☑ Audited

☐ Certified

WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of Dec. 7 1954
Incl. Voucher for April 1958

☐ Actual Cost

☑ Agreed Unit Costs

Name Gold Bar Mines, Inc.

Docket No. 2782

State Colorado

Commodity Uranium

Idm-E No. 483

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	20'	$ 560.00	20	$ 560.00	$ 560.00
Raising					
Shafts					
Winzes	85'	6,800.00	85	6,800.00	6,800.00
Drilling (Specify)					
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation		400.00		400.00	400.00
New Building, Improvements, etc.					
Other (Specify)					
Totals		$ 7,760.00		$ 7,760.00	$ 7,760.00

Prepared by [signature]

71626

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

SUMMARY

Rare and Misc. Metals Division

DMEA

Docket No. DMEA-2782 (finalized by Region IV)
Contract No. Idm-E483
Contract date: February 4, 1953
Commodity: Uranium
Contractor: Gold Bar Mines, Inc.,
Location of property: Clear Creek County, Colorado
Contract amount: $7,760.00
Government participation $6,984.00 (90%)

Audit Certificate: Dated June 25, 1953
Total cost accepted: $7,760.00
Government share: $6,984.00

The project work was started on February 4, 1953, and completed on April 29, 1953.

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. Additional cross-cutting 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.

All uranium mineralization exposed in ground opened up under the project proved 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 or development is not recommended.

On April 6, 1953, the Operator 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 by the Field Team.

The Operator's final report was submitted on June 12, 1953, and the joint report of the examining team of the Bureau of Mines and the Geological Survey was transmitted to the Operating Committee with the Field Team's memorandum dated July 21, 1953.

A"Completion" letter was prepared by the Division on August 3, 1953.

ELR

7/31/53 g

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

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 DMEA-183, Gold Bar Mines, Inc., Clear Creek County, Colorado

Inclosed 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 DM-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.

Reviewed by
DMEA OPERATING COMMITTEE

7-29-53
(date)

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Inclosures

cc: Townsend
Traver w/1 copy of each report
Koschmann w/1 copy of each
C. C. Towle, AEC, w/1 copy
Chron. Subject

gic reports

Final Field Team
Report

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
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-2483 (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:smh

cc: 10
2483
DMEA Chron.

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

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 2702, Exploration Project Contract Idm-2483

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 2762
Contract Idm-E483

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

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Location, history, production, ownership 2
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Efficiency of operation 6
Equipment 6
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ILLUSTRATIONS

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DMEA 2782
Contract Idm-R483

GOLD BAR MINES, INC.
MARTHA N 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-R483, provided Government assistance in exploring for uranium at the Martha N 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.

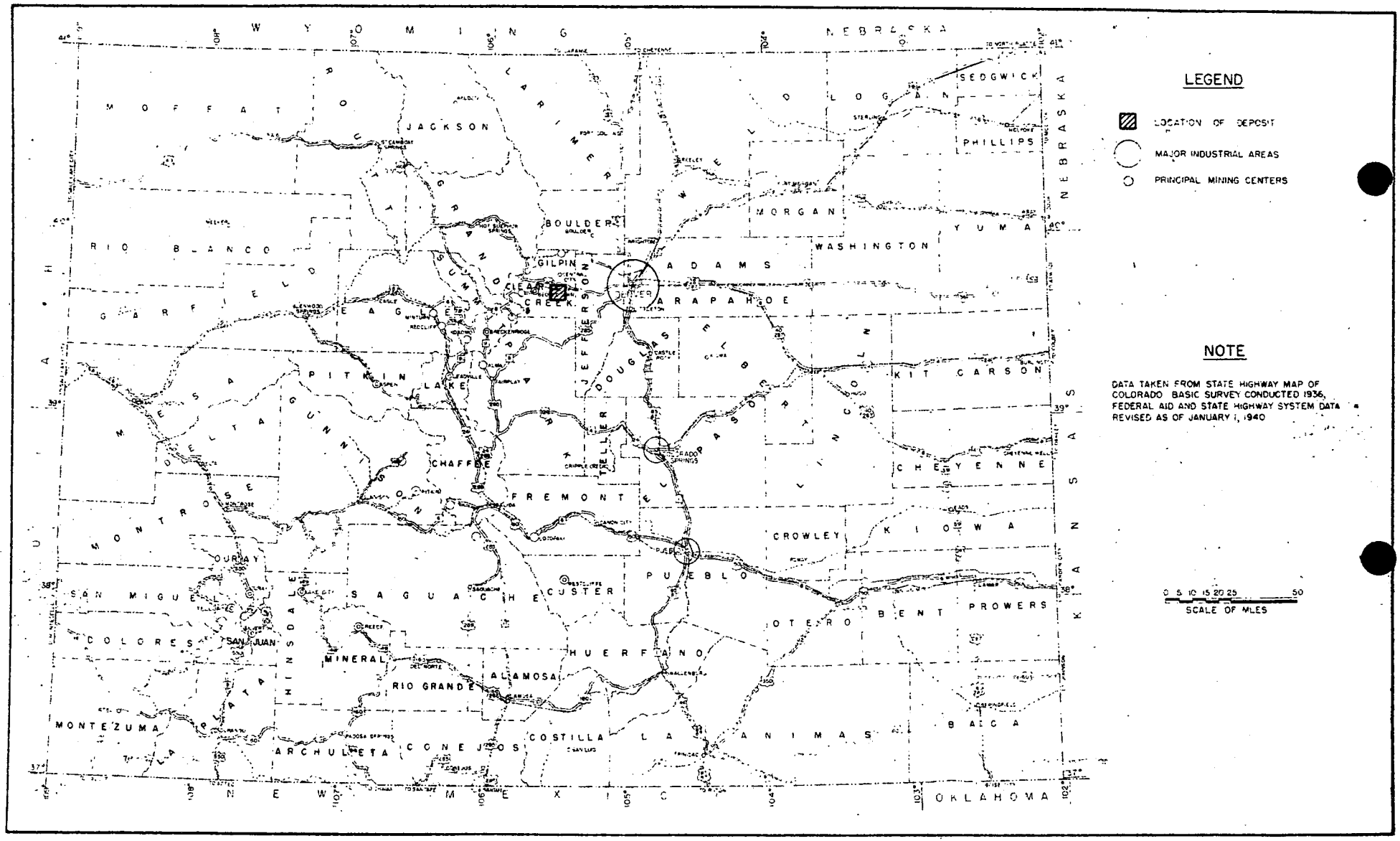


Figure 1 - Location map, Elizabeth M. lode, Gold Bar Mines, Inc., Clear Creek County, Colorado - DMEA 2782

