March 24, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Denial of exploration project in the amount of $15,000.00
Docket No. DMA 1764X - Nickel
Shamrock Silver-Lead Mine
Ferry County, Washington

The subject application was denied by this Division for the following reasons:

1. The applicant has no funds.

2. The applicant is incompetent.

3. The deposit is very low grade.

4. The questionable worth of mere surface information.

A costlier project to secure information on the primary mineralization under the direction of a competent staff might be considered favorably.

George C. Selfridge

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

GCSelfridge'lm
3/24/52

cc: Admn. Reading File
Docket
G. C. Selfridge

File 1764

February 4, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Denial of exploration project in the amount of $100,000.00
Docket No. DMA 1764X - Tungsten
Peter Bruce Mining Company
Fremont County, Wyoming

The subject application was denied by this Division for the following reasons:

1. Small and discontinuous occurrences of scheelite. Geologically, there is very little reason to expect a significant discovery would be made.

2. Results of previous examinations of the deposits by the U.S. Geological Survey and the U.S. Bureau of Mines were unfavorable.

3. No new discoveries have been made in the area since careful examinations were made in 1942-43 by the U.S. Geological Survey and the U.S. Bureau of Mines.

4. The tungsten deposits are small and are probably not commercial.

5. The application is apparently for production and is not applicable to the exploration program.

6. Applicant states that he is unable to concentrate his ore unless the Government helps put up such a concentration plant.

GGGentry'lm
2/4/52

cc: Admn. Reading File
Docket
G. C. Selfridge
✓ G. G. Gentry

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

FEB 5 1952

file
1764

Mr. Morris Cline, President
Peter Bruce Mining Company
P.O. Box 627
Riverton, Wyoming

Re: Docket No. DMA 176AX - Tungsten
Peter Bruce Mining Company
Fremont County, Wyoming

Dear Mr. Cline:

Your application for aid for an exploration project and other data relating to your application available to us in Washington have been carefully reviewed.

This information, while noting a small amount of marginal ore on your property, indicates that, geologically, there is little probability of making a significant mineral discovery. We regret, therefore, to inform you that your application is denied.

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

Sincerely yours,

C. O. Mittender

Acting Administrator
Defense Minerals Exploration
Administration

OOCentry'lm
2/4/52

cc: Admn. Reading File
Docket
R. W. Geehan, USBM
D. N. Lemmon, USGS
Field Team Reg. IV
G. C. Selfridge
G. G. Centry

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

G-MD-DML

File

January 31, 1952

Memorandum

To: George Selfridge, DMEA

From: D. M. Lemmon, U.S.G.S.

Subject: Loan application $100,000 DMA 1764-X Tungsten
Peter Bruce Mining Co.
(Morris Kline, Pres.)
P.O. Box 629
Riverton, Wyoming

Property: The following 16 claims in secs. 21, 22, 23, 26, 27, and 28, T. 40 N., R. 93 W., 6 P.M.
Copper Mountain Mining District
Fremont County, Wyoming
Quien Sabe Nos. 1 and 2,
Hoodoo and Hoodoo No. 2
Double Eagle Nos. 1 and 2
Searchlight Nos. 1 and 2
Jay and Kay Nos. 1 and 2
Rainbow Nos. 1, 2, and 3
Aurora Nos. 1, 2, and 3

Proposal: The expenditure of $100,000 over a two-year period as follows:

a. Labor, 8 men at $12 per day, 6 day week, 8 months per yr., 2 yrs.	$ 36,864
b. Supervision - One superintendent	10,000
c. Repairs	3,000
d. New buildings	5,000
e. Equipment: Compressor, Jack hammer, drills, etc.	3,000
Stationary engine	1,000
Jeep	1,500
Truck (2½ ton)	3,500
Tractor	4,000
Crusher, 25-ton	10,000
Crusher, 1-ton	1,500
f. Rental equipment	1,000
g. Supplies	7,500
h. Power and utilities	3,000
Total	$ 90,864
Contingencies	9,136
Grand Total	$100,000

The applicant gives no description of the project other than to state that he will mine tungsten, beryl, feldspar and tantalum. He states that there is an "unlimited quantity of ore running in content from one to five percent" of WO_3. No plan is presented for concentration and marketing the ore; a request is made for a government-owned ore purchase depot nearby.

