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DEFENSE MINERALS ADMINISTRATION
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Copies to USGS, USBM. One copy retained in Region III

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To:	Code 400, Rm. 3538	Date	6/11/53
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Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

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NOV 9 1953

3074

Tung.

Mr. Gus Rogers, Sec.-Treas.
Winnemucca Mountain Mines Co.
P. O. Box 31
Winnemucca, Nevada

Re: Docket No. DMEA 3074 - Tungsten
Winnemucca Mountain Mines Co.
Star Tungsten claims
Pershing County, Nevada

Dear Mr. Rogers:

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

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

Careful study of all our information, although noting a small amount of tungsten on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

cc: [illegible] T
FT, R.G. III
[illegible] 400
A.[illegible], A.[illegible]
O.[illegible]
[illegible] Al, [illegible]
T. [illegible] CHA[illegible], USGS

Hopkins/[illegible] 11-4-53

NOV 9 1953

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $20,362.00
Docket No. DMEA 3074 - Tungsten
Gus Rogers (Winnemucca Mountain Mines Co.)
Star Tungsten claims, Kilbrade Canyon, Humboldt Range
Pershing County, Nevada

The denial of the subject application by this Division is based on the following information:

1. The applicant requested exploration assistance in the amount of $20,362.00 to explore for tungsten on the Star Tungsten claims, Pershing County, Nevada.

2. The tungsten mineralization occurs in a quartz-filled crushed zone 20 to 30 feet wide along a thrust fault following the contact between limestone and shales of probable Triassic age.

3. In addition to a few shallow surface workings along the outcrop, the vein is developed by an adit 300 feet in length from which two raises, a winze and crosscut have been extended.

4. The proposed exploration program included drifting 350 feet on the vein at an elevation of 150 feet below present tunnel, and crosscutting 100 feet.

5. The examination disclosed that the proposed tunnel would be 57 feet short of reaching the projected position of the first ore shoot encountered in the No. 1 Raise, and there appears to be no logical reason for crosscutting because the ore in the sections mined was found on or near the hanging wall side of the crushed zone.

6. The property is reported by one of the applicants to have produced the following tonnages during the World War II period:

500 tons @	1.5 percent WO_3		
100 " "	12.0 " "		
40 " "	35.0 " "		

There are no records to substantiate this production, and another member of the Winnemucca Mountain Mine Company staff said one shipment of 40 tons of 2.0 percent tungsten ore was shipped during this period. The extent of the stoped areas would more closely substantiate the latter figures.

Recent production included about 60 tons from the mine workings and 30 tons sorted from the mine dump. This material was milled and yielded 1940 pounds of concentrates having a tungsten content of 57.0 to 60.0 percent WO_3.

7. Two samples were taken by the examining engineer and gave the following results:

Sample No.	Description	% WO_3
1608	Grab of muck at bottom of #2 raise	0.17
1609	Grab 5 tons in bin	0.51

Three ore shoots were developed in two raises and the winze in a distance of 150 feet. The ore occurs disseminated and as small crystal bunches in partially silicified limestone fragments. Thickness of the ore shoots varies from 1 foot to 4 feet; width, 4 feet to 10 feet; and length, 20 to 40 feet. The shoots appear to be localized in the crushed zone at intersections with small cross faults.

8. The examining engineer concludes that the ore shoots in the Star Tungsten Workings are narrowly limited in extent, and the possibility that these sections will continue to a lower horizon is problematical. Therefore, it is recommended that the application of exploration assistance, Docket No. DMEA 3074, be denied.

9. The Commodity Divisions of the Geological Survey and Bureau of Mines concur with the recommendation.

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

CC: DOCKET
CODE 400
ADM. READ. FILE
OPER. COMMITTEE

JHopkins/ls 11/4/53

400

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

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

October 21, 1953

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3074 - Tungsten
Gus Rogers (Winnemucca Mountain Mines Company)
Star Tungsten Claims, Eldorado Canyon, Humboldt Range
Pershing County, Nevada

Reference is to your letter dated June 23, 1953, requesting a review and possibly a field examination of the subject property.

The property was examined on September 15, and four copies of a report entitled "DMEA-3074, Winnemucca Mountain Mines Co., Star Tungsten Mine, Pershing County, Nevada," by W. T. Benson, Mining Engineer, U. S. Bureau of Mines, dated October 2, 1953, are attached.

The examining engineer recommends denial of the applicant's request for a loan as the ore shoot encountered in the mine workings is limited in extent and its continuation to depth is problematical.

Under "Proposed Exploration," page 7 of the report, Benson states that the applicant's proposed new work would be about 57 feet short of reaching the projected position of the first ore shoot encountered in the No. 1 raise. I therefore wrote our Reno office to find out whether including 57 more feet of work in the applicant's proposal would change the examining engineer's recommendations.

I now have a reply from Reno telling me that even with the 57 feet of additional work, the property does not warrant the request.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: E. H. Bailey, USGS

Reviewed by
DMEA OPERATING COMMITTEE
10-30-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3074, WINNEMUCCA MOUNTAIN MINES CO.

STAR TUNGSTEN MINE

PERSHING COUNTY, NEV.

W. T. BENSON, MINING ENGINEER
U. S. BUREAU OF MINES

OCTOBER 2, 1953

Reviewed by
DMEA OPERATING COMMITTEE
10-30-53
(date)

REPORT OF EXAMINATION

Docket No.: DMEA-3074 (Tungsten)

Name and address of applicant: Gus Rogers, P. O. Box 31,
Winnemucca, Nev.

Name and location of property: Winnemucca Mountain Mines Co.,
Star Tungsten Mine
Pershing County, Nev.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Mr. Gus Rogers, P. O. Box 31, Winnemucca, Nevada has applied to the Defense Minerals Exploration Administration for government assistance in a $20,362.00 program to explore downward continuations of ore sections mined in the present mine workings on the Tungsten Star group of 4 claims, situated in the Imlay Mining District, Pershing County, Nev.

A field team examination was suggested by the Executive Officer, DMEA Field Team, Region III to determine whether the property had sufficient merit to justify the project proposed by the applicant and to obtain other necessary data. Accordingly, an examination was made by an engineer[1/] of the Bureau of Mines on Sept. 15, 1953.

The applicant proposed to explore a silicified shear zone by drifting 350 feet at an elevation of 150 feet below the present tunnel level, and to crosscut 100 feet, in order to explore possible down-

1/ W. T. Benson.

ward continuations of ore sections that have been mined above and below the tunnel level.

The ore shoots, encountered in the Star Tungsten workings, are limited in extent. The possibility that these ore sections will continue to a lower horizon is problematical. Since the proposed new work falls short of encountering a continuation of a known ore section, it is recommended that the DMEA do not enter into a contract with the applicant to do the proposed work.

INTRODUCTION

In connection with an application for exploration assistance, (docket DMEA-3074), the Star Tungsten claims of the Winnemucca Mountain Mines Co. was visited on Sept. 15, 1953 by an engineer of the Bureau of Mines for the purpose of inspecting development openings that pertain to Mr. Gus Roger's application for aid in exploring tungsten showings on the Star Tungsten group of claims.

NAME AND LOCATION OF PROPERTY

The Winnemucca Mountain Mines Co., controlled by O. R. Maumula, William D. Craft, and Gus Rogers, P. O. Box 31, Winnemucca, Nev., are the owners of the Star Tungsten group of 4 unpatented lode mining claims, situated in the Imlay Mining District, sec. 26, T. 31 N., R. 33 E., Pershing County, Nev., about 32 miles north of Lovelock, Nev., the supply center on the Southern Pacific Railroad, and 47 miles southwest of Winnemucca, the site of the mill.

To reach the property from Lovelock, Highway 40 is traveled north 28 miles to the Eldorado Canyon turnoff. From this point a poor mountain road is followed east 4 miles to the property which is about a mile above the mouth of the canyon.

