number 16169. Mineral rights are held on the Martha E. and Elizabeth M. claims by location. All claims are grouped in the Coral Mining District, sec. 5, T. 4 S., R. 73 W., Clear Creek County, Colo.

DESCRIPTION OF THE DEPOSIT 1/

A prominent shear zone, striking N. 82° W., with dips of 48° to 50° northeast, has been explored by 152 feet of adit along the strike and by a 15-foot winze (fig. 2 with geologic report). The closely parallel shears contain gouge up to 8 inches thick.

1/ Harrison, Jack E., The uranium occurrences in the Martha E. prospect, near Idaho Springs, Colo.: U. S. Geol. Survey Trace Elements Memorandum Report 291, 1950.

The uranium minerals metatorbernite, autunite, and small amounts of sooty pitchblende occur as irregular patches and flakes in the gouge of the shear zone and along foliation planes in the migmatite and schist bordering the shears. They are also present as thin coatings along joint surfaces.

Radioactive mineralization was noted as much as 2 feet within the wall rock, bordering a quartz-pyrite veinlet in the winze about 135 feet in from the portal.

During November 1950, F. B. Moore and E. N. Hinrichs, of the U. S. Geological Survey, mapped the 152-foot adit and took nine samples from the shear zone and walls, both on the adit level and at the bottom of the 15-feet winze. Six samples taken over 1-foot widths on the adit level, above the winze, assayed 0.02 percent U_3O_8 or less. Two samples which were taken across the 1-foot vein in the winze, one at the collar and one at the bottom, assayed 0.14 percent U_3O_8. A sample from the footwall outside the vein at the bottom of the winze assayed 0.04 percent U_3O_8 over 0.6 foot.

ORE RESERVES

There are insufficient data on which to base reserves of uranium ore of strategic value; J. E. Harrison,[2] however, has estimated totally inferred reserves in a block 100 feet by 100 feet by 4 feet as 3,350 tons, assaying 0.018 percent U_3O_8.

2/ See footnote 1.

PRESENT STATUS

Exploration and Development

Exploration is limited to a 152-foot adit along the strike of a shear structure on the Daisy Fraese claim and 15 feet of winze located about 135 feet in from its portal. The adit was entirely accessible when visited. The winze is partly caved and filled with muck. The exploration work is shown on figure 3 and also on figure 2 accompanying the geologic report.

Mining and Milling Equipment

The Gold Bar Mines, Inc., surface plant consists of two frame buildings which house the air compressor and supply and maintenance tools.

The adit is equipped with 8-pound track from the dump trestle to the winze. One hundred feet of 2-inch air line is installed in the adit. A timber headframe at the head of the winze is in good condition and mounts an air-operated tugger hoist and sheave.

The property has a complete supply of small tools, extra pipe, and rail.

The following equipment on the property will be used and is valued as follows:

Equipment	Valuation
1 240 c.f.m. Ingersoll-Rand air compressor, serial number PPS-7547, and Waukesha motor drive, serial number 72377, skid mounted	$ 1,470.00
1 Thor jackhammer, model 38, with drifter mount, 5-foot jackbar, water pressure tank, and hoses	385.00

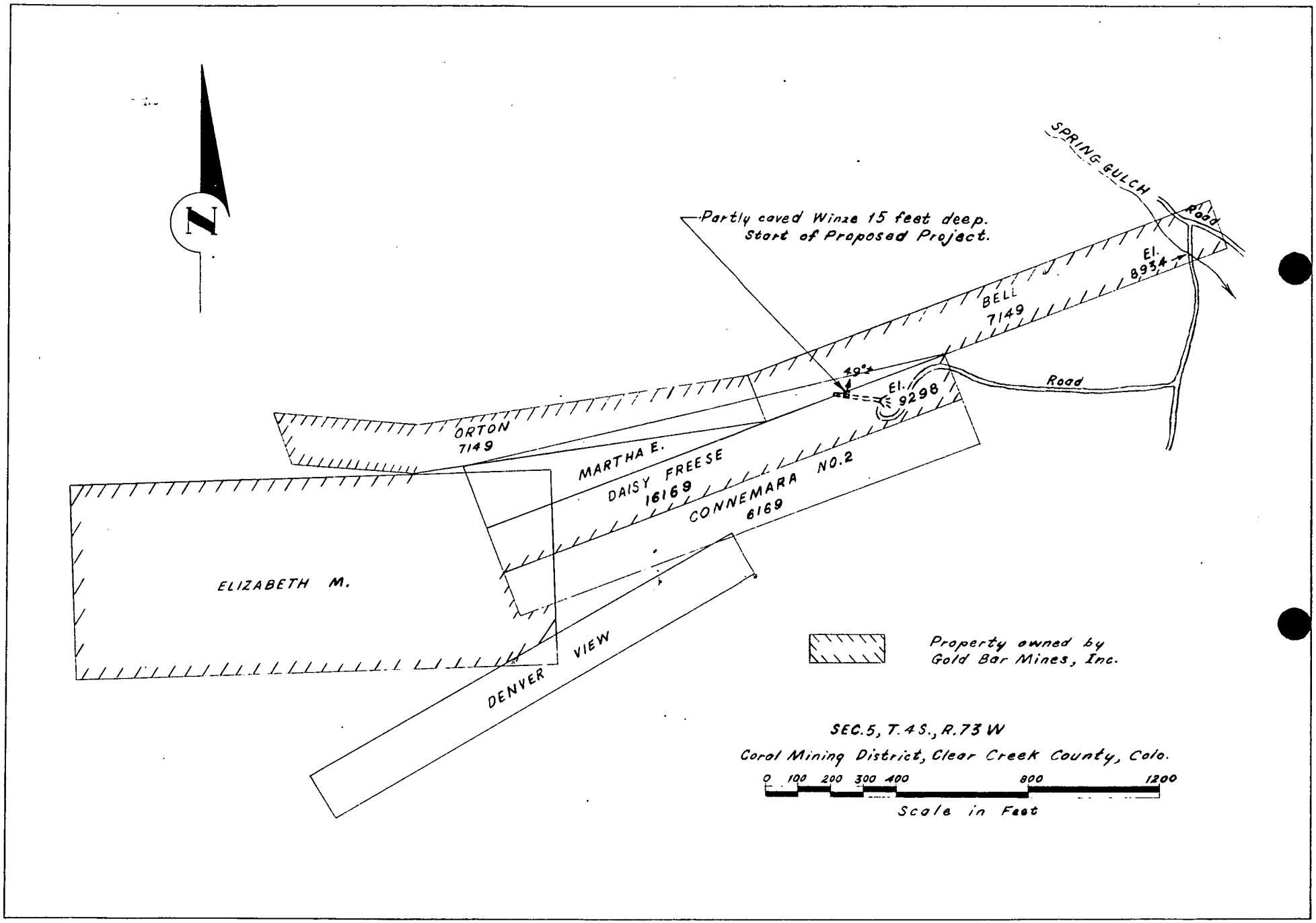


FIGURE 3 - GOLD BAR MINES INC., CLAIM AND PROJECT MAP, CLEAR CREEK CO., COLO. DMEA 2782

Equipment	Valuation
4 Mine cars (2 1-ton and 2 3/4-ton)	$ 450.00
1 3-foot by 7-foot air receiver, not in place	75.00
1 Oxygen and acetylene cutting and welding outfit, complete	120.00
1 Ingersoll-Rand utility air hoist, size EVA	275.00
Miscellaneous small tools	60.00
Total value of equipment to be used on the project	$2,835.00

Depreciation allowance on the above equipment at the rate of $\frac{\text{value}}{60}$ would be $47.03 per month.

PROJECT PROPOSALS, WITH COSTS

Gold Bar Mines, Inc., proposes to extend a winze, now 15 feet deep, to a depth of about 450 feet and drift on encouraging concentrations of uranium for about 300 feet, or to the limit of funds.

The corporation proposes to complete the project within 4 months, at a total cost of $25,000.00.

Evidence available to the examining team does not justify the applicant's proposal as outlined above; on the basis of the known uranium mineralization and values of 0.14 percent U_3O_8 over 1 foot of width in the winze, however, a smaller program appears justified.

In consequence, rehabilitation of the existing 15-foot winze, deepening the winze 85 feet, and crosscutting for a total of 20 feet to

test favorable areas in either the footwall or hanging wall are recommended, with the provision that the work be stopped when the winze reaches a depth of 50 feet and that no more winzing be done unless a re-evaluation at that time by Region IV Field Team representatives indicates the desirability of continuing.

Costs are estimated on the basis of a four-man crew working single shift, 6 days per week. Average advance in the winze is estimated at 1.0 feet per shift. Four men are considered necessary as the hoistman must attend the hoist when miners are in the winze. The winze is 135 feet in from the portal. The fourth man can tram and frame timber for the winze. This will keep the miners full time in the bottom and maintain footage of advance.

The crosscutting is, in reality, only "dogholing" into the walls to test for parallel mineralization in favorable areas. It may consist of three or four individual short rounds into the walls, rather than one crosscut. The project is estimated to require 4 months for completion. The existing winze, 15 feet deep, will require cleaning out and rehabilitating.

<u>Initial Rehabilitation and Repairs</u>

Cleaning out and rehabilitating the 15 feet of existing winze (estimated time--1 week)

Labor and materials	$400.00
New facilities and installations	none
Total rehabilitation and repairs	$400.00

Mine Sinking

Cost per foot

Labor and Supervision

	Per week	
1 foreman-miner at $2.00 per hour, plus overtime in excess of 40 hours	$104.00	
2 miners at $1.75 per hour, plus overtime in excess of 40 hours, $91.00 x 2	182.00	
1 hoistman-miner at $1.75 per hour, plus overtime in excess of 40 hours	91.00	
Labor cost per week	$377.00	
Cost per foot: 1 foot advance per day = ($377.00 ÷ 6 days)		$62.83

Operating Materials and Supplies

Timber (stulls, lagging, ladders, et cetera)	$ 4.60	
Explosives	4.10	
Pipe (air and water)	1.00	
Track for skip	.50	
Other (compressor fuel and lubricants, transportation, freight, bits, steel, et cetera)	8.07	18.27

Operating Equipment

Purchase	none
Rental	none
Depreciation	
	Value
1 Ingersoll-Rand, 4 x 8, 240 c.f.m. air compressor, with gasoline Waukesha motor drive	$1,470.00
1 skip or sinking bucket	100.00
1 Ingersoll-Rand utility air hoist, EVA	275.00
1 Thor jackhammer, model 38, complete with hoses, water tank, 5-foot bar	385.00
4 mine cars	450.00
1 air receiver, 3 by 7 feet	75.00
1 oxygen acetylene cutting and welding outfit, complete	120.00
Miscellaneous equipment and tools	50.00
Total equipment value	$2,925.00

Depreciation valuation based on 3-1/2 months' use: using 60 months' total depreciation period, $170.63 for 3-1/2 months ÷ 85 feet = 2.00

		Cost per foot
Miscellaneous		
Equipment repair, estimated	$ 1.00	
Sampling and analysis	.40	
Payroll taxes, compensation, accounting	3.00	$ 4.40
Total cost per foot for winze sinking		$87.50

Crosscutting

		Cost per foot
Labor and Supervision		
1 week's labor cost, $377.00, 20 feet of advance		$18.85
Operating Materials and Supplies		
Timber - none necessary		
Explosives	$ 2.50	
Pipe - none necessary		
Track - none necessary		
Other (compressor fuel, lubricants, transportation, freight, bits, steel, et cetera)	3.65	6.15
Operating Equipment		
Depreciation for 1 week only:		
$2,925.00/60 = $48.75 per month (30 days)		
$48.75/4 = $12.19		
$12.19/20 = $0.61 (use $0.60)		.60
Miscellaneous		
Repairs to equipment	$ 1.00	
Sampling and analysis	.40	
Payroll taxes, compensation, accounting	1.00	2.40
Total cost per foot for crosscutting		$28.00

Total Cost of Proposed Project

Initial Rehabilitation and Repairs	
Cleaning out existing 15-foot winze	$ 400.00
Winze Sinking	
85 feet, at $87.50 per foot	7,437.50
Crosscutting	
20 feet of crosscutting or "doghole" to test favorable areas in footwall or hanging wall, at $28.00 per foot	560.00
Total cost of proposed project	$8,397.50
U. S. Government share, at 90 percent	$7,557.75

CONCLUSIONS

The uranium minerals metatorbernite, autunite, and sooty pitchblende appear strongest in the bottom of a 15-foot winze on the Daisy Freese claim, with values of 0.14 percent U_3O_8 over a width of 1.0 foot.

