400

JUN 7 1956

Gold and Tungsten Consolidated
P. O. Box 144
Ward, Colorado

Re: Docket No. DMEA 4142 - Tungsten
Golden Queen Mine
Boulder County, Colorado

Gentlemen:

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

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

Careful study of our information, although noting tungsten mineralization in the Golden Queen mine, indicates to us that the probability of disclosing significant tungsten ore reserves is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

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

Sincerely yours,

G. O. Mittendorf

Administrator

SPEOLT:foc
6/6/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. III
R. W. Holliday, USBM
T. H. Kiilsgaard, USBM

June 6, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $65,222.00
Docket No. DMEA 442 - Tungsten
Gold and Tungsten Consolidated
Golden Queen Mine
Boulder County, Colorado

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

(1) The applicant, Gold And Tungsten Consolidated, P. O. Box 144, Ward, Colorado, requested exploration assistance in the amount of $65,222.00 for rehabilitation and drifting in the Golden Queen mine, and unwatering and rehabilitation in the New Market mine.

(2) The applicant owns the following lode mining claims, situated in the SW. ¼, sec. 6, T. 1 N., R. 72 W and the SE ¼, sec. 1, T. 1 N., R. 73 W., 6th P. M., Ward Mining District, Boulder County, Colorado:

Patented

Golden Queen, U. S. Survey No. 6274

Golden Queen No. 2, U. S. Survey No. 20587

New Market, U. S. Survey No. 157

Legal Tender, U. S. Survey No. 19159

Unpatented

Golden Queen No. 3, recorded in Book 996, page 458 of the records of the County Treasurer of Boulder County, Colorado

(3) The proposed program is to explore the Golden Queen and New Market mines by rehabilitating old workings in the 220-foot level of the Golden Queen mine, drifting about 450 feet westerly to connect with the flooded workings of the New Market mine, and unwatering and

rehabilitating the New Market Mine.

(4) In the area of the Golden Queen mine tungsten occurs as wolframite with some scheelite in small ore shoots associated with high grade gold ore. The ore grade material has been treated for its gold content alone and the tungsten minerals are not being recovered.

(5) The Field Team concludes that the proposed exploration work would not result in the discovery of significant amounts of tungsten ore, and therefore recommends that the application be denied. The Commodity Divisions of the Bureau of Mines and the Geological Survey concur in this recommendation.

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

SPMblt:fec
6-5-56
cc to: Docket
Code 400
Admr. Read. File
Operating Comm.

406

RECEIVED
MAY 16 1956

May 14, 1956

Memorandum

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

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

Subject: Review of Field Team Examination Report
Docket No. DMEA 4142
Golden Queen Mine
Gold & Tungsten Consolidated
Boulder County, Colorado
Joseph H. Walter, Ward, Colorado
$65,221.00-Tungsten

Subject report indicates that a significant discovery of tungsten is believed to be unlikely and recommends denial of the application. I concur in the recommendation.

R. W. Holliday

IN REPLY REFER TO:
406

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

RECEIVED
MAY 9 - 1956

May 9, 1956

Re: DMEA 4142
Gold and Tungsten Consolidated
Golden Queen Mine
Boulder County, Colorado
$65,221.00 - Tungsten

Memorandum

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

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

Subject: Review of Field Team report.

The applicant requested assistance in exploring a gold vein from which small tonnages of tungsten-bearing gold ore have been mined.

The examiners found that the small ore shoots containing appreciable quantities of tungsten minerals also contain good gold values and as a rule the gold would be recovered and the tungsten would not be saved.

As the proposed work probably would not result in the discovery of a significant quantity of tungsten the examiners and the Field Team recommend denial of the application.

I concur with the recommendation of the examiners and the Field Team.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-5/9/56

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

400

RECEIVED
FEB 15 1956

February 10, 1956

Memorandum

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

From: Acting Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4142 (Tungsten), Gold and Tungsten Consolidated, Golden Queen mine, Boulder County, Colorado

The subject application was received in this office on February 10, 1956.

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

Scott W. Hazen Jr.
Scott W. Hazen, Jr.

cc: W. M. Traver (2)
E. W. Harshman
J. F. Shaw
See Op Com (2)

Copy retained 400

400

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

RECEIVED
FEB 13 1956

February 9, 1956

224 New Customhouse
Denver 2, Colorado

Copy retained 400

Memorandum

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

From: Field Team, Region III

Subject: Docket DMEA 4142 (Tungsten), Gold and Tungsten Consolidated, Golden Queen mine, Boulder County, Colorado

Enclosed is the subject application in the amount of $65,221.00. Also enclosed is a copy of a letter from the Chairman of the Operating Committee and memoranda of review of the application by R. W. Holliday and N. E. Nelson, Commodity Specialists.

A field examination and suitable report are required. Before the field examination is scheduled, it should be determined from the applicant if the shaft has been unwatered and the property available for a field examination.

DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

Enclosures

HMC:ab

cc: Chair. Op. Comm. (2)
Docket 4142
Chron.

Copy retained 400

400-

FEB - 6 1956

Gold and Tungsten Consolidated
P. O. Box 144
Ward, Colorado

Re: Docket No. DMEA 4142 - Tungsten
Golden Queen Mine
Boulder County, Colorado

Gentlemen:

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

SPHOLT:foc
2-3-56
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
Messrs. Holliday, USBM
Kiilsgaard, USGS

400

FEB - 6 1956

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 442 - Tungsten
Gold and Tungsten Consolidated
Golden Queen Mine
Boulder County, Colorado

Dear Mr. Traver:

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

Copies of memoranda dated January 27 and 30, 1956, by R. W. Holliday, Bureau of Mines, and Rad E. Nelson, Geological Survey, respectively, relating to the project, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosure

APPROVED:

/s/ Robert W. Geehan

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

SPHelt:foc
2-3-56
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
Messrs. Holliday, USBM
Kiilsgaard, USGS

400

IN REPLY REFER TO:

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

RECEIVED
JAN 31 1956

January 30, 1956

Re: DMEA 4142
Gold and Tungsten Consolidated
Joseph N. Walter
Golden Queen Mine
Boulder County, Colorado
$65,221.00 - Tungsten

Copy

Memorandum

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

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

Subject: Review of application.

The applicant requests assistance in unwatering and rehabilitating two old mines and driving 450 feet of connecting drift between the two mines. With rentals, equipment, etc., the cost is estimated at $65,221.00.

I have no information on the mines. The location is given as Boulder County but it is in the Ward Mining District not in the better known district of the Lovering and Tweto Professional Paper 245.

Apparently the applicant has opened a new location shaft on the Golden Queen No. 3 claim which is taken to be related to the Golden Queen and New Market veins. The vein (or veins) essentially gold veins also carry a tungsten mineral and from them small shipments of ore have been made and several samples taken. The values of the shipments reported are:--

Year	To	Pounds	Value, Net
1941	Geo. Teal	9,750	$109.66
1955	Wah Chang	5,575	69.54
1943	Boulder Tung.	295	43.59
	Totals	15,620	$222.79

Assay certificates dated September and October 1955 may refer to samples taken from the new location shaft. Good material is suggested but just what they represent is not told.

Perhaps work in the vicinity of the new work is warranted. That the work proposed is now justified appears less likely.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-1/30/56

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

400

January 27, 1956

Memorandum

To: Chief, Iron & Ferroalloys Division-DMEA
Through: Chief, Branch of Ferrous Metals & Ferroalloys

From: Commodity Specialist-Tungsten

Subject: Application for Exploration Assistance
Docket No. DMEA-4442
Golden Queen, New Market and Golden Queen # 3
Boulder County, Colorado
Joseph H. Walter, P. O. Box 144, Ward, Colo.
$65,221.00-Tungsten

Subject application proposes rehabilitation and repair of the Golden Queen shaft to 220 feet and drifting 450 feet west, "to connect with the New Market workings."

From the sketch submitted with this application, feasability of the proposal is questionable.

Apparently the Golden Queen shaft and levels are filled with water, although the word "unwatering" has been scratched out of the application.

It appears that shaft pillars have been mined out or nearly so and the property closed since the last war which is presumed to mean World War II.

Approximately 200 feet of drift on the 220 feet level would have to be rehabilitated and there is no evidence in the application to indicate that this drift has been held open.

There is a question whether breaking through into the New Market workings would constitute an additional drainage problem.

Past production from the property justifies an examination by the Field Team and Field referral is recommended.

R. W. Holliday

RWHolliday/tra

Copy to: Mr. Ceehan
Mr. Holliday
Ferrous Metals
Docket No. 4142
F I L E S

Tungsten production are insignificant. Proposal not suitable for DMEA project.

Special in order

JEJ

Mr. Johnson says that this one has no significant amount of tungsten and we should go ahead with the denial.

He says that Idaho-Maryland and Yellow Pine are not comparable cases, as both have histories of previous tungsten production.

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

406

April 30, 1956

224 New Customhouse
Denver 2, Colorado

WSM

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, DMEA Docket 4142 (Tungsten) Gold and Tungsten Consolidated, (Golden Queen Mine), Boulder County, Colorado

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

The field examiners concur that the proposed work would not result in a discovery of a significant amount of tungsten, and they recommend that this application be denied. We concur in this recommendation.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
5-7-56
(date)

RECEIVED
MAY 2 - 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

DMEA
Date Rec'd.
APR 30 1956
BUREAU OF MINES
Denver, Colorado
BUILDING 20
DENVER FEDERAL CENTER
DENVER 2, COLORADO

TRANSMITTED
APR 30 1956

April 27, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman
John F. Shaw

Subject: Examination Report, DMEA 4142, (Tungsten), Gold and Tungsten Consolidated, (Golden Queen Mine), Boulder County, Colorado

Enclosed are the original and 7 copies of a Joint Engineering and Geologic Report by R. U. King, Geologist, and C. M. Harrer, Mining Engineer, covering Docket DMEA 4142.

Gold and Tungsten Consolidated applied for exploration assistance to rehabilitate old workings on the 220-foot level of the Golden Queen Mine, drift about 450 westerly to connect with the flooded workings of the New Market Mine and unwater and rehabilitate the New Market mine. The estimated cost of the work is $65,221.00.

The property was examined on April 20-21, 1956, by R. U. King, Geologist, and C. M. Harrer, Mining Engineer. The examining team concluded that tungsten had occurred in appreciable concentrations only in small ore shoots associated with high-grade gold ore. The ore grade material has been treated for its gold content and the tungsten minerals are not recovered.

It is not believed that the proposed work would result in a discovery of a significant amount of tungsten and therefore it is recommended that this application be denied.

for D.R. Machaver
E. N. Harshman
Member, Field Team

RECEIVED
MAY 2 - 1956

John F. Shaw
John F. Shaw, Supt.
Denver Experiment Station

Enclosure

cc 7
EHHarshman
DMEA 4142
Chron

Reviewed by
DMEA OPERATING COMMITTEE
5-7-56
(date)

JFS:ph

TRANSMITTED
APR 30 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 4149

Gold and Tungsten Consolidated

Golden Queen Mine

Boulder County, Colorado

Tungsten

Joint Geologic and Engineering Report

By

R. U. King, Geologist
Geological Survey

C. M. Harrer, Mining Engineer
Bureau of Mines

April 20, 1956

Reviewed by
DMEA OPERATING COMMITTEE
5-7-56
(date)

DMEA 4142
GOLD AND TUNGSTEN CONSOLIDATED
GOLDEN QUEEN MINE
BOULDER COUNTY, COLORADO

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ILLUSTRATIONS

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2. Claim and exploration map, Gold and Tungsten Consolidated, Golden Queen mine, Boulder County, Colo..... 12

3. Longitudinal section in the plane of the Golden Queen vein, Gold and Tungsten Consolidated, Golden Queen--New Market mines, Boulder County, Colo..... 12

4. Plan of Golden Queen mine, Boulder County, Colorado..... 12

DMEA 4142
GOLD AND TUNGSTEN CONSOLIDATED
GOLDEN QUEEN MINE
BOULDER COUNTY, COLORADO

INTRODUCTION AND SUMMARY

Gold and Tungsten Consolidated is the property of Joseph H. Walter of Ward, Colo. Mr. Walter is a gold and tungsten miner of long standing. He has applied for Defense Minerals Exploration Administration assistance to explore the Golden Queen mine for tungsten. Exploration would consist of rehabilitating old workings on the 220-foot level of the Golden Queen mine, drifting about 450 westerly to connect with the flooded workings of the New Market mine and finally unwatering and rehabilitating the New Market mine. The cost of this project was estimated by the applicant as $65,221.00.

The property includes parts of 5 lode claims in the SW 1/4 sec. 6, T. 1 N., R. 72 W., and the SE 1/4 sec. 1, T. 1 N., R. 73 W., 6th Principal Meridian, in the Ward Mining District, Boulder County, Colo.

The applicant's property and all accessible workings of the Golden Queen mine were examined for DMEA by a joint Bureau of Mines and Geological Survey team on April 20-21, 1956. The examiners were accompanied by Joseph H. Walter the applicant, Lawrence J. McGreevy of the Geological Survey and Francis Kung, point IV trainee.

The property is north of the well known Boulder Tungsten District near the north end at the Front Range mineral belt. Most of the ore deposits in the Ward area occur in fissure veins in granite or gneiss. As in the Boulder District, schist host rocks are unfavorable for ore deposits.

The Golden Queen is principally a gold-bearing vein although minor amounts of wolframite and some scheelite are associated with gold and sulfide minerals. The vein follows a strong fracture in granite and gneiss; it strikes from N. 85° E. to N. 60° W. and dips steeply north. Vein widths range from 2 inches to 3 feet and average about 12 inches.

The results of sampling by the examining team indicate significant amounts of gold but only a minor amount of tungsten in the vein material sampled.

As a result of the examination and the past history of the area, Ogden Tweto--oral communication, it is concluded that tungsten, in appreciable concentrations, occurs only in very small ore shoots and generally associated with high-grade gold ore. This ore grade material is invariably milled for its gold content and the tungsten minerals are not recovered.

