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400

MAR 2 1 1955

Messrs. Percy Hahl and Marion Hall
Box 722
Ely, Nevada

Re: Docket No. DMEA 3520 - Tungsten
Piedmont Mine
White Pine County, Nevada

Gentlemen:

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

Projects approved by the Defense Minerals Exploration Administration, must, in its judgment, show definite promise of finding materials of an 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 tonnage of tungsten ore of a moderate grade in small ore shoots, indicates to us that the probability of disclosing further minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, therefore, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

TLChapman:fec
3-17-55
cc to: Docket
Code 400
Adm. Reading File
Operating Committee
FT. REG. II
Robert Holliday, USBM
Thor H. Kiilsgaard, USGS

March 17, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $15,000.00
Docket No. DMEA 3528 - Tungsten
Percy Hahl and Marion Hall, Partners
Piedmont Mine
White Pine County, Nevada

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

1. The applicant requested exploration assistance in the amount of $15,000.00 to explore for tungsten in a quartz vein by diamond drilling.

2. The property is held by the applicant by right of location and completed assessment work, and consists of 7 lode mining claims in the Granite Mining District, White Pine County, Nevada. The claims are situated on the eastern slope of the Egan Mountains, about 35 miles north of Ely, Nevada.

3. The mineralization consists of gold, silver, scheelite, fluorite and wolframite in a quartz vein in quartzite. This vein has a course of S. 70° E. and a dip of 25° to 40° South. Ore occurs in small pockets or shoots.

4. In the past the mine has been prospected and worked for its gold. The property has been explored by two adits; the lower one is 130 feet in length and cuts the vein at a point 60 feet from the portal. A drift was extended 10 feet west and 8 feet east from this point.

5. Approximately 12 tons of selected gold ore shipped from the property was reported to run from 0.53 ounces to 1.92 ounces in gold. No tungsten ore has been shipped from the mine. The applicant advises that the 1.92 ounces of gold shipment averaged 6.31 percent WO_3.

6. The Field Team estimates ore reserves amount to about 50 tons that will run from 0.5 to 1.0 percent WO_3.

7. The Field Team and the Commodity Divisions of the Geological Survey and the Bureau of Mines recommend that the application be denied.

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

TLCHAPMAN/fcc
3-17-55
cc to: Docket
Code 400
Adm. Reading File
Operating Committee

402

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

420 Custom House
555 Battery Street
San Francisco 11, Calif.

February 15, 1955

WSM

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3520 - Tungsten
Percy Hohl and Marion Ball
Piedmont Mine
White Pine County, Nevada

Pursuant to your letter of October 25, 1954, we are attaching four copies of a report entitled "DMEA-3520, Piedmont Mine, White Pine County, Nevada, (Tungsten)," by Robert W. Osterstock and Robert Boyer, Geologists, U. S. Geological Survey, and Glenn G. Gentry, Mining Engineer, U. S. Bureau of Mines, dated February 11, 1955.

The report recommends that a DMEA exploration be denied owing to the fact that the geological target for exploration is too limited in size to justify expenditure of Government funds.

The mineralization in the fissure target which rarely exceeds 18 inches in width is highly erratic in distribution and value and there is no reason to believe that the frequency of occurrence of the small ore bodies will increase with depth.

Roscoe Smith and I agree with the conclusions and recommendations as outlined in the report.

S. RICKER

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachment

Copy to: Roscoe Smith, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

DMEA-3520, Piedmont Mine

White Pine County, Nevada

(Tungsten)

Robert W. Osterstock, Geologist
Robert Boyer, Geologist
U. S. Geological Survey

Glenn G. Gentry, Mining Engineer
U. S. Bureau of Mines

February 11, 1955

EXAMINATION REPORT

Docket No.: DMEA-3520 (Tungsten)

Name and address of applicant: Percy Hahl
316-1/2 Flora Street
Lodi, Calif.