The probability of discovering a substantial ore body of uranium of strategic importance is uncertain.

Because of the strategic importance of uranium and the lack of positive data on the occurrence and distribution of uranium in this area and its continuation, enrichment, or impoverishment in depth, a limited amount of exploration work is justified.

Evidence available to the examining team does not justify the applicant's more elaborate proposal of 450 feet of winze sinking and 300 feet of drifting.

Rehabilitation of the existing 15 feet of winze, an additional 85 feet of winze sinking, and a total of 20 feet of crosscutting into the shear structure at favorable places in either the footwall or hanging wall are recommended, with the provision that work be stopped when the winze reaches a depth of 50 feet unless a re-evaluation at that time by Region IV Field Team representatives proves the desirability of continuing.

RECOMMENDATIONS

A contract including (1) rehabilitation of the existing 15 feet of winze, at a cost of $400.00, (2) 85 feet of additional winze sinking, at $87.50 per foot, and (3) a total of 20 feet of crosscutting, at $23.00 per foot, prepared on short form MF-200 (a), is recommended, with the provision that work be stopped when the winze reaches a depth of 50 feet unless a re-evaluation by Region IV Field Team representatives at that time indicates the desirability of continuing. Total cost of the project, if completed, would be $8,397.50. Government participation of 90 percent would be $7,557.75.

cb

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 2782, Gold Bar Mines, Inc.

Elizabeth M. Lode

Coral Mining District

Clear Creek County, Colorado

Uranium

D. R. Mackaren, Geologist
U. S. Geological Survey

C. M. Harper, Mining Engineer
Bureau of Mines

January 16, 1953

DMEA 2782

GOLD BAR MINES, INC.
ELIZABETH M. LODE
CORAL MINING DISTRICT
CLEAR CREEK COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By D. J. McLaren
Geologist
U. S. Geological Survey

and

G. M. Harter
Mining Engineer
Bureau of Mines

DMEA 2782

GOLD BAR MINES, INC.
ELIZABETH M. LODE
OSRAL MINING DISTRICT
CLEAR CREEK COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By D. R. MacLaren and C. M. Herrer

Gold Bar Mines, Inc., has applied for a Defense Minerals Exploration Administration loan of $25,000.00, docket DMEA 2782, to explore a zone of uranium mineralization by 450 feet of winze sinking and 300 feet of drifting on the Daisy Freese claim.

The property is in sec. 5, T. 4 S., R. 73 W., Osral Mining District, Clear Creek County, Colo., at an altitude of about 9,300 feet.

The Daisy Freese claim is developed by 152 feet of adit along the strike of a prominent gouge-filled shear zone. A 15-feet winze about 135 feet in from the portal shows uranium mineralization as autunite, autunite, and sooty pitchblende, developed as irregular patches and flakes in the gouge and along foliation planes in the migmatite and schist bordering the shear zone. These minerals are also present as coatings along joint surfaces.

Of nine samples taken by the U. S. Geological Survey during 1950, six were from the adit level above the winze and assayed 0.02 percent U_3O_8 or less. Two samples which were taken across the 1-foot vein in the winze, one at the collar and one at the bottom, assayed 0.14 percent U_3O_8. A sample from the footwall outside the vein at the bottom of the winze assayed 0.04 percent U_3O_8 for a width of 0.6 feet.

The uranium minerals metatorbernite, autunite, and sooty pitchblende appear slightly stronger at the bottom of the winze.

The property was examined in detail by members of the U. S. Geological Survey during 1950-51 and the results are combined in Trace Elements Memorandum Report 291, entitled, "The Uranium Occurrences in the Martha E. Prospect, near Idaho Springs, Colo."

The probability of discovering a substantial ore body of uranium is uncertain.

Because of the strategic importance of uranium and the lack of positive data on the occurrence and distribution of uranium in this area and its continuation, enrichment, or impoverishment in depth, a limited amount of exploration work is justified.

Evidence available to the examining team does not justify the applicant's entire proposal.

A contract, prepared on short form MF-200 (A), including (1) rehabilitation of the existing 15-foot winze, at a cost of $400.00; (2) 85 feet of additional winze sinking, at a cost of $87.50 per foot; and (3) 20 feet of crosscutting to explore favorable areas in either the footwall or hanging wall, at a cost of $28.00 per foot, is recommended, with the provision that the work be stopped when the winze reaches a depth of 50 feet and that no more winzing be done unless a re-evaluation at that time by the Region IV Field Team representatives indicates the desirability of continuing.

Total cost of the work, if it is all completed, would be $8,397.50, with Government participation at 90 percent, or $7,557.75.

2/20/53 gla

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

February 19, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 20 1953

Memorandum

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

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

Subject: Final report, DMEA Docket 2782, Gold Bar Mines, Inc., Clear Creek County, Colorado.

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

I concur with the recommendations made by the field team in their letter report dated January 22, 1953.

The subject final report has been forwarded to the Chief, Minerals Division, Bureau of Mines, in accord with routing slip attached thereto.

H D Keiser

H. D. Keiser

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

February 12, 1953

Memorandum

To: Hazel Berry, Operating Committee

From: Grace L. Ault, Rare and Misc. Metals Division

Subject: Amendment, DMA-1311X, Contract Idm-E175
Executed contract, DMA-2705, Idm-E485
Executied contract, DMEA-2782, Idm-E483

Mr. Ellis has reviewed the following and approves them:

DMA-1311X The Realty Company, Contract Idm-E175

Amendment No. 7, dated February 3, 1953

DMEA-2705 Jesse Glen Shumway - Grant Lee Shumway
Contract No. Idm-E485

Contract finalized by Region IV, dated Feb. 6, 1953

DMEA-2782 Gold Bar Mines, Inc., Contract No. Idm-E483

Contract finalized by Region IV, dated Feb. 4, 1953

Grace L. Ault

Grace L. Ault

Docket Copy

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

224 New Customhouse
Denver 2, Colorado

February 6, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 6 1953

REGISTERED

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Contract IDM-E 483, Docket DMEA 2782, Gold Bar Mines, Inc.

Enclosed are the original and two copies of Contract IDM-E 483. Copies of this contract have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

W. H. King

Enclosures

coe
2/9/53

RECEIVED
FEB 27 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

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

224 New Customhouse
Denver 2, Colorado

February 6, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 11 1953

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Contract IDM-E 483, Docket DMEA 2782, Gold Bar Mines, Inc.

Enclosed are four copies of the final report on Docket DMEA 2782. A contract has been prepared and is in force.

W. H. King

W. H. King

Enclosures

copy retained in Code 700

COPY

224 New Customhouse
Denver 2, Colorado

February 6, 1953

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Contract Idm-E 483, Docket DMEA 2782, Gold Bar Mines, Inc.

Enclosed are four copies of the final report on Docket DMEA 2782. A contract has been prepared and is in force.

/s/ W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
2-16-53
(Date)

1-1027
(April 1946)

UNITED STATES
DEPARTMENT OF THE INTERIOR

AGENCY Bur. Mines, Reg. IV

Originator:

TELETYPE

Ext.: ..... Room: .....

Appro.:
Date: 2/3/53
Time:
No.:
To: C. O. MITTENDORF DMEA WASH

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
[illegible]

BW.

Subject:

PLEASE ASSIGN A NUMBER TO CONTRACT COVERING DOCKET NUMBER DMEA 2782 GOLD BAR MINES, INC., A COLORADO CORPORATION, 1115 MAIN STREET, LOUISVILLE, COLORADO. PROPERTY IN CLEAR CREEK COUNTY, COLORADO. COMMODITY, URANIUM. CONTRACT DATED FEBRUARY 4, 1953. TOTAL AMOUNT OF CONTRACT $7760.00. GOVERNMENT PARTICIPATION $6984.00.

JOHN F. SHAW for W. H. KING

CONFIRMATION

Authorized:

Sign original message and transmit to Room ..... in duplicate

U. S. GOVERNMENT PRINTING OFFICE 16—60915-1

SPECIAL

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 3 1953

Mr C.O. Mittendorf
Feb. 3, 1953
12:50 P.M.

DN 235 BUREAU MINES 2-3-53 10-28 AM

C O MITTENDORF

PLEASE ASSIGN A NUMBER TO CONTRACT COVERING DOCKET NUMBER DMEA 2782 GOLD BAR MINES, IND., A COLORADO CORPORATION, 1115 MAIN STREET, LOUISVILLE, COLORADO. PRPXXX PROPERTY IN CLEAR CREEK COUNTY, COLORADO. COMMODITY, URANIUM. CONTRACT DATED FEBRUARY 4,1953. TOTAL AMOUNT OF CONTRACT $7760.00. GOVERNMENT PARTICIPATION $6984.00.

JOHN F. SHAW FOR W. H. KING

Denver, Colo. BL

9040

E-483

FEB 3 1 04 PM '53
BUREAU OF MINES
MAIL ROOM
WASHINGTON, D. C.

Defense Minerals Exploration Administration

Robert E. Adams
2017 4070

14-3023,970, Nording and Interior,DMEA
February 3, 1953
2.45 P.M.

E. A. King, Executive Officer, Region IV,224 Customhouse Bldg., Denver 2,Colo.

Assignment of Contract Number

ADDITIL 2-3-53 GOLD FOR MINES, INC DMEA 2782, CONTRACT NUMBER IDMS 483

ASSIGNED THIS DISTRICT

C. O. Mittendorf

ADMIN. MATTER

REAdams/caf
CC to Adm. Reading File
Mail and Files Br. ✓
Audit Division
Miss Curtin

n.s. in R.R.

SENT
FEB 3 1953

Clerical Services Section

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 29 1953

224 New Customhouse
Denver 2, Colorado

January 22, 1953

Memorandum

To: Administrator, Defense Minerals Exploration Administration

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2782, (Uranium) Gold Bar Mines, Inc., (Elizabeth M. lode) Clear Creek County, Colorado

The application for Government assistance in exploration work estimated to cost $7,335 has been approved by us and a contract is being prepared.