Denial of the application for exploration assistance, DMEA Docket 4142, is recommended.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

Gold and Tungsten Consolidated, in the person of Joseph H. Walter of Ward, Colo., owns the Golden Queen and New Market mines which he proposes to explore with DMEA assistance. The claims (figs. 1 and 2) are in the SW 1/4 of sec. 6, T. 1 N., R. 72 W., and the SE 1/4 sec. 1, T. 1 N., R. 73 W., 6th Principal Meridian, in the Ward Mining District of Boulder County, Colo., at altitudes of 9,000 to 9,500 feet above sea-level. The property is one-half mile northeast of Ward and 12 miles west of Boulder, Colo. The property is readily accessible over good roads throughout

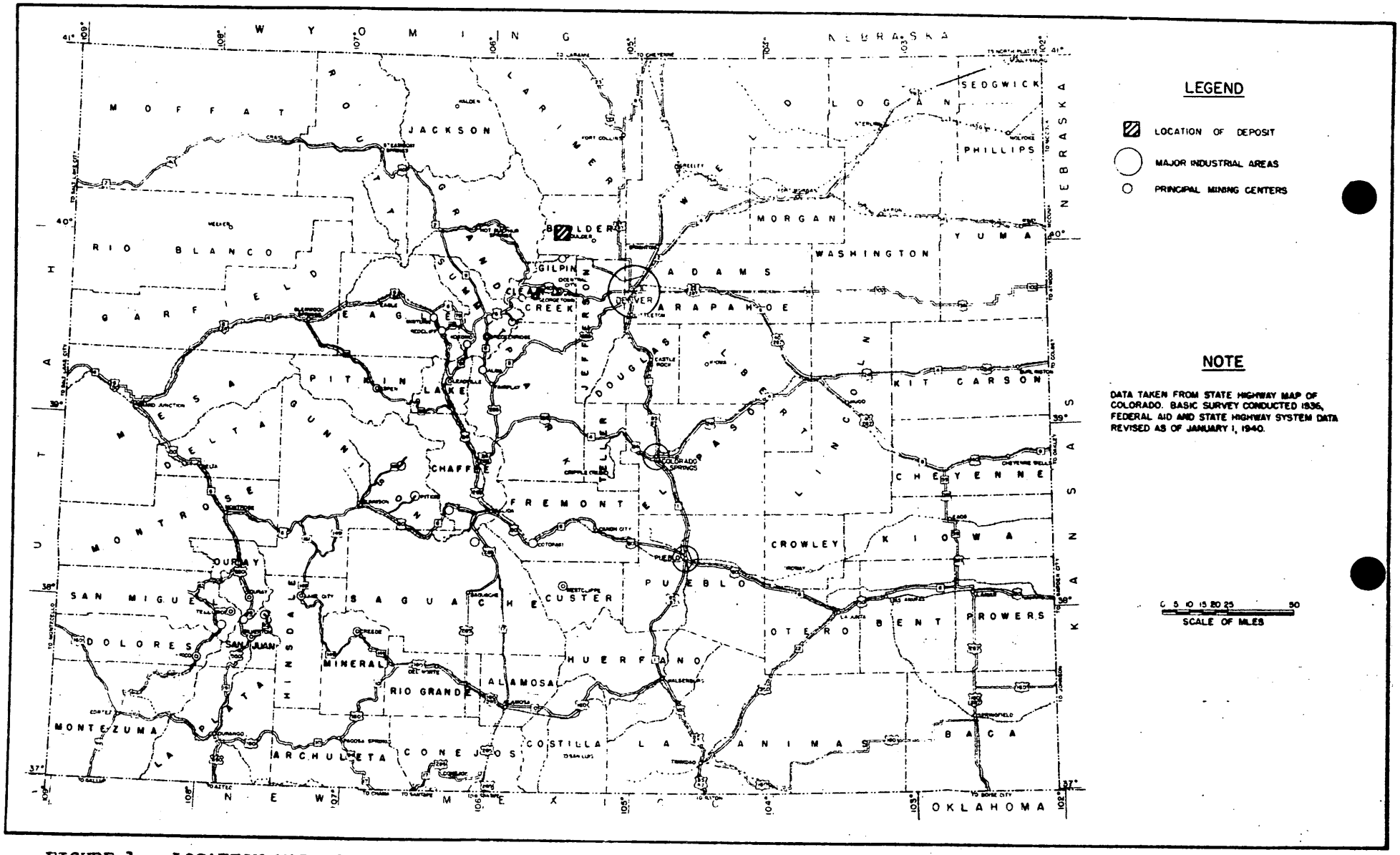

FIGURE 1 - LOCATION MAP, GOLD AND TUNGSTEN CONSOLIDATED, GOLDEN QUEEN MINE, BOULDER COUNTY, COLO. DMEA 4142

the year. The nearest rail facilities are those of the Colorado and Southern and Union Pacific Railroads at Boulder, Colo. The nearest tungsten milling facilities are at Nederland, Colo., 12 miles to the south. Ample water and timber are available locally for mining and all supplies are readily available by truck transportation. The property is 55 miles from Denver by good roads.

The region is subject to heavy snowfall in winter, however year round mining operations can be maintained. Electric power available is sufficient only for lights and small pumps.

HISTORY AND PRODUCTION

The Ward Mining District was one of the first discovered in Boulder County. Gold was discovered in 1861 and nearly all of the principal mines were discovered before 1870. Gold, silver and lead are the principal metals mined in the district. Some copper, zinc and tungsten have also been produced. Tungsten is found sparingly in nearly all of the mines of the Ward District. Worcester[1] reported it as particularly abundant in the New Market, Niwot, Humbolt, Nelson and other mines near Ward. Tungsten was noted early in the Golden Queen mine, however only sporadic and short lived attempts were made to produce it. During April 1941, a shipment of 4.875 tons of tungsten ore from the Golden Queen shaft at a depth of 180-200 feet was sent to the Teal mill. It assayed 1.6 percent WO_3. A shipment of 2.734 tons of tungsten ore shipped to the Wah Chang Corp., mill at Boulder during Oct. 1955 assayed 1.17 percent WO_3. A 102-pound sample of selected Golden Queen dump rock,

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1/ Worcester, P. G., The Geology of the Ward region, Boulder County, Colo., Colorado Geol. Survey Bull. 21, (1920).

taken during Sept. 1955, assayed 6.24, 6.25 and 6.32 percent WO_3 respectively. A truck load (3,325 lbs.) of tungsten ore from a prospect cut near the west end line of the New Market claim (figs. 2 and 3) assayed 1.18 percent WO_3. The Golden Queen mine has an estimated total production of 140 units of WO_3 to date.[2]

OWNERSHIP

Gold and Tungsten Consolidated is the property of Joseph N. Walter of Ward, Colo. The property, consisting of 5 patented claims and one lode location, is known as the Golden Queen Mine. The following claims (fig. 2) are owned and controlled by the applicant and are the site of the proposed exploration work.

Name	Kind	Size-feet	Survey number	Patent number	Location certificate number	Book	Page
Golden Queen	Patented lode	150 x 1498.81	6,274	19,922	--	Co. Trans.rels	
Golden Queen No. 2	"	600 x 1500	20,587	1,117,203	--	"	
New Market	"	150 x 1500	157	--	--	"	
Legal Tender	"	150 x 1500	19,159	592,378	--	"	
Golden Queen No. 3	Lode location	600 x 1500	--	--	566,036	996,458	

The exceptions shown on figure 2 would not interfere with emplor-ation of the Golden Queen vein between the Golden Queen and New Market shafts.

The applicant has not described the bounds of his Golden Queen No. 3 claim location completely and this would have to be corrected for closure.

2/ Confidential files Bureau of Mines, Region III, Denver Experiment Station, Denver, Colo.

GEOLOGY

The Ward Mining District lies just north of the well-known Boulder Tungsten District near the northern end of the Front Range mineral belt of Colorado. The region surrounding the Golden Queen Mine is underlain by Precambrian rocks, including coarse-grained Silver Plume granite with associated small masses of pegmatite, and older schists and gneisses of the Idaho Springs formation.

Nearly all the ore deposits in the Ward region occur in fissure veins which strike roughly east and west and dip at rather high angles to the north. Sharp changes in dip are quite common. The best developed and richest veins are in granite or gneiss. F. G. Worcester (Colorado Geol. Survey Bull. 21, p. 48, 1920) states that the Idaho Springs schist was unable to preserve fractures and fissures caused by crustal movements, and also that its schistose structure made it more favorable for dispersion of mineralized solutions rather than concentration. Therefore, well defined veins in the granites and gneisses may often play out when followed into the schists.

In the Golden Queen workings the chief wall rock is massive coarse-grained Silver Plume granite. Weakly foliated granite gneiss was observed in the east drifts of the 220 and 300 foot levels, and strongly foliated quartz-biotite gneiss was noted at the west end of the 100 foot level (fig. 4). No schist was observed in the four levels examined.

The Golden Queen vein follows a strong fracture in the granite and gneiss. The strike and dip of the vein is parallel to the strike and dip of the foliation in the gneiss, the strike ranging from N. 85° E. to N. 60° W., and the dip ranging from 55 degrees north to vertical (fig. 4).

The vein is 2 inches to 3 feet wide but averages about 12 inches in its productive parts. There is no evidence of intense wall-rock alteration. In most instances the vein is free from both walls with a thin film of gouge between the vein and the footwall.

The vein is chiefly made up of coarse-grained pyrite with lesser amounts of chalcopyrite, wolframite (hubnerite) and sphalerite in a gangue of glassy quartz. Minor amounts of scheelite were observed scattered throughout the vein especially on the 220 and 300 foot levels. The small amount of molybdenum present, as shown by the chemical laboratory report, is suspected to occur as powellite. Ore mined in the past from the Golden Queen mine has been considered of value only for its gold content.

In the mine workings towards the east the vein structure becomes weak and poorly defined and at the east faces the vein widths narrow to less than 2 inches (fig. 4). Apparently the known ore shoot east of the Queen shaft has already been fully developed and, with the exception of a few pillars and a very small amount of ore between the 100 and 220 foot levels, it has been mined out. In the west faces of the 100, 150 and 300 foot levels the structure along which the ore-bearing vein occurs is strong and well defined. On the 220 foot level where the applicant proposes to explore by drifting west, the face was inaccessible due to caving. The lack of further mining to the west on all levels was because of litigation and not because the gold values had become exhausted.

The results of the sampling indicate the presence of good gold values with only insignificant amounts of tungsten in the vein material sampled. Also, the past history of the area shows that tungsten, in appreciable concentrations, occurs only in very small ore shoots and generally associated with high-grade gold ore. This ore grade material is milled invariably for its gold content and the tungsten minerals are not recovered.

SAMPLING DATA

The Golden Queen mine is known principally as a gold producer and the operator has records of many shipments of gold ore. To determine the tungsten potential of the property eight channel samples were taken of vein exposures on various levels (fig. 3). The results of sampling are as follows:

Sample No.	Vein and sample width in feet	Ounces per ton Gold	Ounces per ton Silver	Percent Tungsten	Percent Copper	Percent Molybdenum
M-1	0.8	0.09	<0.1	0.09	0.09	0.02
M-2	0.2	0.11	<0.1	0.39	0.06	0.13
M-3	0.7	4.66	1.0	0.14	0.95	<0.01
M-4	1.2	0.64	0.2	0.12	0.30	0.12
M-5	1.0	0.23	<0.1	0.16	0.50	0.01
M-6	0.8	0.30	<0.1	0.46	0.05	0.03
M-7	0.4	1.75	0.5	0.01	1.50	0.07
M-8	0.8	0.41	0.2	<0.01	0.21	0.08
Mining width	2.8'	0.24	—	0.04	0.05	0.02

The above assays verify that the property is principally a gold mine and that tungsten is only an accessory mineral of little importance.

ORE RESERVES

There are no known reserves of tungsten ore in the Golden Queen mine.

PRESENT STATUS

Exploration and development

The Golden Queen mine is developed by a 2-compartment shaft the collar of which is at an altitude of 9,225 feet above sea-level (figs. 2 and 3). The shaft is 360 feet deep and follows the dip of the Golden Queen vein. This vein was drifted along and stoped on the 100-foot, 220-foot, 300-foot and 350-foot levels as shown on figures 2 and 3.

At the time of the examination the 100-foot level was accessible both east and west for its full length of 350 feet.

The 220-foot level east was accessible for its full length of 250 feet. The drift west was partly filled with caved rock and was completely choked with stope fill at a point 150 feet west of the shaft. The remaining 50 feet of drift was inaccessible. The applicants proposed exploration program includes rehabilitation of this level.

The 300-foot level east was accessible to its end, 250 feet east of the shaft. The drift west was also accessible to its end, 198 feet west of the shaft.

The 350-foot level was inaccessible from the shaft since it has not yet been unwatered, however its presence was verified by inspection of a 350-foot level stope which was partly accessible from the 300-foot level (fig. 3).

The New Market mine, figures 2 and 3, is completely inaccessible and full of water. The extent of development is shown on figure 3 which is compiled from a section and claim maps submitted by the applicant. The maps contain discrepancies which cast doubt on the extent and condition of the New Market mine levels and workings and their relations with the Golden Queen mine. Trying to connect with and unwater the New Market

mine without accurate maps would prove very hazardous. In addition, exploration of the New Market mine and Golden Queen No. 3 claim without an examination of the vein as exposed in this mine is not justified. The applicant must therefore unwater the New Market mine and make it sufficiently accessible for examination before the merits of any exploration program in this mine area can be considered.

Mining, milling and other facilities

The applicant is presently engaged in unwatering and rehabilitating the Golden Queen mine. He has a well equipped surface plant which is housed in two frame buildings. One building encloses a shop and compressor. The other contains the hoist, change room and small store room. The shaft head works comprises a strong headframe and mechanical bucket dump. The applicant owns considerable small tools and welding equipment, a geared mine hoist, two 2-1/4-inch (Bilton) Byron Jackson centrifugal pumps with 5 horsepower motors and a 2-ton International truck. A 210 c.f.m. Ingersoll Rand air compressor, a diesel engine drive for the mine hoist, and an IR-38 Jack leg drill complete are used by the applicant under a rental-purchase agreement. The nearest milling facilities are the Ketner mill at Nederland, 14 miles distant; and the Wah Chang (Teal) mill west of Boulder and 17 miles distant from the property. Sufficient single phase electrical energy is available at the property for pumps and lights.

APPLICANT'S PROJECT PROPOSAL AND COSTS

Gold and Tungsten Consolidated requested Defense Minerals Exploration Administration assistance totalling $65,221.00 to accomplish the following work on property which they own.

1. Unwater the Golden Queen mine, figures 2 and 3.

2. Rehabilitate the 220-foot level west of the Golden Queen shaft to its end; about 200 feet.

3. Complete about 450 feet of exploration drift west along the Golden Queen vein on the 220-foot level to connect with the 310-foot level of the New Market mine.