COMPETNECY OF APPLICAN T

Mr. Gus Rogers has been connected with mining operations on Winnemucca Mountain for the past twenty years, in an operating capacity. His principal activities have been of a promotional nature. While adept in securing operational funds, his mining ventures, in general, have not been profitable from the standpoint of the production of ore. However, he may be competent to supervise exploratory operations.

HISTORY

The Imlay District in which the property is located was formerly a moderate producer of gold from the Standard mine, about three miles south.

According to Mr. Rogers, the Star Tungsten property produced 500 tons that averaged 1.5 percent tungsten, 100 tons of 12.0 percent tungsten ore, and 40 tons that averaged 35.0 percent tungsten during the World War II period. There are no records to substantiate this production, and another member of the staff said one shipment of 40 tons of 2.0 percent ore was shipped during this period. The extent of the stoped areas would more closely substantiate the latter figures.

Recently about 60 tons were obtained from the mine workings and 30 tons from sorting the mine dump. This material, treated in the mill at Winnemucca, produced 1,940 pounds of concentrates having a tungsten content of 57.0 to 60.0 percent WO_3.

PHYSICAL FEATURES

The claims are located about a mile above the mouth of Eldorado Canyon on the west flank of the Humboldt Range in an area of moderately steep topography at an altitude of about 5,500 feet. U.S. Highway 40 passes 4 miles west of the property. Dirt roads, which are passable except for short periods during the winter months, extend from the highway to the mine.

Climate in the area is semi-arid with long hot summers and moderately cold winters. Precipitation occurs usually as snow with occasional rains during the spring and fall months. Winter storms are sometimes severe enough to stop or impede access to the property for a week or so at a time. A scattered growth of juniper and sagebrush constitute the vegetation on the property. Water for mine and domestic use is supplied in drums from Humboldt House, four miles north.

Transmitted electric power is not available, and fuel oil for generation of power is trucked from Lovelock, 32 miles south.

HOUSING FACILITIES

Two small frame houses on the property are sufficient to accommodate a crew of four to six men.

EQUIPMENT

Equipment on the property includes a Continental gasoline motor, belt connected to 120-cubic foot Gardner-Denver compressor, a Thor No. 75 compression drill mounted on a shell, a 3-inch column arm and saddle, 100 feet air hose, 100 feet water hose, pressure tank, air receiver tank (3 x 7), small blacksmith outfit and a limited assortment of hand tools.

DEVELOPMENT

In addition to a few shallow surface workings along the outcrop, the property is developed by an adit 300 feet in length, from which two raises, a winze and a crosscut have been extended (see sketch attached).

GEOLOGY

The Imlay District is underlain by sedimentary rocks of probable Triassic age, which are steeply tilted and cut by faults in several systems. The sedimentary rocks consist of limestone and shale, which crop out in belts trending N. 15° W. and dip 52° West. The shales are thin-bedded, light to dark brown or green and locally contain sandy layers. The limestones are light gray to blue, thin- to medium-bedded and in some places are shaly parted.

The rocks have been cut by two sets of faults. One set consists of a thrust fault along the contact between shale and limestone which strikes with the formations and dips steeply west. The thrust fault and the limestones in the vicinity of the mine workings are cut by an east-

ward striking fracture of small displacement that dips south. This fracture, 20 to 30 feet wide, is considerably crushed and filled with quartz.

ORE BODIES

The tungsten mineralisation occurs in the quartz-filled crushed zone as irregular pipe-like shoots. In a distance of 150 feet, three such shoots were developed in two raises and the winze. In these shoots, the ore thickness varied from a foot to 4 feet, 4 to 10 feet wide, and 20 to 40 feet long. In these shoots the tungsten, as scheelite, occurred disseminated and as small crystal bunches in partially silicified limestone fragments cemented by quartz as a binding media.

The ore bodies appear to be localized in the fractured zone at its intersection with small cross faults, usually near the hanging wall side of the crushed zone.

SAMPLING

In order to determine the approximate grade of the ore being mined and available for shipment, samples were taken of ore broken in the mine and from ore in the bin. Assay results were as follows:

Sample No.	%, WO_3	Description
1608	0.17	Grab of muck bottom of No. 2 raise.
1609	0.51	Grab 5 tons ore in bin.

ORE RESERVES

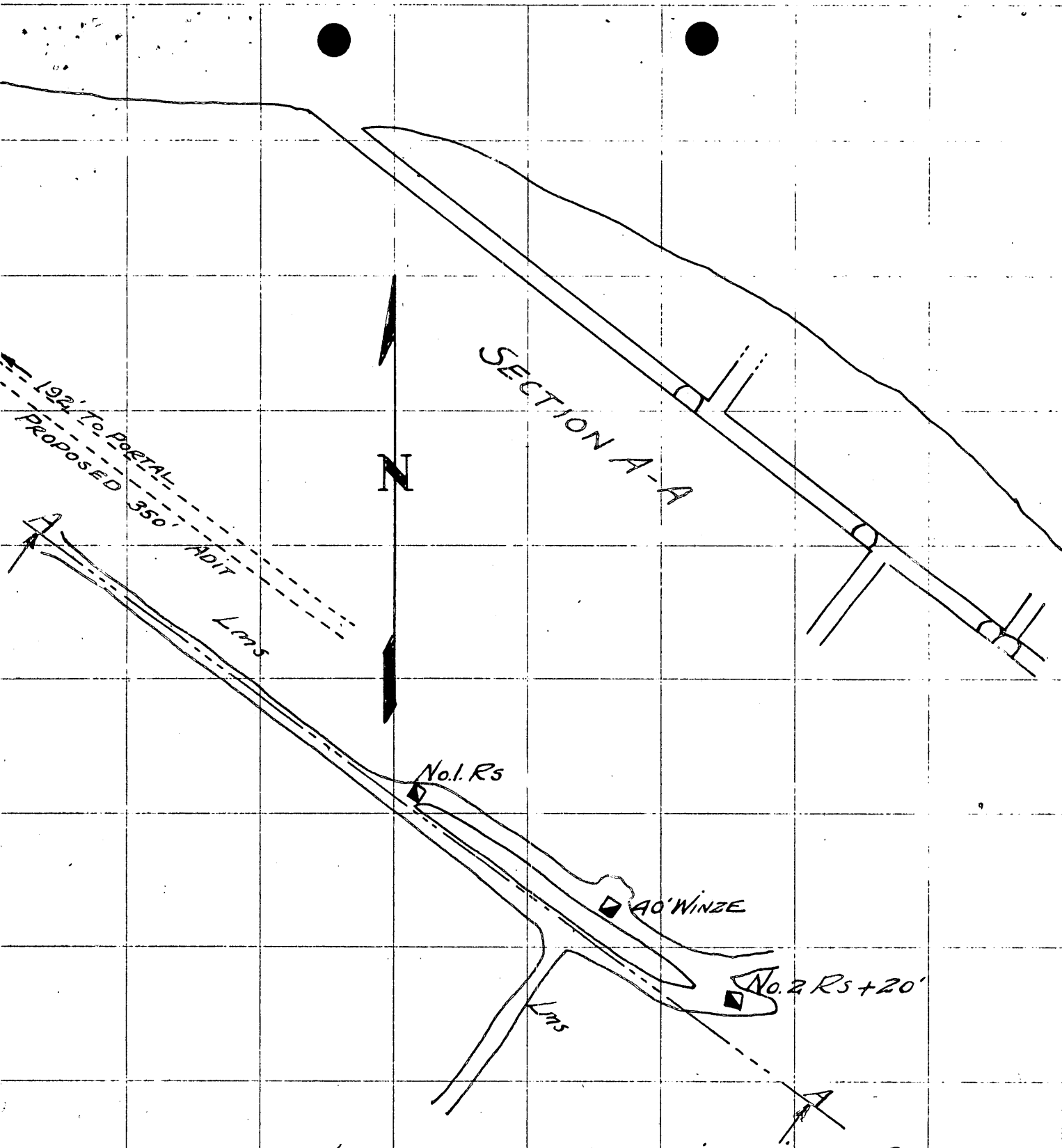
There are no blocked out ore reserves on the property. It is possible small ore sections may be developed by additional development work, but since the ore shoots generally are small, it is doubtful if the venture would be profitable.

