UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

December 13, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 2058, Hallie A. Tungsten Mine, Boulder County, Colorado, applicant, Morris G. Mitts, 2511 Court Streek, Pekin, Illinois

Work proposals in the application of the subject docket consisted of drifting 50 feet ahead in the lower tunnel to locate the Hallie A. vein, and an unspecified amount of core drilling from the surface to explore for, or delineate ore shoots ahead of the tunnel, at an estimated cost of $8,000.

The examining team submitted an alternate proposal as being more practical, which consisted of sinking a shaft on the slope of the vein a distance of 85 feet, and drifting on the vein to the extent of 100 feet, at an estimated cost of $11,500.

The applicant and owner resides in Illinois and was not available for consultation concerning the alternate program. However, Mr. Ray Flarty, designated on the application as manager, was consulted and he intimated that the applicant would be agreeable to the change.

We concur with the examining teams recommendation for approval of the alternate proposal in the amount of $11,500. Government participation would be 75 percent, or $8625.00.

Paul T. Allsman

Paul T. Allsman

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

200 New Customhouse
Denver 2, Colorado

November 27, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 2058, Hallie A. Tungsten Mine, Boulder County, Colorado, Norris G. Mitts, Applicant

Attached are 8 copies of the geologic report by Ogden Tweto covering the subject docket.

The outcrop of the vein is covered by talus and the main tunnel is caved, making an effective study of this property impossible. However, from reports of operators in the district and his general knowledge of the district, Tweto concludes that the Hallie A. tungsten mine, which produced ore during World War I and in the Twenties, warrants further exploration.

The exploration program proposed by the applicant--to drill through the talus and the driving ahead of the lower tunnel--is not considered the most practical. Instead, it is suggested that a shaft be sunk on the vein to a depth of 85 feet and that 100 feet of drifting be done on the vein at this level, at a total cost of $11,500.

I concur with this recommendation.

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

Enclosures (24)
including:
Geologic Report (8)
Map of Figure 1 (8)
Map of Figure 2 (8)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
December 5, 1951

Mining Division
Date Rec'd.
DEC - 6 1951
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Chief, Mining Division, Region IV

From: Scott W. Hazen, Jr., for
Chief, Colorado Branch, Mining Division

Subject: DMA 2058, Hallie A Tungsten Mine, Boulder County, Colorado

Please find enclosed the original and seven copies of the "Engineering Report" by F. D. Everett on the subject docket.

Due to inaccessibility of the mine workings, field examination could not prove the existence of tungsten mineralization, but Everett concludes that there is sufficient reliable information to indicate that there is a reasonable chance of finding tungsten ore in the Hallie A mine. The owner and applicant resides in Illinois and was not available for consultation concerning the proposals. The proposal as submitted by the applicant does not appear to be completely feasible from the standpoint of developing the greatest amount of ore. Accordingly, an alternate proposal is recommended with an increase of cost from the original $8,000.00 estimated to $11,500.00. This alternate recommendation was discussed with the Boulder resident whom the applicant has designated as the manager for the mine. The applicant has indicated in his application that he is financially able and willing to participate in the program and it is assumed that the alternate method proposed will meet with his approval.

I concur in the recommendations for approval of the alternate proposal costing $11,500.00, with the Government participation of 75 percent amounting to $8,625.00.

The application, form MF-103, furnished by the Field Team, Region IV, is returned herewith.

Scott W. Hazen Jr.
Scott W. Hazen, Jr., for
W. M. Traver, Jr.

enclosures

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-2058, Hallie A Tungsten Mine

Boulder County, Colorado

Tungsten

O. Tweto, Geologist
U. S. Geological Survey

F. D. Everett, Mining Engineer
Bureau of Mines

December 4, 1951

HALLIN A. TUNGSTEN MINE

BOULDER COUNTY, COLORADO

MORRIS G. MITTS, APPLICANT

DMA DOCKET 2088

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Ogden Tweto, U. S. G. S.
and
F. D. Everett, U. S. B. M.

DMA DOCKET 2056
HALLIE A. TUNGSTEN MINE
BOULDER COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS
By Ogden Tweto and F. D. Everett

The Hallie A. tungsten mine comprises two short tunnels on a small ferberite vein three miles north of the main tungsten district of Boulder County, Colorado. The main tunnel is caved, and the vein above it is covered by talus. There is some doubt that a small barren vein cut in the lower tunnel is the main vein. The Hallie A. vein was stoped for a length of 100 feet in the main tunnel and up to the base of the talus. Ore is present in the floor of the tunnel according to reports. The applicant has requested an Exploration Loan of $8,000 to drive the lower tunnel 50 feet and do an unspecified amount of core drilling. The mine warrants further exploration, but the applicant's program does not seem the most efficient approach. The lower tunnel is only 30 feet below the main tunnel, and it would have to be driven 170 feet, not 50 feet, to get beneath the ore shoot. The topography and the dip of the vein are both adverse to core drilling from the surface.

The mine can best be explored at greater depth by sinking an 85-foot shaft, which allows for a 10-foot sump, and doing 100 feet of drifting. Such a shaft and drift(s) are estimated to cost $11,500.

It is recommended that an Exploration Loan of $11,900 (Government participation 75%, or $8,625) be granted to sink the 85-foot shaft and do 100 feet of drifting.

MALLIE A. TUNGSTEN MINE

BOULDER COUNTY, COLORADO

MORRIS G. MITTS, APPLICANT

EMA DOCKET 2038

Geologic Report

Ogden Tweto
U. S. Geological Survey
Denver, Colorado

HALLIE A. TUNGSTEN MINE
BOULDER COUNTY, COLORADO

INTRODUCTION

The Hallie A. tungsten mine is in a gulch west of the Nederland-Ward road about three miles north of the main tungsten district of Boulder County, Colorado. It is reached by driving northward about half a mile down the old railroad grade from the Ward road to Glacier Lake, and then turning sharply southward down the gulch to a point almost due west of Glacier Lake (Figure 1). The road distance to Nederland is about 7½ miles.

The mine comprises two short tunnels, the main one of which is caved at the portal. This tunnel is sketched roughly in Figure 2 from data supplied by Mr. Ray Flarty, lessee of the mine in 1945. The lower tunnel, about 30 feet below the main tunnel, and 80 feet to the south, is a new one only about 40 feet long.

Mr. Morris G. Mitts, 2511 Court Street, Pekin, Illinois, the owner, has made application for an Exploration Loan of $8,000 (Government participation 75%, or $6,000) to drive the lower tunnel ahead 50 feet, and to do an unspecified amount of core drilling.

GEOLOGY

The Hallie A. mine is on a small outlying ferberite vein about 3 miles north of the nearest productive tungsten mine of the Boulder district. The country rock is granite that contains fairly numerous streaks of schist and gneiss in bodies from a few inches to a hundred

feet or more wide. The vein cannot be seen anywhere except in the lower tunnel, and there is some doubt that the vein exposed there is the main vein. The vein is inaccessible in the main tunnel, and it comes to the surface at the base of a high granite cliff where it is completely covered by very coarse talus (blocks up to 10 feet across). Not even the strike of the vein is known with certainty, although the strike shown in Figure 2, based on Mr. Flarty's description, is probably correct within 8° or 10°. The dip shown (70° E.) is an approximation based on Mr. Flarty's recollection. The vein exposed at the end of the lower tunnel is in about the right position to be the Hallie A. vein, but it could be a minor vein in the footwall of the main vein. It is a small vein consisting of 3 or 4 inches of soft, gougy gneiss and ½ to 1 inch of gray horn quartz lying parallel to the structure of the enclosing gneiss.

The mine was worked during World War I and again in the twenties, but record of the production is not available. In 1944-45, Mr. Flarty produced 74 tons averaging 1.16% WO_3, or 88 units WO_3, from the edges of the old stope. According to Mr. Flarty, the ore shoot extended for 100 feet along the vein, and was stoped from the tunnel level up to the base of the coarse talus at the surface. A shallow winze was sunk in ore, and the applicant states that 2-percent ore is present in the floor of the tunnel, without stating for what width.

CONCLUSIONS

Exploration at greater depth is clearly warranted, as the ore shoot was stoped down to the tunnel level and ore is said to be present in the floor of the tunnel, but the program proposed by the applicant is not

the most efficient way to go about such exploration. Core drilling is not advisable because, as the vein dips into the hill, the holes would have to be 45° or flatter (See Section, Figure 2), and such flat holes, starting in coarse talus, would be difficult and costly, and possibly inconclusive. Driving the lower tunnel ahead beneath the main tunnel is hardly warranted because the vertical distance between the two tunnels is so small. The lower tunnel is at the level of the gulch bottom, so a tunnel at lower altitude cannot be driven.

The most economic approach is to sink a shaft on the vein. A site for the shaft at a point due east of the portal of the main tunnel (See Figure 2) could probably be cleared with a heavy bulldozer at a cost of 4 or 5 hundred dollars. A shaft 75 feet deep (plus 10 feet for a sump, or a total of 85 feet) should be adequate at this time, and 100 feet of drifting would have to be done. The direction of such drifting cannot be specified with finality until the shaft is down and the pitch of the ore shoot is determined. It is certain that a drift will have to be driven northward, but if the ore shoot is found to pitch southward, some drifting should be done in that direction also.

Costs of such a project are considered in the accompanying engineering report, where they are estimated at $11,500.

RECOMMENDATIONS

It is recommended that an Exploration Loan of $11,500 (Government participation 75%, or $8,625) be granted to sink an 85-foot shaft on the Hallie A. vein and do 100 feet of drifting, as illustrated in Figure 2.