4. Unwater the New Market mine workings through the Golden Queen level and shaft.

5. Rehabilitate the New Market shaft and levels preparatory to working the vein on the Golden Queen No. 3 claim.

The applicant distributed his estimated costs as follows:

Applicant's cost estimate

(a) Installing power line to mine (Public Service)	$ 534.00
(b) Furnishing electric power cable, boxes, fittings, lights for Golden Queen plant and shaft and installing same.	600.00
(c) Purchase two 1-1/4-inch TLM Eilton (Byron-Jackson) centrifugal pumps with 5-horsepower motors	964.00
(d) Two pump discharge hoses	93.98
(e) Two pump suction hoses	60.00
(f) 100-foot of 4-inch galvanized pipe and fittings for pump discharges, including installation and pump platform construction	140.00
(g) Fuel oil and electric power to unwater Golden Queen shaft to below the 220-foot level	400.00
(h) Freight on equipment from Denver to Ward, Colo.	200.00
(i) Labor, unwatering to the 220-foot level of the Golden Queen shaft	2,500.00
(j) Repairing ladders, skidway and stations on Golden Queen shaft to below the 220-foot level, 220-ft. at $2.50	550.00
(k) Repairing surface buildings, installing equipment--labor and material	750.00

(l)	Constructing ore house and bins	$2,000.00
(m)	Assays for gold, silver and tungsten	300.00
(n)	Compensation and fire insurance	700.00
(o)	Supervision, office work and engineering	6,000.00
(p)	Drifting 450 feet west on the 220-foot level towards the New Market mine at $60.00 per foot	27,000.00
(q)	Contingencies	1,000.00
(r)	To unwater and rehabilitate the New Market shaft and drifts preparatory to operating the New Market mine and drifting westerly on the Golden Queen No. 3 claim	15,000.00
(s)	Purchase of equipment:	

1-210 c.f.m. Gyroflow air compressor	$3,780.00	
1- 30 hp I.N. diesel engine and clutch for mine hoist	950.00	
1- Transmission for above engine	250.00	
1- Model RB-94 stoper	790.00	
1- Model 5-48 sinker air drill	410.00	
1- Jackleg for above sinker	250.00	
		6,430.00

Total estimated cost of proposed work	$65,221.98
Government participation of 75 percent	$48,916.49

At the time of the examination (March 20-21, 1956) the surface plant at the Golden Queen mine had been entirely rehabilitated and was in first class operating condition. The power line and pump cables and pumps were installed in the Golden Queen shaft. The Golden Queen mine is now unwatered to below the 300-foot level. Therefore, Item 1 of his proposal and all cost attendant to unwatering and rehabilitating the Golden Queen shaft, cost items (a) to (k), are completed. Cost item

(1) for ore house and bins is not an allowable cost.

The only items remaining of the applicant's original request are:

(1) Rehabilitate the 220-foot level and advance it westerly along the Golden Queen-New Market vein system by 450 feet of 4 x 7-foot drift to connect the Golden Queen and New Market mine workings. The applicant proposes to complete this at an overall cost of $60.00 per foot for a total of $27,000.00.

(2) Unwater the New Market mine (figs. 2 and 3) through the Golden Queen and rehabilitate the New Market mine workings preparatory to working the New Market mine and Golden Queen No. 3 claim. The New Market mine is filled with water, however the applicant estimates this stage of his program at an overall cost of $15,000.00. The total cost of the applicant's remaining work is $42,000.00

CONCLUSIONS AND RECOMMENDATIONS

The Golden Queen mine is within a district that has been considered principally important for its gold production and has never been an important tungsten producer.

As a result of the examination and the very minor amounts of tungsten present in all the samples assayed, together with the past history of the area, it is concluded that the exploration requested by the applicant will not lead to the discovery of significant amounts of tungsten ore. It is recommended that the request for exploration assistance (DMEA Docket 4142) be denied.

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

400

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 4142 - Tungsten
Gold and Tungsten Consolidated
Golden Queen Mine
Boulder County, Colorado

Dear Mr. Traver:

Reference is made to your memorandum of April 30, 1956, transmitting the joint engineering and geologic report of C. M. Harrer, Mining Engineer, and R. U. King, Geologist, who recommend denial of the subject application. We note that you concur in their recommendation.

After careful review of the entire docket, we feel that while this property probably will not produce any large tonnage of tungsten, it might possibly, because of the presence of gold and other metals, be a tungsten producer under what may become ordinary conditions, and, therefore, we believe that further investigation is warranted.

From the samples taken it appears that the tungsten is found disseminated throughout the vein. In order to make a property of this type workable, it would be necessary to receive payment for the gold, tungsten, and other metals. That could be accomplished if milling facilities were available for making a tungsten and a gold-base metal concentrate. You may have some other suggestions regarding a suitable mill or toll arrangement.

The hazard of tapping the water in the New Market mine might be met by drilling long holes as the old workings are approached.

The cost of $60.00 per foot seems high and unless the ground requires much timber we would expect that it might be done for about $35.00 per foot.

Taking everything into consideration, we believe this project

should have more study rather than an immediate denial. We would appreciate your further comments on the matter.

Sincerely yours,

Chairman, Operating Committee

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

DOCKET
SURNAME
Holt
Martin
Guhon
Kilsgaard
Fetterman

400

JUN - 7 1956

Gold and Tungsten Consolidated
P. O. Box 144
Ward, Colorado

Re: Docket No. DMEA 4142 - Tungsten
Golden Queen Mine
Boulder County, Colorado

Gentlemen:

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

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

Careful study of our information, although noting tungsten mineralization in the Golden Queen mine, indicates to us that the probability of disclosing significant tungsten ore reserves is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

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

Sincerely yours,

G. O. Mittendorf

Administrator

SPHOLT:foc
6/6/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. III
R. W. Holliday, USBM
T. H. Kiilsgaard, USBM

R.C.S.

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

June 6, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $65,222.00
Docket No. DMEA 4142 - Tungsten
Gold and Tungsten Consolidated
Golden Queen Mine
Boulder County, Colorado

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

(1) The applicant, Gold And Tungsten Consolidated, P. O. Box 144, Ward, Colorado, requested exploration assistance in the amount of $65,222.00 for rehabilitation and drifting in the Golden Queen mine, and unwatering and rehabiilitation in the New Market mine.

(2) The applicant owns the following lode mining claims, situated in the SW. ¼, sec. 6, T. 1 N., R. 72 W and the SE ¼, sec. 1, T. 1 N., R. 73 W., 6th P. M., Ward Mining District, Boulder County, Colorado:

Patented

Golden Queen, U. S. Survey No. 6274

Golden Queen No. 2, U. S. Survey No. 20587

New Market, U. S. Survey No. 157[illegible]

Legal Tender, U. S. Survey No. 19159

Unpatented

Golden Queen No. 3, recorded in Book 996, page 458 of the records of the County Treasurer of Boulder County, Colorado

(3) The proposed program is to explore the Golden Queen and New Market mines by rehabilitating old workings in the 220-foot level of the Golden Queen mine, drifting about 450 feet westerly to connect with the flooded workings of the New Market mine, and unwatering and

rehabilitating the New Market Mine.

(4) In the area of the Golden Queen mine tungsten occurs as wolframite with some scheelite in small ore shoots associated with high grade gold ore. The ore grade material has been treated for its gold content alone and the tungsten minerals are not being recovered.

(5) The Field Team concludes that the proposed exploration work would not result in the discovery of significant amounts of tungsten ore, and therefore recommends that the application be denied. The Commodity Divisions of the Bureau of Mines and the Geological Survey concur in this recommendation.

W S Martin

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

DOCKET
SURNAME
Holt
Martin

400

June 6, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $65,222.00
Docket No. DMEA 442 - Tungsten
Gold and Tungsten Consolidated
Golden Queen Mine
Boulder County, Colorado

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

(1) The applicant, Gold And Tungsten Consolidated, P. O. Box 144, Ward, Colorado, requested exploration assistance in the amount of $65,222.00 for rehabilitation and drifting in the Golden Queen mine, and unwatering and rehabilitation in the New Market mine.

(2) The applicant owns the following lode mining claims, situated in the SW. ¼, sec. 6, T. 1 N., R. 72 W and the SE ¼, sec. 1, T. 1 N., R. 73 W., 6th P. M., Ward Mining District, Boulder County, Colorado:

Patented

Golden Queen, U. S. Survey No. 6274

Golden Queen No. 2, U. S. Survey No. 20587

New Market, U. S. Survey No. 157

Legal Tender, U. S. Survey No. 19159

Unpatented

Golden Queen No. 3, recorded in Book 996, page 458 of the records of the County Treasurer of Boulder County, Colorado

(3) The proposed program is to explore the Golden Queen and New Market mines by rehabilitating old workings in the 250-foot level of the Golden Queen mine, drifting about 450 feet westerly to connect with the flooded workings of the New Market mine, and unwatering and

rehabilitating the New Market

(4) In the area of the Golden Queen mine tungsten occurs as wolframite with some scheelite in small ore shoots associated with high grade gold ore. The ore grade material has been treated for its gold content alone and the tungsten minerals are not being recovered.

(5) The Field Team concludes that the proposed exploration work would not result in the discovery of significant amounts of tungsten ore, and therefore recommends that the application be denied. The Commodity Divisions of the Bureau of Mines and the Geological Survey concur in this recommendation.

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

SPHolt:foc
6-5-56
cc to: Docket
Code 400
Admr. Read. File
Operating Comm.

Docket

IN REPLY REFER TO:

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

RECEIVED
MAY 9 - 1956

May 9, 1956

Re: DMEA 4142
Gold and Tungsten Consolidated
Golden Queen Mine
Boulder County, Colorado
$65,221.00 - Tungsten

W3a4

Memorandum

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

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

Subject: Review of Field Team report.

The applicant requested assistance in exploring a gold vein from which small tonnages of tungsten-bearing gold ore have been mined.

The examiners found that the small ore shoots containing appreciable quantities of tungsten minerals also contain good gold values and as a rule the gold would be recovered and the tungsten would not be saved.

As the proposed work probably would not result in the discovery of a significant quantity of tungsten the examiners and the Field Team recommend denial of the application.

I concur with the recommendation of the examiners and the Field Team.

N. E. Nelson

N. E. Nelson

Copy retained 400

Docket

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

April 30, 1956

224 New Customhouse
Denver 2, Colorado

WSM

RECEIVED
MAY 2 - 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, DMEA Docket 4142 (Tungsten) Gold and Tungsten Consolidated, (Golden Queen Mine), Boulder County, Colorado

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

The field examiners concur that the proposed work would not result in a discovery of a significant amount of tungsten, and they recommend that this application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
5-7-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

DMEA
Date Rec'd.
APR 30 1956
BUREAU OF MINES
Denver, Colorado

DENVER FEDERAL CENTER
DENVER 2, COLORADO

TRANSMITTED April 27, 1956

APR 30 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman
John F. Shaw

Subject: Examination Report, DMEA 4142, (Tungsten), Gold and Tungsten Consolidated, (Golden Queen Mine), Boulder County, Colorado

Enclosed are the original and 7 copies of a Joint Engineering and Geologic Report by R. U. King, Geologist, and C. M. Harrer, Mining Engineer, covering Docket DMEA 4142.

Gold and Tungsten Consolidated applied for exploration assistance to rehabilitate old workings on the 220-foot level of the Golden Queen Mine, drift about 450 westerly to connect with the flooded workings of the New Market Mine and unwater and rehabilitate the New Market mine. The estimated cost of the work is $65,221.00.

The property was examined on April 20-21, 1956, by R. U. King, Geologist, and C. M. Harrer, Mining Engineer. The examining team concluded that tungsten had occurred in appreciable concentrations only in small ore shoots associated with high-grade gold ore. The ore grade material has been treated for its gold content and the tungsten minerals are not recovered.

It is not believed that the proposed work would result in a discovery of a significant amount of tungsten and therefore it is recommended that this application be denied.

for E. N. Harshman
E. N. Harshman
Member, Field Team

RECEIVED
MAY 2 - 1956

John F. Shaw
John F. Shaw, Supt.
Denver Experiment Station

Enclosure

cc 7
EHHarshman
DMEA 4142
Chron

JFS:ph

Reviewed by
DMEA OPERATING COMMITTEE
5-7-56
(date)

TRANSMITTED

APR 3 0 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 4142

Gold and Tungsten Consolidated

Golden Queen Mine

Boulder County, Colorado

Tungsten

Joint Geologic and Engineering Report

By

R. U. King, Geologist
Geological Survey

C. M. Harrer, Mining Engineer
Bureau of Mines

April 20, 1956

Reviewed by
DMEA OPERATING COMMITTEE
5-7-56
(date)

DMEA 4142
GOLD AND TUNGSTEN CONSOLIDATED
GOLDEN QUEEN MINE
BOULDER COUNTY, COLORADO

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DMEA 4142
GOLD AND TUNGSTEN CONSOLIDATED
GOLDEN QUEEN MINE
BOULDER COUNTY, COLORADO

INTRODUCTION AND SUMMARY

Gold and Tungsten Consolidated is the property of Joseph H. Walter of Ward, Colo. Mr. Walter is a gold and tungsten miner of long standing. He has applied for Defense Minerals Exploration Administration assistance to explore the Golden Queen mine for tungsten. Exploration would consist of rehabilitating old workings on the 220-foot level of the Golden Queen mine, drifting about 450 westerly to connect with the flooded workings of the New Market mine and finally unwatering and rehabilitating the New Market mine. The cost of this project was estimated by the applicant as $65,221.00.

The property includes parts of 5 lode claims in the SW 1/4 sec. 6, T. 1 N., R. 72 W., and the SE 1/4 sec. 1, T. 1 N., R. 73 W., 6th Principal Meridian, in the Ward Mining District, Boulder County, Colo.

The applicant's property and all accessible workings of the Golden Queen mine were examined for DMEA by a joint Bureau of Mines and Geological Survey team on April 20-21, 1956. The examiners were accompanied by Joseph H. Walter the applicant, Lawrence J. McGreevy of the Geological Survey and Francis Kung, point IV trainee.

The property is north of the well known Boulder Tungsten District near the north end at the Front Range mineral belt. Most of the ore deposits in the Ward area occur in fissure veins in granite or gneiss. As in the Boulder District, schist host rocks are unfavorable for ore deposits.

The Golden Queen is principally a gold-bearing vein although minor amounts of wolframite and some scheelite are associated with gold and sulfide minerals. The vein follows a strong fracture in granite and gneiss; it strikes from N. 85° E. to N. 60° W. and dips steeply north. Vein widths range from 2 inches to 3 feet and average about 12 inches.

The results of sampling by the examining team indicate significant amounts of gold but only a minor amount of tungsten in the vein material sampled.