Government participation will be 90 percent, or $6,601.50.

Four copies of the Final Report will be forwarded when the contract is processed.

The original and one copy of Form 3b is attached.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enc.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 29 1953

224 New Customhouse
Denver 2, Colorado

January 22, 1953

Memorandum

To: Administrator, Defense Minerals Exploration Administration

From: Field Team, Region IV

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The application for Government assistance in exploration work estimated to cost $7,335 has been approved by us and a contract is being prepared.

Government participation will be 90 percent, or $6,601.50.

Four copies of the Final Report will be forwarded when the contract is processed.

The original and one copy of Form 3a is attached.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enc.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

January 22, 1953

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, RMA Project 5706, (Vacation) Gold Bar Mines, Inc., Elizabeth M. Lode, Clear Creek County, Colorado

Enclosed are eleven copies of the final engineering report on the subject design.

The consulting engineer recommends the rehabilitation of the present 35 foot winze and sinking the winze an additional 35 feet at which time the project will be reappraised by representatives of the Field Team. If, in their opinion, conditions at that point are favorable, the winze will be sunk an additional 30 feet with a total of 80 feet of crosscuts into the hanging wall and footwall at favorable locations.

We concur in this recommendation.

W. H. King

W. H. King

Enclosures

Reviewed by
DRMA OPERATIONS COMMITTEE
2-16-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
January 19, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: RMMA 2762 (Wenstrom), Gold Bar Mines, Inc. (Elizabeth M. Lode), Central Mining District, Clear Creek County, Colorado

Please find enclosed the original and ten copies of the "Summary, Conclusions, and Recommendations", by R. R. Shalaren, U. S. Geological Survey, and C. M. Hanner, Bureau of Mines, on the above docket, and of Hanner's engineering report.

The original engineering estimates calling for winze sinking at $58.00 per foot were revised to $87.50 per foot, considered as a much more realistic figure.

Hanner recommends a short form contract calling for rehabilitating 15 feet of existing winze, at a cost of $600.00, and 85 feet of winze extension, at $87.50 per foot, with short crosscuts into the hanging wall or footwall at favorable locations up to 20 feet total, at $25.00 per foot. The over-all cost is limited to $8,337.50 and a proviso is included that operations be stopped when the winze reaches a depth of 50 feet for reappraisal by Region IV Field Team representatives to determine if additional work is desirable. The project has been cleared with the Atomic Energy Commission and was recommended by their geologists cooperating with the geologists of the U. S. Geological Survey Trace Elements Group.

I concur with Hanner's recommendations, emphasizing the restriction to 50 feet of original winzing followed by a re-evaluation.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/wsh

cc: 10
RMMA 2762
RMMA Chron.

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

January 6, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Denver
JAN 12 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2782, Gold Bar Mines, Inc., Clear Creek County, Colorado.

Attached are 10 copies of the geological report by D. R. MacLaren covering DMEA Docket 2782, Gold Bar Mines, Inc., Clear Creek County, Colorado.

The applicant proposes to explore the mine for uranium ore by deepening a winze along the plane of a vein locally carrying radioactive minerals and to drift along the vein. The vein consists of a shear zone that has been mineralized by small quartz stringers with scattered radioactive minerals. An adit has been driven 150 feet along this shear zone, and a winze has followed it to a depth of 15 feet. Samples collected from the vein carry up to 0.142% U_3O_8. Although MacLaren concludes that the probability of making a significant discovery of uranium ore is not very promising, he believes a small amount of additional exploration work on the vein is warranted. He, therefore, recommends that the applicant be given assistance to sink the winze to a depth of 100 feet and to crosscut 20 feet; however, that a re-examination and re-evaluation of the project be made when the winze has reached a depth of 50 feet.

I concur in this recommendation.

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

Enclosures (10)

PRS 3249

DMEA
FILE COPY
Surname:

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SECRETARY
WASHINGTON 25, D. C.

DEC 10 1952

Dear Mr. Erbaugh:

This acknowledges receipt of your letter of November 20, 1952, and a copy of your letter to Mr. Mittendorf of October 30, concerning the application of Gold Bar Mines, Inc. (docket number DMEA-2782).

On November 20, a letter by Mr. Robert Adams, Chief, Operations Control, Defense Minerals Exploration Administration, was addressed to your friend, Mr. James Manning, President of the applicant company, informing him that his application has been referred to Mr. W. H. King, Executive Officer of Region IV, Bureau of Mines, Denver, for further processing. This is in accordance with our usual procedure. A copy of this letter was mailed to you, and the applicant will undoubtedly soon be contacted by the Denver Office for further collaboration.

It is gratifying to note the great interest you are so unselfishly taking in assisting us in the defense exploration program, and it is hoped that the results of this proposed project will justify your good efforts. Your kind wishes are appreciated.

Sincerely yours,

(sgd) Oscar L. Chapman

Secretary of the Interior

Mr. Charles Oscar Erbaugh
P. O. Box 358
Denver 1, Colorado

12/3/52
FSSchmidt/jem/fw
cc: Secy's Reading File
Asst. Sec'y for Mineral Resources
Admr Reading File, DMEA
Mails & Files, DMEA
Mr. Ellis, DMEA
Mr. Schmidt, DMEA

PRF No. 3249

DMA

FILE COPY
Surname:

Schmidt
Ellis

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SECRETARY
WASHINGTON 25, D. C.

Dear Mr. Krueger:

This acknowledges receipt of your letter of November 21, 1952, and a copy of your letter to Mr. Litteral of October 30, concerning the subject application, Polar Star Inc., [illegible]-2762.

On November 20, a letter by Mr. Robert [illegible], Chief, Operation Control of the Defense Minerals Exploration Administration, was addressed to your friend, Mr. [illegible], President of the Applicant Company, informing him that his application has been referred to Mr. [illegible], Executive Officer of Region IV, Bureau of Mines, Denver, for further processing. This is in accordance with our usual procedure. A copy of this letter was mailed to you, and the applicant will undoubtedly soon be contacted by the Denver office for further collaboration.

It is gratifying to note the great interest you are so unselfishly taking in assisting us in the defense exploration program, and it is hoped that the results of this proposed project will justify your good efforts. Your kind wishes are very appreciated.

Sincerely yours,

Secretary of the Interior

Mr. Charles Sauer Krueger
P. O. Box 356
Denver 1, Colorado

Fischmidt/jem
12/3/52
cc to: Secy's Reading File
Asst. Secy's Reading File
Asst. Sec. Mineral Resources
Adm. Reading File R-4624
Mails and Files R-4539
Messrs. Ellis
Schmidt

CHARLES OSCAR ERBAUGH
ATTORNEY AND COUNSELOR
DENVER, COLORADO

November 20, 1952

INTERIOR DEPT.
RECEIVED
NOV 24 1952
OFFICE OF
THE SECRETARY

INTERIOR DEPT.
SECRETARY'S
MAIL CENTER
NOV 24 1952
RECEIVED

INTERIOR DEPT.
SECRETARY'S
MAIL CENTER
NOV 25 1952
FORWARDED TO
D. M. A.

INTERIOR DEPARTMENT
RECEIVED
DEC 4 1952
DIVISION OF
MINERALS AND FUELS

Honorable Oscar L. Chapman
Secretary of the Interior
Washington, D. C.

Dear Oscar:

You may be assured at the outset that I deeply appreciate the many fine, complimentary things I have heard about you and your long service in the Department of the Interior. That is just what I expected would be the result of your service when President Roosevelt appointed you. I am proud of you and thankful for the things that I have been justified in submitting to you from time to time.

It seems to me you must have worn out a good many "fountain pens" during all of those active years. I have often thought of the little incident that made us acquainted when we were both younger -- you a whole lot younger.

I enclose copy of a letter which speaks for itself. It has been my purpose in assisting such applicants to further matters of benefit, just as I stated in the letter to Mr. Mittendorf.

I am glad to hear that you have decided to resume your residence in Denver, because in that event, I hope to be able to see you from time to time.

With best wishes for your continued success and with my kindest regards, believe me,

Yours sincerely,

Charles Oscar Erbaugh

Charles Oscar Erbaugh
P. O. Box 358
Denver 1, Colorado

(Dear Mr. Erbaugh)

COE:lo
Encl.

October 30, 1952

Mr. C. O. Mittendorf
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Mittendorf:

By way of introduction, I have been a gold and silver mine operator in Colorado for more than fifty years. This work has been conducted in addition to my professional work as an attorney, paying particular attention to the laws of mining.

In presenting the enclosed application for consideration of your Administration, it seems fitting to first direct attention to its purpose insofar as I am concerned. My cooperation with the applicant is not for financial gain but to help promote that which will expedite the discovery and production of metals and materials seemingly imperative in creating and maintaining national safety.

For reference in this behalf and as to my cooperation with applicants in matters herein mentioned, you may inquire of the Honorable Oscar L. Chapman, Secretary of the Interior, my long-time friend and collaborator in political and economic matters in Colorado and the nation.

SUBJECT OF THIS LETTER

The subject of this letter is the application of the Gold Bar Mines, Inc., a Colorado corporation, to your administration for a loan of $25,000.00, under DMEA Order-1.

A brief background of two of the incorporators of applicant corporation, who are also President and Secretary, respectively, is as follows:

Mr. James R. Manning, the President, was born at Middlesboro, Kentucky, April 18, 1910. He came to Colorado in 1934, and resides at Louisville, Boulder County, Colorado. He is married, and has been engaged in coal mining and carpentry on a contractual basis in that vicinity. He has also contracted in timber cutting and reducing it to such lengths and sizes as are required in the mining business, as well as in the production of dimension lumber. He stands high in his community in Boulder County and was prominently mentioned to assume the duties of

County Commissioner in his district. He is highly recommended as to honesty and integrity, and is industrious and capable.

Mr. Harvey W. Zook, the Secretary, was born at Strausburg, Pennsylvania, April 2, 1912. He came to Colorado in 1945; he is married and resides at Idaho Springs, Clear Creek County, Colorado. He has had five years experience in hard rock drilling (wagon drilling) and heavy construction experience as a carpenter; also underground experience in different kinds of mining in Colorado. He is, at the present time, doing development work on the properties mentioned herein belonging to applicant corporation. Mr. Zook was highly recommended to me by Mr. and Mrs. C. J. Farmer, 7000 West 32nd Avenue, Denver, Colorado, persons with whom I have had wide acquaintance and friendship.

PROPERTIES INVOLVED

Elizabeth M. Lode, a Location, Book 245, Page 1
Martha E. " " " " " " 3
Daisy Freese, Survey No. 16169
Orton & Bell, " " 7149, All in
Section 5 T. 4 S. R. 73 W., Coral Mining
District, Clear Creek County, Colorado.

I shall fully cooperate with your office in any matters regarding this application, at your convenience, and I shall readily respond to your request for further information or changes as your office may command.

Yours truly,

Charles Oscar Erbaugh

Charles Oscar Erbaugh
P. O. Box 358
Denver 1, Colorado

COE:lo

C
O
P
Y

Charles Oscar Erbaugh
Attorney and Counselor
Denver, Colorado

November 20, 1952

Honorable Oscar L. Chapman
Secretary of the Interior
Washington, D. C.