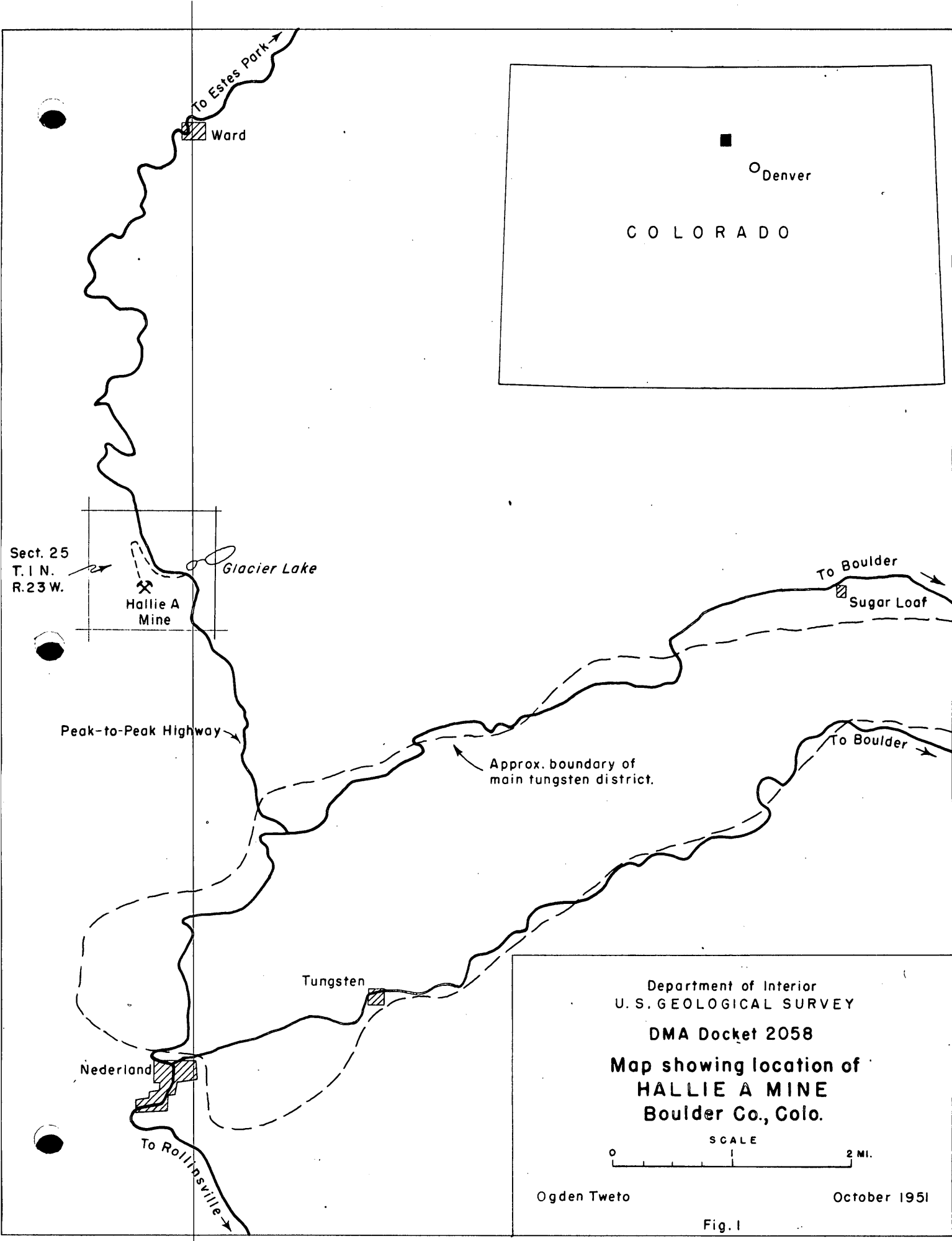
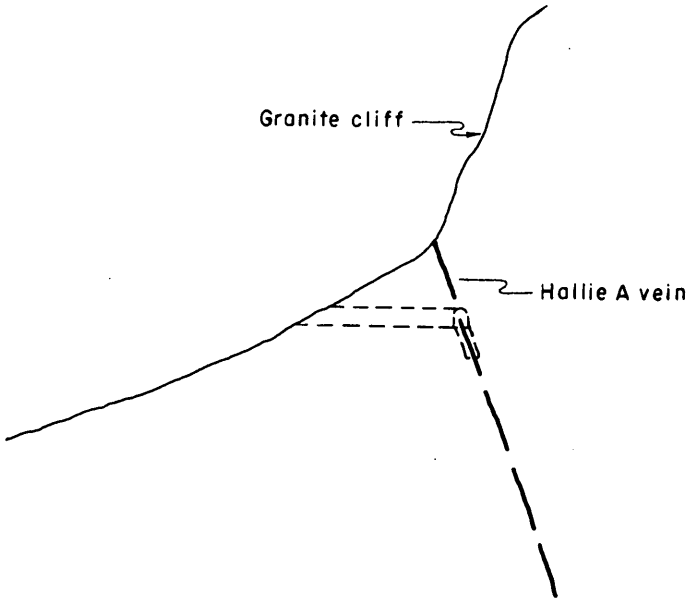
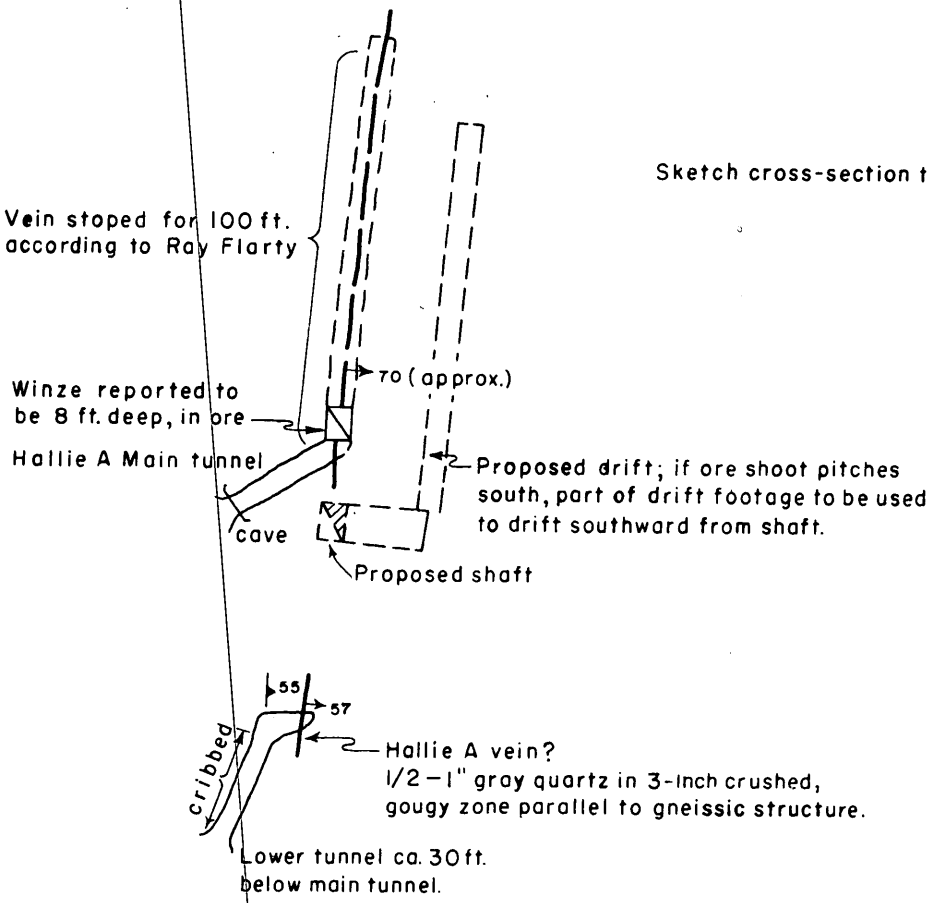

To Estes Park
Ward
Denver
COLORADO
Sect. 25
T. 1 N.
R. 23 W.
Glacier Lake
Hallie A
Mine
To Boulder
Sugar Loaf
Peak-to-Peak Highway
Approx. boundary of
main tungsten district.
To Boulder
Tungsten
Nederland
To Rollinsville
Department of Interior
U. S. GEOLOGICAL SURVEY
DMA Docket 2058
Map showing location of
HALLIE A MINE
Boulder Co., Colo.
SCALE
0
1
2 MI.
Ogden Tweto
October 1951

Fig. 1



Sketch cross-section through winze



Caved workings reconstructed
from data supplied by Ray Flarty,
lessee in 1945.

Department of Interior
U.S. GEOLOGICAL SURVEY

DMA Docket 2058

Sketch Map of
HALLIE A MINE
Boulder Co., Colo.

SCALE
0 50 100 FT.

Ogden Tweto

October 1951

Fig. 2

HALLIE A TUNGSTEN MINE
BOULDER COUNTY, COLORADO

Engineering Report

By F. D. Everett
Mining Engineer
Bureau of Mines

HALLIE A TUNGSTEN MINE
BOULDER COUNTY, COLORADO

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HALLIE A TUNGSTEN MINE
BOULDER COUNTY, COLORADO

ENGINEERING REPORT

By

F. D. Everett

INTRODUCTION

Norris G. Mitts, 2511 Court Street, Pekin, Ill., has applied for an exploration loan for a project at the Hallie A tungsten mine, 7 1/2 miles north of Nederland, Colo., costing $8,000.00 (Government participation 75 percent, or $6,000.00) to drive 50 feet of tunnel and to do core drilling.

The project is based on a report that 2 percent tungsten occurred in a drift, now inaccessible, and that the mine produced during and after World War I and again during World War II.

The applicant intends to hire Ray Flarty, of Nederland, a former lessee, to manage the project.

ACKNOWLEDGMENTS

Ray Flarty gave freely of information on the property, although he is not presently associated with the owner.

A 1941 strategic minerals report by James E. Bell, mining engineer, Bureau of Mines, proved very helpful.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Hallie A mine is 7 1/2 miles north of Nederland, Boulder County, Colo., in sec. 25, T. 1 N., R. 73 W., 6th P. M. (fig. 1). The property is reached by branching to the west from State Highway 160 between Nederland and Ward just north of the road to Glacier Lake and traveling