PROPOSED EXPLORATION

The applicant has proposed to drift 350 feet on the vein at an elevation of 150 feet below the present tunnel, and to crosscut 100 feet. Since the ore sections mined were at or near the hanging wall side of the crushed zone, there appears to be no logical reason for crosscutting. In fact, the proposed new work would be about 57 feet short of reaching the projected position of the first ore shoot encountered in the No. 1 raise. In light of this disclosure, it is apparent, Mr. Roger's proposed exploration program was not based on reliable engineering data.

CONCLUSIONS

The ore shoots encountered in the Star Tungsten workings are limited in extent. The possibility that these sections will continue to a lower horizon is problematical. Since the proposed new work falls short of encountering a continuation of a known ore section, it is recommended that the DMEA do not enter into a contract with the applicant to do the proposed work.



WINNEMUCCA MOUNTAIN MINES CO.
STAR TUNGSTEN MINE
PERSHING COUNTY, NEVADA
SCALE 1 IN.=50 FT.

"ALBANENE" No. 195M K&E CO., N.Y.
REG. U.S. PAT. OFF.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 25 1953

400

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

August 21, 1953

Mr. Gus Rogers, Secretary-Treasurer
Winnemucca Mountain Mines Co.
P. O. Box 31
Winnemucca, Nevada

Re: Docket DMEA-3074 (Tungsten)
Star Tungsten Claims
Eldorado Canyon, Humboldt Range
Pershing County, Nevada

Dear Mr. Rogers:

Reference is made to your application for exploration assistance at your Star Tungsten Claims in Pershing County, Nevada. On July 1, 1953, we wrote you for additional data and maps needed to process the subject application.

In the interest of expediting the exploration program, it would be appreciated if you would promptly provide us with the required information.

Sincerely yours,

H. C. Miller

H. C. Miller
Executive Officer, DMEA Field Team
Region III

Copy to: DMEA, Washington, D.C.
E.H.Bailey, USGS
A.C.Johnson, Reno

AB

400

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

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

July 1, 1953

Mr. Gus Rogers
Secretary-Treasurer
Winnemucca Mountain Mines Co.
P. O. Box 31
Winnemucca, Nevada

Re: Docket DMEA-3074 (Tungsten)
Gus Rogers (Winnemucca Mountain Mines Co.)
Star Tungsten Claims
Eldorado Canyon, Humboldt Range
Pershing County, Nevada
Sec. 26, T. 31 N., R. 33 E.

Dear Mr. Rogers:

You were notified by Mr. C. O. Mittendorf, Administrator, Defense Minerals Exploration Administration, Washington, D. C., by letter dated June 23, 1953, that your application for assistance in exploring tungsten veins on your Star Tungsten claims in Pershing County, Nevada, has been referred to me for consideration and possibly a field examination.

In processing your application, we find that you did not submit any maps with your application and your property cannot be identified from the description given.

Will you, therefore, send us a map of your property properly tied in to some established reference point. We will also have to have a map or sketch showing the location of the proposed work, with special reference to existing workings and the outline of the orebody.

Upon receipt of the requested information, further consideration will be given to your application.

Sincerely yours,

H. C. MILLER

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Copy to: DMEA, Washington, D.C.
E. H. Bailey, USGS
A. C. Johnson, Reno

400

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6/23/53

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco, California

Re: Docket No. DMEA 3074 - Tungsten
Gus Rogers (Winnemucca Mountain Mines Co.)
Star Tungsten Claims
Eldoredo Canyon, Humboldt Range
Pershing County, Nevada
Sec. 26, T. 31., R. 33 E.

Dear Mr. Miller:

Reference is made to the subject application for exploration assistance which is being referred to your office for review and possibly a field examination.

The applicant has not submitted any maps with his application, and the property therefore cannot be identified from the description given.

The attached memorandum has been prepared by D. M. Lemmon, Geological Survey, and is enclosed for your information.

Sincerely yours,

/s/ Geo. C. Selfridge
Chairman, Operating Committee

APPROVED:

/s/ J H Hedges
Member, Bureau of Mines

/s/ A R Kinkel, Jr.
Member, Geological Survey

FARutledge:foc 6-19-53

cc: Docket
Code 400
Oper. Comm.
Adm. Reading File
FT. REG. III
R. W. Geehan, USBM
D. M. Lemmon, USGS

400

JUN 23 1953

Mr. Gus Rogers, Secy.-Treas.
Winnemucca Mountain Mines Co.
P. O. Box 31
Winnemucca, Nevada

Re: Docket No. DMEA 3074 - Tungsten
Gus Rogers (Winnemucca Mountain Mines Co.)
Star Tungsten Claims
Eldorado Canyon, Humboldt Range
Pershing County, Nevada
Sec. 26, T. 31 N., R. 33 E.

Dear Mr. Rogers:

Your application for assistance in exploring tungsten veins on your Star Tungsten claims in Pershing County, Nevada, has been reviewed by the Iron and Ferro-Alloys Division, DMEA, and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for further consideration and possibly a field examination.

Should a field examination be made of the property, any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

JHopkins:foc
6-19-53
cc: Docket
Code 400
FT. Reg. III
Oper. Comm.
Adm. Reading File
R. W. Geehan, USBM
D. M. Lemmon, USGS

IN REPLY REFER TO:

G-MD-DML

400

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

June 15, 1953

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 17 1953

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Exploration application $20,362 DMEA-3074
Gus Rogers (Winnemucca Mountain Mines Co. Tungsten
Star Tungsten claims
Eldorado Canyon, Humboldt Range
Pershing County, Nevada
Sec. 26, T. 31 N., R. 33 E.

I cannot identify the property from the description given, but guess it may have been known as the Lakeview in 1943. The applicant presents no maps and very likely has not surveyed the location of his proposed adit.

I suggest that the application be referred to the Field Team for examination of the property and recommendation about the competence of the operator and the merit of doing additional exploration.

D. M. Lemmon

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. DMEA-3074
Metal or Mineral
Date Received 6/9/53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: TUNGSTEN + GOLD
SERIAL NO. M.S. 2139
Gus Rogers Sec.-Treas.
WINNEMUCCA MOUNTAIN MINES COMPANY
Incorporated in State of Nevada Refer to 1st attach shee

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract The Mining Claims are: Star Tungsten
Star Tungsten No. 1, Star Tungsten No. 2, Star Tungsten No. 3
Located in Eldorado Cannon, Star Mining District, Pershing County, Nevada.
Located in Sect. 26, T.31, N.R. 33E

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Star Tungsten
Owners of the Mining Claims

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

(*e*) If you own the land, describe any liens or encumbrances on it no liens or encumbrances

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Book 14 Page 529
Book 7 Page 35 (Mining Record) Lovelock, Pershing County, Nev

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

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

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

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 9 1953

16—66551-1

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

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

(*c*) The work will start within 30 days and be completed within 6 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated June 1, 1953

Winnemucca Mountain Mines Company
(Applicant)

By Gus Rogers
Secretary

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

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

Winnemucca
America's Gold
Mining Center

Winnemucca Mountain Mines Co.

Box 31

Winnemucca, Nevada

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 9 1953

Item 1

(c)	President	O.R. Maunula	P.O. Box 628	Winnemucca
	Vice-Pres.	William D. Craft	Box 31	Winnemucca
	Sec.-Treas.	Gus Rogers	P.O. Box 31	Winnemucca

Item 4

(a) At present we are sinking a winze from the tunnel floor which is approximately 200 feet from the portal. We have completed approximately 30 feet. Drifts and crosscuts total 600 feet.Stope area 80 feet long 20 feet hight and 4 feet wide. 300 feet of laid mine rails which are being used to convey our ore from the winze.