Dear Oscar:

You may be assured at the outset that I deeply appreciate the many fine, complimentary things I have heard about you and your long service in the Department of the Interior. That is just what I expected would be the result of your service when President Roosevelt appointed you. I am proud of you and thankful for the things that I have been justified in submitting to you from time to time.

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I enclose copy of a letter which speaks for itself. It has been my purpose in assisting such applicants to further matters of benefit, just as I stated in the letter to Mr. Mittendorf.

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With best wishes for your continued success and with my kindest regards, believe me.

Yours sincerely,

/s/ Charles Oscar Erbaugh
Charles Oscar Erbaugh
P. O. Box 358
Denver 1, Colorado

COE:lo
Encl.

November 20, 1952

Mr. James R. Manning, President
Gold Bar Mines, Inc.
1115 Main Street
Louisville, Colorado

Subject: DMEA-2782
Re: Exploration Assistance
Elizabeth M. Lode

My dear Mr. Manning:

The receipt of your application dated September 22, 1952, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2782 and referred to Mr. W. H. King, Executive Officer, Region IV, Bureau of Mines, 224 New Customhouse Building, Denver 2, Colorado.

Kindly refer to DMEA-2782 in any future correspondence relating to your application.

Sincerely yours,

R. E. ADAMS

Robert E. Adams
Chief, Operation Control
and Statistics Division

Copy to: C. O. Erbaugh

No 4
Gold Bar

dmea 2782

October 30, 1952

Mr. C. C. Kittendorf
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Kittendorf:

By way of introduction, I have been a gold and silver mine operator in Colorado for more than fifty years. This work has been conducted in addition to my professional work as an attorney, paying particular attention to the laws of mining.

In presenting the enclosed application for consideration of your Administration, it seems fitting to first direct attention to its purpose insofar as I am concerned. My cooperation with the applicant is not for financial gain but to help promote that which will expedite the discovery and production of metals and materials seemingly imperative in creating and maintaining national safety.

For reference in this behalf and as to my cooperation with applicants in matters herein mentioned, you may inquire of the Honorable Oscar L. Chapman, Secretary of the Interior, my long-time friend and collaborator in political and economic matters in Colorado and the nation.

SUBJECT OF THIS LETTER

The subject of this letter is the application of the Gold Star Mines, Inc., a Colorado corporation, to your administration for a loan of $25,000.00, under Item Order-1.

A brief background of two of the incorporators of applicant corporation, who are also President and Secretary, respectively, is as follows:

Mr. James L. Manning, the President, was born at Middlesboro, Kentucky, April 13, 1910. He came to Colorado in 1934, and resides at Louisville, Boulder County, Colorado. He is married, and has been engaged in coal mining and carpentry on a contractual basis in that vicinity. He has also contracted in timber cutting and reducing it to such lengths and sizes as are required in the mining business, as well as in the production of dimension lumber. He stands high in his community in Boulder County and was prominently mentioned to assume the duties of

County Commissioner in his district. He is highly recommended as to honesty and integrity, and is industrious and capable.

Mr. Harvey W. Cook, the Secretary, was born at Strausburg, Pennsylvania, April 2, 1912. He came to Colorado in 1945; he is married and resides at Idaho Springs, Clear Creek County, Colorado. He has had five years experience in hard rock drilling (wagon drilling) and heavy construction experience as a carpenter; also underground experience in different kinds of mining in Colorado. He is, at the present time, doing development work on the properties mentioned herein belonging to applicant corporation. Mr. Cook was highly recommended to me by Mr. and Mrs. C. J. Farmer, 7000 West 32nd Avenue, Denver, Colorado, persons with whom I have had wide acquaintance and friendship.

PROPERTIES INVOLVED

Elizabeth M. Lode, a Location, Book 245, Page 1
Martha G. " " " " " 3
Daisy Fronse, Survey No. 16169
Orton & Doll, " " 7149, all in
Section 5 T. 4 S. R. 73 W., Coral Mining
District, Clear Creek County, Colorado.

I shall fully cooperate with your office in any matters regarding this application, at your convenience, and I shall readily respond to your request for further information or changes as your office may command.

Yours truly,

Charles Oscar Erbaugh

Charles Oscar Erbaugh
P. O. Box 358
Denver 1, Colorado

Doc:lo

No. SC 1

STATE OF COLORADO

OFFICE OF THE SECRETARY OF STATE

UNITED STATES OF AMERICA, STATE OF COLORADO. } ss.

CERTIFICATE.

I, George J. Baker, Secretary of State, of the State of Colorado, do hereby certify that in accordance with the records of this office

GOLD BAR MINES INCORPORATED

a corporation organized under and by virtue of the laws of the STATE OF COLORADO, has paid all fees and taxes due this office, as provided by law, and is at the date of this certificate, in good standing and authorized to transact business as a domestic corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the Great Seal of the State of Colorado, at the City of Denver, this FIFTEENTH day of APRIL A. D. 1952

Geo. J. Baker
SECRETARY OF STATE.

BY Jan W. Graham
DEPUTY.

Office:
1115 Main Street, Louisville, Colorado

C F HOEPFEL CO DENVER

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 18 1952

Not to be filled in by applicant

Docket No. dmea 2782
Metal or Mineral
Date Received 11-18-52
Estimated Cost
Participation (Government %)

For $25,000.00 See attorney's letter.

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: Gold Bar Mines, Inc., 1115 Main Street, Louisville, Boulder County, Colorado, James R. Manning, President, Louisville, Colorado, Harvey W. Zook, Secretary, Idaho Springs, Colorado.

(*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

See accompanying papers

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

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

Owners

(*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.

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.

16—66551-1

Office:
1115 Main Street, Louisville, Colorado

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium

(*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 9 to 10 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. Also see attorney's letter.

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?

☒ 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 September 22, 1952

Gold Bar Mines, Inc.
(Applicant)

By James R. McCarney
Harris W. Zook

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

1. Gold Bar Mines Incorporated

(b) Colorado

(c) James R. Manning, President — 1115 Main Street, Louisville, Colorado

Peter Nelson, Vice President — 7000 West 32nd Avenue, Wheatridge, Colorado

Harvey W. Zook, Secretary-Treasurer — General Delivery, Idaho Springs, Colorado

3. Sec. 5, T. 4 S., R. 73 W., Clear Creek County, Colorado. This is the general location of applicant's property rights, which rights are legally described as follows: Unpatented claims: Martha E, Location Certificate recorded in Book 245, Page 3; and Elizabeth M. Location Certificate recorded in Book 245, Page 1, records in office of County Clerk and Recorder, Clear Creek County, Colorado. Assessment work done.

Applicant also owns, Orton and Bell, Patented, Survey No. 7149 Daisy Freese, Survey No. 16169, all in Coral Mining District Sec. 5, T.4.S.R. 73 W. Clear Creek County, Colorado, Evidence of title hereto annexed and marked Exhibit, "A".

No liens or encumbrances on any of the property.

4. Physical description - (a) (to be put on a separate sheet) There was a 50 feet tunnel which had caved in. We cleaned it out and drove it an additional 102 feet, 60 feet from where we started to drive we made our discovery and sunk a winze which is now 20 feet in depth.

(b) No production

(c) Shist and granite. Mineralization in vein type of deposit from which the samples were taken hereinbefore described which constitutes our reasons for desiring to explore.

(d) Easy accessability will be obtained by a short road which we propose to make as soon as we are financially able as we will have the county's assistance in doing so. This will provide accessability for providing shipping, supply and residence ppints. Manpower, materials, supplies and equipment, available both at Idaho Springs and Denver. Power within 2,000 feet. Water from creek that flows across applicant's property.

5. (a) Uranium

(b) The map provided herewith in cross section is marked "Exhibit B". The map indicates Spring Gulch at an elevation of approximately 9,000 feet. It also indicates Spring Gulch road, so marked. Extending upward from Spring Gulch is a road shown as passing over the Martha E. and Elizabeth M. mining claims.

The tunnel at an elevation of 9,298 feet is indicated by B. Its length is approximately 150 feet. A winz has been sunk to a depth of 20 feet. Here is where the uranium was discovered.

(c) The work will start immediately after the contract is signed, and will be completed within about 9 months of operation.

(d) James R. Manning is President and Chairman of the Board of applicant corporation. He will have full control and supervision of the operations of the exploration project. He has had extensive experience in coal mining operation, contractual work in that behalf and other matters of employment and contracting in divers places in Colorado. He is the discover of the group of mines and locations involved in this project.

Harvey W. Zook, Secretary of applicant corporation, is at the present time overseeing the development work on the Properties mentioned herein, constituting the project of applicant corporation. He has had experience in hard rock drilling and underground mining of different kinds in Colorado. He is highly recommended by Mr and Mrs C. J. Farmer, 7000 West 32nd Avenue, Denver, Colorado.

6. Estimated Cost

(a) Independent Contracts - (None)

(b) Labor Expense -

Foreman and Worker	Daily $20; 6th day, time and 1/2 $30, weekly	$130.00	
Hoist Man	Daily $15; 6th day, time and 1/2 $22.50 weekly	97.50	
Machine Man	Daily $15; 6th day, time and 1/2 $22.50 weekly	97.50	
Mucker Man	Daily $13; 6th day, time and 1/2 $19.50 weekly	84.50	
	Total - weekly		$409.50

(c) Drilling expense -

Drill steel	Daily $2.00-6 days weekly	$12.00	
Miner Fittings	Daily $1.00-6 days weekly	6.00	
Oil	Daily .60-6 days weekly	3.60	
Air hose and Water Hose	Daily $3.00-6 days weekly	18.00	
	Total - weekly		39.60

Explosives -

1 Case of powder	6 days weekly	63.00	
1 Box Blasting Caps	Daily $1.25-6 days weekly	7.50	
1 Coil Fuze	Daily $1.25-6 days weekly	7.50	
	Total - weekly		78.00

Compressor expense -

Gasoline - 20 gals. Daily	.25 gal. 6 days weekly	30.00	
Rock Drill Oil- 2 qts Daily	.50 qt. 6 days weekly	6.00	
Grease - 1 pound daily	.35 lb. 6 days weekly	.35	
Miscellaneous Daily	.50 6 days weekly	3.00	
2 inch air pipe fittings, Daily	2.00 6 days weekly	12.00	
	Total - weekly		51.35

Timber expense -

1 square set,	Daily $6.00 6 days weekly	36.00	
Nails - 5 pounds	daily .60 6 days weekly	3.60	
2 x 10 Sheathing, per man, per day	$6.00 6 days weekly	36.00	
2 x 6 ladder material	Daily $2.00 6 days weekly	12.00	
	Total - weekly		87.60

General Expense -

Mine rails - 40 feet	weekly	$ 8.50	
Bolts - 2 pounds	weekly	.60	
Fish plates - 3 pr.	weekly	1.65	
Spikes - 10 pounds weekly		1.50	
Jeep Rental	weekly	6.00	
Insurance on men	weekly	.75	
Assay	weekly	15.00	
Bookkeeping	weekly	15.00	
	Total - weekly		49.00

1 Ore Skip	$ 75.00	
Wire Rope, 500 Ft.	90.00	
Electric Light Plant	400.00	
Ventilating System	200.00	
Repairs Compressor	100.00	865.00

($865.00 not included)