Name and location of Mine: Piedmont Mine,
White Pine County, Nev.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Under date of September 28, 1954, the Piedmont Mining Company, through Mr. Percy Hahl, acting as a partner, applied to the Defense Minerals Exploration Administration for financial assistance in the amount of $15,000.00 for the purpose of exploring the Piedmont mine by means of diamond drilling.

Pursuant to receipt of this application, the Piedmont Mine was examined, mapped and sampled on Nov. 14 and 15, 1954. During the examination, the engineer and geologists were accompanied by Percy Hahl and Jim Lee.

The Piedmont mine is considered to be a small prospect in which narrow widths and short lengths of mineralization have contained a small tonnage of material carrying tungsten in the form of scheelite, ferberite and wolframite. Insufficient development work has been done to definitely disclose much of a vein system.

The geological target is considered as being too limited to justify the expenditure of Government funds. The quartzite wall rocks are extremely hard, and the very narrow mineralized widths are not conducive to economical mining. It appears doubtful that exploration at depth would show any increase in the size or the values of the mineralized veins. A lessee might mine and hand sort a small quantity of shipping ore, but it is doubtful that such an operation would be profitable.

For the foregoing geological reasons and the limited size of the tungsten occurrences, it is recommended that the application be denied.

NAME AND LOCATION OF PROPERTY

The Piedmont Mine is situated on the eastern slope of the Egan Mountain range, 35.1 miles north of Ely, Nev., and near the central part of White Pine County. The mine is reached from Ely by traveling north via U.S. Highway 50 for a distance of 10.1 miles, thence in a northwesterly direction for a distance of 25 miles over an unimproved desert road.

The Piedmont mining claims are located in the Granite Mining District and are unsurveyed. The claims are reported to be recorded in Book 171, page 300 in the office of the County Recorder, White Pine County, Ely, Nev.

ACCESSIBILITY

U. S. Highway No. 50 is an all weather road which is maintained by the Nevada State Highway Department. After leaving this road, the next 15 miles is via an unimproved desert road which is maintained to some extent by the road department of White Pine County. After leaving this road, the next 7.5 miles to the mine are via a rough, desert mine road which has no maintenance except as provided by any mine operators in that area.

The last 2.5 miles of road from the floor of the canyon to the mine is via a narrow shelf road having numerous sharp curves and steep gradients. During the winter months it would probably be difficult and expensive to keep the roads open and no operations should be considered between the months of December to May.

COMPETENCY OF APPLICANT

Mr. Percy Hohl, one of the partners, stated that he expected to supervise any exploration program. Mr. Hohl has apparently had very limited experience in mining operations and stated that for the past 25 years he has been employed as a drug salesman by a firm in Yakima, Wash. Any exploration project considered, should be under the direction and active supervision of an experienced and competent mining engineer.

APPLICANT'S PROPERTY RIGHTS

The following lode mining claims were purchased by Mr. Hohl in the year 1952 for the sum of $5,000.00. These claims are unsurveyed and are held by right of location:

Piedmont Nos. 1, 2, 3, and 4.
Yakima No. 10
Charolette and Four Point

Mr. Hohl reports that all assessment work has been done, and there are no financial obligations against the property.

DESCRIPTION OF PROPERTY

The property has been explored during past years by means of two adits. The Lower or Piedmont Adit has been extended in a northeasterly direction for a distance of 138 feet. At 80 feet northeast of the portal, a crosscut has been extended in a westerly direction for a distance of 10 feet and easterly for a distance of 8 feet. The crosscuts disclosed very slight mineralization and no production was obtained. The only facilities in this adit consist of mine track and one mine car.

The upper or Bullfrog Adit has been extended in a northeasterly direction for a distance of 88 feet. One small stope having a strike length of 24 feet and an average width of 5 feet has been extended approximately 15 feet to surface. Below the adit an underhand stope having a strike length of 18 feet, an average width of 5 feet and a depth of 15 feet has been extended. No mining facilities remain in

this adit.