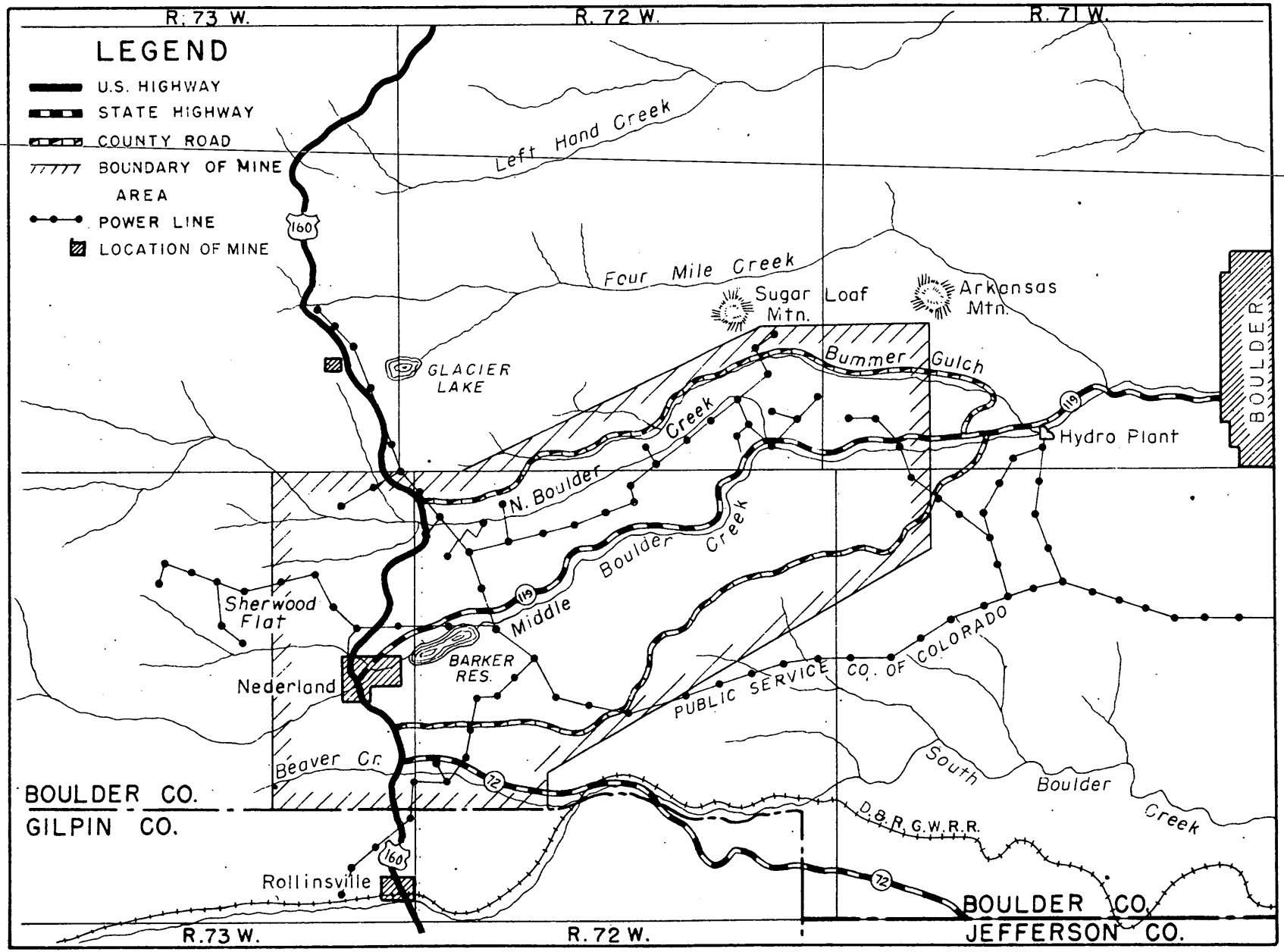


FIG. 1-LOCATION MAP, HALLIE A MINE, BOULDER COUNTY, COLORADO, D.M.A.-2058

an old railroad right of way for about one-half mile, turning sharply to the left, and continuing for about one-half mile to the mine.

The altitude at the mine is about 9,000 feet. The road between Nederland and Ward was not open for travel during the winter 1950-51.

The topography in the general area consists of rounded mountain summits sloping into narrow valleys. The Hallie mine is in a gradually sloping creek gully having 10-to 40-foot granite cliffs with coarse talus piles on the east side. A small stream flows in the gully.

HISTORY AND PRODUCTION

The ground was first filed upon during World War I; it was worked for tungsten to a small extent during the war and then abandoned.

In 1936 the property was relocated by W. H. Crane, with N. G. Mitts acquiring an interest a short time later. During 1939 and the early part of 1940, the main drift was extended from 30 feet to 90 feet. About 45 tons of ore were shipped which are reported to have averaged 1.75 percent WO_3. In 1944-45 Ray Flarty leased the property and shipped 74 tons averaging 1.16 percent WO_3 from the edges of the old stope. The drift was extended to about 200 feet. In 1945 the lower tunnel was started 70 feet south and 30 feet vertically lower than the main workings. This tunnel is 40 feet long; the last 8 feet were driven to the vein during July 1951.

OWNERSHIP AND EXTENT

The property comprises one patented claim and three located claims owned by Norris G. Mitts, 2511 Court Street, Pekin, Ill.

The claims are: Hallie A, Hallie A No. 1, Hallie A No. 2, and June Rose (Patent Survey No. 18921).

Mitts indicated in the application that he is the owner. Ray Flarty, former lessee of the property, believes that a Mrs. W. H. Crane also owns an interest. Her address is unknown.

DESCRIPTION OF THE DEPOSITS

A strong vein in granite country rock contains quartz, crushed gneiss, and soft gouge. The only place the vein is exposed is in the lower tunnel.

A report by James E. Bell in 1941 1/ describes the vein in the main tunnel as follows:

> "One vein is known on the property. It is a true fissure vein with strong walls showing fault striations and slickensides; the vein-filling is composed of some quartz, along with gouge and crushed rock. The strike is almost N.-S. and the dip is 85° E.; the vein width varies from 1 1/2 feet to 4 feet with an average of about 2 1/2 feet. The chief tungsten mineral present is ferberite, which occurs disseminated through the vein-matter, and as a coating on the larger fragments.
>
> "Development consists of a short cross-cut tunnel and about 90 feet of drift. The vein is stoped up some 20 feet over a horizontal distance of 25 feet.
>
> "Three samples were taken in the drift, the locations of which are shown on the sketch map. Details regarding them are as follows:
>
> "No. 124. Width 4 feet; gouge and crushed vein-matter with little quartz.
> Assay: WO_3 - 0.27 percent.
>
> "No. 123. Width 1 1/2 feet; gouge and crushed vein-matter.
> Assay: WO_3 - 0.81 percent.
>
> "No. 124-A. Width 2 feet; gouge and crushed vein-matter with a little quartz.
> Assay: WO_3 - 2.82 percent."

1/ Bell, James E., N. G. Mitts Tungsten Prospect No. 2, near Nederland, Colo.: U. S. Bureau of Mines, unpublished, Strategic Mineral Examination Report 7031, January 15, 1941.

ORE RESERVES

The Bell report of 1941 states:

> "With the present exposures, a length of ore shoot of 150 feet seems fairly well assured. Taking the average width as 2 1/2 feet, this would amount to some 3,000 tons per 100 feet of depth. From the data given by the samples and ore shipments, the material might average 1.00 percent WO_3."

According to Ray Flarty, the ore shoot was mined for 100 feet of length which would infer about 2,000 tons of ore per 100 feet of depth.

PRESENT STATUS

Exploration and Development

The workings at the Wallie A mine consist of a main tunnel, caved at the portal, extending along the vein for about 100 feet. A winze 8 feet deep was sunk on the vein as shown on figure 2. The winze, reportedly, has good ore in the bottom.

A tunnel was driven to the vein 70 feet south of the main tunnel and 30 feet vertically lower. The vein showed no tungsten ore in this tunnel.

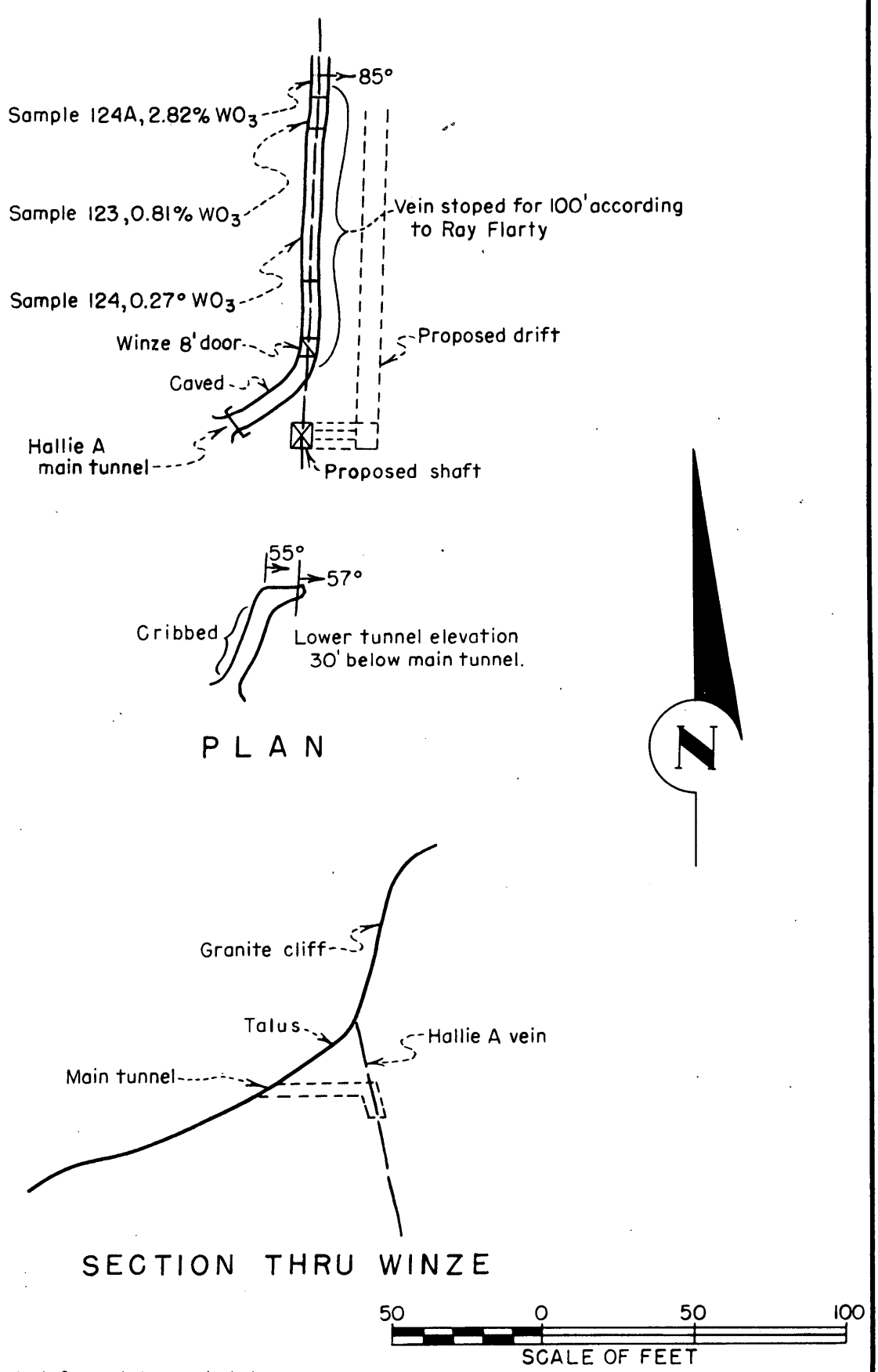
Mining and Milling Equipment

The applicant has no mining or milling equipment. Milling facilities exist in Nederland or Sugar Loaf, a few miles away.

PROJECT PROPOSALS, WITH COSTS

Exploration and Development

The applicant proposed driving the lower tunnel 50 feet on the vein to the projected ore shoot and doing an unspecified amount of diamond drilling. The cost of the program was estimated at $8,000.00.