The present equipment consists of one 100 horse power Continenal motor driving a Gardner-Denver 120 cubic foot compressor. one air receiver (3X6), a total of 200 feet of air line and water line, one Thor 75 mounted on a shell, one column, arm, and saddle, one jackhammer (Thor 45), 2- 16 foot roller bearing mine cars, 1 dolly, 50 pieces of drill steel, 10 carbide insert bits, 4 shavels, 8 picks, 1 blacksmith outfit. We are now installing a Continenal power unit hoist in the mine over the winze. Living quarters consists of 2 cabins located at the mine.

(B) This mine was worked during the 2nd Worlds War. The following statments are from our conversations with the men who said they worked there during this time. Ten railroad cars (50 ton) were shipped that had an average content of 1½ percent tungsten. 2 railroad cars had 12 percent content tungsten. One forty ton car had a content of 35 percent tungsten. We have mined and cleaned out the mine about 55 tons of ore which has a tungsten content of approximately ½ to 1 percent tungsten. We have removed about 25 tons of reject ore from the dump which ran approximately ½ of one percent. We are now using this ore for testing purposes to work out our flow sheet of our mill, which is located 55 miles East near Winnemucca. Transportation vie Highway 40.

(C) The vein structure is blue lime stone cut at right angles by metamorphic dike closely related to the granites. The vein structure is approximately 50 feet wide between walls of lime. The body of ore above has been mined out and we wish to develop the ore and vein system which will be approximately 150 feet lower than our present workings. We wish to drive a tunnel under this proven ore body to reach the minerization at a greater depth. This will give us the added advantage of being able to work this tunnel site whereas weather conditions during the winter prevent us from working the upper working the year around. The lower tunnel site would give us an ideal site for the

Winnemucca
America's Gold
Mining Center

Winnemucca Mountain Mines Co.

Box 31

Winnemucca, Nevada

Item 4 (C) continued.

exploration and development of the vein system which we could drift on under a known outcrops that carry tungsten for probably at least 1000 feet. The winze which is now furnishing ore for our mill is approximately 4½ feet wide and the tungsten content would run approximately 1½ percent. One of the objects of this tunnel is to enable us to mine this ore better profit and to open any new lenses of ore that we may find.

(D) The mine is located 3½ miles East of Highway 40. in Eldorado Cannon which is approximately 4 miles south-west of Humboldt House, Pershing County, Nevada. The road has been worked by bulldozer within the last month. We are 4½ miles from a loading platform of the Southern Pacific railroad. The tunnel site can be reached the year around.

(E) Manpower, materials and supplies are usually available in Lovelock and Winnemucca, Nevada. Mining equipment can usually be purchased in either of these towns or at Reno, Nevada.

Water is available for a 100 ton mill from the Eldorado Cannon by piping the water 1½ miles.

Power: A power line is located about 2 miles from the tunnel site. It is owned by the Western Utilities Company. For the present we are using Gasoline powered equipment.

Item 5 THE EXPLORATION PROJECT

(B) Refer to 4c.

(D) Mr. Gus Rogers has had 30 years of experience in mining.

Item 6
Estimate of costs:

350 feet of drift on vein @ $45.00 per ft. ------	$15750.00
100 feet of cross cut @ $45.00 per ft. ---------	4500.00
Road improvement 8 hours @ $14.00 per hour-----	120.00
Total	$20362.00

Government participation @ 75%----- $15271.50

Winnemucca
America's Gold
Mining Center

Winnemucca Mountain Mines Co.

Box 31

Winnemucca, Nevada

Item 6

(A) Independent contracts- partly- depending upon our operating condition at the time of the approval of the loan.

(B) Labor: 4 Miners @ $15.40 per day each
1 Miners helper @ $14.00 per day

Superintendent and Book keeper- $20.00 per day
Mining consultants: None.

(C) OPERATING MATERIALS AND SUPPLIES (ESTIMATE)

100 4X6X12 mine rail ties.----------	$200.00
100 lbs. mine rail spikes for 16 lb. rails----	16.00
Lagging 2000 feet 2X12X12 @ $125.00 per thousand--	250.00
3000 feet 8X8X14 @ $125.00 per thousand	375.00
50 boxes of 45% dynamite @ $12.00 per box --------	600.00
6000 feet of fuse @ $14.00 per thousand ---------	84.00
30 boxes of 8X blasting Caps @ $2.40 per box-----	72.00
40 pieces of Mine drill steel 150 feet of 1 inch	200.00
Gasoline 2100 gallons @ 30¢ per gallon----------	630.00
Lubricating oil 50 gallons @ $.42 per gallon---	21.00
20 squars of galvanized roofing @ $9.00 per sq.	180.00
40 detachable drill bits @ $12.50 per bit--------	500.00
2000 feet of 2X6 @ $125.00 per thousand------	250.00

(D) Operating equipment (Owned and furnished by applicant. This list consists of equipment that is not at present at the mine but at our other property. THIS IS IN NO WAY TO BE CONSIDERED APPLIABLE to our share of the loan. We ask only for upkeep and maintenance costs for the equipment in the following list.

1000 feet of 16 pound mine rails
500 feet of 2" Standard Black pipe
200 feet of 1" standard black pipe
1 EMICO No. 12 Mucker
2 Mine cars 22 cubic foot capacity

The following equipment is now at the mine and will be moved to the tunnel site.

1 Continenal Motor 100 horse power
1 Gardner-Denver Compressor 120 cubic foot
1 No. 75 Thor drill mounted on a shell
1 3 inch column, arm and saddle
100 feet of air hose
100 feet of water hose
1 pressure tank
1 air receiver tank (3X7)
1 Thor #45 Jackhammer (if needed)

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1953 JUN 4 AM 9:12

SAN FRANCISCO, CALIFORNIA

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FILE COPY
SURNAME:

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

Hopkins
Martin
Thayer
Deegan
Hodges
Pontbal
Jeffredge
Fr Jones

NOV 9 1953

Mr. Gus Rogers, Sec.-Treas.
Winnemucca Mountain Mines Co.
P. O. Box 31
Winnemucca, Nevada

Re: Docket No. DMEA 3074 - Tungsten
Winnemucca Mountain Mines Co.
Star Tungsten claims
Pershing County, Nevada

Dear Mr. Rogers:

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

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

Careful study of all our information, although noting a small amount of tungsten on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

CC: DOCKET
FT, REG. III
CODE 400
ADM. HEAD. FILE
OPER. COMM.
R. W. GORHAN, USBM
T. P. THAYER, USGS
11/4/53

JHopkins/ls

R.C.G. 11-9-53

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

MEMORANDUM

NOV 9 1953

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $20,362.00
Docket No. DMEA 3074 - Tungsten
Gus Rogers (Winnemucca Mountain Mines Co.)
Star Tungsten claims, Eldorado Canyon, Humboldt Range
Pershing County, Nevada

The denial of the subject application by this Division is based on the following information:

1. The applicant requested exploration assistance in the amount of $20,362.00 to explore for tungsten on the Star Tungsten claims, Pershing County, Nevada.

2. The tungsten mineralization occurs in a quartz-filled crushed zone 20 to 30 feet wide along a thrust fault following the contact between limestone and shales of probable Triassic age.

3. In addition to a few shallow surface workings along the outcrop, the vein is developed by an adit 300 feet in length from which two raises, a winze and crosscut have been extended.

4. The proposed exploration program included drifting 350 feet on the vein at an elevation of 150 feet below present tunnel, and crosscutting 100 feet.

5. The examination disclosed that the proposed tunnel would be 57 feet short of reaching the projected position of the first ore shoot encountered in the No. 1 Raise, and there appears to be no logical reason for crosscutting because the ore in the sections mined was found on or near the hanging wall side of the crushed zone.