Past work by Geological Survey:

In 1942 S. W. Nebbe mapped the Remar and Hoodoo Creek groups of tungsten claims and examined other scheelite occurrences in the vicinity. In 1943, geology was reviewed of properties that were explored by the Bureau of Mines or others. The mapping showed that the scheelite prospects are located in parts of a band of metamorphic rocks 3.5 miles long and 0.5 to 1.0 mile wide. The metamorphic rocks, consisting of schist and gneiss, are cut by basic dikes and by granite pegmatite. Most of the scheelite is in lenses of epidote-zoisite-quartz-garnet rock in gray schist, but some of it is in quartz veins and in dark green or black schist. All the deposits are small and discontinuous, and none of them are extensively developed.

The content of WO_3 in ore that can be sorted or mined selectively is fairly high. Five ore shipments aggregating 176 tons were made in 1942-44 to the ore purchase depot of Metals Reserve Co. at Salt Lake City. Content of WO_3 in the shipments ranged from 1 to 3 percent and averaged 2.2 percent. None of this ore came from the Peter Bruce property.

Inasmuch as the deposits are small and scattered, the cost of exploration and mining is high per ton of ore, and offsets the favorable grade of ore. A sufficient tonnage to justify a mill in the district was not found, and marketing of crude ore was not profitable because of high cost of production and cost of shipment to custom mills in Colorado or Utah.

Tantalite and Beryl

The tantalite and beryl pegmatites were examined August 4-28, 1942 by J. D. Love and J. B. Hanley (U.S.G.S. Prof. Paper 227, pp. 109-112, 1950). They mapped the Whippet No. 8 prospect which is the same as the Quinn Sabe and Double Eagle claims shown on Kline's claim map. They state that these pegmatites contain the largest quantity of tantalite in the region, and also contain beryl. At least 250 pounds of tantalite were sold from them. In the principal pegmatite, the part that contains the tantalite is about 200 feet long and as much as 2 feet thick. The tantalite content, based on visual estimates and past production, probably is 1 pound of tantalite in each ton of rock.

The tantalite and beryl content of these pegmatites is insufficient to make ore.

Past work by the Bureau of Mines:

The Bureau of Mines in 1942-43 drove an adit 109 feet on the Comet claim, sampled the Stardust claim, and examined other deposits in the region. The reserve of tungsten ore in 15 prospects in the district was estimated at 7,000 tons averaging 0.9 percent of WO_3 and ranging in grade from 0.5 to 1.8 percent (War Minerals Report 338, 9 pp., 1945). Details of the work on the Comet and Stardust claims are given in R.I. 4629 (Investigation of Remar Tungsten Deposits, Fremont County, Wyoming, 9 pp., January 1950).

According to War Minerals Report 338, p. 8, the estimated ore reserve on the Quien Sabe claims (nucleus of the group now held by Mr. Kline as the Peter Bruce Mining Co.) amounts to 170 tons averaging 1.0 percent of WO_3, distributed in 4 outcrops with a total length of 100 feet and an average width of 2 feet. The ore was projected to a depth of 10 feet beneath the outcrops.

Conclusions:

1) The tungsten prospects of the Copper Mountain district have possibilities for production of only small amounts of tungsten. Only small-scale exploration projects might be warranted because the expectable targets are small. The principal occurrences are not on the Peter Bruce property.

2) Careful examination by the Geological Survey of the claims now held by the Peter Bruce Mining Co. showed that the tantalite and beryl pegmatites are submarginal. The tungsten deposits are small and consequently probably non-commercial. The tungsten mineralization is not in pegmatite, but is in entirely separate deposits which require separate mining operations.

3) The claims held by the Peter Bruce Mining Co. are staked over older locations and may not be valid.

4) The application is for a production loan, not exploration.

5) The applicants are inexperienced in mining and have no competent mining adviser. The application is poorly prepared from the viewpoint of outlining a mining project.

6) The applicants failed to reply satisfactorily to Mr. Holderer's letter of July 9 requesting a definite exploration proposal.

7) No new discoveries have been made in the area since careful examinations were made in 1942-43 by the Geological Survey and Bureau of Mines. Another field referral is unnecessary.

Recommendation

It is recommended that the application be denied because no valid exploration project was submitted and because results of previous examinations of the deposits by the Geological Survey and Bureau of Mines were unfavorable.

DMLemmon:gt

Copies to: Director's read. file
Branch read. file
Jim Norton

File

Re: Docket No. DWA 1764-Transition
Peter Bruce Pringle
Fremont County, Wyoming

2/1/52

DENIED

G.G.

File

G-MD-DML

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

January 31, 1952

Memorandum

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Don Lemmon

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