As a result of the examination and the past history of the area, Ogden Tweto--oral communication, it is concluded that tungsten, in appreciable concentrations, occurs only in very small ore shoots and generally associated with high-grade gold ore. This ore grade material is invariably milled for its gold content and the tungsten minerals are not recovered.

Denial of the application for exploration assistance, DMEA Docket 4142, is recommended.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

Gold and Tungsten Consolidated, in the person of Joseph H. Walter of Ward, Colo., owns the Golden Queen and New Market mines which he proposes to explore with DMEA assistance. The claims (figs. 1 and 2) are in the SW 1/4 of sec. 6, T. 1 N., R. 72 W., and the SE 1/4 sec. 1, T. 1 N., R. 73 W., 6th Principal Meridian, in the Ward Mining District of Boulder County, Colo., at altitudes of 9,000 to 9,500 feet above sea-level. The property is one-half mile northeast of Ward and 12 miles west of Boulder, Colo. The property is readily accessible over good roads throughout

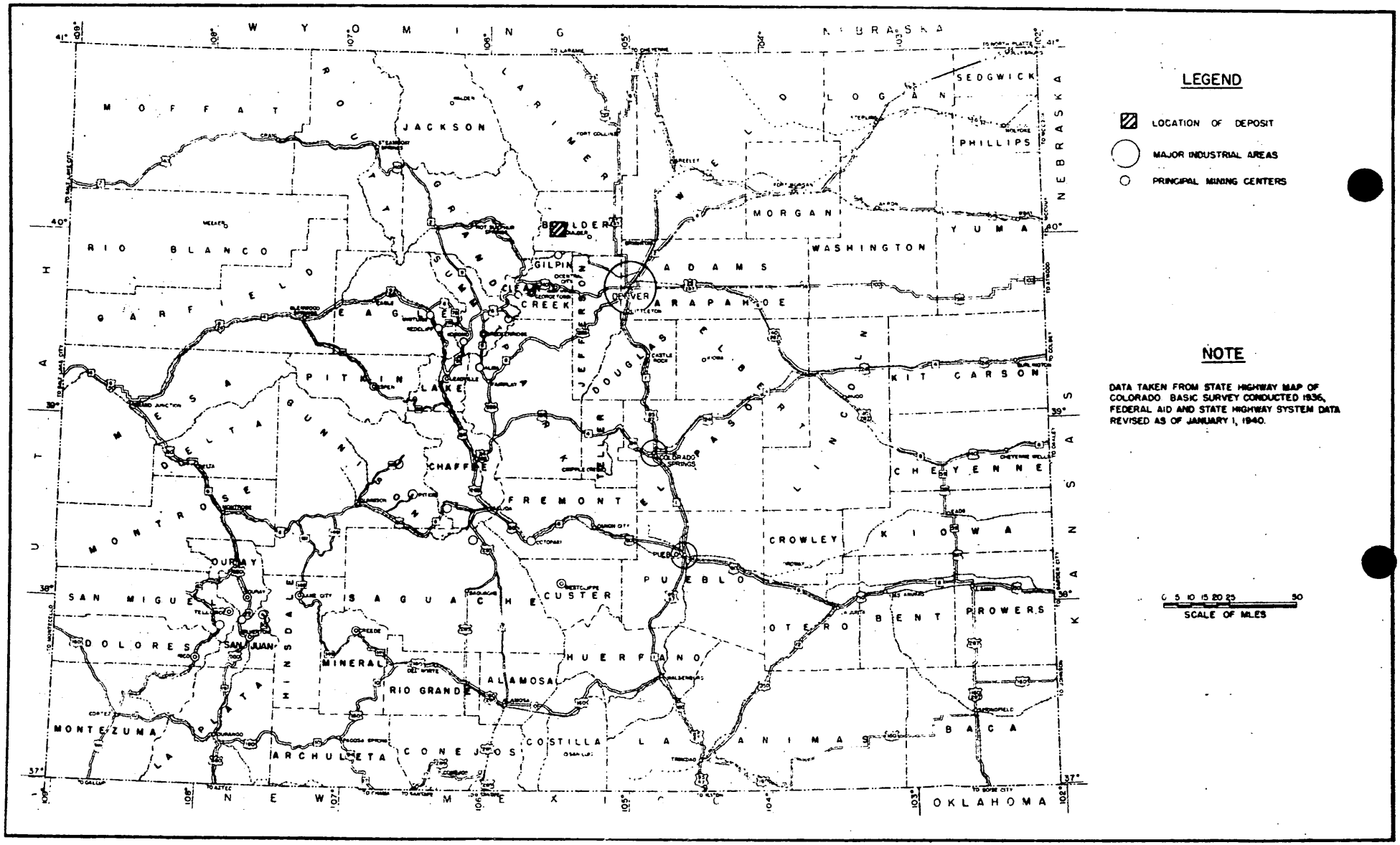

FIGURE 1 - LOCATION MAP, GOLD AND TUNGSTEN CONSOLIDATED, GOLDEN QUEEN MINE, BOULDER COUNTY, COLO. DMEA 4142

the year. The nearest rail facilities are those of the Colorado and Southern and Union Pacific Railroads at Boulder, Colo. The nearest tungsten milling facilities are at Nederland, Colo., 12 miles to the south. Ample water and timber are available locally for mining and all supplies are readily available by truck transportation. The property is 55 miles from Denver by good roads.

The region is subject to heavy snowfall in winter, however year round mining operations can be maintained. Electric power available is sufficient only for lights and small pumps.

HISTORY AND PRODUCTION

The Ward Mining District was one of the first discovered in Boulder County. Gold was discovered in 1861 and nearly all of the principal mines were discovered before 1870. Gold, silver and lead are the principal metals mined in the district. Some copper, zinc and tungsten have also been produced. Tungsten is found sparingly in nearly all of the mines of the Ward District. Worcester[1/] reported it as particularly abundant in the New Market, Niwot, Humbolt, Nelson and other mines near Ward. Tungsten was noted early in the Golden Queen mine, however only sporadic and short lived attempts were made to produce it. During April 1941, a shipment of 4.875 tons of tungsten ore from the Golden Queen shaft at a depth of 180-200 feet was sent to the Teal mill. It assayed 1.6 percent WO_3. A shipment of 2.734 tons of tungsten ore shipped to the Wah Chang Corp., mill at Boulder during Oct. 1955 assayed 1.17 percent WO_3. A 102-pound sample of selected Golden Queen dump rock,

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1/Worcester, P. G., The Geology of the Ward region, Boulder County, Colo., Colorado Geol. Survey Bull. 21, (1920).

taken during Sept. 1955, assayed 6.24, 6.25 and 6.32 percent WO_3 respectively. A truck load (3,325 lbs.) of tungsten ore from a prospect cut near the west end line of the New Market claim (figs. 2 and 3) assayed 1.18 percent WO_3. The Golden Queen mine has an estimated total production of 140 units of WO_3 to date.[2/]

OWNERSHIP

Gold and Tungsten Consolidated is the property of Joseph H. Walter of Ward, Colo. The property, consisting of 5 patented claims and one lode location, is known as the Golden Queen Mine. The following claims (fig. 2) are owned and controlled by the applicant and are the site of the proposed exploration work.

Name	Kind	Size-feet	Survey number	Patent number	Location certificate number	Book	Page
Golden Queen	Patented lode	150 x 1498.81	6,274	19,922	--	Co. Treas.rolls	
Golden Queen No. 2	"	600 x 1500	20,587	1,117,203	--	"	
New Market	"	150 x 1500	157	--	--	"	
Legal Tender	"	150 x 1500	19,159	592,378	--	"	
Golden Queen No. 3	Lode location	600 x 1500	--	--	566,036	996,458	

The exceptions shown on figure 2 would not interfere with exploration of the Golden Queen vein between the Golden Queen and New Market shafts.

The applicant has not described the bounds of his Golden Queen No. 3 claim location completely and this would have to be corrected for closure.

2/ Confidential files Bureau of Mines, Region III, Denver Experiment Station, Denver, Colo.

GEOLOGY

The Ward Mining District lies just north of the well-known Boulder Tungsten District near the northern end of the Front Range mineral belt of Colorado. The region surrounding the Golden Queen Mine is underlain by Precambrian rocks, including coarse-grained Silver Plume granite with associated small masses of pegmatite, and older schists and gneisses of the Idaho Springs formation.

Nearly all the ore deposits in the Ward region occur in fissure veins which strike roughly east and west and dip at rather high angles to the north. Sharp changes in dip are quite common. The best developed and richest veins are in granite or gneiss. P. G. Worcester (Colorado Geol. Survey Bull. 21, p. 48, 1920) states that the Idaho Springs schist was unable to preserve fractures and fissures caused by crustal movements, and also that its schistose structure made it more favorable for dispersion of mineralized solutions rather than concentration. Therefore, well defined veins in the granites and gneisses may often play out when followed into the schists.

In the Golden Queen workings the chief wall rock is massive coarse-grained Silver Plume granite. Weakly foliated granite gneiss was observed in the east drifts of the 220 and 300 foot levels, and strongly foliated quartz-biotite gneiss was noted at the west end of the 100 foot level (fig. 4). No schist was observed in the four levels examined.

The Golden Queen vein follows a strong fracture in the granite and gneiss. The strike and dip of the vein is parallel to the strike and dip of the foliation in the gneiss, the strike ranging from N. 85° E. to N. 60° W., and the dip ranging from 55 degrees north to vertical (fig. 4).

The vein is 2 inches to 3 feet wide but averages about 12 inches in its productive parts. There is no evidence of intense wall-rock alteration. In most instances the vein is free from both walls with a thin film of gouge between the vein and the footwall.

The vein is chiefly made up of coarse-grained pyrite with lesser amounts of chalcopyrite, wolframite (hubnerite) and sphalerite in a gangue of glassy quartz. Minor amounts of scheelite were observed scattered throughout the vein especially on the 220 and 300 foot levels. The small amount of molybdenum present, as shown by the chemical laboratory report, is suspected to occur as powellite. Ore mined in the past from the Golden Queen mine has been considered of value only for its gold content.

In the mine workings towards the east the vein structure becomes weak and poorly defined and at the east faces the vein widths narrow to less than 2 inches (fig. 4). Apparently the known ore shoot east of the Queen shaft has already been fully developed and, with the exception of a few pillars and a very small amount of ore between the 100 and 220 foot levels, it has been mined out. In the west faces of the 100, 150 and 300 foot levels the structure along which the ore-bearing vein occurs is strong and well defined. On the 220 foot level where the applicant proposes to explore by drifting west, the face was inaccessible due to caving. The lack of further mining to the west on all levels was because of litigation and not because the gold values had become exhausted.

The results of the sampling indicate the presence of good gold values with only insignificant amounts of tungsten in the vein material sampled. Also, the past history of the area shows that tungsten, in appreciable concentrations, occurs only in very small ore shoots and generally associated with high-grade gold ore. This ore grade material is milled invariably for its gold content and the tungsten minerals are not recovered.

SAMPLING DATA

The Golden Queen mine is known principally as a gold producer and the operator has records of many shipments of gold ore. To determine the tungsten potential of the property eight channel samples were taken of vein exposures on various levels (fig. 3). The results of sampling are as follows:

Sample No.	Vein and sample width in feet	Ounces per ton Gold	Ounces per ton Silver	Percent Tungsten	Percent Copper	Percent Molybdenum
H-1	0.8	0.09	<0.1	0.09	0.09	0.02
H-2	0.2	0.11	<0.1	0.39	0.08	0.13
H-3	0.7	4.66	1.0	0.14	0.95	<0.01
H-4	1.2	0.64	0.2	0.12	0.30	0.12
H-5	1.0	0.23	<0.1	0.16	0.50	0.01
H-6	0.8	0.30	<0.1	0.46	0.05	0.03
H-7	0.4	1.75	0.5	0.01	1.50	0.07
H-8	0.8	0.41	0.2	<0.01	0.21	0.08

The above assays verify that the property is principally a gold mine and that tungsten is only an acessory mineral of little importance.

ORE RESERVES

There are no known reserves of tungsten ore in the Golden Queen mine.

PRESENT STATUS

Exploration and development

The Golden Queen mine is developed by a 2-compartment shaft the collar of which is at an altitude of 9,225 feet above sea-level (figs. 2 and 3). The shaft is 360 feet deep and follows the dip of the Golden Queen vein. This vein was drifted along and stoped on the 100-foot, 220-foot, 300-foot and 350-foot levels as shown on figures 2 and 3.

At the time of the examination the 100-foot level was accessible both east and west for its full length of 350 feet.

The 220-foot level east was accessible for its full length of 250 feet. The drift west was partly filled with caved rock and was completely choked with stope fill at a point 150 feet west of the shaft. The remaining 50 feet of drift was inaccessible. The applicants proposed exploration program includes rehabilitation of this level.

The 300-foot level east was accessible to its end, 250 feet east of the shaft. The drift west was also accessible to its end, 198 feet west of the shaft.

The 350-foot level was inaccessible from the shaft since it has not yet been unwatered, however its presence was verified by inspection of a 350-foot level stope which was partly accessible from the 300-foot level (fig. 3).

The New Market mine, figures 2 and 3, is completely inaccessible and full of water. The extent of development is shown on figure 3 which is compiled from a section and claim maps submitted by the applicant. The maps contain discrepancies which cast doubt on the extent and condition of the New Market mine levels and workings and their relations with the Golden Queen mine. Trying to connect with and unwater the New Market

mine without accurate maps would prove very hazardous. In addition, exploration of the New Market mine and Golden Queen No. 3 claim without an examination of the vein as exposed in this mine is not justified. The applicant must therefore unwater the New Market mine and make it sufficiently accessible for examination before the merits of any exploration program in this mine area can be considered.

Mining, milling and other facilities

The applicant is presently engaged in unwatering and rehabilitating the Golden Queen mine. He has a well equipped surface plant which is housed in two frame buildings. One building encloses a shop and compressor. The other contains the hoist, change room and small store room. The shaft head works comprises a strong headframe and mechanical bucket dump. The applicant owns considerable small tools and welding equipment, a geared mine hoist, two 2-1/4-inch (Bilton) Byron Jackson centrifugal pumps with 5 horsepower motors and a 2-ton International truck. A 210 c.f.m. Ingersoll Randair compressor, a diesel engine drive for the mine hoist, and an IR-38 Jack leg drill complete are used by the applicant under a rental-purchase agreement. The nearest milling facilities are the Hetzer mill at Nederland, 14 miles distant; and the Wah Chang (Teal) mill west of Boulder and 17 miles distant from the property. Sufficient single phase electrical energy is available at the property for pumps and lights.