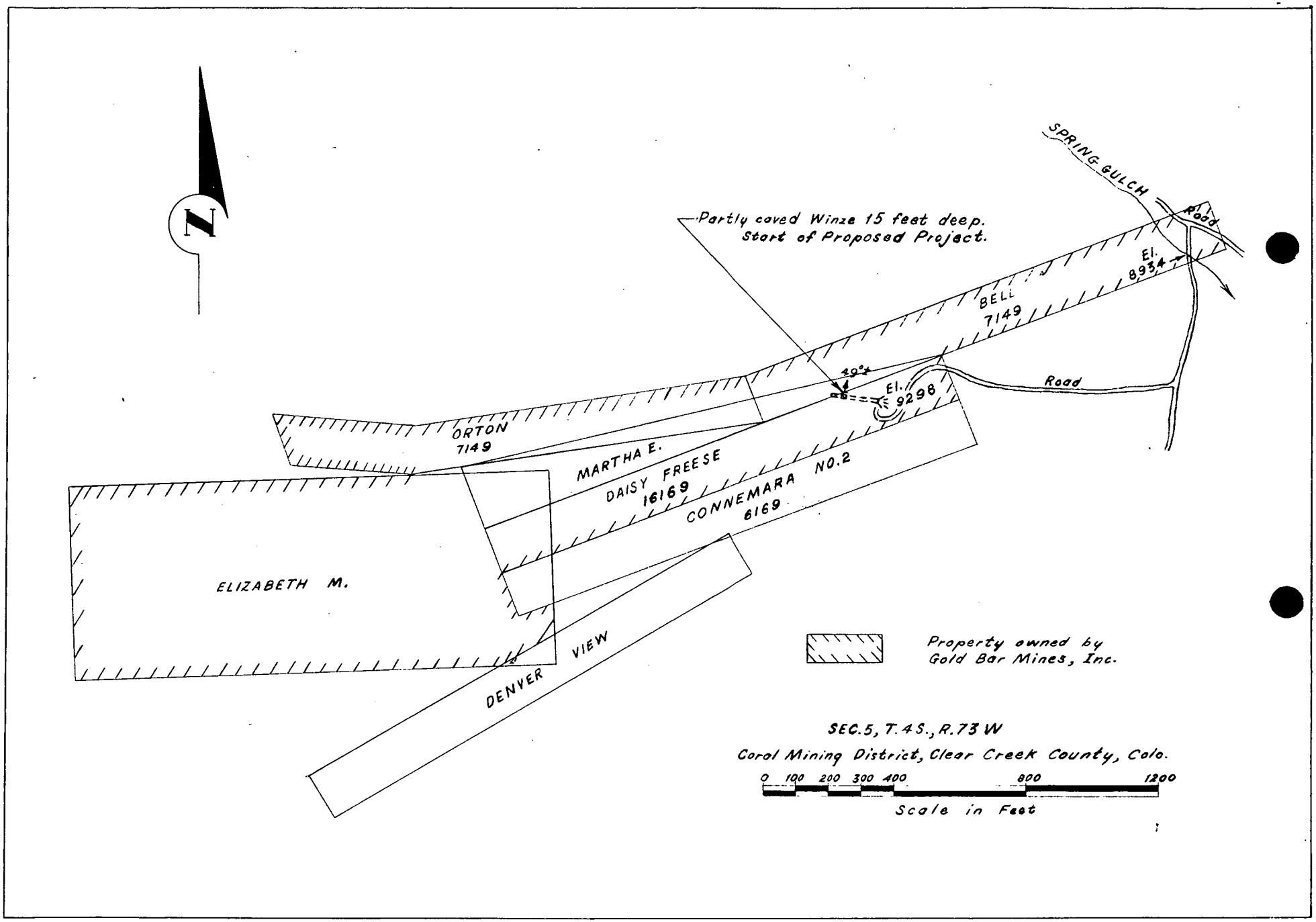


FIGURE 2 - GOLD BAR MINES INC., CLAIM AND PROJECT MAP, CLEAR CREEK CO., COLO. DMEA 2782

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-2483, 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. Rock, 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)

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.

7/24/53 gla

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

June 12th, 1953.

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

Re. Docket No. DMEA-2732
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 5,984.00

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.

Opr.'s final rept.

7/6/53 gla

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

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

pertaining to Exploration Project Contract No. Idm-2483, Docket No. DMEA 2782, covering a project for exploration of Uranium, for the period from February 4, 1953, to April 30, 1953.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of costs claimed with the contract and pertinent schedules, consultation with the Government representative who visited and examined the project, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reasons:

The contract provides for payment by the Government on the basis of agreed estimated costs of units of work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by Contractor		$7,760.00
Exceptions:		
By DMEA Finance Officer	None	
Herewith (Schedule Attached)	None	
Total Accepted Cost		$7,760.00

The contract calls for a 90 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Six thousand, nine hundred eighty four Dollars and No/100

- $6,984.00 -

is considered valid and proper.

Date: June 25, 1953.

T. H. Brading

T. H. Brading, Auditor

Final Audit Report

February 12, 1953

Memorandum

To: Lazel Berry, Operating Committee

From: Grace [illegible] Ault, Rare and Misc. Metals Division

Subject: Amendment, [illegible]-1311[illegible], Contract [illegible]-175
Executed contract, [illegible]-2705, [illegible]-[illegible]5
Executed contract, [illegible]-2782, [illegible]-[illegible]83

Mr. Mills has reviewed the following and approves same:

[illegible]-1311 The Vanity Company, Contract [illegible]-175

Amendment No. 7, dated February 3, 1953

[illegible]A-2705 Jesse Glen Shumway - Grant Leo Shumway
Contract No. [illegible]-[illegible]5

Contract finalized by [illegible] I, dated Feb. 6, 1953

[illegible]-2782 Gold Bar Mines, Inc., Contract No. [illegible]-[illegible]3

Contract finalized by [illegible] II, dated Feb. [illegible], 1953

Grace [illegible] Ault

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

224 New Customhouse
Denver 2, Colorado

February 6, 1953

REGISTERED

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 9 1953

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

Date 9-11-53

Engineer Ellis

Gold Bar Mines, Inc.

DMEM - 2782

Idm-D 4/83

Attached is ~~an agreement to the above~~ contract to be reviewed.

Approval

Finalized by Reg IV

Other action

Please return this slip to me for my records.

Mrs. Ault

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 9 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, equipment, [redacted] 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 James R. Manning

By W. H. Kerg
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.