6. The property is reported by one of the applicants to have produced the following tonnages during the World War II period:

500	tons	@	1.5	percent	WO_3
100	"	"	12.0	"	"
40	"	"	35.0	"	"

There are no records to substantiate this production, and another member of the Winnemucca Mountain Mine Company staff said one shipment of 40 tons of 2.0 percent tungsten ore was shipped during this period. The extent of the stoped areas would more closely substantiate the latter figures.

Recent production included about 60 tons from the mine workings and 30 tons sorted from the mine dump. This material was milled and yielded 1940 pounds of concentrates having a tungsten content of 57.0 to 60.0 percent WO_3.

7. Two samples were taken by the examining engineer and gave the following results:

Sample No.	Description	% WO_3
1608	Grab of muck at bottom of #2 raise	0.17
1609	Grab 5 tons in bin	0.51

Three ore shoots were developed in two raises and the winze in a distance of 150 feet. The ore occurs disseminated and as small crystal bunches in partially silicified limestone fragments. Thcikness of the ore shoots varies from 1 foot to 4 feet; width, 4 feet to 10 feet; and length, 20 to 40 feet. The shoots appear to be localized in the crushed zone at intersections with small cross faults.

8. The examining engineer concludes that the ore shoots in the Star Tungsten Workings are narrowly limited in extent, and the possibility that these sections will continue to a lower horizon is problematical. Therefore, it is recommended that the application of exploration assistance, Docket No. DMEA 3074, be denied.

9. The Commodity Divisions of the Geological Survey and Bureau of Mines concur with the recommendation.

W S Martin

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

FILE COPY
400 SURNAME:

Hyman
Leuhon

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

NOV 9 1953

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $20,362.00
Docket No. DMEA 3074 - Tungsten
Gus Rogers (Winnemucca Mountain Mines Co.)
Star Tungsten claims, Eldorado Canyon, Humboldt Range
Pershing County, Nevada

The denial of the subject application by this Division is based on the following information:

1. The applicant requested exploration assistance in the amount of $20,362.00 to explore for tungsten on the Star Tungsten claims, Pershing County, Nevada.

2. The tungsten mineralization occurs in a quartz-filled crushed zone 20 to 30 feet wide along a thrust fault following the contact between limestone and shales of probable Triassic age.

3. In addition to a few shallow surface workings along the outcrop, the vein is developed by an adit 300 feet in length from which two raises, a winze and crosscut have been extended.

4. The proposed exploration program included drifting 350 feet on the vein at an elevation of 150 feet below present tunnel, and crosscutting 100 feet.

5. The examination disclosed that the proposed tunnel would be 57 feet short of reaching the projected position of the first ore shoot encountered in the No. 1 Raise, and there appears to be no logical reason for crosscutting because the ore in the sections mined was found on or near the hanging wall side of the crushed zone.

6. The property is reported by one of the applicants to have produced the following tonnages during the World War II period:

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40	" "	35.0	"	"

There are no records to substantiate this production, and another member of the Winnemucca Mountain Mine Company staff said one shipment of 40 tons of 2.0 percent tungsten ore was shipped during this period. The extent of the stoped areas would more closely substantiate the latter figures.

Recent production included about 60 tons from the mine workings and 30 tons sorted from the mine dump. This material was milled and yielded 1940 pounds of concentrates having a tungsten content of 57.0 to 60.0 percent WO_3.

7. Two samples were taken by the examining engineer and gave the following results:

Sample No.	Description	% WO_3
1608	Grab of muck at bottom of #2 raise	0.17
1609	Grab 5 tons in bin	0.51

Three ore shoots were developed in two raises and the winze in a distance of 150 feet. The ore occurs disseminated and as small crystal bunches in partially silicified limestone fragments. Thickness of the ore shoots varies from 1 foot to 4 feet; width, 4 feet to 10 feet; and length, 20 to 40 feet. The shoots appear to be localized in the crushed zone at intersections with small cross faults.

8. The examining engineer concludes that the ore shoots in the Star Tungsten Workings are narrowly limited in extent, and the possibility that these sections will continue to a lower horizon is problematical. Therefore, it is recommended that the application of exploration assistance, Docket No. DMEA 3074, be denied.

9. The Commodity Divisions of the Geological Survey and Bureau of Mines concur with the recommendation.

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

CC: DOCKET
CODE 400
ADM. READ. FILE
OPER. COMMITTEE

JHopkins/ls 11/4/53

Docket

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

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

October 21, 1953

WSM

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

3074

Subject: Docket No. DMEA-3074 - Tungsten
Gus Rogers (Winnemucca Mountain Mines Company)
Star Tungsten Claims, Eldorado Canyon, Humboldt Range
Pershing County, Nevada

Reference is to your letter dated June 23, 1953, requesting a review and possibly a field examination of the subject property.

The property was examined on September 15, and four copies of a report entitled "DMEA-3074, Winnemucca Mountain Mines Co., Star Tungsten Mine, Pershing County, Nevada," by W. T. Benson, Mining Engineer, U. S. Bureau of Mines, dated October 2, 1953, are attached.

The examining engineer recommends denial of the applicant's request for a loan as the ore shoot encountered in the mine workings is limited in extent and its continuation to depth is problematical.

Under "Proposed Exploration," page 7 of the report, Benson states that the applicant's proposed new work would be about 57 feet short of reaching the projected position of the first ore shoot encountered in the No. 1 raise. I therefore wrote our Reno office to find out whether including 57 more feet of work in the applicant's proposal would change the examining engineer's recommendations.

I now have a reply from Reno telling me that even with the 57 feet of additional work, the property does not warrant the request.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Cleared OC
10-30-53
JAR

Copy to: E. H. Bailey, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

gcl
11/6/53

DMEA-3074, WINNEMUCCA MOUNTAIN MINES CO.

STAR TUNGSTEN MINE

PERSHING COUNTY, NEV.

W. T. BENSON, MINING ENGINEER
U. S. BUREAU OF MINES

OCTOBER 2, 1953

REPORT OF EXAMINATION

Docket No.: DMEA-3074 (Tungsten)

Name and address of applicant: Gus Rogers, P. O. Box 31, Winnemucca, Nev.

Name and location of property: Winnemucca Mountain Mines Co., Star Tungsten Mine Pershing County, Nev.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Mr. Gus Rogers, P. O. Box 31, Winnemucca, Nevada has applied to the Defense Minerals Exploration Administration for government assistance in a $20,362.00 program to explore downward continuations of ore sections mined in the present mine workings on the Tungsten Star group of 4 claims, situated in the Imlay Mining District, Pershing County, Nev.

A field team examination was suggested by the Executive Officer, DMEA Field Team, Region III to determine whether the property had sufficient merit to justify the project proposed by the applicant and to obtain other necessary data. Accordingly, an examination was made by an engineer[1/] of the Bureau of Mines on Sept. 15, 1953.

The applicant proposed to explore a silicified shear zone by drifting 350 feet at an elevation of 150 feet below the present tunnel level, and to crosscut 100 feet, in order to explore possible down-

1/ W. T. Benson.

ward continuations of ore sections that have been mined above and below the tunnel level.

The ore shoots, encountered in the Star Tungsten workings, are limited in extent. The possibility that these ore sections will continue to a lower horizon is problematical. Since the proposed new work falls short of encountering a continuation of a known ore section, it is recommended that the DMEA do not enter into a contract with the applicant to do the proposed work.

INTRODUCTION

In connection with an application for exploration assistance, (docket DMEA-3074), the Star Tungsten claims of the Winnemucca Mountain Mines Co. was visited on Sept. 15, 1953 by an engineer of the Bureau of Mines for the purpose of inspecting development openings that pertain to Mr. Gus Roger's application for aid in exploring tungsten showings on the Star Tungsten group of claims.

NAME AND LOCATION OF PROPERTY

The Winnemucca Mountain Mines Co., controlled by O. R. Maunula, William D. Craft, and Gus Rogers, P. O. Box 31, Winnemucca, Nev., are the owners of the Star Tungsten group of 4 unpatented lode mining claims, situated in the Imlay Mining District, sec. 26, T. 31 N., R. 33 E., Pershing County, Nev., about 32 miles north of Lovelock, Nev., the supply center on the Southern Pacific Railroad, and 47 miles southwest of Winnemucca, the site of the mill.