NOTE: Constructed from data on sketch maps by Ogden Tweto, Oct. 1951 and James Bell Jan. 1941. Samples taken by Bell.

COLORADO BRANCH - MINING DIVISION - REGION IV

BUREAU OF MINES

FIG. 2 - PRESENT & PROPOSED WORKINGS OF HALLIE A MINE, BOULDER CO., COLO., D.M.A.-2058

The drifting portion of this program is feasible, but it appears more advisable to sink a shaft 85 feet and drift 100 feet on the vein to obtain greater stoping depth. Diamond drilling is not advisable.

The cost of sinking an 85-foot shaft, which allows sump room of 10 feet, would be about $70.00 a foot, or $5,950.00. Drifting costs are estimated at $32.00 a foot, or $3,200.00 for 100 feet. The cost of preparing the site for starting the shaft, based on the use of the largest bulldozer available (a Caterpillar D-8 or equivalent) for at least four days at $15.00 per hour, is about $500.00. Labor, drilling, and blasting costs are estimated at $500.00, or a total of $1,000.00 for clearing the shaft site.

The sinking and drifting costs per foot are estimated as follows:

(1) 85 feet of shaft sinking, 1 1/4 feet of advance per day, 68 days for completion.

(a) Labor

Heistman, $13.20 per day	$ 897.60	
overtime	72.60	
2 - miners, $26.40 per day	1,795.20	
overtime	145.20	
Leadman, $16.00 per day	1,088.00	
overtime	88.00	
Compensation	118.00	$4,204.60
(b) Timber, 17 sets at $20.00, and skidway		500.00
(c) Explosives, electric caps		250.00
(d) Gasoline for compressor		360.00
(e) Steel and bits		200.00
(f) Miscellaneous tools and supplies		435.40
Total		$5,950.00

Cost per foot is estimated at $70.00

(2) 100 feet of drifting, 3 feet of advance per shift, 34 days for completion.

(a) Labor

Hoistman, $13.20 per day	$448.80	
overtime	39.60	
2 - miners, $26.40 per day	897.60	
overtime	79.20	
Leadman, $16.00 per day	544.00	
overtime	48.00	
Compensation	61.95	$2,119.15
(b) Timber		100.00
(c) Explosive		418.00
(d) Gasoline for compressor		200.00
(e) Steel and bits		150.00
(f) Miscellaneous tools and supplies		171.40
Total		$3,158.55

Cost per foot is estimated at $32.00

New Equipment and Facilities

The applicant proposed using used equipment but he is not in Colorado and can not be questioned about specific items. Mr. Flarty, of Nederland, who was given in the application as the proposed manager, knows nothing of the applicant's plans but he is the custodian of mining equipment that is available to the applicant at a cost of $600.00. This used equipment consists of the following:

(1) Compressor, made over model A motor, delivering 125 cubic feet of air per minute, powered by Buick motor.
(2) Jackhammer, Chicago Pneumatic type, 55 pounds
(3) Air hose and oiler
(4) Water hose
(5) 50 feet of 1-inch pipe line
(6) 1200-pound mine car
(7) 100 feet of 12-pound mine rail
(8) Air receiver
(9) Complete set of drill steel

This equipment, for the type of proposed work, is well worth $600.00. Flarty assured the engineer that the equipment is in usable condition.

A hoist, 2 shaft buckets, hoist sheave wheel, and bucket dolly would have to be rented or purchased. If water is encountered, a bailer will have to be obtained. If available, these items would rent for about $125.00 a month.

New air and water hose, steel, and some track will have to be obtained. These items are to be classified as supplies and are included in the footage estimates.

A small headframe and hoist building will have to be constructed. Material from an old and partly-demolished building at the property might be used in constructing the hoist house. The headframe material and erection cost are estimated at $200.00. A 14- by 20-foot rough building estimated at $2.00 a square foot would cost $500.00.

Transportation

The road to the property is adequate for the exploration work. State Highway 160 between Nederland and Ward is a good dirt road but the snow is not removed in the winter months.

The applicant did not request any funds for transportation of men or supplies.

Ore will be transported in small lots to either Nederland or Sugar Loaf at a cost of about $1.50 a ton.

Manpower

Flarty will probably supervise the project for $2.00 per hour, or $16.00 a day. Working labor, although scarce, can probably be obtained for $1.65 per hour. Three or four men will be needed per shift under the classification of hoistman, miner, and foreman.

Power

Electric power is not available. Gasoline must be transported for use in the compressor and hoist motors.

Water

Water flows in a stream within 150 feet of the proposed shaft.

Time Schedule for Completion

The project should be conducted in the late spring or summer months, after access can be gained to the property.

The time schedule is estimated as follows:

	Days
Assembling equipment	8
Bulldozing shaft site and drilling and blasting boulders	5
Constructing headframe and building	10
Shaft sinking - 1 1/4 feet a day	68
Drifting - 2 1/2 feet a day	34
Total days	123

About six months would be required working on a five-day-a-week, one-shift-a-day basis; or five months at six days a week.

Mining and Milling Methods

An open stope method of mining utilizing stull supports is probably the most applicable. Mining costs will be high--about $18.00 to $20.00 a ton.

Ore will be sold to either the Teal mill, at Sugar Loaf, or the Vanadium Corporation of America mill, at Nederland. Both mills utilize flotation methods. The ore purchase schedule at the former Wolf Tongue mill, which was leased to the Vanadium Corporation of America late in October 1951, started payments at $26.00 a unit for 1 percent WO_3 and $30.00 a unit for 2 percent WO_3 (schedule effective between July and November, 1951).

SUMMARY: COST OF PROJECT

The cost of a modified project at the Hallie A mine is summarized as follows:

Bulldozing and preparing shaft site	$1,000.00
Construction of building and headframe	700.00
Purchase of equipment	600.00
Shaft sinking - 85 feet at $70.00 a foot	5,950.00
Drifting - 100 feet at $30.00 a foot	3,200.00
Miscellaneous	50.00
Total	$11,500.00

This project possibly can yield 1,562 tons of 1 percent WO_3, which, at $26.00 a unit, would net $40,612.00.

The project proposed by the applicant, comprising the driving of the lower tunnel through the ore shoot (150 feet instead of the proposed 50 feet) would cost $5,100.00 and would possibly yield 625 tons of 1 percent WO_3, which, at $26.00 a unit, would net $16,250.00.

The modified project is preferred.

PROPOSED FINANCING

The applicant indicated in the application that he could finance his portion of the project.

CONCLUSIONS

The Nellie A tungsten mine is on a strong vein that reportedly contains tungsten.

A Bureau of Mines report by James E. Bell, dated January 15, 1941, states that an ore sheet extends for 100 feet with an average width of 2 1/2 feet and is estimated to assay at least 1 percent WO_3.

The vein is in granite about four miles north of the main tungsten district.

Climate and road conditions will probably not allow winter work.

A project comprising 85 feet of shaft sinking and 100 feet of drifting is estimated to cost $11,500.00.

RECOMMENDATIONS

A tungsten project at the Nellie A mine, estimated to cost $11,500.00, is recommended for approval. The Government's share will be 75 percent of the cost of the project, or $8,625.00, and the applicant's share will be 25 percent, or $2,875.00.

224 New Customhouse
Denver 2, Colorado

August 7, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 2058 (Tungsten), Hallie "A" Tungsten Mine, Boulder County, Colorado

Enclosed are four copies of the report on DMA-2058.

The application was cancelled at the request of the applicant.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

W.H.K.

Enclosure

HMC:fwo

cc: Subject
Chron

224 New Customhouse
Denver 2, Colorado

August 7, 1952

Mr. Norris G. Mitts
2511 Court Street
Pekin, Illinois

Re: DMEA Docket 2058

Dear Mr. Mitts:

We have cancelled your application for exploration assistance under Docket No. DMEA-2058 as requested in your letter of August 6, 1952.

We will expedite the processing of Mr. Mc Broom's application.

Very truly yours,

W. H. King

W. H. King
Executive Officer
DMEA Field Team, Region IV

JFS:fwo

cc: Traver
Subject
Koschmann (2)
Chron
Actg. Admin. DMEA

PEKIN COMMUNITY HIGH SCHOOL
BUSINESS DEPARTMENT
PEKIN, ILLINOIS

August 4, 1952

Mining Division
Date Rec'd.
AUG 6 - 1952
BUREAU OF MINES
Denver, Colorado

Mr. W. H. King
Defense Minerals Adm.
224 New Customhouse
Denver 2, Colorado

Dear Mr. King:

I have your letter of July 29, 1952 in which you state that you are unable to transfer my application (Docket DMEA 2058) to my lessee, Mr. McBroom. I did not intend that you should, but wanted you to know that the mine was now leased and that Mr. McBroom was going to submit an application.

Please cancel my application.

I could send you a photostat of my lease with Mr. McBroom, but it would be much easier for him to bring you his copy.

I hope that Mr. Core and my attorney, Mr. Holmes will be able to furnish you with the information you need on this mine. Please do your best to expedite Mr. McBroom's application so that he get some of the development work done before bad weather.

Yours very truly,

Norris G. Mitts

Norris G. Mitts

Mining Division
Region IV

July 29, 1952

Memorandum

To: W. M. Traver, Jr.

From: Acting Chief, Mining Division, Region IV

Subject: DMEA 2058, Norris G. Mitts

Enclosed is a copy of a letter dated July 24, 1952 from Norris G. Mitts and a copy of our reply.

W. H. King

W. H. King

Enclosures

JFS:ld

cc: Docket, chron.
Koschmann

224 New Customhouse
Denver 2, Colorado

July 29, 1952

Mr. Morris G. Mitts
Richard J. Olt Real Estate Agency
Pekin, Illinois

Dear Mr. Mitts:

This is in reply to your letter dated July 24, 1952, regarding Docket DMEA 2058. We are unable to transfer your application to Mr. McBroom and would suggest that you cancel your application and have Mr. McBroom submit an application for exploration assistance under his own name. If the application is identical with yours, it can be processed rapidly because it will not require additional field work.

As soon as we receive a photostat of Mr. McBroom's lease or his signed copy, and maps showing the proposed work in relation to the property lines we will be able to further process the application.

Yours very truly,

W. H. King

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

JFS:ld

cc: Docket, chron.
Koschmann
Traver

HOME OWNERSHIP • THE KEY TO HAPPINESS

CITY PROPERTIES
FARM LANDS

PROPERTY MANAGEMENT
APPRAISALS

RICHARD J. OLT
REAL ESTATE AGENCY
PEKIN, ILLINOIS

NORRIS G. MITTS
PHONE 2428-J

RICHARD J. OLT
PHONE 2353

July 24, 1952

Mining Division
Date Rec'd.
JUL 28 1952
BUREAU OF MINES
Denver, Colorado

Mr. W. H. King
Acting Chief, Mining Division
Region IV
Denver 2, Colorado

Dear Mr. King:

I am sorry that I did not receive your letter Re:DMEA Docket 2058 sooner. I found it in the mail upon my return from Colorado. I was in Denver several times and I would have like to have talked with you about exploration assistance on my Hallie A tungsten mine.