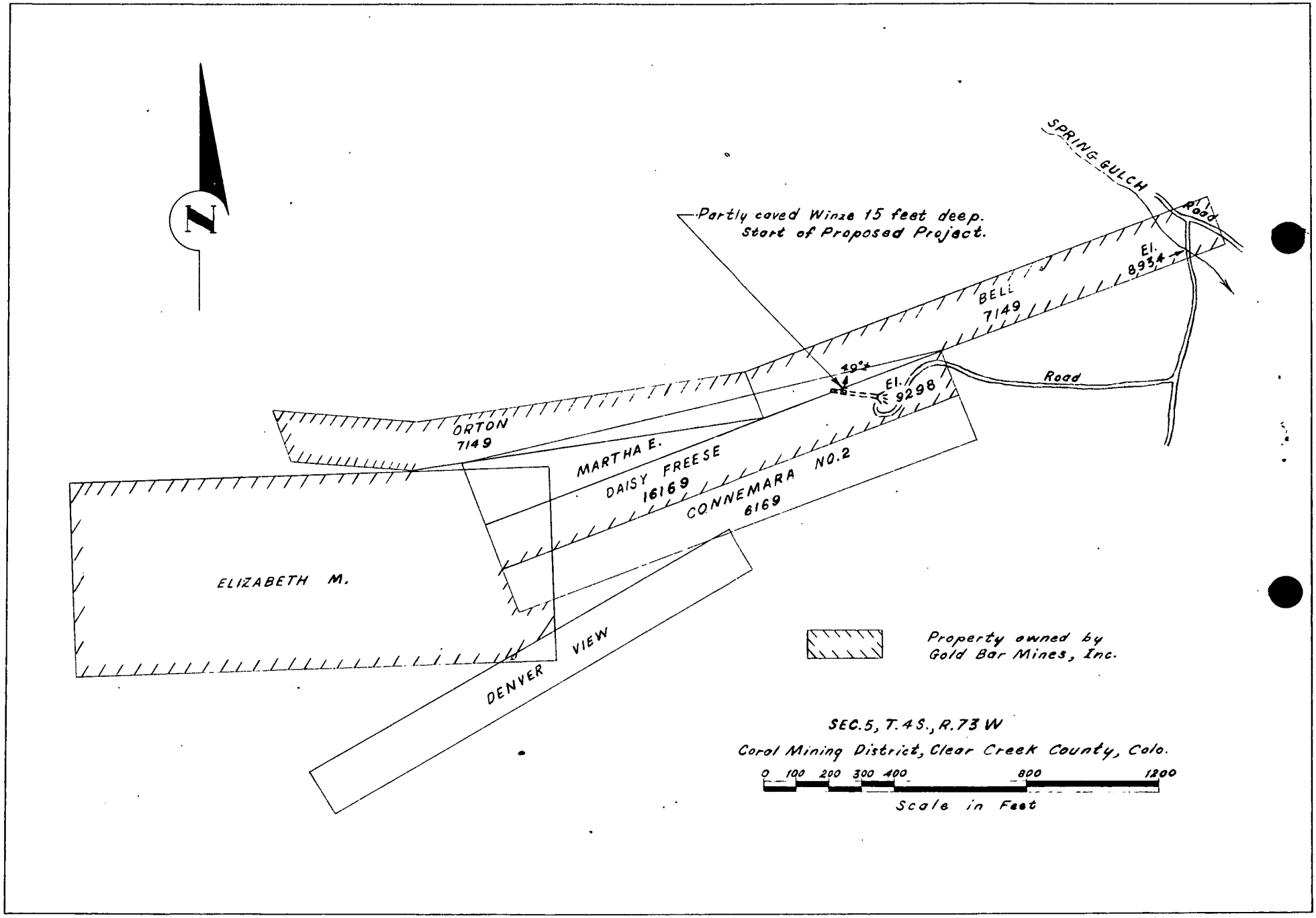


FIGURE 3 - GOLD BAR MINES INC., CLAIM AND PROJECT MAP, CLEAR CREEK CO., COLO. DMEA 2782

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

224 New Customhouse
Denver 2, Colorado

August 19, 1953

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, DMEA Field Team, Region IV

Subject: Final Report MF-104, DMEA Docket 2782, Contract Idm-E483 (Uranium), Gold Bar Mines, Inc. (Martha E. Mine), Clear Creek County, Colorado.

Enclosed are two copies of the Operator's Final Progress Report MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of April, 1953, pertaining to DMEA Docket 2782, Contract Idm-E483, Gold Bar Mines, Inc. (Martha E. Mine). Since this contract was prepared on MF-200(A), short form, there is no property or equipment to be disposed of in which the Government has an equity.

Forms were processed for payment in conformance with the final Report of Review by the Contract Administration and Audit Division, dated June 25, 1953, and released to this office July 20, 1953.

Copies of Engineer's Final Report, Geologist's Final Report, and Operator's Final Report will be transmitted at a later date after all have been submitted.

Rec'd. 7/30/53 see Reg. IV memo 7/7/53

Total Government participation under this contract amounted to $6,984.00.

W. H. King
W. H. King

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

224 New Customhouse
Denver 2, Colorado

July 21, 1953.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2782, Contract Idm-E483 (Uranium), Gold Bar Mines, Inc. (Martha E Mine), Clear Creek County, Colorado - Operator's Monthly Progress Report for the month of April 1953.

Enclosed are the original and four copies of Form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period which constitute the Operator's final claim for reimbursement under the terms of the contract. The Operator has complied with the terms and conditions of the contract and final payment is recommended on the following basis, which is in conformance with the final Report of Review by the Contract Administration and Audit Division, dated June 25, 1953, which was released to this office July 20, 1953.

Basis for Final Payment

Total Government Participation as Allowed by Report of Review	$6,984.00
Prior Payments	5,472.00
Balance due the Operator	1,512.00

Reconciliation of Final Payment by the Amount Claimed on the Operator's Final Report for the month of April 1953.

Amount Claimed by the Operator	$1,680.00
Government Participation at 90%	1,512.00

W. H. King
W. H. King

Enclosures
JWT:cwm

cc: Contract
Secretary to the Oper. Comm. (2)
WRStorms
Chron.
JWTownsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
May 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 - Progress report for April 1953

Enclosed please find the original and four copies of the above progress report--forms MF-104 and MF-104A, with narrative--and the original and six copies of W. L. Dare's memorandum covering inspection of the underground progress and reporting form entries. The contract is short form MF-200 (A).

The inspecting engineer verifies the 20 feet of crosscutting and 14 feet of winze advance reported in the narrative and entered on the MF-104A form.

Uranium mineralization is weak at the bottom of the winze and also in the crosscut, as it has been throughout the winze. A memorandum is being prepared recommending denial of request for an amendment by the operator to allow additional funds for drifting westward on the 100-foot winze level.

Work was completed in accordance with the terms of the contract and documentation is not required. Payment is approved and certified properly on the MF-104 form of $1,512.00, or 90 percent of the total $1,680.00 claimed by the contractor.

Wm. Traver

W. M. Traver

enclosures

WMT/cb

cc: 4
E483
DMEA Chron.

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
May 7, 1953

Memorandum

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

From: W. L. Dare

Subject: DMEA 2782, Contract Idm-E483 (Uranium), Gold Bar Mines, Inc. (Martha E mine), Clear Creek County, Colorado - Progress report for April 1953

The Martha E mine was visited on May 5, 1953, and underground advance checked with Harvey W. Zook, general manager. Under the DMEA contract the winze has been sunk a total of 85 feet, the total footage as stipulated in the contract. The operator drifted about 17 feet west of the manway before he began crosscutting in order to eliminate excessive timbering at the station. Crosscut footage totals 26 feet. Five feet were advanced in the hanging wall and 21 feet were advanced into the footwall. The faces of both crosscuts are in fresh unaltered schist so it is believed that the width of the shear zone has been determined in the immediate area. After crosscutting, Zook put one more round into the drift. The attached sketch shows winze and crosscut advance.

Zook reported that he has purchased a pump to keep the winze workings drained, though at the present time he anticipates no additional work.