To reach the property from Lovelock, Highway 40 is traveled north 28 miles to the Eldorado Canyon turnoff. From this point a poor mountain road is followed east 4 miles to the property which is about a mile above the mouth of the canyon.

COMPETNECY OF APPLICANT

Mr. Gus Rogers has been connected with mining operations on Winnemucca Mountain for the past twenty years, in an operating capacity. His principal activities have been of a promotional nature. While adept in securing operational funds, his mining ventures, in general, have not been profitable from the standpoint of the production of ore. However, he may be competent to supervise exploratory operations.

HISTORY

The Imlay District in which the property is located was formerly a moderate producer of gold from the Standard mine, about three miles south.

According to Mr. Rogers, the Star Tungsten property produced 500 tons that averaged 1.5 percent tungsten, 100 tons of 12.0 percent tungsten ore, and 40 tons that averaged 35.0 percent tungsten during the World War II period. There are no records to substantiate this production, and another member of the staff said one shipment of 40 tons of 2.0 percent ore was shipped during this period. The extent of the stoped areas would more closely substantiate the latter figures.

1940
.6
1164#
90 tons .582 Tons
0.65 %

Recently about 60 tons were obtained from the mine workings and 30 tons from sorting the mine dump. This material, treated in the mill at Winnemucca, produced 1,940 pounds of concentrates having a tungsten content of 57.0 to 60.0 percent WO_3.

PHYSICAL FEATURES

The claims are located about a mile above the mouth of Eldorado Canyon on the west flank of the Humboldt Range in an area of moderately steep topography at an altitude of about 5,500 feet. U.S. Highway 40 passes 4 miles west of the property. Dirt roads, which are passable except for short periods during the winter months, extend from the highway to the mine.

Climate in the area is semi-arid with long hot summers and moderately cold winters. Precipitation occurs usually as snow with occasional rains during the spring and fall months. Winter storms are sometimes severe enough to stop or impede access to the property for a week or so at a time. A scattered growth of juniper and sagebrush constitute the vegetation on the property. Water for mine and domestic use is supplied in drums from Humboldt House, four miles north.

Transmitted electric power is not available, and fuel oil for generation of power is trucked from Lovelock, 32 miles south.

HOUSING FACILITIES

Two small frame houses on the property are sufficient to accommodate a crew of four to six men.

EQUIPMENT

Equipment on the property includes a Continental gasoline motor, belt connected to 120-cubic foot Gardner-Denver compressor, a Thor No. 75 compression drill mounted on a shell, a 3-inch column arm and saddle, 100 feet air hose, 100 feet water hose, pressure tank, air receiver tank (3 x 7), small blacksmith outfit and a limited assortment of hand tools.

DEVELOPMENT

In addition to a few shallow surface workings along the outcrop, the property is developed by an adit 300 feet in length, from which two raises, a winze and a crosscut have been extended (see sketch attached).

GEOLOGY

The Imlay District is underlain by sedimentary rocks of probable Triassic age., which are steeply tilted and cut by faults in several systems. The sedimentary rocks consist of limestone and shale, which crop out in belts trending N. 15° W. and dip 52° West. The shales are thin-bedded, light to dark brown or green and locally contain sandy layers. The limestones are light gray to blue, thin- to medium-bedded and in some places are shaly parted.

The rocks have been cut by two sets of faults. One set consists of a thrust fault along the contact between shale and limestone which strikes with the formations and dips steeply west. The thrust fault and the limestones in the vicinity of the mine workings are cut by an east-

ward striking fracture of small displacement that dips south. This fracture, 20 to 30 feet wide, is considerably crushed and filled with quartz.

ORE BODIES

The tungsten mineralization occurs in the quartz-filled crushed zone as irregular pipe-like shoots. In a distance of 150 feet, three such shoots were developed in two raises and the winze. In these shoots, the ore thickness varied from a foot to 4 feet, 4 to 10 feet wide, and 20 to 40 feet long. In these shoots the tungsten, as scheelite, occurred disseminated and as small crystal bunches in partially silicified limestone fragments cemented by quartz as a binding media.

The ore bodies appear to be localized in the fractured zone at its intersection with small cross faults, usually near the hanging wall side of the crushed zone.

SAMPLING

In order to determine the approximate grade of the ore being mined and available for shipment, samples were taken of ore broken in the mine and from ore in the bin. Assay results were as follows:

Sample No.	%, WO_3	Description
1608	0.17	Grab of muck bottom of No. 2 raise.
1609	0.51	Grab 5 tons ore in bin.

ORE RESERVES

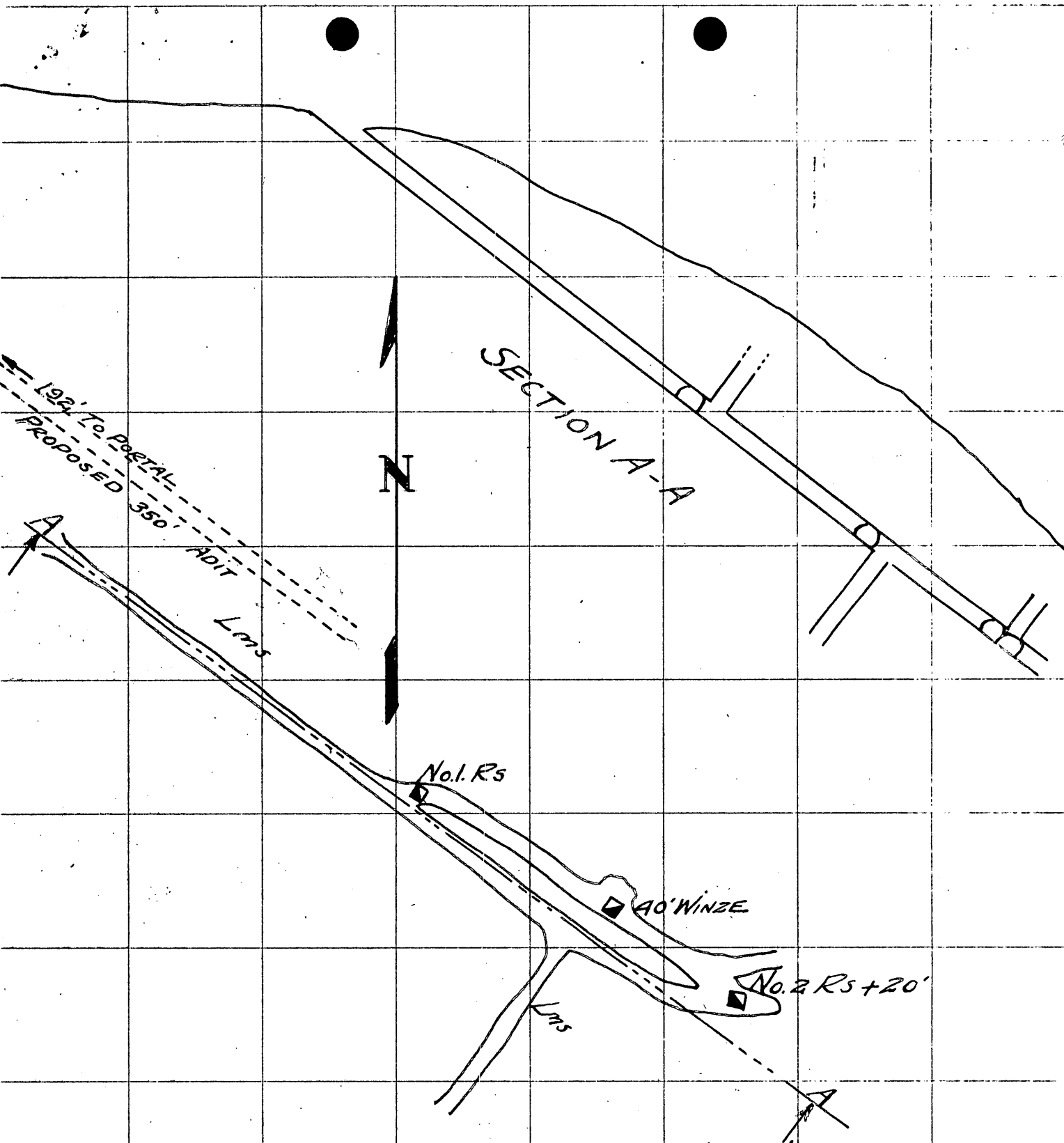
There are no blocked out ore reserves on the property. It is possible small ore sections may be developed by additional development work, but since the ore shoots generally are small, it is doubtful if the venture would be profitable.