Since our last correspondence, the mine has been leased to Mr. James L. McBroom, Box 372 A, Boulder, Colorado. He has spent considerable time and money driving a new tunnel and has found quite a body of tungsten. He wants to develop the mine still further, and asked me about exploration assistance. I turned over to him the papers I had from your office and he intends to make application.

Before leaving Boulder I made arrangements with Mr. Core to survey the property to make an amended location if necessary. I also made arrangements with Mr. Horace B. Holmes, attorney to start patent proceedings on the property. The discovery tunnel is 300 feet from each side line and about 200 feet from the south boundary, leaving about 1300 feet along the vein for development. The vein runs almost due north.

Please expedite the processing of Mr. McBroom's application as it has been over a year since I applied and we both have done everything we possibly could to get this mine in production.

Very truly yours,

Norris G. Mitts

Norris G. Mitts

carbon copy to Mr. McBroom

Mining Division
Region IV

July 10, 1952

Norris C. Mitts
2511 Court St.
Pekin, Illinois

Re: DMEA Docket 2058

Dear Mr. Mitts:

We are unable to process your application for exploration assistance because we cannot locate the boundarylines of your property. If you would arrange for Mr. Flairty or Mr. Core to accompany our engineer to the property, show him claim corners, and prepare a map showing the relation of the proposed work to the property lines, we could complete processing your application.

We have not answered your letter dated February 11, 1952 sooner because the heavy snows have prevented an examination of the surface.

We are anxious to complete processing this application, and would appreciate an early answer.

Very truly yours,

W. H. King

W. H. King
Acting Chief,
Mining Division, Region IV

JFS:oc
cc: WMTraver
JFShaw
Subject
Chron.
Koschmann (2)

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

224 New Customhouse
Denver 2, Colorado

December 13, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration
Attention: Code 210

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 2058, Hallie A. Tungsten Mine, Boulder County, Colorado - Applicant, Morris G. Mitts, 2511 Court Street, Pekin, Illinois

Enclosed herewith in duplicate are Form 3b on the subject docket.

The application has been approved for an exploration loan in the amount of $11,500.

The contract is being prepared in this office and a copy of the final report will be forwarded with your copy of the contract.

J. H. East, Jr.

A. H. Koschmann

cc: WMTraver w/copy of final report
PTAllsman w/copy of final report
AHKoschmann w/copy of final report
DMA Final Report

224 New Customhouse
Denver 2, Colorado

December 13, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration
Attention: Code 210

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 2058, Hallie A. Tungsten Mine, Boulder County, Colorado - Applicant, Morris G. Mitts, 2511 Court Street, Pekin, Illinois

Enclosed herewith in duplicate are Form 3b on the subject docket.

The application has been approved for an exploration loan in the amount of $11,500.

The contract is being prepared in this office and a copy of the final report will be forwarded with your copy of the contract.

Paul T. Allsman

Paul T. Allsman, Alternate

A.H. Koschmann

A. H. Koschmann

JWT:oc

cc: DMA subject, chron.
AHKoschmann
WMTraver w/copy of final report
PTAllsman w/copy of final report
AHKoschmann w/copy of final report
DMA Final Report

[redacted] Form 3b.

DEFENSE MINERALS ADMINISTRATION

CONTROLLED DOCUMENT
Revised Abstract

DMA Docket No. 2058

Change: From		To	
I 1	☐	I 1	☐
I 2	☐	I 2	☐
I 3	☒	I 3	☒
I 4	☐	I 4	☐
I 5	☐	I 5	☐
I 6	☐	I 6	☐
III 1	☐	III 1	☒ 12/13/51
III 2	☐	III 2	☐
III 3	☐	III 3	☐
III 4	☒	III 4	☐

Add:

II 7 $ 8,000

II 8 $ 11,500

II 8a % 75

Initials of person preparing sheet J.W.T.

Date sheet prepared 12/13/51

Mining Division
Region IV

December 13, 1953

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Project 8956, Sallie A. Tungsten Mine, Boulder County, Colorado, applicant, Marvin E. Hicks, 8511 Court Street, Peoria, Illinois

Work proposals in the application of the subject contract consisted of drifting 50 feet ahead in the lower tunnel to locate the Sallie A. vein, and an unspecified amount of core drilling from the portals to explore for, or delineate ore shoots ahead of the tunnel, at an estimated cost of $8,000.

The consulting team submitted an alternate proposal as being more practical, which consisted of sinking a shaft on the slope of the vein a distance of 85 feet, and drifting on the vein to the extent of 100 feet, at an estimated cost of $11,500.

The applicant and owner resides in Illinois and was not available for consultation concerning the alternate program. However, Mr. Ray Fleety, designated on the application as manager, was consulted and he indicated that the applicant would be agreeable to the change.

We concur with the consulting team recommendation for approval of the alternate proposal in the amount of $11,500. Government participation would be 75 percent, or $8625.00.

Paul V. Allegra

J.T.D.

JWT:oc
cc: DMA subject, chron.
Koschmann

WEDNESDAY

APRIL '50 | 10 | MAY 1950 | JUNE '50

224 New Customhouse
Denver 2, Colorado

September 14, 1951

Memorandum

To: W. M. Traver (with brochure)

(Through Chief, Mining Division)

A. H. Koschmann (with brochure)

From: DMA Field Team, Region IV

Subject: DMA Docket 2058 (Tungsten), Morris G. Mitts, 2511 Court St., Pekin, Illinois

Enclosed is the brochure of the above application for an exploration loan estimated to cost $8,000.00.

The amount is excessive for driving 50 feet, which is the work proposed by the applicant.

The applicant states that the property had been approved by the government for more drilling, which indicates that it has merit.

A field examination is required. It may be advantageous to alter the proposed exploration and submit a more realistic program. If the report is favorable, sufficient information should be obtained to complete a contract.

Please return the brochure to this office with the final report.

Paul T. Allsman, Alternate

A. H. Koschmann

JFS:oj
Enclosure

cc: DMA Subject and Chronological

TUESDAY

9

MAY 1950

MAY 1950						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Dear Tom

Thy, 2

8 service

when service needed for

continued, and

Oyster Creek

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-2058

Date received 9-10-51

Participation

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C. SEP 10 2 20 PM '51

Mr. Morris G. Mitts (Owner)
2511 Court Street
Pekin, Illinois

Mr. Ray Flarty (Manager)
Nederland, Colorado

Name and address of applicant

Date Aug. 20, 1951

FILL IN THIS BLOCK

Date of application August 20, 1951

Estimated cost $8000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine Sugar Loaf Mining District
Nederland, Colorado

Date of filing MF-100

DMA Docket Number, if available 2058

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? individual

*2. If a partnership, state names and addresses of partners.

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. Manager has spent his entire life in tungsten mining.

*5. Are you the owner or the lessee of the property? owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. none

7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Have not income of about $900 per month

9. How much money is applicant prepared to invest in proposed project? $2000 Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? Yes

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. [Juno Rose patent # 18921 Hallie A, Hallie A # 1, Hallie A # 2--located by
(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. same

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any. same as above

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. 1st mine road to left after Glacier Lake

*13. State source and quantity of water available for operations and its sufficiency at all seasons. excellent all year
State amount of power to be used, rate per hour or other cost, and source. no electric line at present

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. compressor & drill, track & mine car, ore shed

15. State in detail how the ore could be shipped and how and where milled. by truck to Wederland (Wolf-tongue) or Teal Mill at Sugarloaf

*16. History:
(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations. 200' of tunnel-shipped during War 2
(*b*) State briefly the known history and production of adjoining and neighboring properties. Conger Mine down the canyon
(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. was approved for diamond drilling near end of W. War 2, but never started.

*17. Production:
(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

Have already spent $300 in opening up tunnel. Need to drive in about 50' more to reach stoping ground. Shipments averaged 1% when in operation during World War 2. Is a new mine still in prospect stage. Vein has never been explored. Samples on floor of old tunnel indicate an average of 2% ore. width?

*18. Ore or mineral reserves: (If property is or has been operating.)
(*a*) Describe the ore or mineral deposits briefly.
(*b*) Submit available maps and assay data.
(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
Mine is up the canyon from famous Conger tungsten mine and shows similar ore.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? tungsten

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. tunneling and core drilling, taking about 1 year or less
NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. We have mill sheets from shipments made in 1945 showing ore averaging 1%. No maps have been made.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. Labor-$1.62 per hr.
(*b*) Supervisors, by numbers and positions, with salaries of each. $1.00 per hr. + 10% of shipment
(*c*) Cost of necessary repairs to existing facilities, structures, and buildings. $500
(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings. $1000
(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each. Compressor, Drill, Minecar, Track, Lines, (used) $1000
(*f*) Cost of rental for equipment which the operator proposes to rent. none
(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work. (see e)
(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each. $600
(*i*) Cost of power, water, utilities, and any other items not provided for above. none

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. expect to have 50' of tunnel completed by Dec. 1, 1951--core drilling to be completed by July 1, 1952 at a total cost of $8000.

CERTIFICATION

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

(Name of company)	By Norris G. Mitts (Signature of authorized official)
Aug 20, 1951 (Date)	Owner (Title)

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.

*Same as footnote on page 1.

(Option for but not purchased)

WMT/dd

Colorado Branch

Date Rec'd
OCT 19 1951

BUREAU OF MINES
Denver, Colorado

DIST. ENGR. WMT
EXAMINATION
DIST. CLERK
PERSONNEL
FILES 2058

Building 20, Denver Federal Center

Chief, Mining Division, Region IV

W. M. Traver, Jr.

Mining Division
Date Rec'd.
AUG 28 1951
BUREAU OF MINES
Denver, Colorado

August 27, 1951

Loan application, Norris G. Mitts.

Please find enclosed four copies of a loan application received from Norris G. Mitts, of Pekin, Illinois, covering a tungsten property in Boulder County, Colorado. A copy of Mr. Mitts' accompanying letter is attached.

The application originated from a letter Mr. Mitts wrote S. R. Zimmerley regarding the exploration program, which Mr. Zimmerley forwarded to this office. Copies of correspondence on the subject were submitted to you July 11, 1951.

Please forward the application to Washington in the usual manner.

W.M.T.
W. M. Traver, Jr.

enclosures

cc PTAllsman
DMA General
DMA Chron.