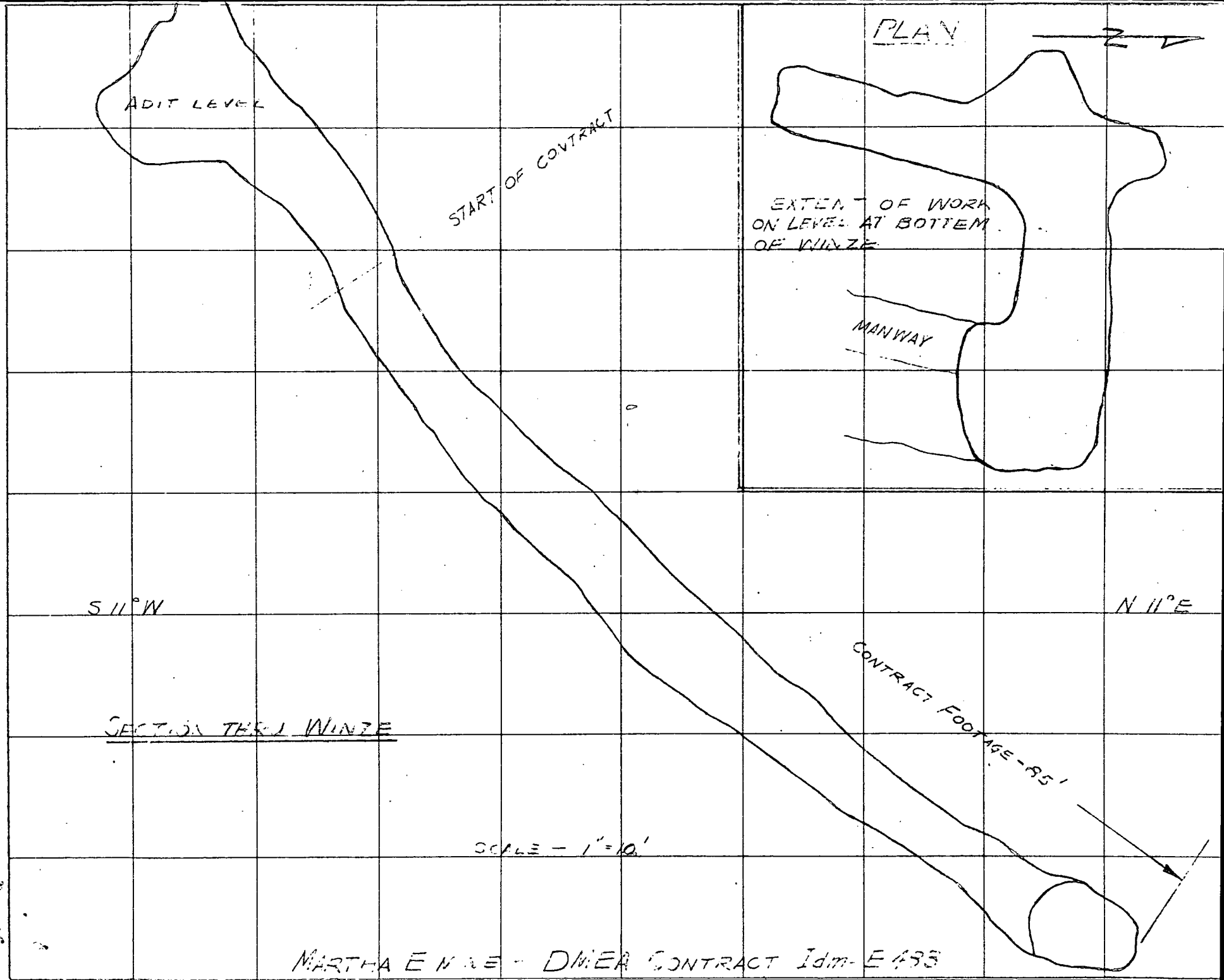
The reported 20 feet of crosscutting and 14 feet of winzing shown on form MF-104A are approved, and work as authorized in the contract has been completed. Mineralization as noted in the bottom level is about the same as was noted in the adit level, irregular and submarginal.

Payment based on the short-form type contract is recommended as $1,512.00, which is 90 percent of the reported $1,680.00.

W. L. Dare
Mining Engineer

WLD/cb

cc: 6
E483
DMEA Chron.


PLAN
N
EXTENT OF WORK ON LEVEL AT BOTTOM OF WINZE
MANWAY
ADIT LEVEL
START OF CONTRACT
S 11° W
N 11° E
CONTRACT FOOTAGE - 95'
SECTION THRU WINZE
SCALE - 1" = 10'
MARTHA ENNIS - DMEA CONTRACT Idm-E 435

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1953 Docket No. DMEA 2782 Contract No. Idm-E483
Operator's Name Gold Bar Mines, Inc. Minerals Uranium
Address Idaho Springs, Colo.
Contract Amount, $ 7760.00 Government Participation: 90 % Amount, $ 6984.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
~~Drifting~~ Winzing	1120.00	5680.00	6800.00			
Bulldozing						
Crosscutting	560.00	-0-	560.00			
Drifting						
Winze rehabilitn	-0-	400.00	400.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1680.00	6080.00	7760.00	1680.00	6080.00	7760.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date May 1"/53 *Payee Gold Bar Mines, Inc.
Per [signature] Title General Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1512.00

Signature [signature]
(Authorized Certifying Officer)

Date 8/5/53 Vou. No. DMA 54-12

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Ida-E483 in accordance with the terms of the contract.

Signature [illegible] $1512.00 WMT Title Mining Engineer Date 5-6-53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. H. King Title Executive Officer Date JUL 21 1953

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1953 Docket No. DMEA 2782 Contract No. Idm-E483
Operator's Name Gold Bar Mines, Inc. Minerals Uranium
Address Idaho Springs, Colo.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting	Feet	560.00	20	560.00	20	28.00	20	28.00
Raising								
Shafts								
Winzes	Feet	1120.00	14	6800.00	85	80.00	85	80.00
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Winze Rehabilitation		-0-	-0-	400.00	1	400.00	1	400.00
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1680.00		7760.00				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date May 1st/53 Operator Gold Bar Mines, Inc.
Per Harry W. Zook Title General Manager

REMARKS:
Stage I
Stage II

NOTE.—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.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

Gold Bar Mines, Inc.
Idaho Springs, Colo.

April 30", 1953.

Mr. W. M. Traver, Chief
Mineral Resources Branch
Mining Division, Region IV
Bureau of Mines
Building 20, Room 137
Denver Federal Center
Denver 14, Colo.

Re: DMEA 2782, Contract Idm-E483

Dear Mr. Traver:

Winze was sunk an additional 14 feet and 20 feet of cross-cutting has been completed, according to Contract.

In cross-cutting two (2) radio-active veins were encountered.

Completion of above work as per Contract, April 29th, 1953.

Very truly yours,
Gold Bar Mines, Inc.