PROPOSED EXPLORATION

The applicant has proposed to drift 350 feet on the vein at an elevation of 150 feet below the present tunnel, and to crosscut 100 feet. Since the ore sections mined were at or near the hanging wall side of the crushed zone, there appears to be no logical reason for crosscutting. In fact, the proposed new work would be about 57 feet short of reaching the projected position of the first ore shoot encountered in the No. 1 raise. In light of this disclosure, it is apparent, Mr. Roger's proposed exploration program was not based on reliable engineering data.

CONCLUSIONS

The ore shoots encountered in the Star Tungsten workings are limited in extent. The possibility that these sections will continue to a lower horizon is problematical. Since the proposed new work falls short of encountering a continuation of a known ore section, it is recommended that the DMEA do not enter into a contract with the applicant to do the proposed work.



WINNEMUCCA MOUNTAIN MINES CO.
STAR TUNGSTEN MINE
PERSHING COUNTY, NEVADA
SCALE 1 IN.=50 FT.

"ALBANENE" No. 195M K&L CO., N.Y.

FILE COPY
SURNAME:

400

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

JUN 23 1953

Mr. Gus Rogers, Secy.-Treas.
Winnemucca Mountain Mines Co.
P. O. Box 31
Winnemucca, Nevada

Re: Docket No. DMEA 3074 - Tungsten
Gus Rogers (Winnemucca Mountain Mines Co.)
Star Tungsten Claims
Eldorado Canyon, Humboldt Range
Pershing County, Nevada
Sec. 26, T.31 N., R. 33 E.

Dear Mr. Rogers:

Your application for assistance in exploring tungsten veins on your Star Tungsten claims in Pershing County, Nevada, has been reviewed by the Iron and Ferro-Alloys Division, DMEA, and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for further consideration and possibly a field examination.

Should a field examination be made of the property, any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

JHopkins:foc
6-19-53
cc: Docket
Code 400
FT. Reg. III
Oper. Comm.
Adm. Reading File
R. W. Geehan, USBM
D. M. Lemmon, USGS

6-23-53

FILE COPY
SURNAME:

400

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

Hopkins
Rutledge
Martin
Kellogg
Selfridge
Stanton

JUN 23 1953

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco, California

Re: Docket No. DMEA 3074 - Tungsten
Gus Rogers (Winnemucca Mountain Mines Co.)
Star Tungsten Claims
Eldorado Canyon, Humboldt Range
Pershing County, Nevada
Sec. 26, T. 31 N., R. 33 E.

Dear Mr. Miller:

Reference is made to the subject application for exploration assistance which is being referred to your office for review and possibly a field examination.

The applicant has not submitted any maps with his application, and the property therefore cannot be identified from the description given.

The attached memorandum has been prepared by D. M. Lemmon, Geological Survey, and is enclosed for your information.

Sincerely yours,

George C. Selfridge

(JHB)

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines (JHB)

A. R. Kinkel, Jr.

Member, Geological Survey (JHB)

FARutledge:foc 6-19-53

cc: Docket
Code 400
Oper. Comm.
Adm. Reading File
FT. REG. III
R. W. Geehan, USBM
D. M. Lemmon, USGS

6-23-53

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

Docket

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

July 1, 1953

Mr. Gus Rogers
Secretary-Treasurer
Winnemucca Mountain Mines Co.
P. O. Box 31
Winnemucca, Nevada

Re: Docket DMEA-3074 (Tungsten)
Gus Rogers (Winnemucca
Mountain Mines Co.)
Star Tungsten Claims
Eldorado Canyon, Humboldt Range
Pershing County, Nevada
Sec. 26, T. 31 N., R. 33 E.

WSM

Dear Mr. Rogers:

You were notified by Mr. C. O. Mittendorf, Administrator, Defense Minerals Exploration Administration, Washington, D. C., by letter dated June 23, 1953, that your application for assistance in exploring tungsten veins on your Star Tungsten claims in Pershing County, Nevada, has been referred to me for consideration and possibly a field examination.

In processing your application, we find that you did not submit any maps with your application and your property cannot be identified from the description given.

Will you, therefore, send us a map of your property properly tied in to some established reference point. We will also have to have a map or sketch showing the location of the proposed work, with special reference to existing workings and the outline of the orebody.

Upon receipt of the requested information, further consideration will be given to your application.

Sincerely yours,

N. C. MILLER

N. C. Miller
Executive Officer
DMEA Field Team, Region III

Copy to: DMEA, Washington, D.C.
E. H. Bailey, USGS
A. C. Johnson, Reno

Copy retained MOQ

Docket

Department of the Interior
Defense Minerals Administration
RECEIVED
AUG 24 1953

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

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

August 21, 1953

Mr. Gus Rogers, Secretary-Treasurer
Winnemucca Mountain Mines Co.
P. O. Box 31
Winnemucca, Nevada

Re: Docket DMEA-3074 (Tungsten)
Star Tungsten Claims
Eldorado Canyon, Humboldt Range
Pershing County, Nevada

Dear Mr. Rogers:

Reference is made to your application for exploration assistance at your Star Tungsten Claims in Pershing County, Nevada. On July 1, 1953, we wrote you for additional data and maps needed to process the subject application.

In the interest of expediting the exploration program, it would be appreciated if you would promptly provide us with the required information.

Sincerely yours,

H. C. Miller

H. C. Miller
Executive Officer, DMEA Field Team
Region III

Copy to: DMEA, Washington, D.C.
E.H.Bailey, USGS
A.C.Johnson, Reno

IN REPLY REFER TO:

G-MD-DML

Docket

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

June 15, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 17 1953

WSM

Memorandum

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Exploration application $20,362 DMEA-3074
Gus Rogers (Winnemucca Mountain Mines Co. Tungsten
Star Tungsten claims
Eldorado Canyon, Humboldt Range
Pershing County, Nevada
Sec. 26, T. 31 N., R. 33 E.

I cannot identify the property from the description given, but guess it may have been known as the Lake~~new~~ View in 1943. The applicant presents no maps and very likely has not surveyed the location of his proposed adit.

I suggest that the application be referred to the Field Team for examination of the property and recommendation about the competence of the operator and the merit of doing additional exploration.

D. M. Lemmon

D. M. Lemmon

Copy retained 400

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

June 11, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

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

DMEA - 3074 Winnemucca Mountain Mines Co.

ROBERT E. ADAMS

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

38226

June 11, 1953

Mr. Gus Rogers, Secretary
Winnemucca Mountain Mines Co.
Box 31
Winnemucca, Nevada

Subject: DMEA-3074
Re: Exploration Assistance
Star Tungsten

My dear Mr. Rogers:

The receipt of your application dated June 1, 1953, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3074 and referred to the Iron And Ferro-Alloys Division.

Kindly refer to DMEA-3074 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operations Control
and Statistics Division

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

Office of
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

June 5, 1953

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for Exploration Loan - Tungsten - Winnemucca Mountain Mines Company, Gus Rogers, Secretary-Treasurer

Attached are three of the four copies of an application for an exploration loan, costing $20,362.00, submitted by the subject company. The application was received in this office June 4, 1953.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: E. H. Bailey, USGS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 9 1953

Office of
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

June 5, 1953

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for Exploration Loan - Tungsten - Winnemucca Mountain Mines Company, Gus Rogers, Secretary-Treasurer

Attached are three of the four copies of an application for an exploration loan, costing $20,362.00, submitted by the subject company. The application was received in this office June 4, 1953.