Total expenses per week	$715.05
Total expenses for nine months	$27,886.95

4

Gold Bar Mines, Inc.
1115 Main Street,
Louisville, Colorado

6. (d) EQUIPMENT

1	Compressor Ingersol-Rand - No. 5-7547)	1200.00
1	Waukesha Motor 72277)	
1	Thor Sinker 60525	270.00
	Drill Steel	
1	2'x3/4"	1.00
1	3'x3/4"	1.00
1	5'x3/4"	2.00
1	2'x1"	1.00
1	3'x1"	1.00
1	Thread Bar - 2JC10	40.00
	3/4" Compressor Hose 200 ft.	50.00
24	Coupling 3/4"	16.80
	Timpkin Bits 50	5.00
	600 feet 8 pound Steel Rail	60.00
1	Pit car	150.00
1	Pit car	75.00
1	Timber Car	25.00
4	Shovels	6.00
2	Picks	3.00
1	Rake	1.50
1	Hoe	1.00
2	Nail Boxes	1.00
2	8 pound Hammers	2.00
1	One-Man Saw	3.50
1	Axe	1.50
1	Rock Bar	1.50
2	2 pound Hammers	2.00
1	Claw Hammer	1.00
1	12" Crescent Wrench	1.50
1	12" Stellson Wrench	1.50
	10 pounds Rail Spikes	1.50
	100 pounds Nails	12.00
	10 pounds Fish Plates at .30	3.00
	10 pounds 1-⅛"x3/4" Bolts	2.00
	5 pounds 1-⅛"x⅛" Bolts	1.00
4	Carbide Lamps	4.00
3	Mine Helmets	4.50
	50 pounds Bolts 18" x 3/4	5.00
1	Grinding Wheel	12.50
	3 Sets Door Hinges	1.50
1	Chair comealong	2.50
1	3/4 Ton Comealong	20.00
1	Pair Bolt Cutters 24"	5.00
1	Sheet Gasket Material	2.00
1	Pipe Vise	6.50
1	Pipe Vise	3.50
1	1" Valve	1.50
1	1-⅛" Valve	4.00
2	3/4" Valve	2.00
2	90 degree Elbows	1.50
4	3/4" Niples	.60
4	3/4 Sleeves	.60
2	2" 45 degree Elbows	2.30
2	2" Tees	2.30
4	2" High Pressure Valves	8.00
	2 square foot H.P. Gasket	2.00
	75 Foot Snatch Cable	5.00
	R-66 Acetyln Guage	30.00
	R-64 Oxygen Gauge	30.00
	50 foot Welding Hose	25.00
1	Cutting and Welding Torch	35.00
	4 pounds brazing rod	2.50

Gold Bar Mines, Inc.
1115 Main Street,
Louisville, Colorado

EQUIPMENT (Continued)

6. (d)

	4 pounds Wire Rod	2.50	
	Welding Goggles	1.00	
	Welders Clip Hammer	1.00	
	Welders Wire Brush	.50	
	Airco Flux	1.50	
	Cap Clamper	2.00	
	1/2 Case Powder	5.50	
	1/2 Case Caps	.75	
12	3x8 28-Gauge Steel Sheets	12.00	
	100 feet 16 Gauge Wire	1.00	
	50 foot 9 Gauge Wire	.75	
100	Wedges	2.00	
1	Anvil	5.00	
	Odd lengths of steel Rod 100 pounds	8.00	
		$2,207.10	$2,207.10
1	Tool Shack 12' x 20'	$ 300.00	
1	Compressor House	500.00	
1	Mine Tipple	400.00	
1	Air Winch	275.00	
		$1,475.00	$1,475.00
	Total Equipment --		$3,682.10

Gold Bar Mines, Inc.

Office:
1115 Main Street, Louisville, Colorado

7. (a) We are financially able to pay our share of the project with the allowance for the use of equipment owned by us as we understand it will be set out in the contract.

Office:
1115 Main Street, Louisville, Colorado

Pictures showing location of property and roads facilitating accessibility.

Photographs showing the mountainous terrain where the property is located. Also the surroundings of that section.

Gold Bar Mines, Inc.
1115 Main Street,
Louisville, Colorado

East

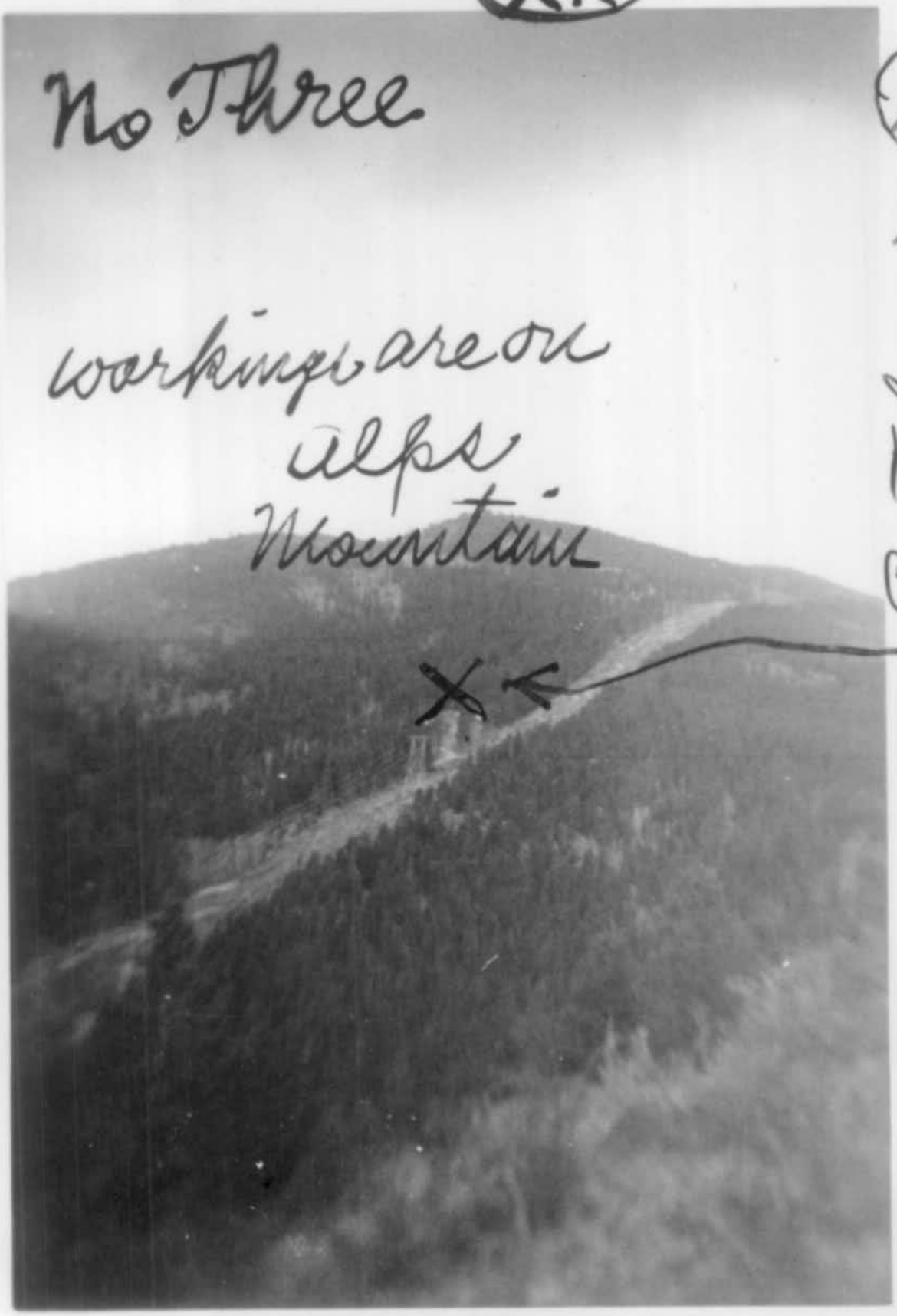
No One

Elevation at this Point - 9000'

S. W. (XX)

No Three

working area on
alps
Mountain



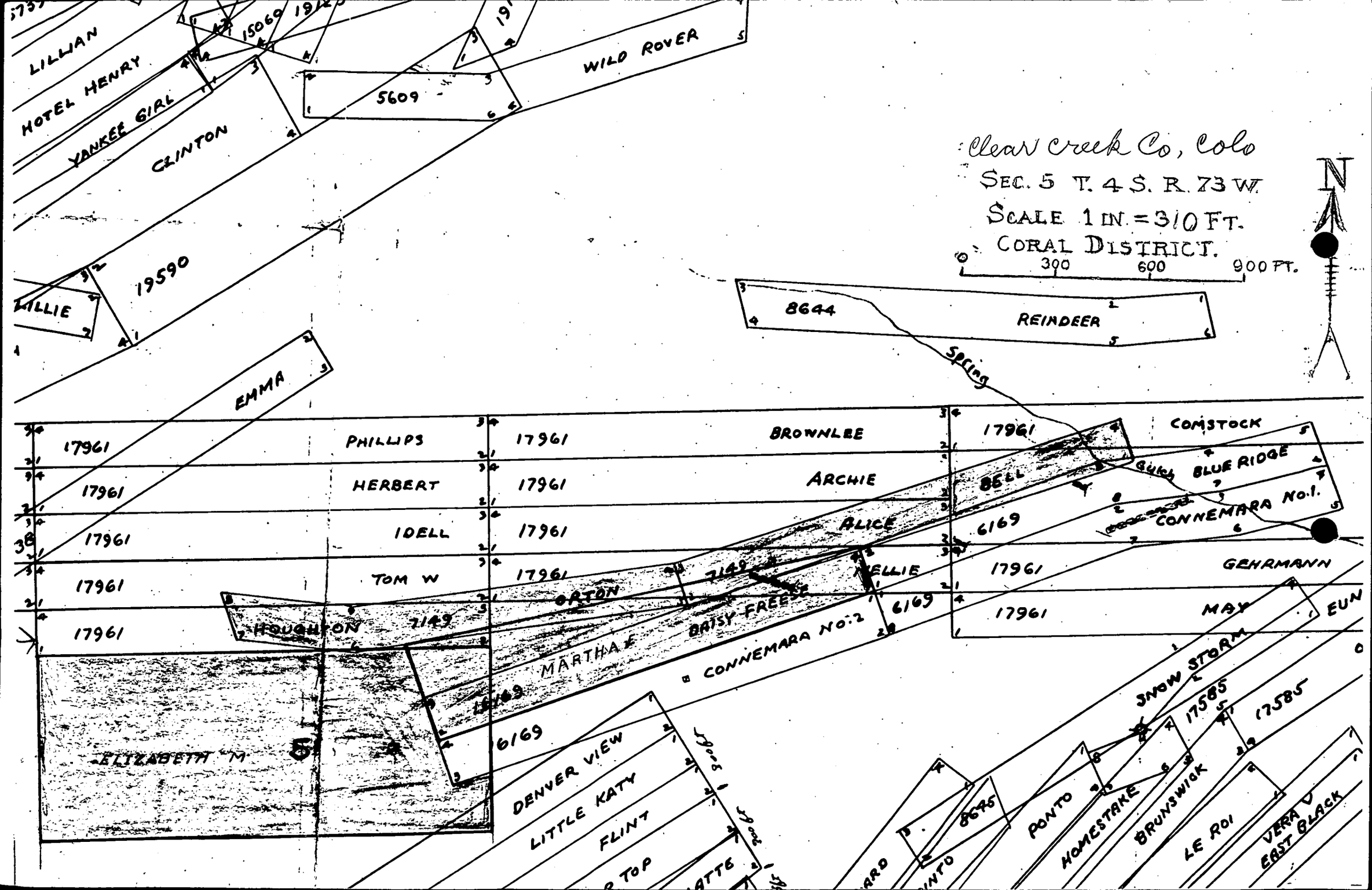
Portal as X (X)