By Harvey W. Zook
Harvey W. Zook

8/13/53 gla

IN REPLY REFER TO:

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

L. 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-1483, 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.

Copy to: L. Wm. Ellis - 2

Mr. J. [illegible] Fanning, President
Gold Star Mines, Inc.,
1115 Main St.
Louisville, Colorado

AUG 5 1953

Project No. [illegible]-2732 (Fraction)
Contract No. [illegible]-613
Five mining claims located in
the Coral Mining District,
Clear Creek County, Colorado

Dear Mr. Fanning:

This is with reference to the subject Exploration Contract between you and the Government, dated February [illegible], 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 mined materials, samples 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

FEEnnes/cla/db
8-4-53
cc to: Adm. Reading File
Operating Committee
Docket
Theodore H. Meiner, No. 3941
A.F.Butler, Jr., No. 3206, GSA
F.[illegible]Johnson, No. 1664
J.L.Chambers, No. 1512
File
Enness

7/31/53 gla

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

Bureau of Mines
Uranium Branch 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.

Signed

R. F. Griffith

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

224 New Customhouse
Denver 2, Colorado

April 15, 1953.

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 20 1953

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2782, Contract Idm-E483 (Uranium), Gold Bar Mines, Inc., Clear Creek County, Colorado.

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and 104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of March 1953, pertaining to DMEA Docket 2782, Idm-E483 (Uranium), Gold Bar Mines, Inc., Clear Creek County, Colorado.

W. H. King

W. H. King

Enclosures

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

224 New Customhouse
Denver 2, Colorado

April 8, 1953

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 20 1953

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2782, Contract Idm-E483 (Uranium) Gold Bar Mines, Inc. Clear Creek County, Colorado - Operator's Monthly Progress Report, for the period March 1953

Enclosed are the original and four copies of Form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore we recommend that payment be made for 90 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks:

Date of Report----------April 1, 1953
Date Received in Field Office---------- ?
Date Received in Region Office----------April 7, 1953
Date Processed for Payment----------April 7, 1953

RDB:es
cc: Contract
Sec. to the Oper. Comm.(2)
Traver
Chron.
Enclosures

W. H. King
W. H. King

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
April 6, 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 - Progress report for March 1953

Enclosed please find the original and four copies of the above progress report--forms MF-104 and MF-104A, with narrative--and the original and six copies of W. L. Dare's memorandum covering inspection of the underground progress and reporting form entries. The contract is short form MF-200 (A).

This project is on the property locally known as the Martha E mine and is referred to by that name by both the Reconnaissance Group (USGS) and the AEC. We are using that name hereafter for proper identification.

Dare verified the winze sinking footage of 58 feet for March and the entries and extensions on the reporting forms.

Work was completed in accordance with the terms of the contract and documentation is not required. Payment is approved and certified properly on the MF-104 form of $4,176.00, or 90 percent of the total $4,640.00 claimed by the contractor.

Wm M Traver

W. M. Traver

enclosures
WMT/amh
cc: 4✓
E483
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
April 6, 1953

Memorandum

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

From: W. L. Dare

Subject: DMEA 2782, Contract Idm-E483 (Uranium), Gold Bar Mines, Inc. (Martha E. mine), Clear Creek County, Colorado - Progress report for March 1953

The Martha E mine was visited on April 2, 1953. Underground progress was checked and found to be as reported. As of the date of the inspection, the winze had been sunk a total of 75 feet. Zook's crew quit on the morning of April 2 but he was confident that he would be able to obtain an additional crew in time to complete the last 10 feet of winze by April 10.

Zook was instructed to begin the 20 feet of approved crosscutting into the hanging wall at the bottom of the winze when completed. A close check will be kept on the crosscutting by personnel of the Reconnaissance Group of the Geological Survey.

Payment, based on the short-form type contract, is recommended as $4,176.00 which is 90 percent of the $4,640.00 reported.

W. L. Dare
W. L. Dare
Mining Engineer

WLD/amh

cc: 6
E483
DMEA Chron.

F[illegible]4 (Rev.)
[illegible]2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.
Defense Minerals Administration
RECEIVED
APR 20 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March 19[illegible] Docket No. DMEA 2782 Contract No. Idm-E483
Operator's Name Gold Bar Mines, Inc. Minerals Uranium
Address Idaho Springs, Colo.
Contract Amount, $ 7760.00 Government Participation: 90 % Amount, $ 6984.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Contracts: ~~Short Form~~ Winze Mining	4640.00	1040.00	5680.00			
Drilling						
Bulldozing						
Crosscutting						
~~Drifting~~ Winze rehabilitn	---	400.00	400.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	4640.00	1440.00	6080.00	4640.00	1440.00	6080.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date April 1/53 *Payee Gold Bar Mines, Inc.

Per Lawrence W. Beck Title General Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 4176.00

Signature [illegible]
(Authorized Certifying Officer)

Date 4/10/53 Vou. No. 53-118

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 7Am-E483 in accordance with the terms of the contract.

Signature W. Dare $4176.00 Title Mining Engineer Date 4-3-53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R.D.B.

Signature W. H. King Title Executive Officer Date APR 8 1953

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form M-104A
(April [illegible])

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 20 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1953 Docket No. DMEA 2782 Contract No. Idm-E483
Operator's Name Gold Bar Mines, Inc. Minerals Uranium
Address Idaho Springs, Colo.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes	Feet	4640.00	58	5680.00	71	80.00	85	$80.00
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Winze Rehabilitation		-0-	-0-	400.00	1	400.00	1	400.00
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		4640.00		6080.00				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date April 1", 1953 Operator Gold Bar Mines, Inc.

Per Harvey W. Zook Title General Manager

NOTE.—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.

(Instructions on reverse)

REMARKS:
Stage I
Stage II

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc.". The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

Gold Bar Mines, Inc.
Idaho Springs, Colo.

April 2nd, 1953.

Mr. W. M. Traver, Chief
Mineral Resources Branch
Mining Division, Region IV
Bureau of Mines
Building 20, Room 137
Denver Federal Center
Denver 14, Colo.

Re: DMEA 2782, Contract Idm-E483

Dear Mr. Traver:

Winze was sunk an additional 58 feet, stulls and lagging were set at 4 foot intervals, ladders were made up and installed in manway with landings every 15 feet. Boarded manway. Airlines and track were extanded.

The vein is still radio-active at this point.

Gold Bar Mines, Inc.

By Harvey W. Zook
Harvey W. Zook

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

Department of the Interior
Defense Minerals Administration
MAR 26 1953

224 New Customhouse
Denver 2, Colorado

March 18, 1953.

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2782, Contract Idm-E483 (Uranium), Gold Bar Mines, Inc., Clear Creek County, Colorado.

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and 104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of February 1953, pertaining to DMEA Docket 2782, Contract Idm-E483 (Uranium), Gold Bar Mines, Inc., Clear Creek County, Colorado.

W. H. King

W. H. King

Enclosures

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

224 New Customhouse
Denver 2, Colorado

March 12, 1953.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2782, Contract Idm-8483 (Uranium) Gold Bar Mines, Inc., Clear Creek County, Colorado. Operator's Monthly Progress Report for the period February 1953.