C
O
P
Y

Colorado Branch
Date Rec'd
OCT 19 1951
BUREAU OF MINES
Denver, Colorado

DIST. ENGR.	
EXAMINATION	
DIST. CLERK	
PERSONNEL	
FILES	

2511 Court Street
Pekin, Illinois
August 20, 1951

Mr. W. M. Traver, Jr.
Chief, Colorado Branch, Mining Div.
Denver Federal Center
Denver 14, Colorado

Dear Mr. Traver:

Thank you for your letter of July 11 and the enclosed forms which I have now filled out and am returning to you.

Since receiving this material in Nederland this summer, I have spent $300 in getting the mine in shape for inspection and have machinery and a good manager lined up ready to go to work.

We plan to continue a new tunnel, started during World War 2 when the mine was in operation. This will give us stoping ground under proven ore for about 160'. We ran into a schist dike in the old tunnel and had the mine approved for core drilling to locate the ore body when the government stopped their drilling operations. At that time we dropped down the mountain about 40' and started a second tunnel. We had not yet reached the vein when the market dropped and all work was stopped. This new tunnel was caved in and I spent $300 during the summer getting it opened up and driven in about 8' further to reach the vein. No ore is in sight, and we plan to drive the tunnel approximately 50' further to get under the old tunnel where we know good tungsten ore is available. The old tunnel was driven in about 200'.

This is a new mine, and it needs a lot of prospecting and exploration work done on it. The ore taken out seems to warrant such expenditure.

Yours very truly,

/s/ Norris G. Mitts

Norris G. Mitts

C
O
P
Y

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-2058

Date received 9/10/51

Participation

[illegible]

Name and address of applicant

Date [illegible]

FILL IN THIS BLOCK

Date of application [illegible]

Estimated cost 8[illegible]

Mineral or metal [illegible]

Percentage of Government participation [illegible]

Location of mine [illegible]

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? [illegible]

*2. If a partnership, state names and addresses of partners.

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. [illegible]

*5. Are you the owner or the lessee of the property? [illegible]

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. [illegible]

7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract. [illegible]

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. [illegible]

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? [illegible]

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

(Name of company)	By Jarris G. Mitte (Signature of authorized official)
Aug 20, 1951 (Date)	Owner (Title)

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.

*Same as footnote on page 1.

Mining Division
Date Rec'd
JUL 1 1951
BUREAU OF MINES
Denver, Colorado

WMT/dd

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
DENVER, COLORADO

Region IV

Building 2-A
Denver Federal Center
Denver 14, Colorado

July 11, 1951

Mr. Norris G. Mitts
Nederland,
Colorado

Dear Mr. Mitts:

Your letter of July 5, 1951, addressed to S. R. Zimmerley, with a copy of a letter of November 5, 1943, from Mr. R. S. Dean attached, concerning a tungsten property near Nederland, Boulder County, Colorado, has been referred to me for reply.

The former Bureau of Mines program for the investigation of domestic mineral resources has been terminated in favor of the new Defense Production Act program. Under this former program, worthy deposits of critical minerals were examined and, if found likely to contribute a future supply of the mineral in question, were further developed by various methods of exploration, such as trenching, test-pitting, core-drilling, or other means.

We are enclosing the following forms concerned with the new Defense Production Act program:

(1) Press release of April 11, 1951.
(2) Mineral Order 5.
(3) Five copies of MF-103, four of which may be transmitted to the Region IV office, at 224 New Custom House Building, Denver 2, Colorado.

Under this program, as explained in the accompanying forms, the applicant is required to match funds with the Defense Minerals Administration on various percentages, which in the case of tungsten is twenty-five percent by the applicant and seventy-five percent by the Defense Minerals Administration.

If you are interested in one of these new exploration loans, it is suggested that you fill in the required forms and submit them for consideration. It should be understood that this is contingent on the continuation of the Defense Production Act and the Defense Minerals Administration exploration program into the next fiscal year which, at the present time, has not been definitely decided by Congress.

Very truly yours,

W. M. Traver, Jr., Chief
Colorado Branch, Mining Division

enclosures

cc PTAllsman
DMA General
DMA Chron,

254 New Customhouse
Denver 2, Colorado

September 7, 1951

Memorandum

To: Bureau Minerals Administration, Attention: Code 320

From: Executive Officer, BLM Field Team, Region IV

Subject: Handling New Exploration Applications

Enclosed herewith in duplicate are BLM Form 3a and Form 3F-103 pertaining to the following six applications for exploration leases:

McKinnie, Prince and Johnson, Lost Chance Tungsten, Boulder County, Colorado

Moffat Metals Trust, Equal Arch Copper, Jefferson and Boulder Counties, Colorado

✓ Morris G. Miller, Jane Dove and Mildred Tungsten, Boulder County, Colorado 2C 55

Aspenshaw Mine Trust, Aspenshaw Tungsten, Boulder County, Colorado

Tungsten Trust Activities, Big Top Tungsten, Boulder County, Colorado

Arthur E. Scott, Pride of the West and Queen Mountain, Lead-Zinc and Copper, San Juan County, Colorado

J. H. Earl, Jr.

J. H. Earl, Jr.

Enclosures

MDMcM

cc: BLM Code 320
" Denver
" Grand
Junctions

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-2058

Date received 9/10/51

Participation

Mr. Morris C. Mitts (Owner)
2511 Court Street
Pekin, Illinois

Mr. Ray Clarty (Lessor)
Hoqorland, Colorado

Name and address of applicant

Date Aug. 20, 1951

FILL IN THIS BLOCK

Date of application August 20, 1951

Estimated cost $8000.00

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine Sugar Loaf Mining District
Hoqorland, Colorado

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual

*2. If a partnership, state names and addresses of partners.

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. Manager has spent his entire life in tungsten mining.

*5. Are you the owner or the lessee of the property? owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None

7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Have not income of about $900 per month

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? Yes $2000

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. [Juno Rose patent # 10091] Hallio A, Hallio A # 1, Hallio A # 2--located by
(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. same

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any. same as above
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. 1st mine road to left after Glacier Lake
*13. State source and quantity of water available for operations and its sufficiency at all seasons. excellent all year State amount of power to be used, rate per hour or other cost, and source. no electric line at present
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. compressor & drill, truck & mine car, ore shed
15. State in detail how the ore could be shipped and how and where milled. by truck to Moorland (rail-
*16. History: cargo) or Toni Mill of Burnloop
(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations. 200' of tunnel-shipped during War 2
(*b*) State briefly the known history and production of adjoining and neighboring properties. Copper King mine down the canyon
(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations. was approved for diamond
*17. Production: drilling near end of W. War 2, but never started.
(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

Have already spent $300 in opening up tunnel. Need to drive in about 50' more to reach stoping ground. Shipments averaged 1% when in operation during World War 2. Is a new mine still in prospect stage. Vein has never been explored. Samples on floor of old tunnel indicate an average of 2% ore.

*18. Ore or mineral reserves: (If property is or has been operating.)
(*a*) Describe the ore or mineral deposits briefly.
(*b*) Submit available maps and assay data.
(*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
Mine is up the canyon from Copper Tungston mine and shows similar ore.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? tungston
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it. remoling and
NOTE.—The Government will not participate in a project that will require more than 2 years to complete. some drilling, taking about 1 year or less
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data. We have mill checks from shipments made in 1960 showing ore averaging 1%. No maps have been made.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. Labor-1.00 per hr.
(*b*) Supervisors, by numbers and positions, with salaries of each. 1.00 per hr. + 10% of shipment
(*c*) Cost of necessary repairs to existing facilities, structures, and buildings. $500
(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings. $1000
(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each. Compressor, Drill, Blower, Truck, Mine, (used) $1000
(*f*) Cost of rental for equipment which the operator proposes to rent. none
(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work. ($800.0)
(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each. $600
(*i*) Cost of power, water, utilities, and any other items not provided for above. none
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. expect to have 50' of tunnel completed by Dec. 1, 1961--core drilling to be completed by July 1, 1962 at a total cost of $3000.

CERTIFICATION

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

(Name of company)	By Harris G. Mitts (Signature of authorized official)
Aug 20, 1961 (Date)	owner (Title)

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.

*Same as footnote on page 1.

(spoken for but not purchased)

DMA Form 3a

DEFENSE MINERALS ADMINISTRATION

CONTROLLED DOCUMENT
Abstract

I. Check One:

1 [ ] 2 [ ] 3 [X] 4 [ ] 5 [ ] 6 [ ]

II. Fill in each item:

1. 2 058 2. 9/10/51 2a

3. Norris G. Mitte, Owner

2511 Court Street, Pekin, Ill.

(Code)

4. June Rose, Hallie A #1 & Hallie A #2

5. Country U.S.A. State Colorado County Boulder

(Code) (Code)

6. Tungsten

7. $ 8000.00

8. $ % 75

9. Est. Ann. Increase - Unit of Measure -

10. $

111

III. Check one:

1 [ ] 2 [ ] 3 [ ] 4 [x] By Field Team, Region IV

Initials of person preparing sheet W.D.H.

Date sheet prepared 8/30/51

WDH:oj

11 500
75

57500

8050.0

8625.00

85 feet siding
100 feet shifting

Bill Back 3 pages of unpatented claims
✓ in County Court House for owner

Notes of equipment

1 ton 6	118.00
	40.80
	118.31
	55.95
	220.00
	95.40
	143.80

35

6900
3780
600
10,280

MF-200
(June 1951)

Docket No. DMA 2058
Commodity Tungsten

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] Harris J. Mitts an individual
2311 Cedro Street
Peoria, Illinois

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Colorado, County of Boulder described as follows: [3]
Hallie A
Hallie A No. 1
Hallie A No. 2
June Rose No. 18921
all in Sec. 25, T. 1 N., R. 73 W., 6 P.M.

with respect to which the Operator represents and undertakes: [4]

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

~~(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.~~

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] Tungsten; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] _____ from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 75 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $ 8625.00, which is 75 percent of the agreed estimated total cost of this project, $ 11,500.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

Regional Director Region IV
U. S. Bureau of Mines

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

Exhibit A

2058

Exploration Project

The proposed exploration project consists of sinking a shaft approximately 85 feet on the Hallie A vein and drifting approximately 100 feet on the vein from the bottom of the shaft.

The attached claim map shows the location of the ~~shaft~~ proposed shaft. The proposed workings are shown on Fig. 2.

The estimated working time is months

The following costs are estimated.

Fixtures and Improvements

Construction of hoist house and headframe $ *

*The above cost is included in cost of labor and supplies.