No Two (X)

To Top = 200 elevation

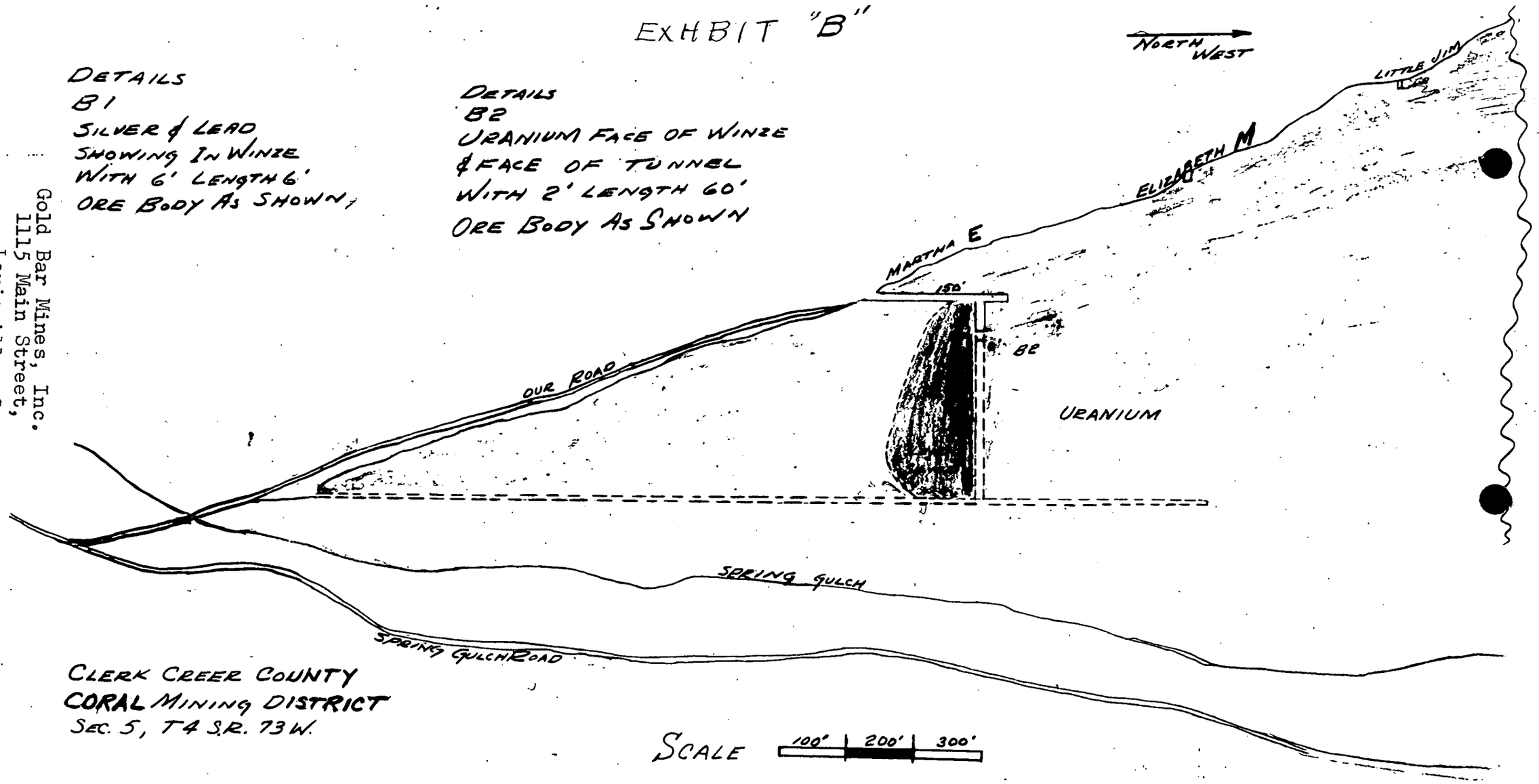
Portal X

Alt 9,298+


Clear Creek Co, Colo
SEC. 5 T. 4 S. R. 73 W.
SCALE 1 IN. = 310 FT.
CORAL DISTRICT.
0 300 600 900 FT.
N
LILLIAN
HOTEL HENRY
YANKEE GIRL
CLINTON
15060
5609
WILD ROVER
19590
WILLIE
EMMA
8644
REINDEER
Spring
17961
PHILLIPS
HERBERT
IDELL
TOM W
BROWNLEE
ARCHIE
ALICE
ELLIE
COMSTOCK
BELL
Gulch
BLUE RIDGE
CONNEMARA No. 1.
6169
GEHRMANN
MAY
EUN
7149
ORTON
HOUGHTON
MARTHA E
DAISY FREESE
CONNEMARA No. 2
SNOW STORM
17585
ELIZABETH M
DENVER VIEW
LITTLE KATY
FLINT
TOP
8675
PONTO
HOMESTAKE
BRUNSWICK
LE ROI
VERA V
EAST BLACK

G[illegible] Bar Mines, Inc.
1115 Main Street,
Louisville, Colorado

EXHIBIT "B"



DETAILS
B1
SILVER & LEAD
SHOWING IN WINZE
WITH 6' LENGTH 6'
ORE BODY AS SHOWN,

DETAILS
B2
URANIUM FACE OF WINZE
& FACE OF TUNNEL
WITH 2' LENGTH 60'
ORE BODY AS SHOWN

CLERK CREEK COUNTY
CORAL MINING DISTRICT
SEC. 5, T4 S.R. 73 W.

Gold Bar Mines, Inc.
1115 Main Street,
Louisville, Colorado

Recorded at ..... o'clock ..... M. EXHIBIT "A"

Reception No. ..... Recorder.

This Indenture, Made this **Ninth** day of **August**, in the year of our Lord one thousand nine hundred **fifty-two**, between

JAMES R. MANNING

of the County of **Boulder** and State of Colorado, party of the first part, and

GOLD BAR MINES INCORPORATED

of the ~~XXXXXXXX~~ ~~and~~ State of Colorado, party of the second part;

WITNESSETH, That the said party of the first part, for and in consideration of the sum of **Ten Dollars and other valuable and legal consideration** ~~XXXXX~~ 100

to **him** in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, has granted, bargained, sold, remised, released and forever quit-claimed, and by these presents does grant, bargain, sell, remise, release and forever quit-claim, unto the said party of the second part, **and its** ~~XXXXXX~~ assigns, the following described property, situate, lying and being in **the Coral** Mining District, in the County of **Clear Creek**, and State of Colorado, to-wit:

The Elizabeth M Lode Mining Claim, recorded in Book 245, at Page 1, records of said county, more particularly described as: Beginning at Corner No. 1, the northwest corner, identical with Cor. No. 1, Sur. No. 17961, Houghton lode; thence N. 87° E. 750 feet to the north side center stake and 1500 feet to Cor. No. 2, identical with Cor. No. 2, Sur. No. 17961, Houghton lode; thence S. 3° E. 600 feet to Cor. No. 3; thence S. 87° W. 750 feet to the south side center stake and 1500 feet to Cor. No. 4; thence N. 3° W. 600 feet to Cor. No. 1, the place of beginning: the Martha E Lode Mining Claim, recorded in Book 245, at Page 3, records of said county, more particularly described as: Beginning at Corner No. 1, the southeast corner, identical with Cor. No. 1, Sur. No. 16169, Connemara No. 2 lode; thence S. 69° 20' W. 750 feet to the south side center stake and 1500 feet to Cor. No. 2, identical with Cor. No. 4, Sur. No. 16169, Connemara No. 2 lode; thence N. 21° W. 350 feet to Cor. No. 3; thence N. 76° 55' E. 757 feet to the north side center stake and 1514 feet to Cor. No. 4, identical with Cor. No. 2, Sur. No. 16169, Blue Ridge lode; thence S. 21° E. 150 feet to Cor. No. 1, the place of beginning; also the Bell and Orton Lode Mining Claims, Survey No. 7149.

TOGETHER with all the dips, spurs, and angles, and all the metals, ores, gold and silver-bearing quartz, rock and earth therein, and all the rights, privileges and franchises thereto incident, appendant and appurtenant, or therewith usually had and enjoyed; and all and singular the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining, and the rents, issues and profits thereof; and all the estate, right, title, interest, claim and demand whatsoever, as well in law as in equity, of the said party of the first part, of, in or to the said premises, and every part and parcel thereof, with the appurtenances

TO HAVE AND TO HOLD, all and singular, the said premises, together with the appurtenances and privileges thereto incident, unto the said party of the second part **and its** ~~XXXXXX~~ assigns forever.

IN WITNESS WHEREOF, The said party of the first part has hereunto set **his** hand and seal the day and year first above written.

Signed, sealed and delivered in the presence of { James R. Manning [SEAL]

..... [SEAL]

..... [SEAL]

STATE OF COLORADO, }
County of } ss.

The foregoing instrument was acknowledged before me this **9th** day of **August** A. D. 19 **52**, by **James R. Manning**

My commission expires February 6, 1955. Witness my hand and official seal.

Louise A. Rauch
Notary Public.

No. 37. MINING DEED.—The Bradford-Robinson Ptg. Co., Mfrs. Robinson's Legal Blanks, 1824 Stout St., Denver, Colo.

Gold Bar Mines, Inc.
1115 Main Street, Louisville, Colorado

No. 323

MINING DEED

TO

STATE OF COLORADO,
County of Clear Creek } ss.

I hereby certify that the original this instrument was filed for record in my office at 1 o'clock P.M., Aug 11, 1952 and is duly recorded in book

Recorder.

By

Deputy.

Fees, $

1-45 THE BRADFORD-ROBINSON PTG. CO., DENVER

These are Miscellaneous documents vesting title in James R. Manning who deeded to applicant, Gold Bar Mines Incorporated.

Gold Bar Mines, Inc.
1115 Main Street,
Louisville, Colorado

KNOW ALL MEN BY THESE PRESENTS, That GOLD BAR MINES INC, has located the ELIZABETH M. lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 320 feet on said vein running N. 67° E. from the center of the discovery shaft and 1180 feet running S. 87° W. from the center of the discovery shaft, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Coral Mining District, County of Clear Creek and State of Colorado, and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1, the northwest corner, identical with Cor. No. 1, Sur. No. 17961, Houghton Lode; thence N. 87° E. 750 feet to the north side center stake and 1500 feet to Cor. No. 2; identical with Cor. No. 2, Sur No. 17961, Houghton Lode; thence S. 3° E 600 feet to Cor. No. 3; thence S. 87° W. 750 feet to the south side center stake and 1500 feet to Cor. No. 4; thence N. 3° W. 600 feet to Cor. No. 1, the place of beginning.