APPLICANT'S PROJECT PROPOSAL AND COSTS

Gold and Tungsten Consolidated requested Defense Minerals Exploration Administration assistance totalling $65,221.00 to accomplish the following work on property which they own.

1. Unwater the Golden Queen mine, figures 2 and 3.

2. Rehabilitate the 220-foot level west of the Golden Queen shaft to its end; about 200 feet.

3. Complete about 450 feet of exploration drift west along the Golden Queen vein on the 220-foot level to connect with the 310-foot level of the New Market mine.

4. Unwater the New Market mine workings through the Golden Queen level and shaft.

5. Rehabilitate the New Market shaft and levels preparatory to working the vein on the Golden Queen No. 3 claim.

The applicant distributed his estimated costs as follows:

Applicant's cost estimate

(a) Installing power line to mine (Public Service)	$ 534.00
(b) Furnishing electric power cable, boxes, fittings, lights for Golden Queen plant and shaft and installing same.	600.00
(c) Purchase two 1-1/4-inch TLM Bilton (Byron-Jackson) centrifugal pumps with 5-horsepower motors	964.00
(d) Two pump discharge hoses	93.98
(e) Two pump suction hoses	60.00
(f) 100-foot of 4-inch galvanized pipe and fittings for pump discharges, including installation and pump platform construction	140.00
(g) Fuel oil and electric power to unwater Golden Queen shaft to below the 220-foot level	400.00
(h) Freight on equipment from Denver to Ward, Colo.	200.00
(i) Labor, unwatering to the 220-foot level of the Golden Queen shaft	2,500.00
(j) Repairing ladders, skidway and stations on Golden Queen shaft to below the 220-foot level, 220-ft. at $2.50	550.00
(k) Repairing surface buildings, installing equipment--labor and material	750.00

(l)	Constructing ore house and bins		$2,000.00
(m)	Assays for gold, silver and tungsten		300.00
(n)	Compensation and fire insurance		700.00
(o)	Supervision, office work and engineering		6,000.00
(p)	Drifting 450 feet west on the 220-foot level towards the New Market mine at $60.00 per foot		27,000.00
(q)	Contingencies		1,000.00
(r)	To unwater and rehabilitate the New Market shaft and drifts preparatory to operating the New Market mine and drifting westerly on the Golden Queen No. 3 claim		15,000.00
(s)	Purchase of equipment:		
	1-210 c.f.m. Gyroflow air compressor	$3,780.00	
	1- 30 hp I.N. diesel engine and clutch for mine hoist	950.00	
	1- Transmission for above engine	250.00	
	1- Model RB-94 stoper	790.00	
	1- Model 5-48 sinker air drill	410.00	
	1- Jackleg for above sinker	250.00	
			6,430.00
Total estimated cost of proposed work			$65,221.98
Government participation of 75 percent			$48,916.49

At the time of the examination (March 20-21, 1956) the surface plant at the Golden Queen mine had been entirely rehabilitated and was in first class operating condition. The power line and pump cables and pumps were installed in the Golden Queen shaft. The Golden Queen mine is now unwatered to below the 300-foot level. Therefore, Item 1 of his proposal and all cost attendant to unwatering and rehabilitating the Golden Queen shaft, cost items (a) to (k), are completed. Cost item

(1) for ore house and bins is not an allowable cost.

The only items reamining of the applicant's original request are:

(1) Rehabilitate the 220-foot level and advance it westerly along the Golden Queen-New Market vein system by 450 feet of 4 x 7-foot drift to connect the Golden Queen and New Market mine workings. The applicant proposes to complete this at an overall cost of $60.00 per foot for a total of $27,000.00.

(2) Unwater the New Market mine (figs. 2 and 3) through the Golden Queen and rehabilitate the New Market mine workings preparatory to working the New Market mine and Golden Queen No. 3 claim. The New Market mine is filled with water, however the applicant estimates this stage of his program at an overall cost of $15,000.00. The total cost of the applicant's remaining work is $42,000.00

CONCLUSIONS AND RECOMMENDATIONS

The Golden Queen mine is within a district that has been considered principally important for its gold production and has never been an important tungsten producer.

As a result of the examination and the very minor amounts of tungsten present in all the samples assayed, together with the past history of the area, it is concluded that the exploration requested by the applicant will not lead to the discovery of significant amounts of tungsten ore. It is recommended that the request for exploration assistance (DMEA Docket 4142) be denied.

Docket

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

RECEIVED
MAY 16 1956

May 14, 1956

WSM

Memorandum

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

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

Subject: Review of Field Team Examination Report
Docket No. DMEA 4142
Golden Queen Mine
Gold & Tungsten Consolidated
Boulder County, Colorado
Joseph H. Walter, Ward, Colorado
$65,221.00-Tungsten

Subject report indicates that a significant discovery of tungsten is believed to be unlikely and recommends denial of the application. I concur in the recommendation.

R W Holliday
R. W. Holliday

Copy retained 400

RECEIVED
MAY 16 1956

May 14, 1956

Memorandum

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

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

Subject: Review of Field Team Examination Report
Docket No. DMEA 4142
Golden Queen Mine
Gold & Tungsten Consolidated
Boulder County, Colorado
Joseph H. Walter, Ward, Colorado
$65,221.00-Tungsten

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R. W. Halliday

RECEIVED
MAY 16 1956

May 14, 1956

Memorandum

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

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

Subject: Review of Field Team Examination Report
Docket No. DMFA 4142
Golden Queen Mine
Gold & Tungsten Consolidated
Boulder County, Colorado
Joseph H. Walter, Ward, Colorado
$65,221.00-Tungsten

Subject report indicates that a significant discovery of tungsten is believed to be unlikely and recommends denial of the application. I concur in the recommendation.

R. W. Holliday

Docket

RECEIVED

FEB 1 5 1956

February 10, 1956

Copy retained 400

Memorandum

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

From: Acting Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4142 (Tungsten), Gold and Tungsten Consolidated, Golden Queen mine, Boulder County, Colorado

The subject application was received in this office on February 10, 1956.

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

Scott W. Hazen, Jr.

Scott W. Hazen, Jr.

cc: W. M. Traver (2)
E. N. Harshman
J. F. Shaw
Sec. Op. (2)

Docket.

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

RECEIVED
FEB 13 1956

February 9, 1956

224 New Customhouse
Denver 2, Colorado

Copy retained 400

WMT

Memorandum

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

From: Field Team, Region III

Subject: Docket DMEA 4142 (Tungsten), Gold and Tungsten Consolidated, Golden Queen mine, Boulder County, Colorado

Enclosed is the subject application in the amount of $65,221.00. Also enclosed is a copy of a letter from the Chairman of the Operating Committee and memoranda of review of the application by R. W. Holliday and N. E. Nelson, Commodity Specialists.

A field examination and suitable report are required. Before the field examination is scheduled, it should be determined from the applicant if the shaft has been unwatered and the property available for a field examination.

DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

Enclosures

HMC:ab

cc: Chair. Op. Comm. (2)
Docket 4142
Ehron.

Copy retained 400

400

DOCKET
SURNAME
Ventin
Kilgaard
Gerhoop
Selfridge
F Johnson

FEB - 6 1956

Gold and Tungsten Consolidated
P. O. Box 144
Ward, Colorado

Re: Docket No. DMEA 4142 - Tungsten
Golden Queen Mine
Boulder County, Colorado

Gentlemen:

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

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

Sincerely yours,

C. C. Mittendorf

Administrator

SPHOLT:foc
2-3-56
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
Messrs. Holliday, USBM
Kiilsgaard, USGS

R.C.L.

400

DOCKET
SURNAME
Martin
Selfridge
Ferguson

FEB - 6 1956

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 442 - Tungsten
Gold and Tungsten Consolidated
Golden Queen Mine
Boulder County, Colorado

Dear Mr. Traver:

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

Copies of memoranda dated January 27 and 30, 1956, by R. W. Holliday, Bureau of Mines, and Ned E. Nelson, Geological Survey, respectively, relating to the project, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosure

APPROVED:

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

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

SPHolt:foc
2-3-56
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
Messrs. Holliday, USBM
Kiilsgaard, USGS

W.G.G.

Docket

IN REPLY REFER TO:

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

RECEIVED
JAN 31 1956

January 30, 1956

Re: DMEA 4142
Gold and Tungsten Consolidated
Joseph H. Walter
Golden Queen Mine
Boulder County, Colorado
$65,221.00 - Tungsten

Copy returned 2/10

Memorandum

WSM

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

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

Subject: Review of application.

The applicant requests assistance in unwatering and rehabilitating two old mines and driving 450 feet of connecting drift between the two mines. With rentals, equipment, etc., the cost is estimated at $65,221.00.

I have no information on the mines. The location is given as Boulder County but it is in the Ward Mining District not in the better known district of the Lovering and Tweto Professional Paper 245.

Apparently the applicant has opened a new location shaft on the Golden Queen No. 3 claim which is taken to be related to the Golden Queen and New Market veins. The vein (or veins) essentially gold veins also carry a tungsten mineral and from them small shipments of ore have been made and several samples taken. The values of the shipments reported are:--

Year	To	Pounds	Value, Net
1941	Geo. Teal	9,750	$109.66
1955	Wah Chang	5,575	69.54
1943	Boulder Tung.	295	43.59
	Totals	15,620	$222.79

Assay certificates dated September and October 1955 may refer to samples taken from the new location shaft. Good material is suggested but just what they represent is not told.

Perhaps work in the vicinity of the new work is warranted. That the work proposed is now justified appears less likely.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

Docket

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

January 27, 1956

Copy retained 400

Memorandum

To: Chief, Iron & Ferroalloys Division-DMEA
Through: Chief, Branch of Ferrous Metals & Ferroalloys

WJM

From: Commodity Specialist-Tungsten

Subject: Application for Exploration Assistance
Docket No. DMEA-4142
Golden Queen, New Market and Golden Queen # 3
Boulder County, Colorado
Joseph H. Walter, P. O. Box 144, Ward, Colo.
$65,221.00-Tungsten

Subject application proposes rehabilitation and repair of the Golden Queen shaft to 220 feet and drifting 450 feet west, "to connect with the New Market workings."

From the sketch submitted with this application, feasability of the proposal is questionable.

Apparently the Golden Queen shaft and levels are filled with water, although the word "unwatering" has been scratched out of the application.

It appears that shaft pillars have been mined out or nearly so and the property closed since the last war which is presumed to mean World War II.

Approximately 200 feet of drift on the 220 foot level would have to be rehabilitated and there is no evidence in the application to indicate that this drift has been held open.

There is a question whether breaking through into the New Market workings would constitute an additional drainage problem.

Past production from the property justifies an examination by the Field Team and Field referral is recommended.

R. W. Holliday

R. W. Holliday

Copy to: Mr. Geehan
Mr. Holliday
Ferrous Metals
Docket No. 4142
F I L E S

January 25, 1956
Subject: DMEA-4142
Re: Exploration Assistance
Golden Queen Mine

Gold & Tungsten Consolidated
P. O. Box 144
Ward, Colorado

Gentlemen:

The receipt of your application dated January 18, 1956, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4142 and referred to the Iron & Ferro-Alloys Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

January 25, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region III.

DMEA - 4142 Gold & Tungsten Consolidated

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

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

RECEIVED
JAN 23 1956

January 19, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Aid (Tungsten), Gold and Tungsten Consolidated, Joseph H. Walter, Golden Queen Mine, Boulder County, Colorado

Enclosed are three copies of the subject application. One copy is being retained in our file.

W. M. Traver

W. M. Traver

Enclosures

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

RECEIVED
JAN 23 1956

January 19, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Aid (Tungsten), Gold and Tungsten Consolidated, Joseph H. Walter, Golden Queen Mine, Boulder County, Colorado

Enclosed are three copies of the subject application. One copy is being retained in our file.

W. M. TRAVER,

W. M. Traver

Enclosures

DMEA
Date Rec'd.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved
Budget Bureau No. 55-R1035.2.

JAN 19 1956

BUREAU OF MINES
Denver, Colorado

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

Not to be filled in by applicant

Docket No. DMEA - 4142
Metal or Mineral Tungsten
Date Received 1-23-56
Estimated Cost $65,221.00
Participation (Government %)

RECEIVED
JAN 23 1956

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Gold and Tungsten Consolidated
Joseph H. Walter.
P.O. Box 144, Ward, Colo.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Golden Queen #6274; Golden Queen #2 - #117205; New Market #157 Legal Tender #19159; Golden Queen #3, Location Certificate #566036, Book 996, Page 458, Nov 18, 1955

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

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

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

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

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) [redacted] the mineral or minerals for which you w[redacted] explore Tungsten

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 12 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

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

☒ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated Jan 18, 195 6

Jos H Walter
(Applicant)

By

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Joseph H. Walter (Owner)

APPLICATION FOR AID IN AN EXPLORATION PROJECT

DMEA ORDER 1

RECEIVED
JAN 23 1956

4. PHYSICAL DESCRIPTION

(a) Golden Queen shaft and workings filled with water. Shaft re-timbered to water level, aprox. 50 ft. New tipple. Work completed for location, Golden Queen #3 and road in. 2250 lbs. surface ore from above location mixed with 3325 lbs. from Golden Queen dump and milled at Wah Chang Corporation, Sugarloaf, Colo. Oct. 28. 1955. Settlement 1.17 WO/3. Copy of settlement sheet enclosed.
The above work completed by Jos. H. Walter (Owner)
The only accessible workings are in location shaft on Golden Queen #3, which can be examined at the present writing. It is necessary to unwater the Golden Queen as proposed in this loan application for further sampling and examination, however enclosed assays, mill tests and mill runs may justify an earlier examination of the above location. I have bought the New Market and Legal Tender, also located the Golden Queen #3, making possible the development of this whole ore body. My end line was aprox. 200 ft. west of the shaft as decided by apex suit in 1934. Note on sketch enclosed. Below 100 ft. level all drifts aprox. 200. ft.

(b) Property previously mined for Gold running to over 4 oz. per ton. To date I have located over $50,000.00 in settlement sheets on gold ore and can have copies made of if necessary.
Copy of settlement sheet enclosed - George H. Teal, April 19, 1941 on WO/3 and assays C. G. Bynum on March 26, 1941. Low grade concentrates sold Aug. 24, 1953 to Boulder Tungsten Mills. Copy of settlement sheet enclosed.

(c) Maps - Sketches - Assay reports - Mill tests and mill runs made in Sept. and Oct. 1955 enclosed. These made from the Golden Queen dump and from the work on the Golden Queen #3 location.

(d) Distance to highway 160 aprox 100 yards and ¼ mile from the town of Ward. The Wah Chang Corporation, Marion hill, Sugarloaf, 20 miles. Boulder 26 miles.