Operating Equipment

To be rented:

1 Dallidge @ 15.00 per hour (40 hours) $600.

To be purchased:

1 125 c.f.m. compressor
1 C.P. 55-pound jackhammer $220.00
1 mine car.
1 air receiver

To be furnished by operator:

Labor and Supervision

Classification	Foreman daily wage
1 boilerman	$13.20 per day
2 miners	$13.20 per day
1 foreman	$16.00 per day

The above rates are for an 8-hour, 5 day week, with time and one half for overtime

Estimated labor cost	$6450.00
Compensation insurance, payroll taxes	450.00
Total estimated cost	$6900.00

(4) 2058

Supplies

Timber	700.00
Explosives, blasting caps	700.00
Gasoline, oil, grease	560.00
Drill steel	350.00
Drill bits	150.00
Small Tools	200.00
Track	350.00
Pipe	70.00
Assaying	100.00
	3780.00

Mining Division
Region IV

July 10, 1952

Norris G. Mitts
2511 Court St.
Pekin, Illinois

Re: DMEA Docket 2058

Dear Mr. Mitts:

We are unable to process your application for exploration assistance because we cannot locate the boundarylines of your property. If you would arrange for Mr. Flairty or Mr. Core to accompany our engineer to the property, show him claim corners, and prepare a map showing the relation of the proposed work to the property lines, we could complete processing your application.

We have not answered your letter dated February 11, 1952 sooner because the heavy snows have prevented an examination of the surface.

We are anxious to complete processing this application, and would appreciate an early answer.

Very truly yours,

W. H. King

W. H. King
Acting Chief,
Mining Division, Region IV

JFS:oc
cc: WMTraver
JFShaw
Subject
Chron.
Koschmann (2)

224 New Customhouse
Denver 2, Colorado

February 6, 1952

Mr. Norris G. Mitts
2511 Court Street
Pekin, Illinois

Dear Mr. Mitts:

Your letter to Mr. W. M. Traver, Jr., dated January 31, 1952, has been referred to this office.

Your application for exploration assistance states that you own the Hallie A. No. 1, Hallie A. No. 2, and June Rose mining claims. We understand that George B. and Irma C. Streeker of Boulder, Colorado have been paying the taxes on the June Rose claim. Kindly clarify the ownership status of the claim.

Before your application can be processed further, it will be necessary to know the location of the mine workings in respect to the property lines. If you have a local representative or know anyone in Boulder who is familiar with this property, it might expedite the processing of your application.

Yours very truly,

J. H. East, Jr.
Executive Officer
Field Team, Region IV

JHE:ld

cc: Docket, chron.
Koschmann
Traver

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
February 1, 1952

Memorandum

To: Acting Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA 2058, Hallie A Tungsten Mine, Boulder County, Colorado

Please find enclosed two copies of Floyd Everett's memorandum to me on the subject docket containing information requested by John Shaw for contract preparation. Clarification by the applicant regarding ownership will evidently be required.

W. M. Traver, Jr.

W. M. Traver, Jr.

Answered 2-6-52

FDE/amh

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
February 1, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division

From: Floyd D. Everett

Subject: DMA 2058, Hallie A Tungsten mine, Boulder County, Colorado

At the suggestion of John Shaw, mining engineer, regional office, Region IV, the location records and subsequent deeds of the property claimed by Norris G. Mitts, applicant for a Defense Minerals Exploration Administration government loan, were reviewed at the Boulder County Court House. The records indicated that the Hallie A, Hallie A No. 1, and Hallie A No. 2 claims were held by location rights in the names of W. H. Crane and Norris G. Mitts. Crane died and a deed dated August 28, 1951, signed by Mrs. Irene Boone Crane, gave Norris G. Mitts all rights to the property through right of survival (book 892, page 583, Boulder County Recorder's office).

The June Rose patented claim (survey number 18921) was also claimed by Mitts. However, George B. and Irma C. Strecker, of Boulder, Colorado, are paying the taxes according to the county assessor.

The location of the mine workings in respect to the claims is not known and cannot be traced out on the property as the area will be inaccessible until May or June.

A sketch of the claims, as interpreted from the location records, is attached.

It is suggested that Mr. Mitts be contacted to clarify the ownership status of the June Rose claim and to state the approximate position of the mine workings.

CLAIM LOCATION DATA

The mining claims were sketched on the map from data obtained at the Boulder County Clerk and Recorder's office.

June Rose patented claim, survey number 18921 amended survey (book 275, page 524, Boulder County Recorder's office):

Corner No. 1, whence the E. ¼ corner, sec. 25, T. 1 N., R. 73 W., of the 6th P. M., bears N. 69° 55' 30" E., 2647.4 feet,
thence S. 21° 34' E., 150 feet to corner No. 2,
thence S. 68° 26' W., 750 feet to center stake,
1,500 feet to corner No. 3,
thence N. 21° 34' W., 150 feet to corner No. 4,
thence N. 68° 26' E., 750 feet to center stake,
1,500 feet to corner No. 1.

Hallie A claim located by W. H. Crane and D. E. Baldwin (Book 629, page 104, Boulder County Recorder's office):

Beginning at the NE. corner of patented claim known as June Rose, running 150 feet N. 22° E. to corner No. 1,
thence 1,500 feet due N. to corner No. 2,
thence 600 feet due W. to corner No. 3,
thence 1,500 feet due S. to corner No. 4,
thence 600 feet due E. to corner No. 1,
300 feet southerly and 1,200 feet northerly from discovery shaft.
(magnetic bearings)

Hallie A No. 1, W. H. Crane and Norris G. Mitts, 26 July 1941 (book 629, page 292, Boulder County Recorder's office), claim 1,500 feet long, 300 feet on west side, 300 feet on east side, 100 feet northerly of discovery shaft, 1,400 feet southerly:

Corner No. 1 which is identical with center stake on claim known as Hallie A,
thence 1,500 feet 17° W. of S. to corner No. 2,
thence 600 feet 17° N. of W. to corner No. 3,
thence 1,500 feet 17° E. of N. to corner No. 4,
thence 600 feet 17° S. of E. to corner No. 1.
(magnetic bearings)

Hallie A No. 2, W. H. Crane and Norris G. Mitts (book 629, page 279, Boulder County Recorder's office), 300 feet West side, 300 feet east side, 1,100 feet northerly from discovery shaft, 400 feet southerly:

Corner No. 1, which is 120 feet north of June Rose patent corner No. 1,
thence S. 10° W. 1,500 feet to corner No. 2,
thence west at right angles 600 feet to corner No. 3,
thence north at right angles 1,500 feet to corner No. 4,
thence east at right angles 600 feet to corner No. 1.

Floyd D. Everett
Floyd D. Everett
Mining Engineer

cc WHKing (2)
DMEA Chron.
Extra (1)

WMT:dd

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
February 4, 1952

Mining Division
Date Rec'd
FEB 5 - 1952
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Acting Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA 2058, Norris G. Mitts, Hallie A Mine, Boulder County, Colorado

Please find attached a copy of a letter received today from Norris G. Mitts, applicant on the subject Defense Minerals Exploration Administration docket.

We sent you this morning a memorandum concerned with ownership and lease agreements on the same docket and, when you are writing Mr. Mitts in regard to them, it will be appreciated if you will also acknowledge and refer to this letter.

W. M. TRAVER, JR.

W. M. Traver, Jr.

attachment

cc WHKing
DMA 2058
Chron.

PEKIN COMMUNITY HIGH SCHOOL
Business Department

Pekin, Illinois

January 31, 1952

Mr. W. M. Traver, Jr., Chief
Colorado Branch, Mining Division
Building 2-A, Denver Federal Center
Denver 14, Colorado

Hallie A Mine

Dear Mr. Traver:

In your letter of July 11, 1951, you suggested that I fill out four copies of MF-103 and send them to the Region IV office at 224 New Custom House Building, Denver. This was for Government help in developing my three adjoining tungsten mines near Nederland, Colorado.

I followed your suggestion on August 20, 1951. So far, I have had no work indicating that the forms were received or whether they were under consideration.

We should get this tungsten mine back into production this next summer if it is to contribute to the Government stockpile of strategic minerals. Any further suggestions or help will be appreciated.

Yours very truly,

/s/ Norris G. Mitts

Norris G. Mitts
2511 Court Street
Pekin, Illinois

C
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P
Y

Mining Division
Date Rec'd.
FEB 5 - 1952
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
February 4, 1952

File

Memorandum

To: Acting Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA 2058, Norris G. Mitts, Hallie A Mine, Boulder County, Colorado

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W. M. Traver, Jr.
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Mining Division
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BUREAU OF MINES
Denver, Colorado

PEKIN COMMUNITY HIGH SCHOOL
Business Department

Pekin, Illinois

January 31, 1952

Mr. W. M. Traver, Jr., Chief
Colorado Branch, Mining Division
Building 2-A, Denver Federal Center
Denver 14, Colorado

Hallie A Mine

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Norris G. Mitts
2511 Court Street
Pekin, Illinois

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WMT/dd

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
February 1, 1952

Memorandum

To: Acting Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA 2058, Hallie A Tungsten Mine, Boulder County, Colorado

Please find enclosed two copies of Floyd Everett's memorandum to me on the subject docket containing information requested by John Shaw for contract preparation. Clarification by the applicant regarding ownership will evidently be required.

W. M. Traver, Jr.

cc WHKing
DMA 2058
Chron.

FDE/amh

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
February 1, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division

From: Floyd D. Everett

Subject: DMA 2058, Hallie A Tungsten mine, Boulder County, Colorado

At the suggestion of John Shaw, mining engineer, regional office, Region IV, the location records and subsequent deeds of the property claimed by Norris G. Mitts, applicant for a Defense Minerals Exploration Administration government loan, were reviewed at the Boulder County Court House. The records indicated that the Hallie A, Hallie A No. 1, and Hallie A No. 2 claims were held by location rights in the names of W. H. Crane and Norris G. Mitts. Crane died and a deed dated August 28, 1951, signed by Mrs. Irene Boone Crane, gave Norris G. Mitts all rights to the property through right of survival (book 892, page 583, Boulder County Recorder's office).

The June Rose patented claim (survey number 18921) was also claimed by Mitts. However, George B. and Irma C. Strecker, of Boulder, Colorado, are paying the taxes according to the county assessor.

The location of the mine workings in respect to the claims is not known and cannot be traced out on the property as the area will be inaccessible until May or June.

A sketch of the claims, as interpreted from the location records, is attached.

It is suggested that Mr. Mitts be contacted to clarify the ownership status of the June Rose claim and to state the approximate position of the mine workings.

CLAIM LOCATION DATA

The mining claims were sketched on the map from data obtained at the Boulder County Clerk and Recorder's office.