Enclosed are the original and four copies of Form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore we recommend that payment be made for 90 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks:

Date of Report	March 2, 1953.
Date Received in Field Office	March 2, 1953.
Date Received in Region Office	March 10, 1953.
Date Processed for Payment	March 11, 1953.

for John F. Shaw
W. H. King

Enclosures

RDB:cwm

cc: Contract
Secretary to the Oper. Comm. (2)
WMTraver
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
March 9, 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., Clear Creek County, Colorado - Progress report for February 1953

Please find enclosed the original and four copies of the initial progress report on the subject contract--forms MF-104 and MF-104A, with narrative, and the original and six copies of W. L. Dare's memorandum covering inspection of the underground progress. The contract is short form MF-200 (A).

Dare verifies the progress as reported in the narrative and entered on the MF-104A forms as cleaning out the old winze, timbering and other preparatory work, and sinking the winze an additional 13 feet during February.

Payment is approved and certified on the MF-104 form of $1,296.00, or 90 percent of the total $1,440.00 claimed by the contractor.

W. M. Traver

W. M. Traver

enclosures

WMT/cb

cc 4
E483
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
March 9, 1953

Memorandum

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

From: W. L. Dare

Subject: DMEA 2782, Contract Idm-R483 (Uranium), Gold Bar Mines, Inc., Clear Creek County, Colorado - Progress report for February 1953

The mine was visited on March 5, 1953, and as of that date the winze had been rehabilitated and extended an additional 19 feet. The 13 feet claimed for February is therefore approved. The depth of the winze at the start of the contract was 14 feet and total depth is now 33 feet.

Mineralization, as shown by a mineral light, has decreased since a point 15 feet down dip.

Payment is recommended of 90 percent of the $1,440.00 claimed, or $1,296.00.

W. L. Dare
W. L. Dare
Mining Engineer

WLD/eb

cc 6
R483
DMEA Chron.

Form 313-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

MAR 2 3 1953

Month of February 1953 Docket No. DMEA 2782 Contract No. Idm-2483
Operator's Name Gold Bar Mines, Inc. Minerals Uranium
Address Idaho Springs, Colo.
Contract Amount, $ 7760.00 Government Participation: 90 % Amount, $ 6984.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
~~Drifting~~ Winzing	$1040.00		$1040.00			
Bulldozing						
Crosscutting						
Drifting						
Winze rehabilitation	400.00		400.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1440.00		$1440.00	1440.00		1440.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date March 2, 1953 *Payee Gold Bar Mines, Inc.
Per Harvey W. Zook Title General Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—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.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1296.00

Signature
(Authorized Certifying Officer)
Date 3/16/53 Vou. No. DMA 53-108
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Jm-E483 in accordance with the terms of the contract.

Signature [illegible] Title Mining Engineer Date 3/6/53

$9296.00

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R.D.B.

Signature [illegible] Title Executive Officer Date MAR 11 1953

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAR 2 3 1953

Month of February 195 3 Docket No. DMEA 2782 Contract No. Idm-R483
Operator's Name Gold Bar Mines, Inc. Minerals Uranium
Address Idaho Springs, Colo.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes	Feet	$1040.00	13	$1040.00	13	$80.00	35	$80.00*
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Winze Rehabilitation		400.00	1	400.00	1	400.00	1	400.00*
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1440.00		$1440.00				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date March 2, 1953 Operator Gold Bar Mines, Inc.

By Harvey W. Zook Title General Manager

NOTE.—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.

REMARKS:
* Stage I.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." . The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

Idaho Springs, Colorado
March 2, 1953

Mr. W. M. Traver, Chief
Mineral Resources Branch
Mining Division, Region IV
Bureau of Mines
Building 20, Room 137
Denver Federal Center
Denver 14, Colorado

Re: DMEA 2782, Contract Idm-E483

Dear Mr. Traver;

Work started on the contract February 4, 1953.

The winze was cleaned out and timbered; set head-frame and sheave; installed track in winze; mounted ore skip; set receiver tank and safety valve; sunk winze 13 feet.

The vein is radioactive at this point.

Harvey W. Zook

Harvey W. Zook

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)

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.

Signed

H. D. Keiser

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS 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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

January 22, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 11 1953

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

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

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

The examining engineer recommends the rehabilitation of the present 15 feet 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 50 feet with a total of 20 feet of crosscuts into the hanging wall and footwall at favorable locations.

We concur in this recommendation.

W. H. King

W. H. King

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

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

Please find enclosed the original and ten copies of the "Summary, Conclusions, and Recommendations", by D. R. MacLaren, U. S. Geological Survey, and C. M. Harrer, Bureau of Mines, on the above docket, and of Harrer'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.

Harrer recommends a short form contract calling for rehabilitating 15 feet of existing winze, at a cost of $400.00, 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 $28.00 per foot. The over-all cost is limited to $8,397.50 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 Harrer'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/amh

cc: 10
DMEA 2782
DMEA Chron.

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

January 6, 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)

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. MacLaren, Geologist
U. S. Geological Survey

C. M. Harrer, 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. R. MacLaren
Geologist
U. S. Geological Survey

and

C. M. Harrer
Mining Engineer
Bureau of Mines

DMEA 2782

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

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

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

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., Coral 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-foot winze about 135 feet in from the portal shows uranium mineralization as metatorbernite, 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 foot.

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.

GOLD BAR MINES, INC.

CLEAR CREEK COUNTY, COLORADO

DMEA DOCKET 2782

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. 82° 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 9 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 20 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.