(e) All are available or can be made so.

5. THE EXPLORATION PROJECT

(a) Tungsten

(b) Rehabilitation and repairs, ~~[illegible]~~ the Golden Queen and drifting 450 ft. on the 220 ft. level west to connect with the New Market workings. Sketch of the proposed work enclosed. Further work can then be done thru the New Market workings to the Golden Queen #3 location.

(d) I have been connected with the operation on this property since 1915 and most of the work has been done under my supervision. I will supervise all operation and devote my entire time on this work. Property was closed down when I enlisted in the Navy in 1917 and remained closed down until I opened it up in 1933 when gold went to $35.00 per oz. No work could be done beyond the end line determined by the court in apex suit of 1934. All the work was done below the 100 ft. level from 1934 to the shut down during the last war. Workings went only to the end line determined by the court, which is marked on enclosed sketch. A point aprox. 200 ft. west of the Golden Queen shaft.

6. ESTIMATE OF COSTS

Enclosed on seperate sheet.

(a) Independent contracts.
On the 450ft. of drifting I will furnish all top labor, power, fuel oil etc. All labor used underground for drilling, mucking, timbering, track laying, installing air and water lines and ventilating pipe and fans. I will furnish all the materials for this work, including timbers, rails, pipe, explosives etc. Drift 4'x8' in the clear and all work approved by the mine inspector. The work to be completed at $60.00 per foot.

(b) Labor, Supervision, consultants.
The above will be paid for according to the prevailing wage scale for their type of work.

(c) Operating materials and supplies.
Public service electricity for pumping, lighting and any motors up to five horse power. Fuel oil for hoist and compressor. Oil at 15.3 cents delivered. No cost for water.

(d) Operating equiptment.
List enclosed on estimate of costs and use of owned equiptment and buildings.

6. ESTIMATE OF COSTS

(d) Operating equiptment.
Owned equiptment to be used.
One geared hoist with cable.
One air receiver for top use (4' x 8')
One air receiver for underground XXXX(20"x 8')
One water tank for water to drills.
Two ore cars
Two 1500 lb. buckets.
Hoist building (500' floor space)
Shop and compressor building (500' floor space)
500' 2" black pipe and fittings.
300' ⅛" black pipe and fittings .
500' Rails.
New tipple.
Shaft retimbered aprox. 50 feet to water level.
New skids, seperate bucket and man way, new ladders and stations to water level.
This work approved by the mine inspector.
500 gal. fuel oil tank.
Complete blacksmith shop equiptment as follows.
Forge with electric fan blower.
Electric two wheel grinder.
Anvil and all tools for same.
Pipe vice and all cutters and threaders from 1/4 " up to 2" pipe.
Two bench vices.
Cutting and welding torches, gauges and materials.
Chain hoist and rope blocks.
Tools for all kinds of shop work.
32" saw (push table) with 3 H.P. electric motor.
3/4 H.P. Syntron electric cut off saw.
Carpenter tools for all types of work.
Soldering torch and equiptment.
Two wheel barrows and concrete work tools.

6. ESTIMATE OF COSTS

(d thru h)
Rentals from Air Rentals Inc. 3301 Walnut St. Denver, Colo.

	Rent per mo.	Cost
Gardner Denver Compressor with Caterpillar diesel engine----------	$315.00	$ 3780.00
36 HP I.N. Diesel engine with clutch		950.00
Transmission and installing in Denver		250.00
Rental on entire unit for hoist----------	300.00	
Model BB- 94 Stoper- wet construction-----	75.00	790.00
Model S- 48 Sinker- " " ----	41.00	410.00
Feed leg for drifting - 3 B 4' ---------	$6 25.00	250.00
	$755.00	$6430.00

If rental-purchase option is exercised,
during first 3 months(100% applies)
Second 3 months, 90% applies.
Third 3 months, 80%
Anytime thereafter 80% applies

Buying with cash.

Electric power line to mine (public service)----------	534.00
Electric cable , boxes, fittings, lights and wiring same-	600.00
Two- 1½" TLM Bilton pumps, 5 HP Elec. Motor. Joy and Cox. 2124 Broadway, Denver, Colo. F. O. B. Los. Ang. Fittings and freight to denver----------	964.00
Two flexible discharge hoses made up in Denver ----------	93.98
Two suction hoses made up in Denver ----------	60.00
100 ft. 4" galvanized pipe and connections for top discharge including material and labor for pump platform----------	140.00
Repairing buildings, installing equiptment,labor & material	1750.00
Fuel oil and electric power to unwater to 220 ft. level---	400.00
Freight on all equiptment from Denver to Ward----------	200.00
Labor unwatering to below 220 ft. level----------	2500.00
Repairing ladders, skidway, stations to below the 220 ft. level. Labor and material at $2.50 per foot. ----------	550.00
Assays on underground workings----------	500.00
Compensation and fire insurance----------	700.00
450 feet drifting at $60.00 per foot----------	27000.00
Ore house and bins----------	2000.00
Management, office etc.----------	6000.00
Contingencies----------	1000.00
When connecting to the New Market for pumping the water and rehabilitation of shaft and drifts to work the Golden Queen #3 and workings of the New Market----------	15000.00
	$ 65221.00

CERTIFICATE OF ANALYSIS

HILL & JUDE

. . . . . Assayers and Engineers

800-812 Pearl Street Phone 1345-J Boulder, Colorado

September 13, 1955

DETERMINATIONS MADE FOR: Joe Walter

Golden Queen 6.52% WO_3

RECEIVED
JAN 23 1956

CHARGES: HILL & JUDE

CERTIFICATE OF ANALYSIS

HILL & JUDE

. . . . . Assayers and Engineers

800-812 Pearl Street Phone 1345-J Boulder, Colorado

September 20, 1955

DETERMINATIONS MADE FOR: Joe Walter

Wah Chang Corp. No. 641 6.25% WO_3

CHARGES: HILL & JUDE

CERTIFICATE OF ANALYSIS

HILL & JUDE

. . . . . Assayers and Engineers

800-812 Pearl Street Phone 1345-J Boulder, Colorado

September 20, 1955

DETERMINATIONS MADE FOR: Joe Walter

Golden Queen 6.265 WO_3

CHARGES: HILL & JUDE

CERTIFICATE OF ANALYSIS

HILL & JUDE

. . . . . Assayers and Engineers

800-812 Pearl Street Phone 1345-J Boulder, Colorado

September 22, 1953

DETERMINATIONS MADE FOR: Joe Walter

Golden Queen Mine
Sample by Tungsten Ref. Inc.

6.32% WO_3

CHARGES:

HILL & JUDE

CERTIFICATE OF ASSAY

HILL & JUDE

. . . . . Assayers and Engineers

800-812 Pearl Street | Phone 1345-J | Boulder, Colorado

October 26, 1955

DETERMINATIONS MADE FOR: Joe Walter

DESCRIPTION	OUNCES PER TON GOLD	OUNCES PER TON SILVER	VALUE PER TON GOLD @	VALUE PER TON SILVER @	UO_3 PER CENT	PER CENT	PER CENT
Wah Chang Corp. No. P. O. 177	0.07				1.183		

CHARGES:

HILL & JUDE

THE SALT LAKE TUNGSTEN COMPANY
2160 INDIANA AVENUE TELEPHONE 4-0532 P. O. BOX 2572
SALT LAKE CITY 10, UTAH

October 19, 1955

Gold Queen Mines
P. O. Box 144
Ward, Colorado

Dear Sir: Attention Mr. Joe Walter

In regard to the WO_3 bearing ore which you left here to be tested, our laboratory submits the following report:

Sample No. 1	Lo Grade	.76% WO_3
Sample No. 2	Hi Grade	5.90% WO_3

As per your assays, Sample No. 1 contains 2.00 ounces per ton gold and Sample No. 2 contains .50 ounces per ton gold.

Upon blending these two samples to obtain a concentration of WO_3 at 4.12%, we find the ore to be 75% amenable to this process. The tailings from this treatment contain .35 ounces per ton gold and .20 ounces per ton silver. This does not agree with your analysis, however. Based on our gold assay, the value is as follows:

Gross value of tailings delivered at American Smelting & Refining Company

Gold	$11.00 per ton	
Silver	nil value	minimum at 1.00 ounce per ton

Charges:

Smelting charge at A. S. & R.	$6.75 per ton
Hauling and handling	1.50 per ton
Total	$8.25 per ton

This leaves a net of $2.75 per ton which is profitable with respect to gold contained. Other values, if present, were not determined. Mr. Edwards at American Smelting and Refining Company informs us that at present they are not interested in low value ore which contains little sulphide or silica.

As was the original contention, it is evident that the more advantageous metallurgy for recovery of the gold lies in the direction of a prior flotation circuit, more probably a bulk sulphide float in your case.

With respect to values of WO_3 contained, you will find a schedule of our charges accompanying this letter.

Yours very truly,

THE SALT LAKE TUNGSTEN COMPANY

B. T. BURWELL
Superintendent

Enclosures 2
RLJ/bjh
cc: R. L. Jensen

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JAN 23 1956

WAH CHANG CORPORATION

MARION MILL
BOULDER, COLORADO

HEAD OFFICE
233 BROADWAY
NEW YORK, N. Y.

Tungsten Ore and Concentrates
Purchase Order and Settlement

Seller:
Name Joseph Walter
Address Ward, Colorado

Date October 28, 1955

P.O. № 177

Mill Lot No. _____ Seller's Lot No. 1

Containers _____ Type Material Tungsten Ore

Analysis

WO3	1.17%
Sn	
Cu	
As	
Sb	
Bi	
Mo	
P	
S	
Mn	
Pb	
Zn	

Gross Weight	
Tare	
Net Weight	5575.0
H20% 2%	111.5
Net Dry Weight	5463.5
WO3 Assay	1.17%
Pounds WO3	63.92
STU WO3	3.10 3.19
Price Per STU	$23.68
Gross Value	$75.54
Less Penalties	

Material Value		$ 75.54
Deductions:		
Assay fee	$ 6.00	
Net Value		$ 69.54

Certificate:
We/I hereby certify that the ore and/or concentrate identified above and hereby sold, was produced from the Golden Queen Mine, located at Boulder, Colorado and that we/I have full authority to remove and sell the same and that said ore and/or concentrate is not encumbered by any lien or attachment and that payment in full is hereby acknowledged.

Jos H Walter
Seller

By _____

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JAN 23 1956

CONTROL DETERMINATIONS A SPECIALTY

CHARLES G. BYNUM ASSAY OFFICE

839 PEARL STREET BOULDER, COLORADO

PHONE 2234-W

CERTIFICATE OF ASSAY

DATE March 26, 1941 194

THE SAMPLE OF Copper Teal FROM

AND SUBMITTED TO ME FOR ASSAY CONTAINS:

LAB. NO.	OWNER'S MARK	OZS. PER TON 2000 LBS. GOLD	SILVER	VALUE PER TON GOLD & SILVER	WO 3 %	LEAD % WET	COPPER %	ZINC %	SiO2	CaO	
											S.
3-557				$0.16							3.70%

Gold @ ..... per oz.
Silver @ ..... per oz.
Lead @ ..... c per oz.
Zinc @ ..... c per oz.
Copper @ ..... c per oz.

Charges 2.00
Tax .07
Phone
Total 3.07

CERTIFIED BY Chas. Bynum by M. V. B. ASSAYER

11-8-13

CONTROL DETERMINATIONS A SPECIALTY

CHARLES G. BYNUM ASSAY OFFICE

839 PEARL STREET BOULDER, COLORADO

PHONE 2234-W

CERTIFICATE OF ASSAY

DATE March 29, 1941 194

THE SAMPLE OF Copper Teal FROM

AND SUBMITTED TO ME FOR ASSAY CONTAINS:

LAB. NO.	OWNER'S MARK	OZS. PER TON 2000 LBS. GOLD	SILVER	VALUE PER TON GOLD & SILVER	WO 3 %	LEAD % WET	COPPER %	ZINC %	SiO2	CaO	
3-633	Lot 6 2 nd Grade				32.34		no moisture				

Gold @ ..... per oz.
Silver @ ..... per oz.
Lead @ ..... c per oz.
Zinc @ ..... c per oz.
Copper @ ..... c per oz.

Charges $2.00
Tax .04
Phone
Total 2.04

CERTIFIED BY Chas. Bynum by M. V. B. ASSAYER

11-8-13

George H. Teal
Mining Engineer & Geologist
Boulder, Colorado

April 19; 1941

Settlement Sheet
on
Hubnerite Concentrates

Lot No. 6 Mr. Joe H. Walter

Lab. No.	Gross wt.	$\%H_2O$	Net Wt.	$\%WO_3$	No. Lbs WO_3	Price per lb.	Total
6-557	100	1%	99#	60.16	59.558	$1.00	$ 59.56
6-655	394	1%	390#	32.34	126.12	0.762	96.10
							$ 155.66

Deductions:

Milling Charges
9750# crude ore at $8.00 per ton $39.00
Assays two tungstens $4.00
one sulphur 3.00 7.00 46.00
Total amount due Joe H. Walter - - - - - - - - $109.66
(Check No. 1222)

Mr. Joe H. Walter
Ward, Colo.

Dear Joe:

Sorry there was so much delay in getting this settlement to you. Due to the fact that the material had to go to their California plant, and was billed out from there, settlement could not be made as promptly as on our other material. Asyet, they have not advised me as to the result of their tests but I should hear from them in a few days. If they will take the material in the future I can get settlement for you within two days after we get the assay results. On lots of 1000# or more I can get you $21.50 per unit F.O.B. Boulder, Colo. The above settlement was based on the local market price of $20.00 per unit. I forgot to mention that they will also pay the Sampling and assay charges on lots of 1000# or more.

Yours very truly,

(Signed) George H. Teal.

SETTLEMENT SHEET

BOULDER TUNGSTEN MILLS

Box 35

Boulder, Colorado, August [illegible], 1943

Bought of Jos. H. Alters

Mine Golden Queen
ard, Colorado

Lessee

Lot Nos. 434

Warehouse Receipt Nos.

Lot Numbers	WEIGHT IN POUNDS				WO_3 Assay	Total WO_3 Content	Payment Per Lb.	Gross Payment	DEDUCTION			Net Payment To Shipper
	Gross	Per Cent Moist	Sacks	Net					Sampling	Assaying	Hauling	
434	295	1.5 2½	2½	290	15.45	44.80	1.04	46.59		3.00		43.59

DISTRIBUTION TOTAL

Royalty	% To:	[illegible]	
Royalty	% To:	[illegible]	
Royalty	% To:	Signed [illegible] Producer	
		Date [illegible] By [illegible] Title	
Hauling	To:		
Balance	To:	Joseph H. Alters	43.59

On lots of less than 200 pounds weight, a charge of $5.00 will be made for sampling.