The operator reports that by screening and careful sorting, he has produced the following ore from the underhand stope:

Aug. 22, 1953:	13,680	lbs.	assaying	0.9	oz.	Au	and	0.65	oz. Ag/T
Oct. 10, 1953:	5,360	"	"	1.92	"	"	"	1.01	" "
Nov. 16, 1953:	4,640	"	"	0.53	"	"	"	1.00	" "

This ore was shipped to the Kennecott Copper Corporation, Nevada Mines Division, McGill, Nev., and no smelter records were submitted by the operator to substantiate the payments.

A copy of a smelter settlement sheet, dated August 11, 1954, indicates receipt of 2,422 dry lbs. of ore assaying 2.93 oz. Au and 1.96 oz. Ag per ton. The gross value per ton is $93.84 and the net settlement amounted to $101.89. The smelter does not pay for tungsten; therefore, the tungsten contained in the above shipments is unknown. However, the applicant claims this ore assayed 6.31% WO_3, as per a report by the Pittsburgh Testing Laboratory, 651 Howard Street, San Francisco, California dated September 22, 1954.

GEOLOGY

The Tungsten Piedmont property is situate in the Cronite Mining District on the east flank of the Egan Range. The main body of the Egan Range trends north-south, sedimentary rocks exposed in the range are mostly lower Paleozoic limestones, shales and quartzites with varying westerly dips.

In the mine area the stratigraphic section consists of a thick section of Prospect Mountain quartzite conformably overlain by 100-200 feet of Pioche shale which is in turn overlain by Eldorado limestone. The section exposed appears to be correlative with the Cambrian section of the Eureka District in Nevada. The quartzite in which the mineralization occurs is white to light brown on fresh surfaces but weathers to reds, yellows and browns. The shales are gray-green with a slightly rusty appearance on weathered surfaces. A gradational contact exists between the shale and the limestone, near the top of the shale the unit becomes increasingly limy until the preponderance of beds are thin bedded limestone which become thicker bedded and finally massive high in the limestone section.

No igneous rocks are known in the immediate mine area, however, a small granite stock has intruded quartzite and limestone in Water Canyon about two miles north of the mine.

At least one flat reverse fault is exposed about 500 feet northeast of the mine area, about 1/2 mile south of the mine a steep fault has dropped limestone on the south against quartzite on the north. The shale unit about 500 feet southeast of the mine appears to have been offset by a series of northwest to west trending south dipping steep reverse faults.

No published geologic information is available for this region, however, a private report has been written by Williams and Ashlock, consultants, at the request of the mine owners. This report was not made at the request of the New Jersey Zinc Company who has no interest in the property.

ORE DEPOSITS

The Tungsten Piedmont ore bodies are entirely within an easterly trending, southerly dipping fissure in the Prospect Mountain quartzite.

It is reported by the applicant that ore was originally discovered in the district during the 1890's. Sporadic operations since that date have been primarily for gold and silver.

The Piedmont fissure in which the mineralization occurs strikes about South 70° East and dips 25°-45° South. The structure is exposed on the surface and on two underground levels over a total strike length of about 130 feet. It is likely that the fissure zone will continue for indeterminate distances on strike in the quartzite to the east as well as projecting down dip in the quartzite. The ore bodies are irregular concentrations of gold, silver and tungsten in the form of wolframite, ferberite and minor scheelite. Milky and some clear quartz forms the gangue. Frequent swarms of thin milky quartz veinlets are noted to make off into the walls at diverse angles to the Piedmont fissure. The fissure zone shows a marked tendency to pinch and swell but the ore mineralization where present in the fissure rarely exceeds 18 inches in width.

Milky quartz appears to have been the earliest mineral deposited. Minor brecciation followed during or just after which the fissure again received milky and clear quartz together with the ore minerals; free gold, silver in an unknown mineral, ferberite, wolfrandite, scheelite and some galena. The mineable concentrations of ore minerals do not appear to be confined to particular parts of the fissure, rather they appear to have completely random distribution.

ORE RESERVES

Williams and Ashlock have estimated that the property contains a proven reserve of 112 tons with an average grade of 1.74 percent WO_3 and 200-300 tons of probable reserve of similar grade.