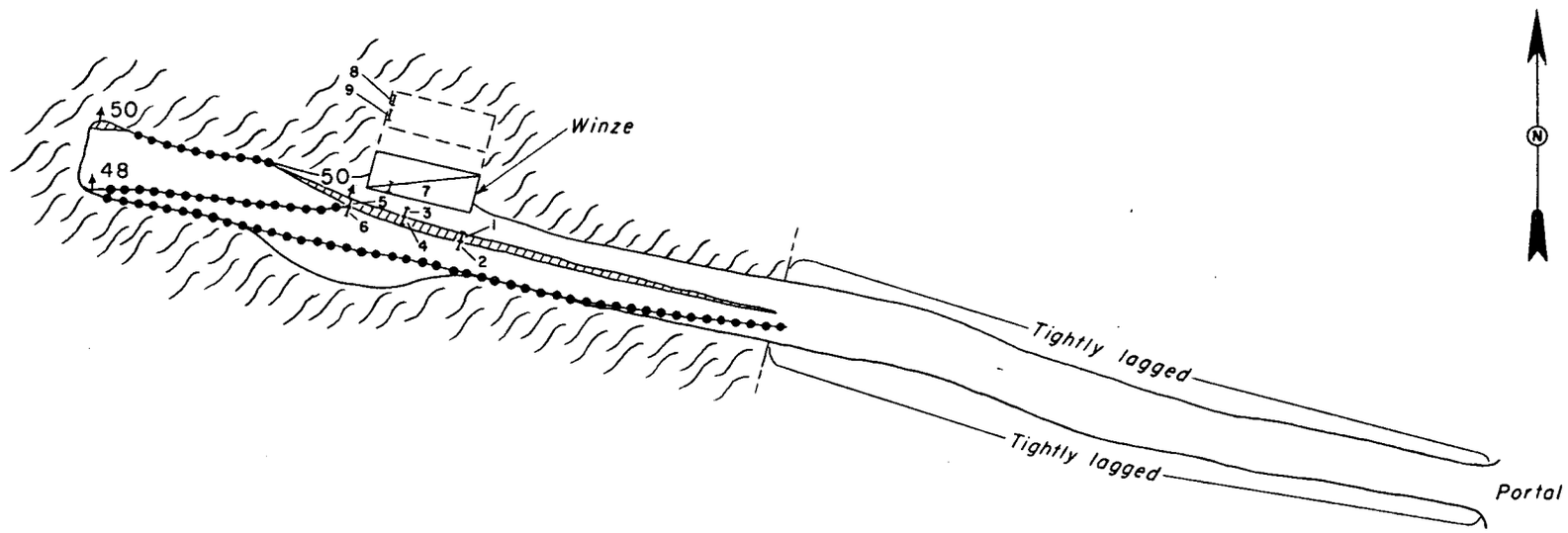
REFERENCES

Harrison, Jack E., The uranium occurrences in the Martha E. prospect, near Idaho Springs, Colorado: U. S. Geol. Survey, Trace Elements Memorandum Report 291, 1952.

Moore, F. B., Geologic map of the Martha E. 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

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. Harrer
Mining Engineer
Bureau of Mines

DMEA 2782

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

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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 southwesterly from Spring Gulch. The portal of the Daisy Freese (Martha E.) adit is 3.5 miles southwest 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 Freese 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 28, 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

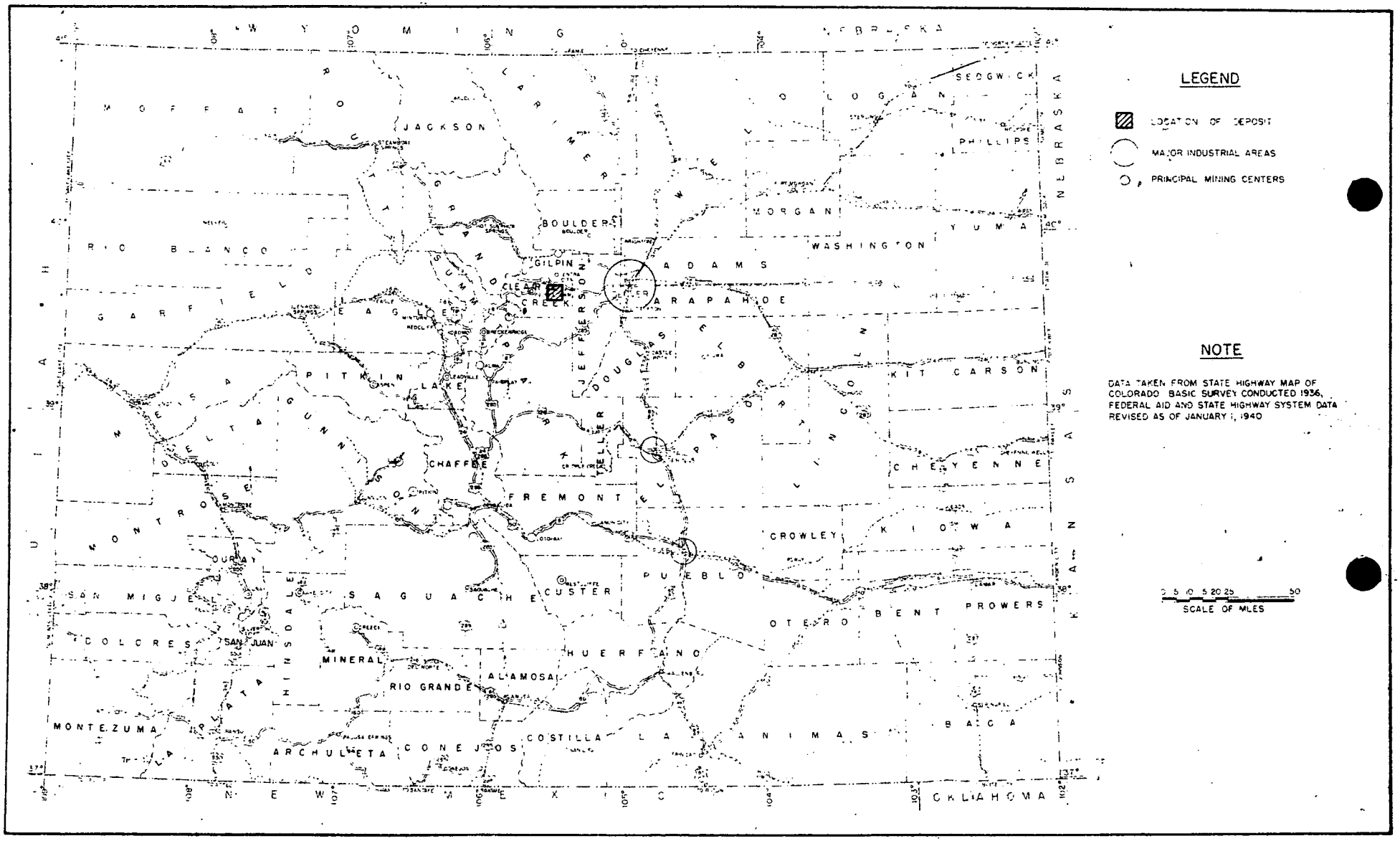

Figure 1 - Location map, Elizabeth M. lode, Gold Bar Mines, Inc., Clear Creek County, Colorado - DMEA 2782

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-foot 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 Freese 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 PP5-7547, and Waukesha motor drive, serial number 72277, skid mounted	$ 1,470.00
1 Thor jackhammer, model 38, with drifter mount, 5-foot jackbar, water pressure tank, and hoses	385.00