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JAN 23 1956

OFFICIAL BUSINESS
224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

DEN. COLO. 7 P 1 JA 3 1956

Defense Minerals Exploration Administration
U. S. Department of the Interior
Interior Building
Washington 25, D. C.

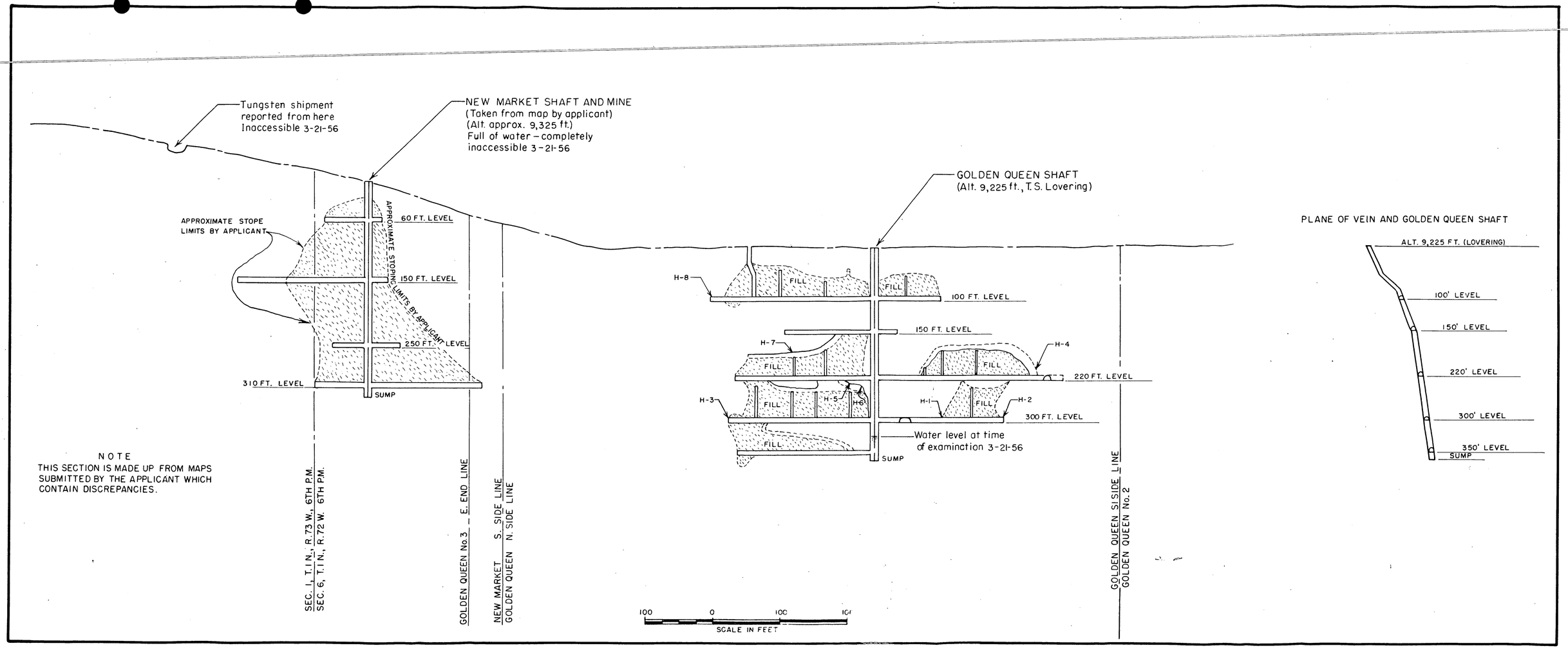


FIGURE 3 – LONGITUDINAL SECTION IN PLANE OF GOLDEN QUEEN VEIN, GOLD AND TUNGSTEN CONSOLIDATED, GOLDEN QUEEN AND NEW MARKET MINES, BOULDER COUNTY, COLO. DMEA 4142

RECEIVED
MAY 2 - 1956

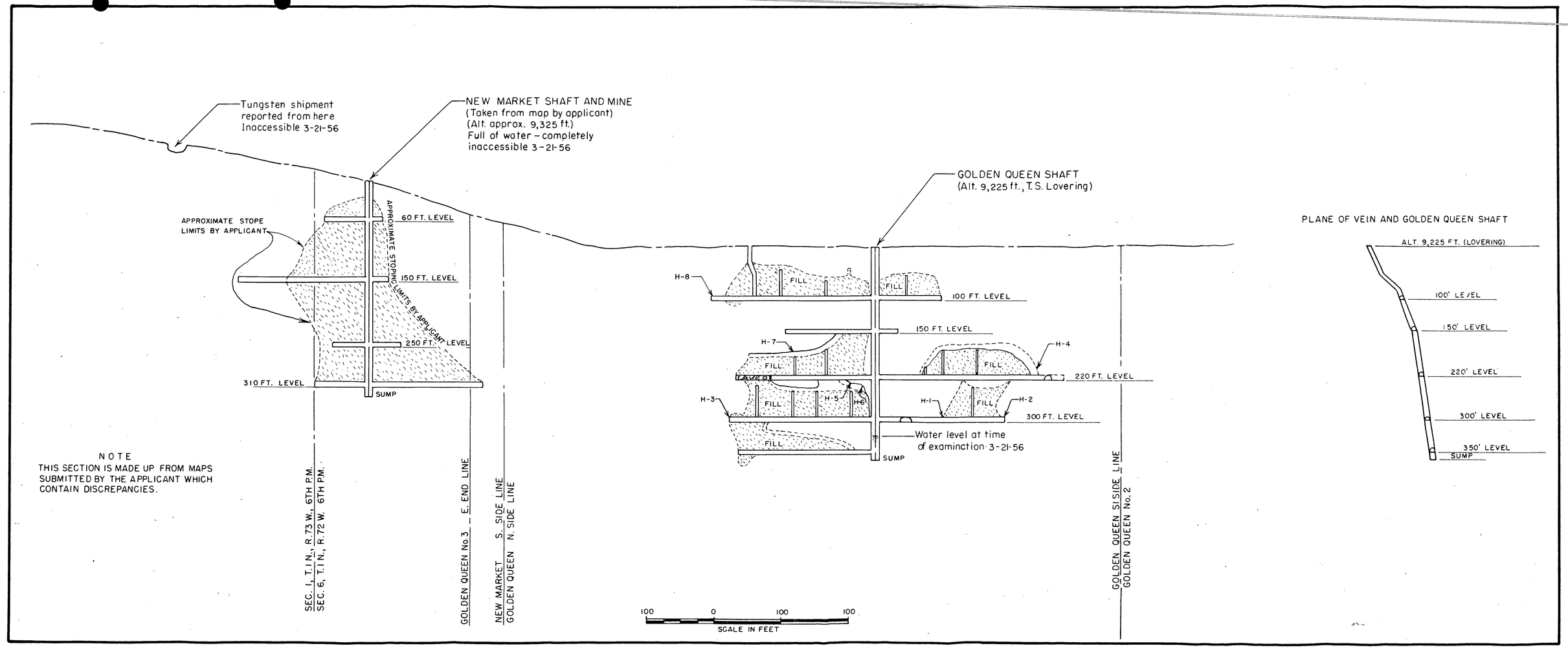
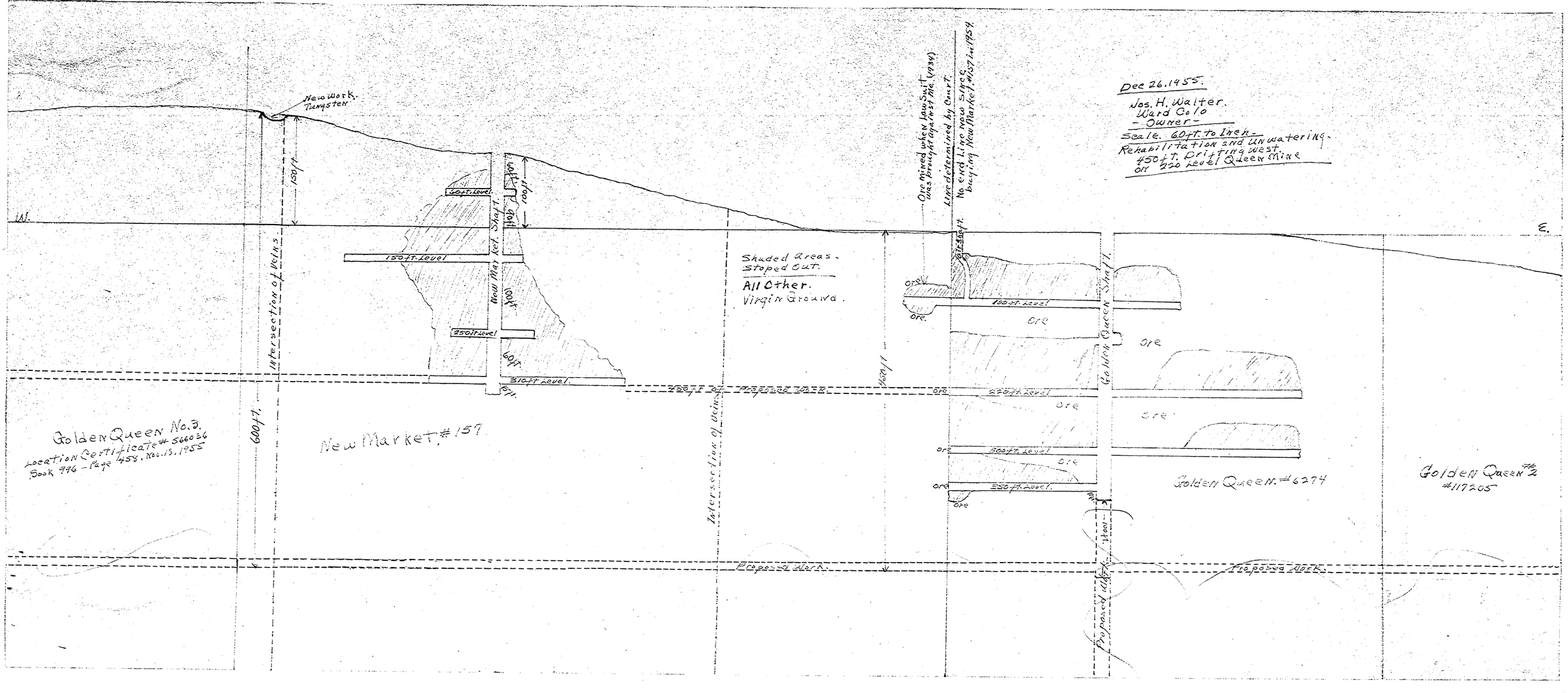
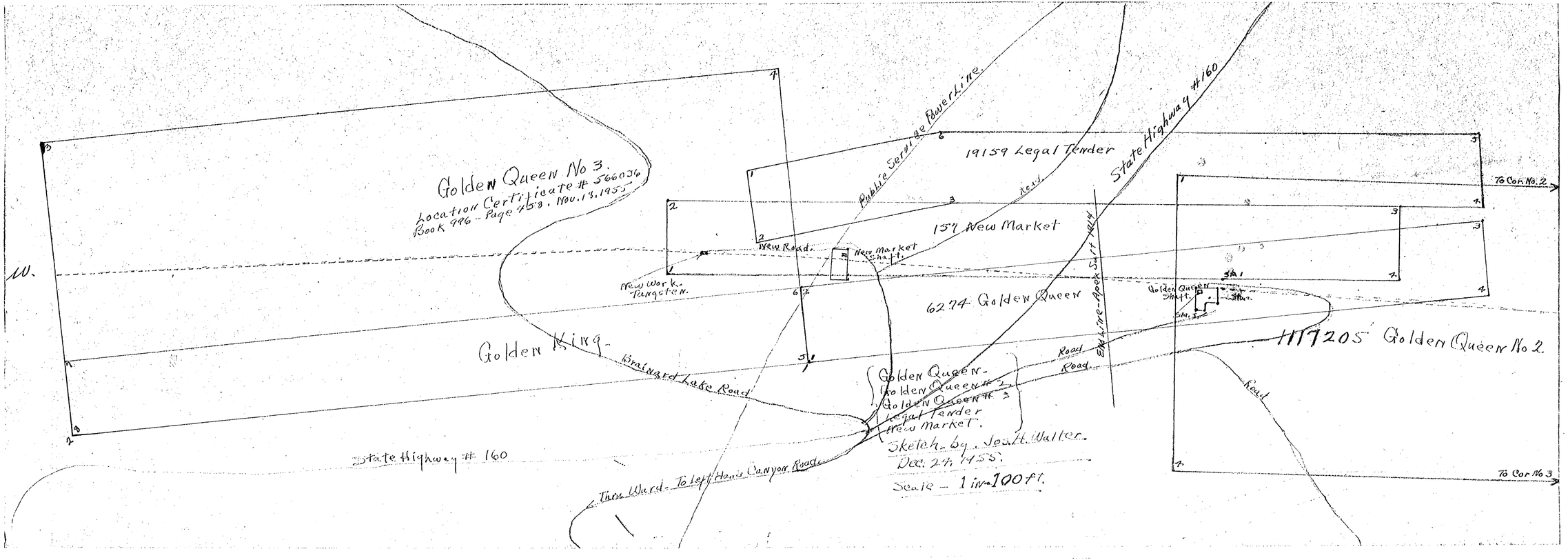
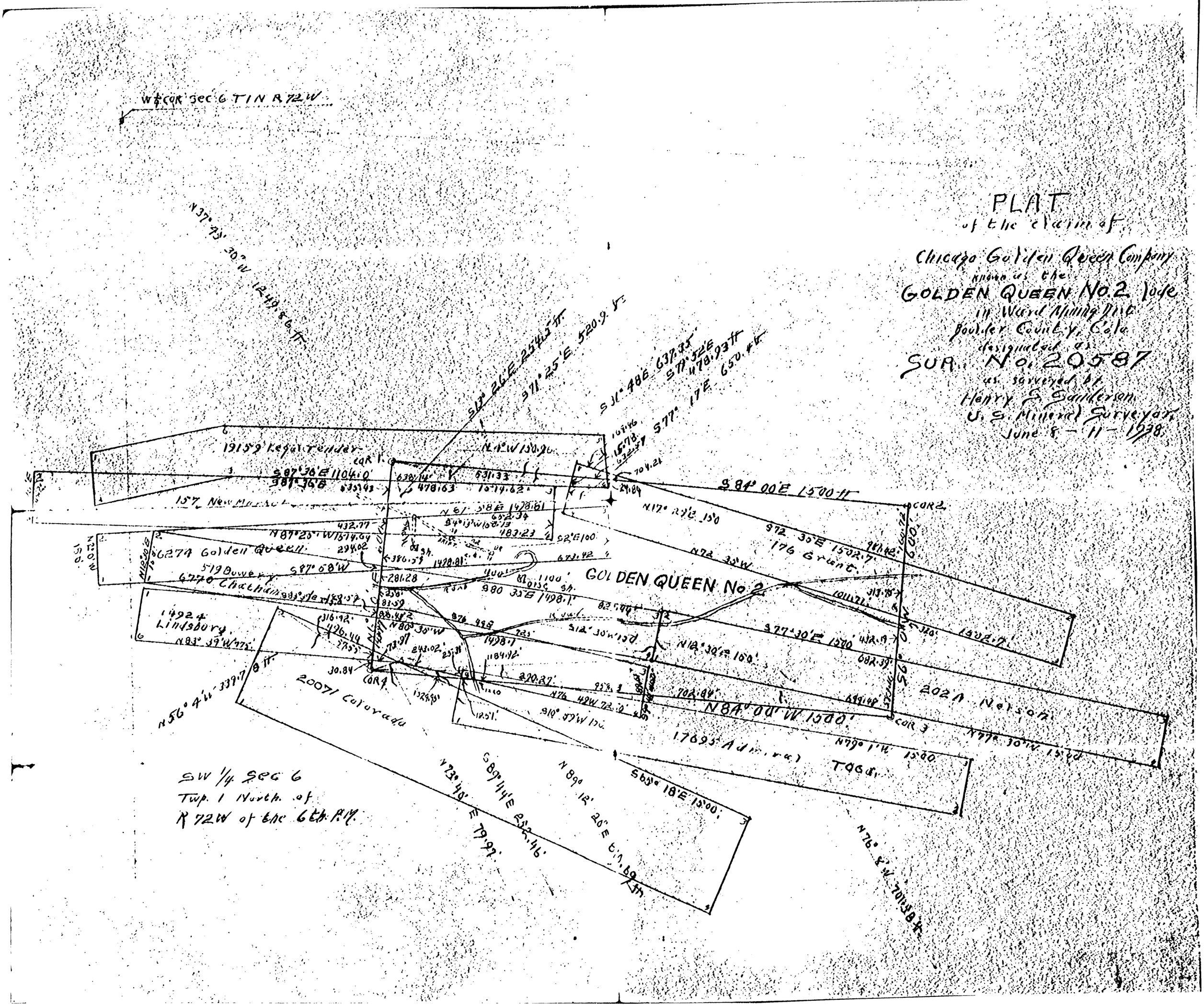