June Rose patented claim, survey number 18921 amended survey (book 275, page 524, Boulder County Recorder's office):

Corner No. 1, whence the E. ¼ corner, sec. 25, T. 1 N., R. 73 W., of the 6th P. M., bears N. 69° 55' 30" E., 2647.4 feet,
thence S. 21° 34' E., 150 feet to corner No. 2,
thence S. 68° 26' W., 750 feet to center stake,
1,500 feet to corner No. 3,
thence N. 21° 34' W., 150 feet to corner No. 4,
thence N. 68° 26' E., 750 feet to center stake,
1,500 feet to corner No. 1.

Hallie A claim located by W. H. Crane and D. E. Baldwin (Book 629, page 104, Boulder County Recorder's office):

Beginning at the NE. corner of patented claim known as June Rose, running 150 feet N. 22° E. to corner No. 1,
thence 1,500 feet due N. to corner No. 2,
thence 600 feet due W. to corner No. 3,
thence 1,500 feet due S. to corner No. 4,
thence 600 feet due E. to corner No. 1,
300 feet southerly and 1,200 feet northerly from discovery shaft.
(magnetic bearings)

Hallie A No. 1, W. H. Crane and Norris G. Mitts, 26 July 1941 (book 629, page 292, Boulder County Recorder's office), claim 1,500 feet long, 300 feet on west side, 300 feet on east side, 100 feet northerly of discovery shaft, 1,400 feet southerly:

Corner No. 1 which is identical with center stake on claim known as Hallie A,
thence 1,500 feet 17° W. of S. to corner No. 2,
thence 600 feet 17° N. of W. to corner No. 3,
thence 1,500 feet 17° E. of N. to corner No. 4,
thence 600 feet 17° S. of E. to corner No. 1.
(magnetic bearings)

Hallie A No. 2, W. H. Crane and Norris G. Mitts (book 629, page 279, Boulder County Recorder's office), 300 feet West side, 300 feet east side, 1,100 feet northerly from discovery shaft, 400 feet southerly:

Corner No. 1, which is 120 feet north of June Rose patent corner No. 1,
thence S. 10° W. 1,500 feet to corner No. 2,
thence west at right angles 600 feet to corner No. 3,
thence north at right angles 1,500 feet to corner No. 4,
thence east at right angles 600 feet to corner No. 1.

Floyd D. Everett
Floyd D. Everett
Mining Engineer

cc WHKing (2)
DMEA Chron.
Extra (1)

Kindly handle per

PEKIN COMMUNITY HIGH SCHOOL
BUSINESS DEPARTMENT
PEKIN, ILLINOIS

REGIONAL DIRECTOR
OFFICE
REGION IV
FEB 13 1952
BUREAU OF MINES
DENVER, COLORADO

February 11, 1952

Mr. J. H. East, Jr.
Executive Officer
Field Team, Region IV
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

I am sorry that I apparently did not clearly state the location of my mines in my application for exploration assistance. I listed them as Hallie A. No. 1, Hallie A. No. 2, and Hallie A, by June Rose patent No. 18921. I was trying to say that they were located near, and tied to the June Rose patent, so that they would be easier to locate.

I have typed up a copy of the descriptions of the mines as found on the Boulder County records. You may attach this description to the application if you wish.

You will also find deeds recorded which place the title to the claims in my name. My partner, Mr. Crane died, and his widow quit claimed the mines to me last summer.

I have started a second tunnel under the old tunnel in order to gain stoping ground as quickly and economically as possible. The second tunnel had caved in, but we got it open last summer and drove it a bit further. We have about 50 feet yet to go to get into pay ore. Before the old tunnel caved in, we sampled the floor along the tracks and found the ore averaged better than two per cent tungsten.

Mr. D. H. Core, mineral surveyor in Boulder, walked over the property with me two years ago. He may still remember something about the lines which would help you. I also remarked most of the corners last summer. Mr. Ray Flairty of Nederland is familiar with the ore and the tunnels. He and his brother worked the mine on shoestring capital during the second war and made money. The mine has never been properly explored or developed because of lack of funds.

I want to get something going on this mine as soon as possible after the weather permits this Spring.

Yours very truly,

Norris G. Mitts

Norris G. Mitts

Rec'd

Hallie A., Hallie A. # 1, and Hallie A. # 2, as recorded in Book 629, pages 104, 292, and 279 of the records of Boulder County Colorado:

Hallie A. -- Location certificate by W. H. Crane and D. E. Baldwin of the County of Boulder--1500 feet linear and horizontal measurement on the Hallie A with 300 feet in width on each side of the middle of said vein at the surface and all veins within the lines of said claim 300 feet on said lode running in a southernly direction from the center of the discovery shaft and 1200 feet running in a northernly direction from said center of discovery shaft. Said claim is situated on the Sec. 25. T. 1. N. R. 73 in Sugar Loaf as follows:

Beginning at the N. E. corner of Pat. claim known as the June Rose, running 150 feet N. 22° E. to corner # 1

Thence 1500 feet due North to corner # 2
Thence 600 feet due West to corner # 3
Thence 1500 feet due South to corner # 4
Thence 600 feet due East to corner # 1--place of beginning
Side center stakes in place. (All points magnetic)
Discovered on the 25th of August 1937

Hallie A. # 1 -- Location certificate by W. H. Crane and Norris G. Mitts on the 26th day of July 1941--1500 linear feet and horizontal measurement, on the Hallie A. # 1, along the vein together with 300 feet on the West side and 300 feet on the East side of the middle of said vein at the surface and all veins within the lines of said claim, 100 feet running Northerly direction from center of discovery shaft and 1400 feet running Southerly from center of discovery shaft said shaft being in Sugar Loaf Sec. 25 T. 1. 73

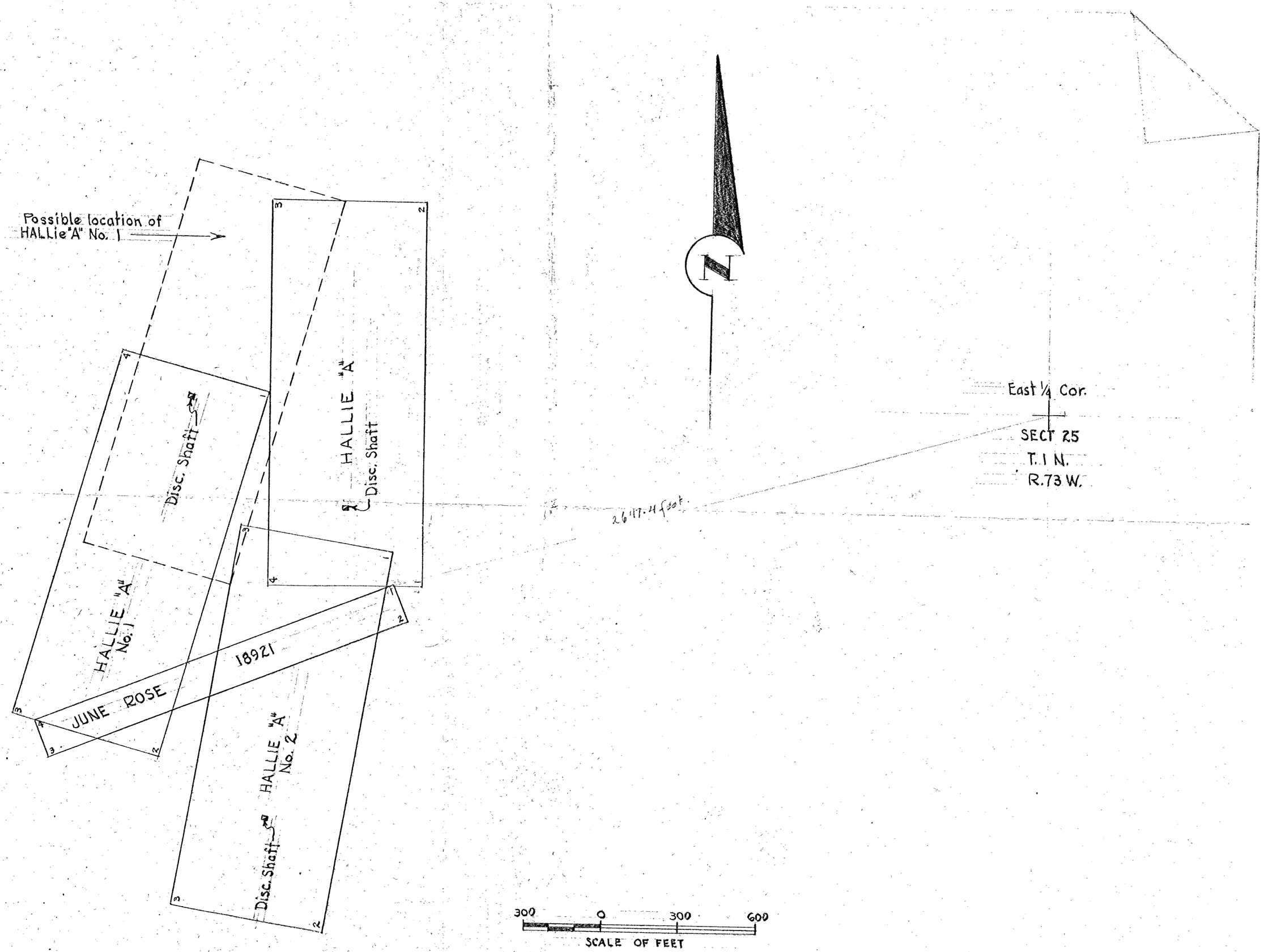
Beginning at Corner No. # 1 which is identical with center stake on claim known as Hallie A. --thence

1500 feet 17° W. of S.
600 feet 17° N. of W.
1500 feet 17° E. of N.
600 feet 17° S. of E. to place of beginning

Hallie A. # 2 -- Location certificate by W. H. Crane and Norris G. Mitts on the 6th day of September 1940--1500 linear feet and horizontal measurement, on the Hallie A. # 2 vein together with 300 feet on the West side and 300 feet on the East side of the middle of said vein at the surface and all veins within the lines of said claim 1100 feet running Northernly from center of discovery shaft and 400 feet running Southernly from center of discovery shaft, said shaft being in Sugar Loaf

Beginning at Corner # 1 which is 120 feet North of June Rose patent Cor. # 1, Pat. # 18921

Thence South 10° W. 1500 feet to corner # 2
Thence West, right angle 600 feet to corner # 3
Thence North, right angle 1500 feet to corner # 4
Thence East, right angle 600 feet to place of beginning
The claim is located in Sec. 25 R. 1. N. R. 73 Boulder Co.


Possible location of
HALLIE "A" No. 1
HALLIE "A"
Disc. Shaft
Disc. Shaft
HALLIE "A"
No. 1
JUNE ROSE
18921
HALLIE "A"
No. 2
Disc. Shaft
East ¼ Cor.
SECT 25
T. 1 N.
R. 73 W.
2617.4 feet
300
0
300
600
SCALE OF FEET