Said lode was discovered on the 16th day of October, A. D. 1950
and located on the 16th day of October, A.D. 1950
Dated this 27th day of October, A.D. 1950.

Gold Bar Mines Inc. (SEAL)
By James R. Manning (SEAL)
Harry W. Zook (SEAL)

Filed for record this 28th day of October, A.D. 1950, at 11 o'clock A.M.

NO. 97407

K. E. Moscript,
County Clerk

- -

STATE OF COLORADO,
County of Clear Creek, } ss.

I, K. E. Moscript, County Clerk and Recorder in and for said County and State aforesaid, do hereby certify that the above and foregoing is a true and correct copy as the same is taken from Book 245 Page 1 of the records in my office properly remaining.

Given under my hand and seal at Georgetown, Colorado, this 12th day of May, A. D. 1952.

(Signed) K. E. Moscript
K. E. Moscript,
County Clerk

Gold Bar Mines, Inc.
1115 Main St.,
Louisville, Colorado

STATE OF COLORADO)
) ss.
County of Clear Creek,)

KNOW ALL MEN BY THESE PRESENTS, That GOLD BAR MINES INC. the undersigned has this 16th day of October, 1950, amended, located and claimed, and by these presents do amend, locate and claim, by right of discovery and amended location certificate 1500 linear feet and horizontal measurement on the MARTHA E. lode, vein, ledge or deposit, along the vein thereof, with all its dips, angles and variations, as allowed by law, together with 75 feet on the Southerly side and 275 feet on the Northerly side of the middle of said vein at the surface, so far as can be determined from present developments, and all veins, lodes, ledges or deposits and surface ground within the lines of said claim, 275 feet running N. 69° 20' E. from center of discovery tunnel and 1225 feet running S. 69° 20' W. from center of discovery tunnel said discovery tunnel being situate upon said lode, vein, ledge or deposit, and within the lines of said claim, in Coral Mining District, County of Clear Creek and State of Colorado, described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1, the southeast corner, identical with Cor. No. 1, Sur. No. 16169, Connemara No. 2 lode; thence S. 69° 20' W. 750 feet to the south side center stake and 1500 feet to Cor. No. 2, identical with Cor. No. 4, Sur. No. 16169, Connemara No. 2 Lode; thence N. 21° W. 350 feet to Cor. No. 3; thence N. 76° 55' E. 757 feet to the north side center stake and 1514 feet to Cor. No. 4, identical with Cor. No. 2, Sur. No. 16169, Blue Ridge Lode; thence S. 21° E. 150 feet to Cor. No. 1 the place of beginning.

This being the same lode originally located on the 3rd day of September, 1948, and recorded on the____day of_____1_____, in book_____ page_____in the office of the Recorder of Clear Creek County.

This further and amended certificate of location is made without waiver of any previously acquired rights, but for the purpose of correcting any errors in the original location description or record.

Said lode was discovered the 3rd day of Sept., A.D. 1948.
ATTEST:_____

Date of Amended Location Oct. 16th, A.D. 1950
Date of Amended Certificate Oct. 27th, A.D.1950

Gold Bar Mines,Inc.
(SEAL)
By James R. Manning
(SEAL)
Harry W. Zook
(SEAL)

Filed for record the 28th day of October, A.D. 1950 at 11 o'clock A.M.

K. E. Moscript.
Recorder

NO. 97408

- -

STATE OT COLORADO)
) ss.
County of Clear Creek,)

I, K. E. Moscript, County Clerk and Recorder in and for said County and State aforesaid, do hereby certify that the above and foregoing is a true and correct copy as the same is taken from Book 245 Page 3 of the records in my office properly remaining.

Given under my hand and seal at Georgetown, Colorado, this 12th day of May, A. D. 1952.

(Signed) K. E. Moscript
K. E. Moscript
County Clerk

Gold Bar Mines, Inc.
1115 Main St., Louisville Colorado

No. 162. LOCATION CERTIFICATE—Lode Claim.—The Bradford-Robinson Ptg. Co., Mfrs. Robinson's Legal Blanks, Denver.

KNOW ALL MEN BY THESE PRESENTS, That James R. Manning

has located the MARTHA E. lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 275 feet on said vein running N. 69°-20' E. from the center of the discovery tunnel and 1225 feet running S. 69°-20' W. from the center of the discovery tunnel, together with 30 ft. on the northerly side and 120 ft. on the southerly side ~~feet on each side~~ of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Coral Mining District, County of Clear Creek, and State of Colorado and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1, the S.E. corner, identical with Cor. No. 1, Sur. No. 16169, Connemara No. 2 Lode; thence S. 69°-20' W. 750 ft. to the south side center stake and 1500 ft. to Cor. No. 2, identical with Cor. No. 4, Sur. No. 16169, Connemara No. 2 Lode; thence N. 21° W. 150 ft. to Cor. No. 3; thence N. 69°-20' E. 750 ft. to the north side center stake and 1500 ft. to Cor. No. 4, identical with Cor. No. 2, Sur. No. 16169, Blue Ridge Lode; thence S. 21° E. 150 ft. to Cor. No. 1, the place of beginning.

Said lode was discovered on the 3rd day of September, A. D. 19 48
and located on the 3rd day of September, A. D. 19 48
Dated this Fifteenth day of September, A. D. 19 48

James R Manning [SEAL]

[SEAL]

[SEAL]

[SEAL]

[SEAL]

[SEAL]

Gold Bar Mines, Inc.
1115 Main Street, Louisville, Colorado

No. 9. MINING DEED.—For sale by The W. F. Robinson Printing Co., Manufacturing Stationers, 1514 Arapahoe Street, Denver, Colo.

This Indenture. Made the 21st day of October in the year of our Lord one thousand nine hundred and fifty, between Ellwood Garrett

of the County of Clear Creek and State of Colorado, party of the first part, and James R. Manning

of the County of Boulder and State of Colorado, party of the second part;

WITNESSETH, That the said party of the first part, for and in consideration of the sum of Eight hundred and fifty & no/100 Dollars, lawful money of the United States of America, to her in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, has granted, bargained, sold, remised, released and forever quit-claimed, and by these presents does grant, bargain, sell, remise, release and forever quit-claim, unto the said party of the second part, and to his heirs and assigns all right, title and interest in and to the Bell Lode mining claim and the Orton Lode mining claim included in U.S. Survey No. 7649, in Coral Mining District, Clear Creek County, State of Colorado.

TOGETHER with all the dips, spurs and angles, and also all the metals, ores, gold and silver bearing quartz, rock and earth therein, and all the rights, privileges and franchises thereto incident, appendant and appurtenant, or therewith usually had and enjoyed; and also all and singular the tenements, hereditaments and appurtenances thereto belonging, or in anywise appertaining, and the rents, issues and profits thereof; and also all the estate, right, title, interest, property, possession, claim and demand whatsoever, as well in law as in equity, of the said party of the first part, of, in or to the said premises, and every part and parcel thereof, with the appurtenances.

TO HAVE AND TO HOLD, All and singular the said premises, together with the appurtenances and privileges thereto incident, unto the said party of the second part his heirs and assigns forever.

IN WITNESS WHEREOF, The said party of the first part has hereunto set her hand and seal the day and year first above written.

Signed, Sealed and Delivered in Presence of:

James T. Garrett

Ellwood Garrett (SEAL)

(SEAL)

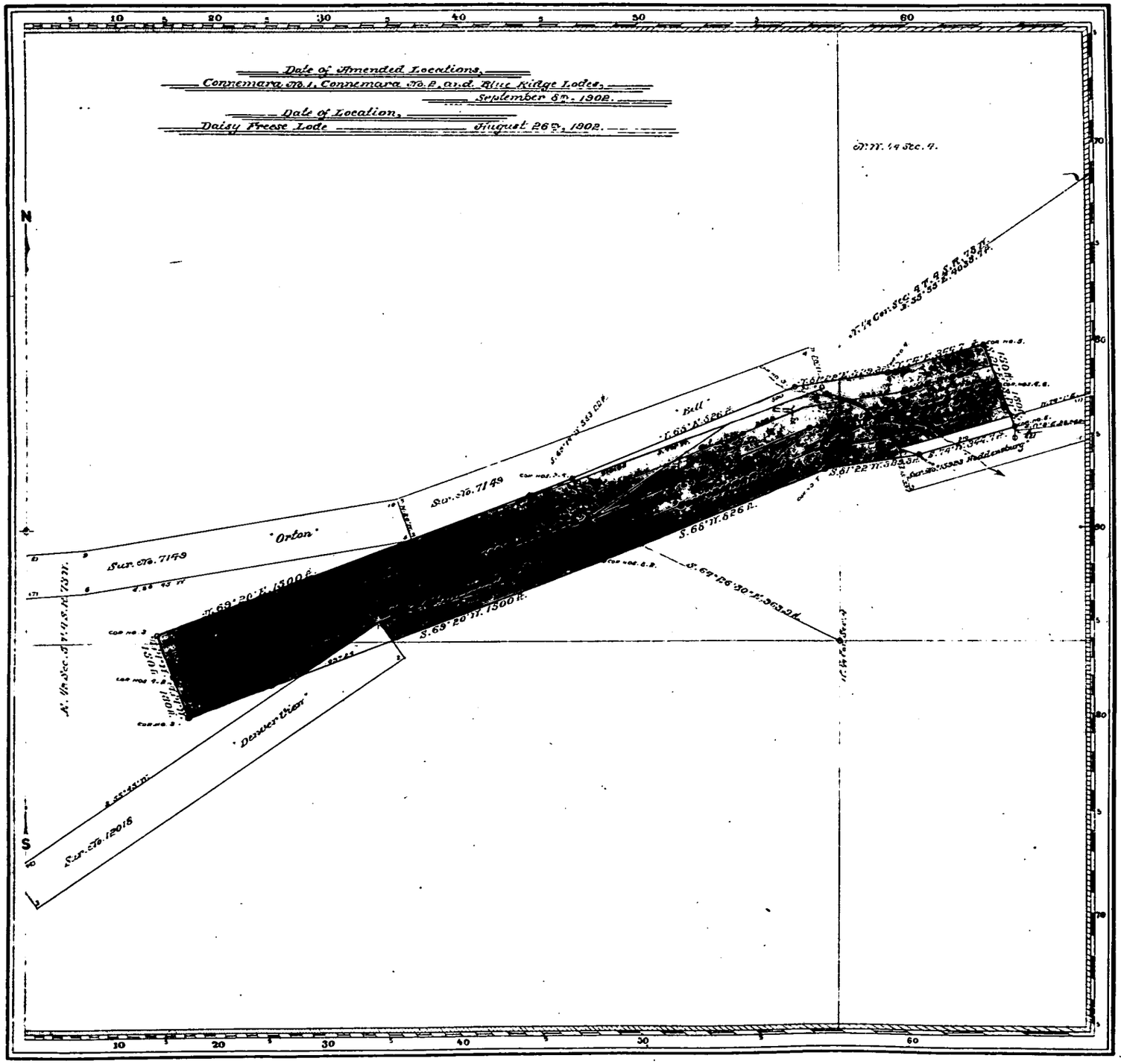
(SEAL)

Gold Bar Mines, Inc.
1115 Main Street, Louisville, Colorado

(4-675)

Rec'd S.G.O. Sept 30th 1902
" " Oct 2nd 1903.
" " 12th, 1903.
" " 16th, 1903.