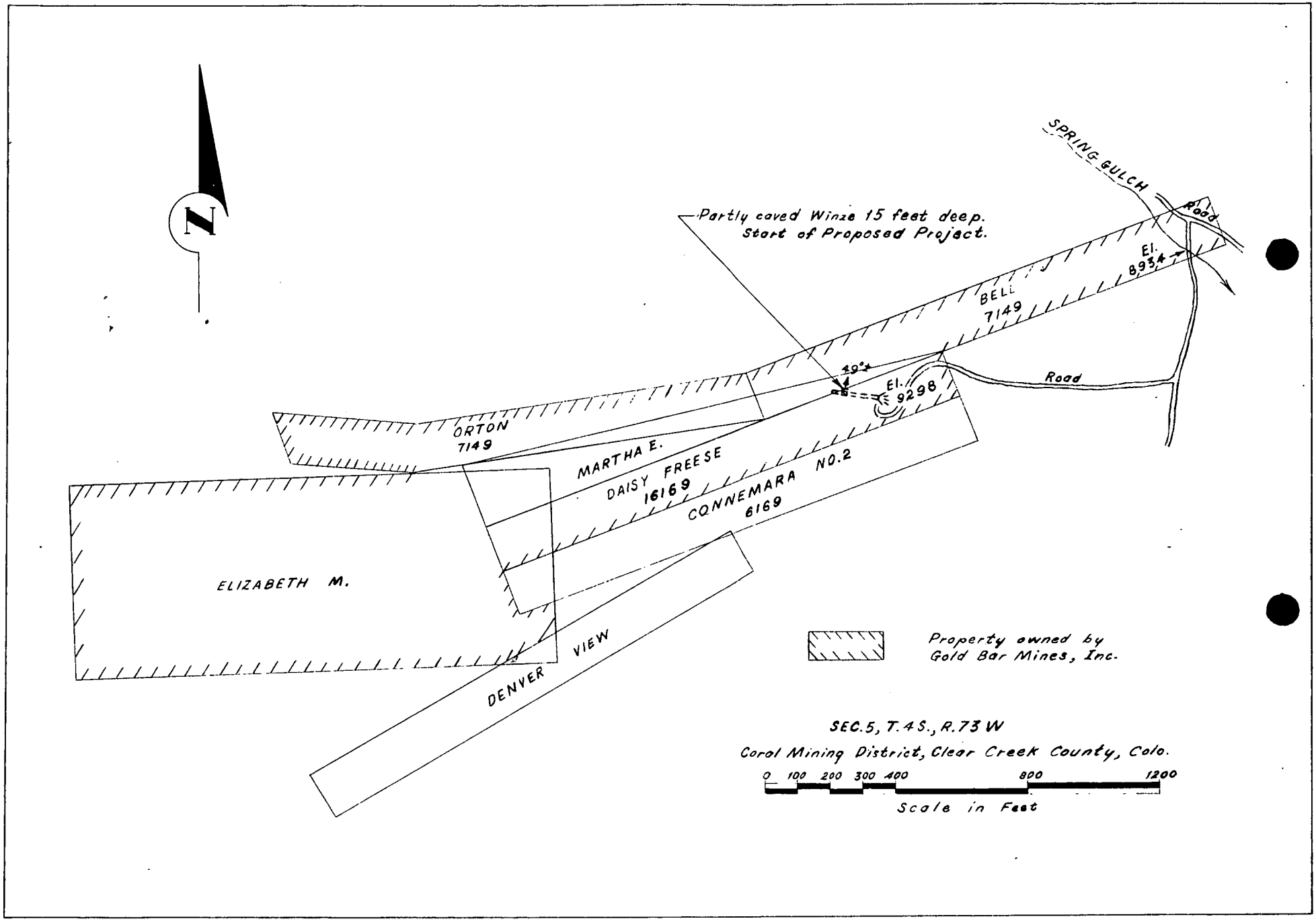

FIGURE 3 - GOLD BAR MINES INC., CLAIM AND PROJECT MAP, CLEAR CREEK CO., COLO. DMEA 2782

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	50.00
	Total value of equipment to be used on the project	$2,825.00

Depreciation allowance on the above equipment at the rate of $\frac{\text{value}}{60}$ would be $47.08 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 foot 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.

Initial Rehabilitation and Repairs

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

Winze 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 $28.00 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.

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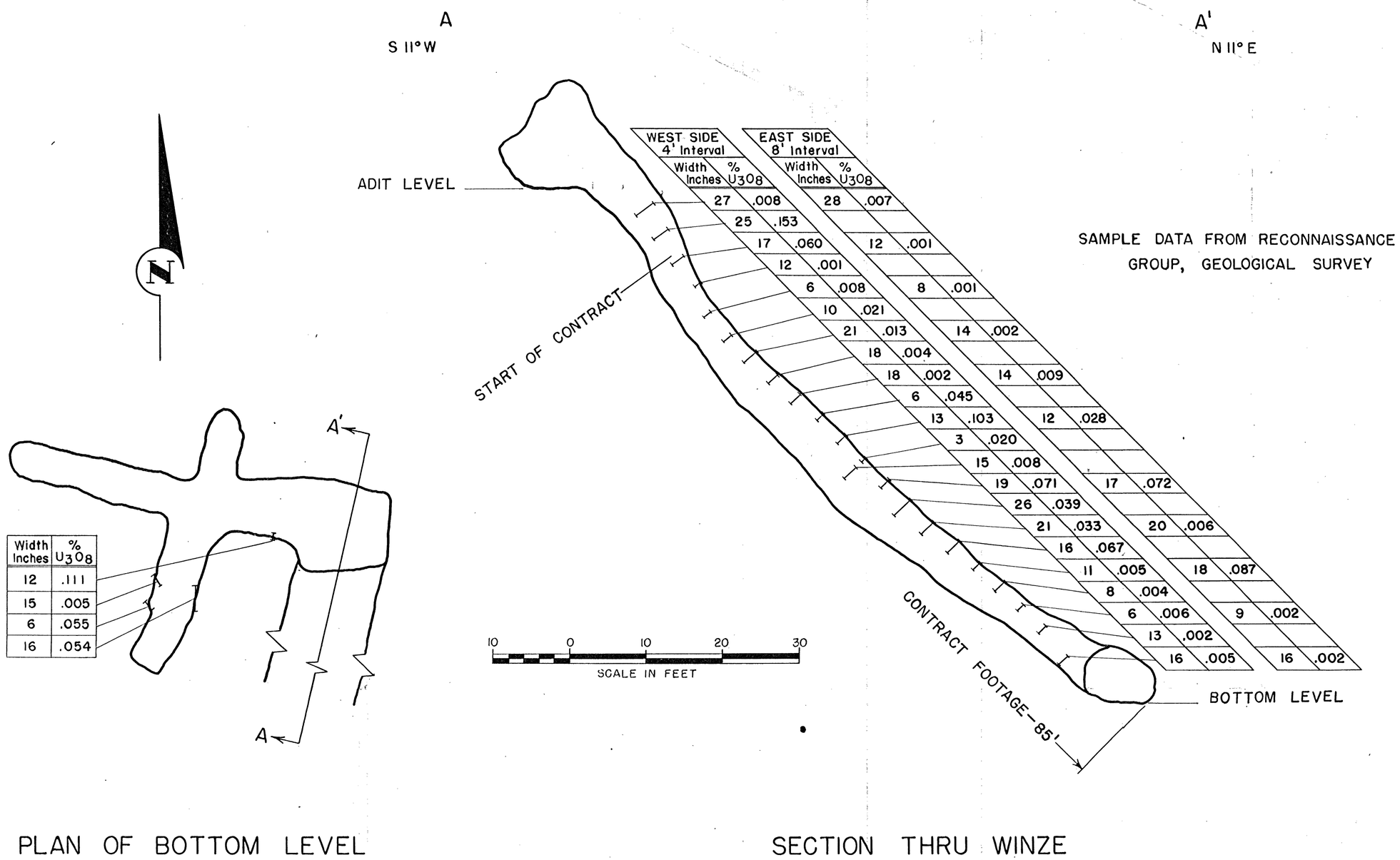

MINERAL RESOURCES BRANCH – MINING DIVISION
REGION IV
BUREAU OF MINES

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