FIGURE 3 – LONGITUDINAL SECTION IN PLANE OF GOLDEN QUEEN VEIN, GOLD AND TUNGSTEN CONSOLIDATED, GOLDEN QUEEN AND NEW MARKET MINES, BOULDER COUNTY, COLO. DMEA 4142

RECEIVED
MAY 2 - 1956


Dec 26.1955.
Jos. H. Walter.
Ward Colo
- Owner -
Scale. 60 ft. to Inch.
Rehabilitation and unwatering.
450 ft. Drifting west.
on 220 level Queen Mine
New Work.
Tungsten
150 ft.
100 ft.
60 ft. level
150 ft. level
250 ft. level
310 ft. level
New Market Shaft
100 ft.
60 ft.
W.
E.
Intersection of Veins.
600 ft.
New Market #157
Golden Queen No. 3.
Location Certificate # 566036
Book 996 - Page 458. Nov. 13. 1955
Shaded Areas - Stoped Out.
All Other.
Virgin Ground.
Intersection of Veins.
Proposed Work.
Ore mined when law suit was brought against the mine (1934)
Line determined by Court.
No end line now since drifting New Market #157 in 1954.
Shaft
Ore
100 ft. level
250 ft. level
300 ft. level
350 ft. level
Golden Queen Shaft
Golden Queen #6274
Golden Queen #2
#117205
Proposed Work.
Proposed Work.
Proposed Shaft
100 ft.


Golden Queen No 3.
Location Certificate # 566036
Book 996 - Page 158. Nov. 13, 1955
Public Service Powerline.
19159 Legal Tender
State Highway #160
To Cor. No. 2
E.
W.
New Road.
New Market Shaft.
157 New Market
New Work. Tungsten.
Golden Queen Shaft.
6274 Golden Queen
Golden King.
Brainard Lake Road
Road
Road.
Road
1117205 Golden Queen No 2.
Golden Queen.
Golden Queen #2
Golden Queen #3
Legal Tender
New Market.
Sketch by Jos. H. Walter.
Dec. 24, 1955.
Scale - 1 in = 100 ft.
State Highway # 160
Thew Ward - To Left Hen's Canyon Road.
To Cor No 3


PLAT
of the claim of
Chicago Golden Queen Company
known as the
GOLDEN QUEEN No. 2 lode
in Ward Mining Dist.
Boulder County, Colo.
designated as
SUR. No. 20587
as surveyed by
Henry S. Sanderson
U. S. Mineral Surveyor
June 8 – 11 – 1938.
W¼ COR SEC 6 T1N R72W
N37° 31' 30" W 1249.86 ft
S12° 26' E 254.3 ft
S71° 25' E 520.9 ft
S31° 48' E 637.35
S77° 52' E 478.93 ft
S77° 17' E 650.4 ft
19159 Legal Tender
COR 1
N4° W 150.20
S87° 36' E 1104.0'
157 New Market
S84° 00' E 1500 ft
COR 2
N17° 29' E 150
S72° 35' E 1502.7
176 Grant
N72° 35' W
6274 Golden Queen
519 Bowery
6770 Chatham
S87° 58' W
GOLDEN QUEEN No 2
S80° 35' E 1498.1'
4924 Lindsbury
N83° 39' W 775'
S12° 30' W 150'
S77° 30' E 1500
N12° 30' E 150'
1502.7'
202 A Nelson
N77° 30' W 1500
N84° 00' W 1500'
COR 3
N79° 1' W 1500
17695 Admiral
TAGS
20071 Colorado
COR 4
N56° 4' 11" 339.7 ft
S19° 39' W 150
S89° 44' E 232.46'
N 89° 12' 20" E 611.69 ft
S89° 18' E 1500'
N76° 8' W 701.38 ft
S 73° 49' E 79.97'
SW 1/4 SEC 6
Twp. 1 North of
R 72W of the 6th P.M.

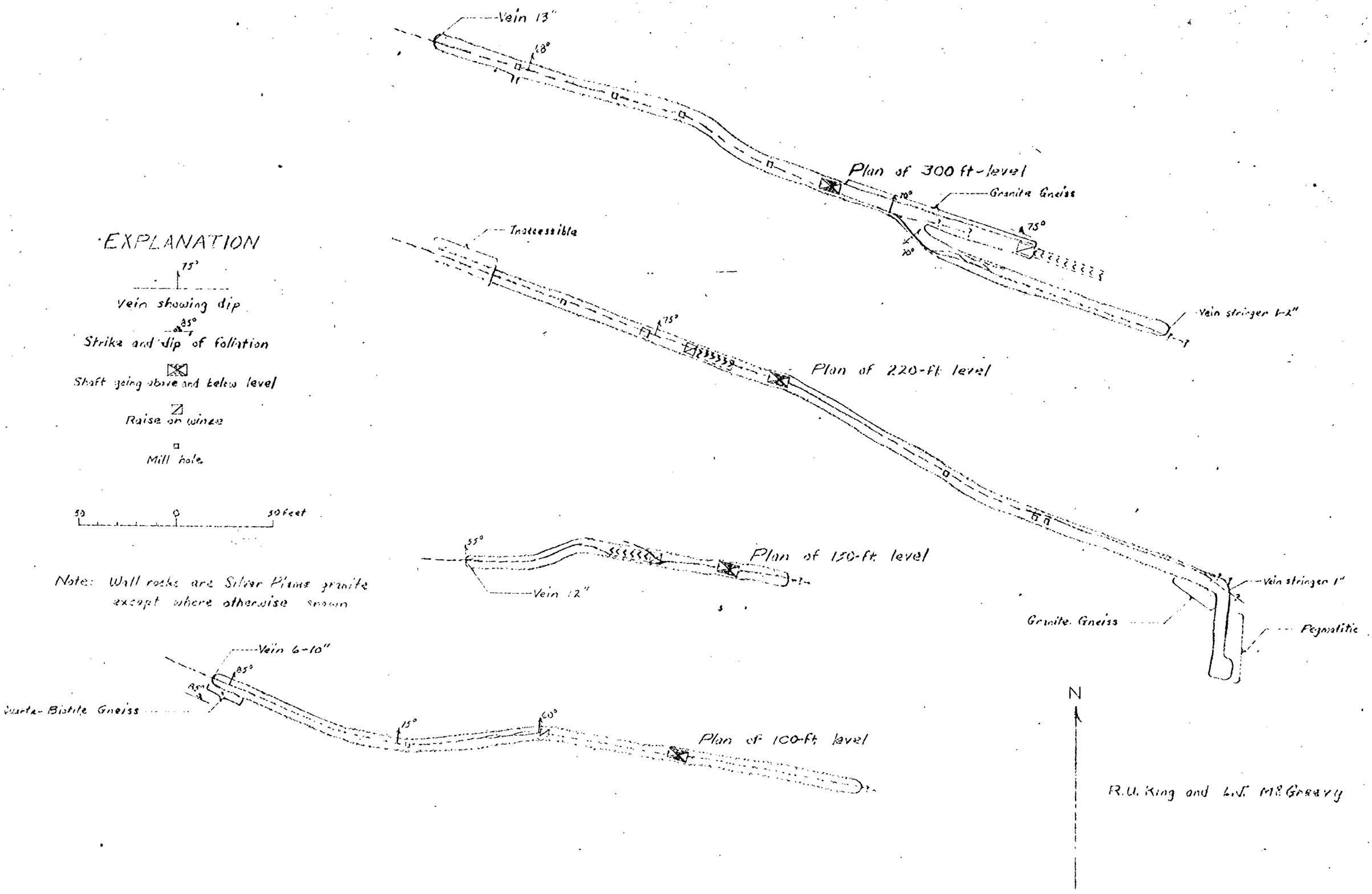


FIG. 4 – PLAN OF GOLDEN QUEEN MINE
BOULDER COUNTY, COLORADO

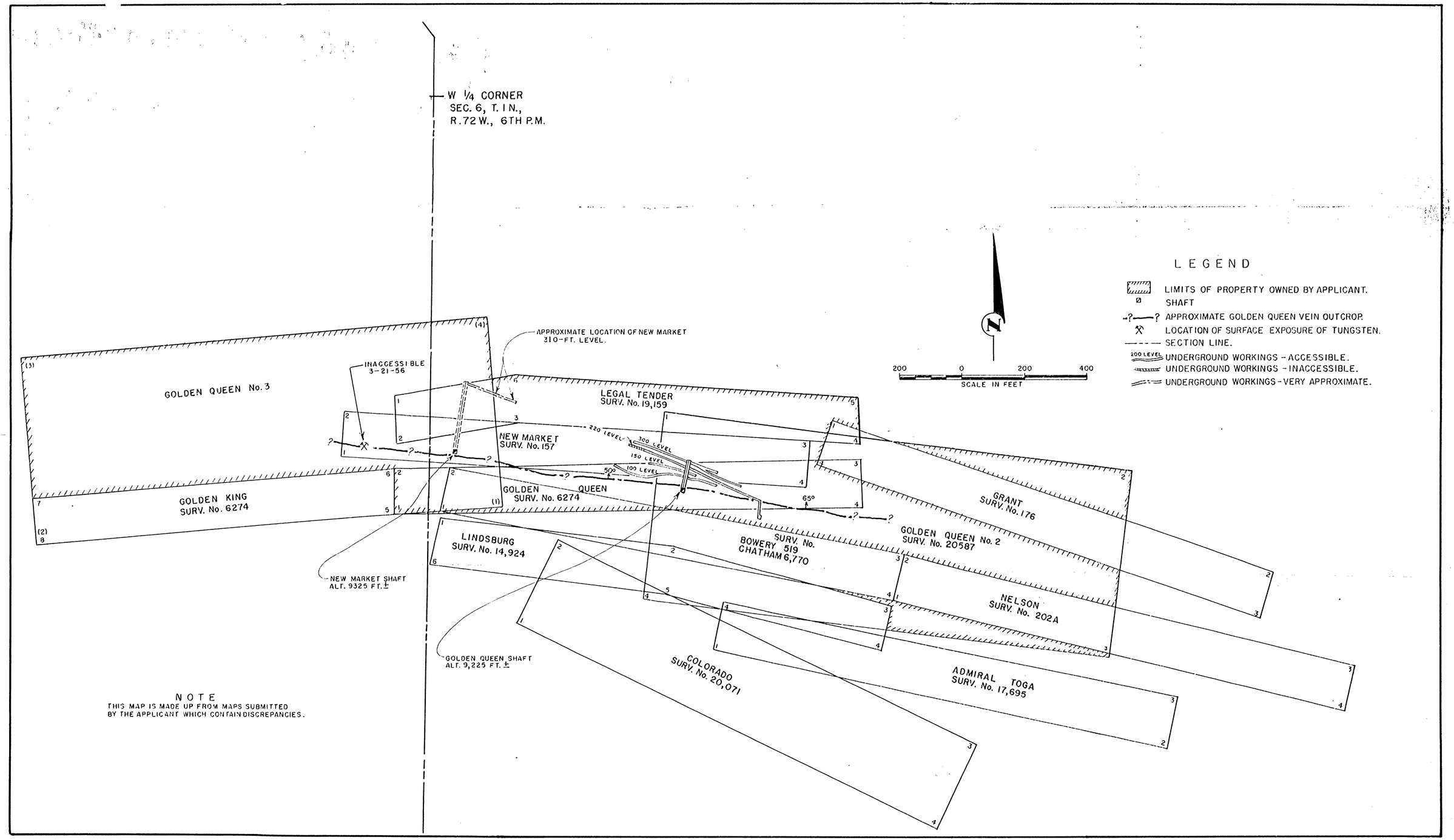


FIGURE 2 - CLAIM AND EXPLORATION MAP, GOLD AND TUNGSTEN CONSOLIDATED, GOLDEN QUEEN MINE, BOULDER COUNTY, COLO. DMEA 4142