H. C. MILLER

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: E. H. Bailey, USGS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 9 1953

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved. Budget Bureau No. 42-R1030.2

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 9 1953

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

Not to be filled in by applicant

Docket No. DMEA-3074
Metal or Mineral
Date Received 6/9/53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: TUNGSTEN + GOLD SERIAL No. M.S.2139

Gus Rogers Sec.-Treas.
WINNEMUCCA MOUNTAIN MINES COMPANY
Incorporated in State of Nevada Refer to 1st attach shee

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract The Mining Claims are: Star Tungsten No. 1
Star Tungsten No. 1, Star Tungsten No. 2, Star Tungsten No. 3
Located in Eldorado Cannon, Star Mining District, Pershing County, Nevada.
Located in Sect. 26, T.31, N.R. 33E

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

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

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

(*e*) If you own the land, describe any liens or encumbrances on it no liens or encumbrances

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Book 14 Page 529
Book 7 Page 35 (Mining Record) Lovelock, Pershing County, Nev

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

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

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

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

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

5. *The exploration proj*[illegible]—(*a*) State the mineral or minerals for whic[illegible]u wish to explore Tungsten

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

(*c*) The work will start within 30 days and be completed within 6 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated June 1, 1953

Winnemucca Mountain Mines Company
(Applicant)

By Gus Rogers
Secretary

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

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

Winnemucca
America's Gold
Mining Center

Winnemucca Mountain Mines Co.

Box 31

Winnemucca, Nevada

Item 1

(c)	President	O.R. Maunula	P.O. Box 628	Winnemucca
	Vice-Pres.	William D. Craft	Box 31	Winnemucca
	Sec.-Treas.	Gus Rogers	P.O. Box 31	Winnemucca

Item 4

(a) At present we are sinking a winze from the tunnel floor which is approximately 200 feet from the portal. We have completed approximately 30 feet. Drifts and crosscuts total 600 feet. Stope area 80 feet long 20 feet hight and 4 feet wide. 300 feet of laid mine rails which are being used to convey our ore from the winze.

The present equipment consists of one 100 horse power Continenal motor driving a Gardner-Denver 120 cubic foot compressor. one air receiver (3X6), a total of 200 feet of air line and water line, one Thor 75 mounted on a shell, one column, arm, and saddle, one jackhammer (Thor 45), 2- 16 foot roller bearing mine cars, 1 dolly, 50 pieces of drill steel, 10 carbide insert bits, 4 shavels, 8 picks, 1 blacksmith outfit. We are now installing a Continenal power unit hoist in the mine over the winze. Living quarters consists of 2 cabins located at the mine.

(B) This mine was worked during the 2nd Worlds War. The following statments are from our conversations with the men who said they worked there during this time. Ten railroad cars (50 ton) were shipped that had an average content of 1½ percent tungsten. 2 railroad cars had 12 percent content tungsten. One forty ton car had a content of 35 percent tungsten. We have mined and cleaned out the mine about 55 tons of ore which has a tungsten content of approximately ½ to 1 percent tungsten. We have removed about 25 tons of reject ore from the dump which ran approximately ½ of one percent. We are now using this ore for testing purposes to work out our flow sheet of our mill, which is located 55 miles East near Winnemucca. Transportation vie Highway 40.

(C) The vein structure is blue lime stone cut at right angles by metamorphic dike closely related to the granites. The vein structure is approximately 50 feet wide between walls of lime. The body of ore above has been mined out and we wish to develop the ore and vein system which will be approximately 150 feet lower than our present workings. We wish to drive a tunnel under this proven ore body to reach the minerization at a greater depth. This will give us the added advantage of being able to work this tunnel site whereas weather conditions during the winter prevent us from working the upper working the year around. The lower tunnel site would give us an ideal site for the

Winnemucca
America's Gold
Mining Center

Winnemucca Mountain Mines Co.

Box 31

Winnemucca, Nevada

Item 4 (C) continued.

exploration and development of the vein system which we could drift on under a known outcrops that carry tungsten for probably at least 1000 feet. The winze which is now furnishing ore for our mill is approximately 4½ feet wide and the tungsten content would run approximately 1½ percent. One of the objects of this tunnel is to enable us to mine this ore better profit and to open any new lenses of ore that we may find.

(D) The mine is located 3½ miles East of Highway 40. in Eldorado Cannon which is approximately 4 miles south-west of Humboldt House, Pershing County, Nevada. The road has been worked by bulldozer within the last month. We are 4½ miles from a loading platform of the Southern Pacific railroad. The tunnel site can be reached the year around.

(E) Manpower, materials and supplies are usually available in Lovelock and Winnemucca, Nevada. Mining equipment can usually be purchased in either of these towns or at Reno, Nevada.

Water is available for a 100 ton mill from the Eldorado Cannon by piping the water 1½ miles.

Power; A power line is located about 2 miles from the tunnel site. It is owned by the Western Utilities Company. For the present we are using Gasoline powered equipment.

Item 5 THE EXPLORATION PROJECT

(B) Refer to 4c.

(D) Mr. Gus Rogers has had 30 years of experience in mining.

Item 6
Estimate of costs:

350 feet of drift on vein @ $45.00 per ft. ------	$15750.00
100 feet of cross cut @ $45.00 per ft. ---------	4500.00
Road improvement 8 hours @ $14.00 per hour-----	120.00
Total	$20362.00

Government participation @ 75%----- $15271.50

Winnemucca
America's Gold
Mining Center

Winnemucca Mountain Mines Co.

Box 31

Winnemucca, Nevada

Item 6

(A) Independent contracts- partly- depending upon our operating condition at the time of the approval of the loan.

(B) Labor: 4 Miners @ $15.40 per day each
1 Miners helper @ $14.00 per day

Superintendent and Book keeper- $20.00 per day
Mining consultants: None.

(C) OPERATING MATERIALS AND SUPPLIES (ESTIMATE)

100 4X6X12 mine rail ties.----------	$200.00
100 lbs. mine rail spikes for 16 lb. rails----	16.00
Lagging 2000 feet 2X12X12 @ $125.00 per thousand--	250.00
3000 feet 8X8X14 @ $125.00 per thousand	375.00
50 boxes of 45% dynamite @ $12.00 per box --------	600.00
6000 feet of fuse @ $14.00 per thousand ---------	84.00
30 boxes of 8X blasting Caps @ $2.40 per box-----	72.00
40 pieces of Mine drill steel 150 feet of 1 inch	200.00
Gasoline 2100 gallons @ 30¢ per gallon----------	630.00
Lubricating oil 50 gallons @ $.42 per gallon---	21.00
20 squars of galvanized roofing @ $9.00 per sq.	180.00
40 detachable drill bits @ $12.50 per bit--------	500.00
2000 feet of 2X6 @ $125.00 per thousand------	250.00

(D) Operating equipment (Owned and furnished by applicant. This list consists of equipment that is not at present at the mine but at our other property. THIS IS IN NO WAY TO BE CONSIDERED APPLIABLE to our share of the loan. We ask only for upkeep and maintenance costs for the equipment in the following list.

1000 feet of 16 pound mine rails
500 feet of 2" Standard Black pipe
200 feet of 1" standard black pipe
1 EMICO No. 12 Mucker
2 Mine cars 22 cubic foot capacity

The following equipment is now at the mine and will be moved to the tunnel site.

1 Continenal Motor 100 horse power
1 Gardnar-Denver Compressor 120 cubic foot
1 No. 75 Thor drill mounted on a shell
1 3 inch column, arm and saddle
100 feet of air hose
100 feet of water hose
1 pressure tank
1 air receiver tank (3X7)
1 Thor #45 Jackhammer (if needed)