Gold Bar Mines, Inc.
1115 Main Street,
Louisville, Colorado



~~Claim Located~~ 190

Mineral Survey No. 16169

Lot No.

Denver Land District.

PLAT

OF THE CLAIM OF

MARY JANE SIMMONS,

KNOWN AS THE

CONNEMARA NO. 1, CONNEMARA NO. 2, BLUE RIDGE AND DAISY FREESE LODES,

IN CORAL MINING DISTRICT,

CLEAR CREEK COUNTY, COLORADO

Containing an Area of 19.365 Acres.

Scale of 300 Feet to the inch.

Variation 14°30' East

SURVEYED September 25th, 1902 BY

Percy P. Barbour, U.S. Deputy Mineral Surveyor,

The Original Field Notes of the Survey of the Mining Claim of Mary Jane Simmons, known as the Connemara No. 1, Connemara No. 2, Blue Ridge, and Daisy Freese Lodes,

from which this plat has been made under my direction have been examined and approved, and are on file in this Office, and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon said Mining Claim by claimant ____ or her grantors, and that said improvements consist of five shafts and three tunnels, as appears by the affidavit of the deputy surveyor,

that the location of said improvements is correctly shown upon this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

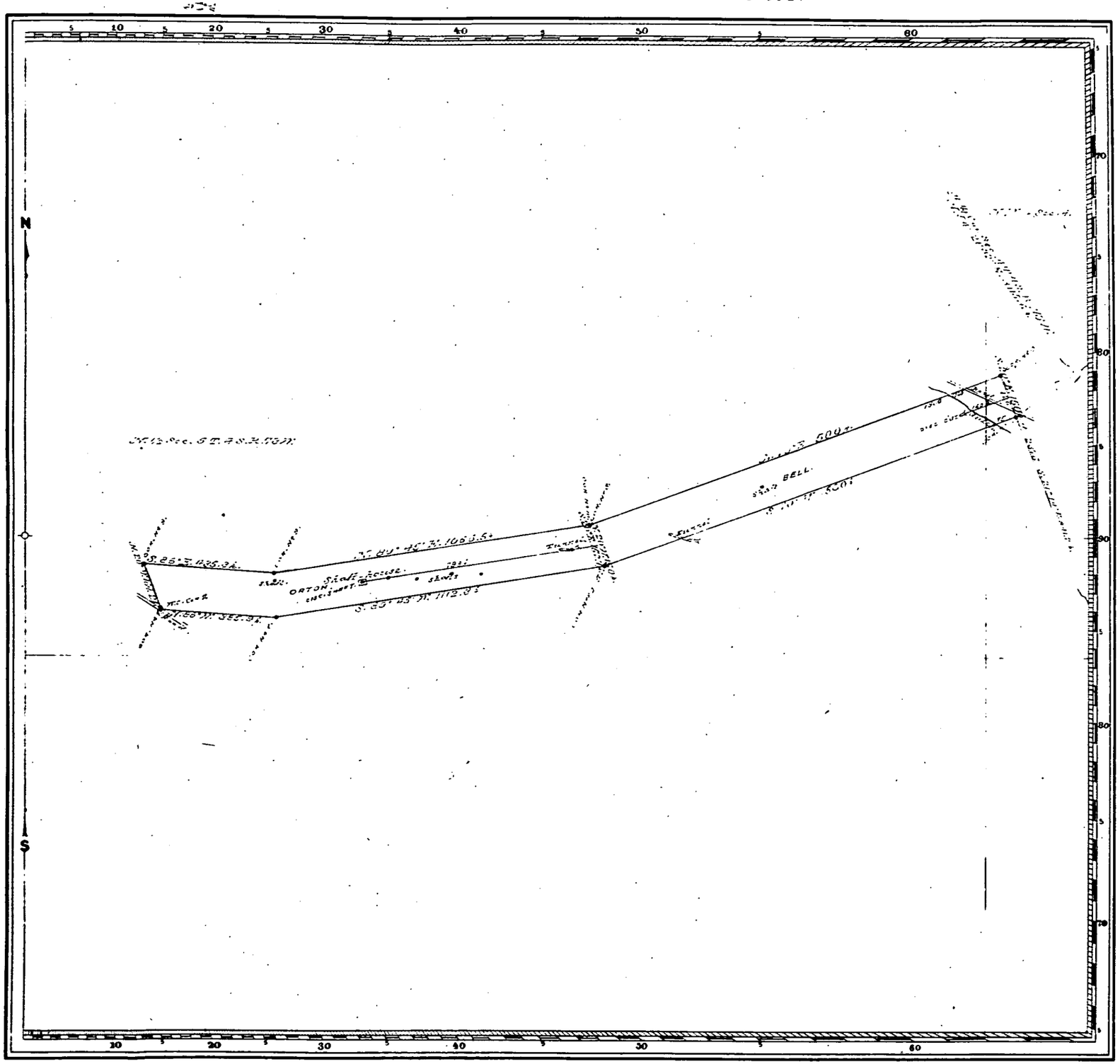
And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office.
Denver, Colorado,
January 29th 1903.

E. C. Bordole
U.S. Surveyor General for Colorado.

E.H.B.
E.G.B.
J.O.P.
L.L.
L.E.K.
E.S

(4-675)



Date of Location [illegible] Filed 20th 1891.
Date of Relocation [illegible] Filed [illegible] 1891.

Mineral Survey No. 7149

LOT No.

CENTRAL CITY Land District.

PLAT

OF THE CLAIM OF

ORTON COOK

KNOWN AS THE

BELL AND ORTON LODES.

IN CORAL MINING DISTRICT,

CLEAR CREEK COUNTY, COLORADO.

Containing an Area of [illegible] Acres.

Scale of 300 feet to the inch.

Variation

SURVEYED September 22nd 1891 BY

Fred H. Stevens

U.S. Deputy Mineral Surveyor.

The Original Field Notes of the Survey of the Mining Claim of Orton Cook known as the Bell and Orton Lodes, from which this plat has been made under my direction have been examined and approved, and are on file in this Office; and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon said Mining Claim by claimant [illegible] or his grantors, and that said improvements consist of six shafts, two tunnels, a cut and a shaft-house, as appears by the affidavit of the deputy surveyor.

that the location of said improvements is correctly shown upon this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office.

Denver, Colorado.

November 21st 1891.

[illegible]

U.S. Surveyor General for Colorado.

Gold Bar Mines, Inc.
1115 Main Street,
Louisville, Colorado

DMEA
2782

Form 6-30
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
224 New Customhouse
Denver 2, Colorado
OFFICIAL BUSINESS
16—47319-2

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(GPO)

REGISTERED
RETURN RECEIPT

60187

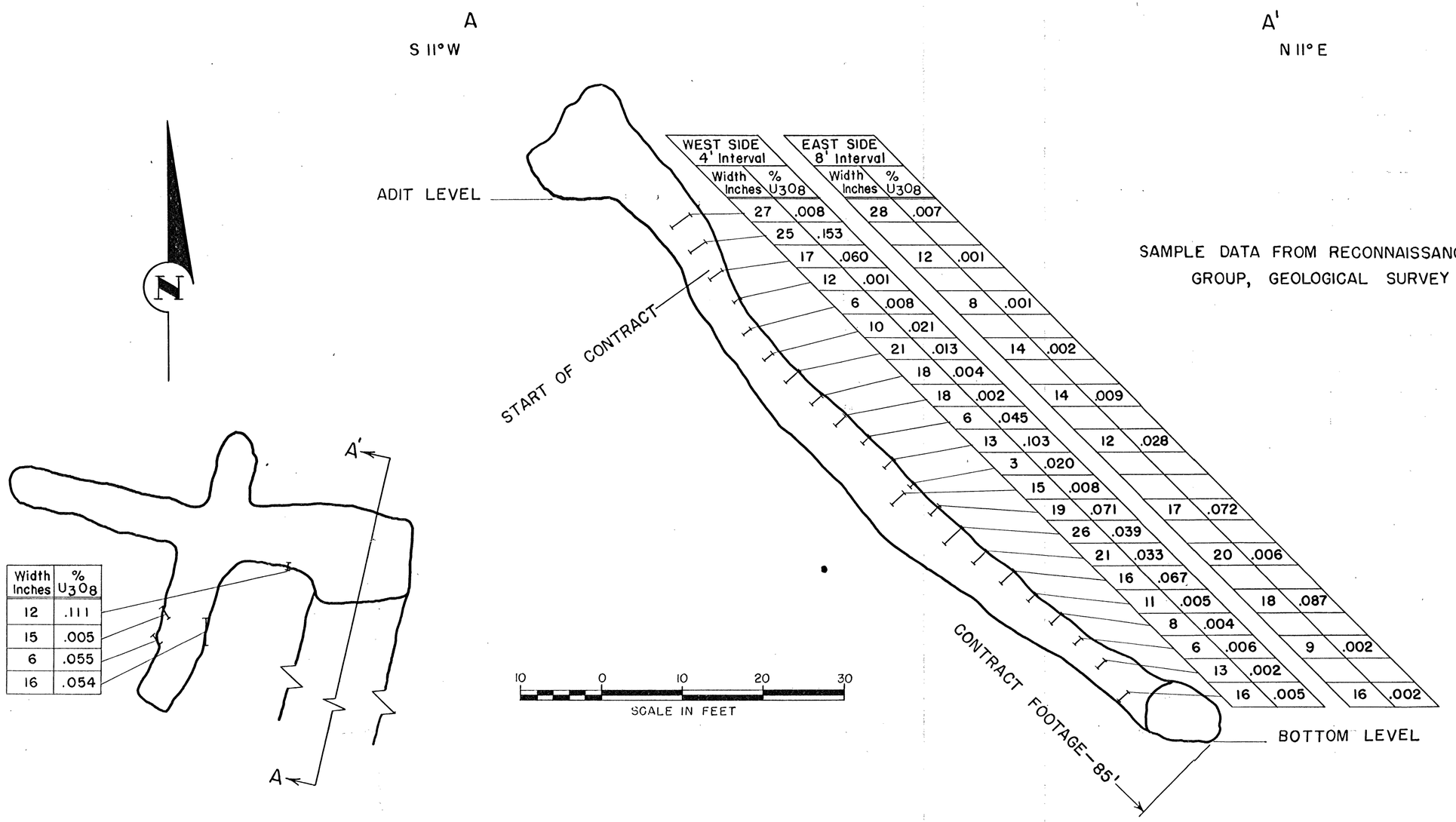
Registered Mail
Return Receipt Requested

Mr. C.O.Mittendorf, Administrator
Defense Minerals Exploration Administration
Interior Building
Washington 25, D.C.

JUL - 2 7 1953
RECEIVED

DENVER
JUL 1953
U.S.G.S.

WASHINGTON, D. C.
JUL 24
REG. DIV.



SAMPLE DATA FROM RECONNAISSANCE GROUP, GEOLOGICAL SURVEY

PLAN OF BOTTOM LEVEL

SECTION THRU WINZE

MINERAL RESOURCES BRANCH – MINING DIVISION
REGION IV
BUREAU OF MINES

FIGURE 3 – PLAN AND SECTION SHOWING SAMPLE LOCATIONS, MARTHA E. MINE, CLEAR CREEK COUNTY, COLO. (DMEA 2782)