The operator has included in his application the following production record from the Tungsten Piedmont property:

Date of Shipment	Weight in Pounds	WO_3 percent	Au oz.	Ag oz.
August 22, 1953	13,680	—	0.90	0.65
October 10, 1953	5,360	—	1.92	1.01
November 16, 1953	[illegible]	—	.53	1.0
August 11, 1954	2,426	6.31	2.93	1.96
	21,466			

There is no earlier record of gold-silver production nor any record of tungsten production from the property. It is very likely that considerable hand sorting was done on the above shipments in order to attain the noted values.

Sampling by the USBM engineer during the DMG examination does not in general bear out the sampling results reported by the operator in the lean application. Samples taken by the USBM engineer indicate that the ore mineralization is extremely erratic. A few high grade pods are present but they are small and do not appear to have either strike or dip continuity.

For the purpose of this report it may be stated that the Tungsten Piedmont property has no ore reserves of proven class. Highly selective mining operations may recover a small amount of ore on the walls of the old stopes and crosscuts, this ore may be classed as probable and will probably not exceed 50 tons of 0.50-1.0 percent WO_3 average grade. There are no inferred reserves.

The narrow vein widths where ore minerals are present do not easily lend themselves to an economic mining operation.

PROPOSED EXPLORATION

The operator has requested a loan of $15,000 to aid in the exploration for tungsten ores on the Tungsten Piedmont property in the Granite Mining District, White Pine County, Nevada. The objective of the proposed exploration program is the down dip projection of the Piedmont fissure. The applicant has proposed that a series of diamond drill holes be put down on the south facing slope below the present mine workings to intersect the Piedmont fissure at depth.

Although it appears likely that the Piedmont fissure is persistent both in strike and dip, the ore mineralization thus far noted along the structure has been so highly erratic in distribution and value that there is little likelihood of intersecting ore zones in the fissure by diamond drilling.

CONCLUSIONS AND RECOMMENDATIONS

The Tungsten Piedmont property in the Granite Mining District, White Pine County, Nevada has had a small amount of sporadic gold-silver production. There is no record of production of tungsten ores from the area.

Ore deposits on the property are confined to the easterly trending-southerly dipping Piedmont fissure which cuts Cambrian Prospect Mountain quartzite. The ore minerals are free gold, silver in an unknown mineral, ferberite, wolframite, scheelite and a small amount of galena enclosed in a gangue of clear and milky quartz. The mineralized portions of the fissure rarely exceed 18 inches in width. The fissure appears to be persistent in strike and dip but ore zones within the fissure are small and highly erratic in distribution and value. It is estimated that the ore reserves of the property are 50 tons of probable class containing 0.50-1.0 percent WO_3 which can be recovered only by a highly selective mining operation.

It is recommended that the applicant's loan request be denied on the grounds that 1) the known ore bodies are very small and only sparsely distributed in the fissure, 2) the mineralization within the fissure appears to have been completely random and thus no specific target area can be delineated, 3) diamond drilling the down dip projection of the fissure affords little chance of intersecting the small ore bodies, 4) there is no reason to believe the frequency of occurrence of the ore bodies will increase with depth, 5) the overall low grade of the samples cut by the BBM engineer does not provide for an economic mining venture, and 6) there is little likelihood of discovering sufficient ore to materially add to the nation's reserves.

SAMPLING

The following samples were taken during the examination:

Sample No.	Width, feet	%, WO_3	%, Mo	Oz./T Au	Oz./T Ag	Location
BM-1430	2.3	*0.01	*0.01	0.21	0.10	Piedmont Adit - west crosscut.
1431	1.8	*0.01	*0.01	0.34	0.15	Do - floor of adit southside of crosscut.
1432	2.5	0.49	*0.01	3.16	3.05	Do - east crosscut north side of crosscut.
1433	0.5	*0.01	*0.01	0.07	0.10	Bullfrog Adit - south wall of adit - 10.6 feet east of winze.
1434	0.7	*0.01	*0.01	0.20	0.15	Do - quartz vein - 4 feet east of 1433.
1435	0.8	1.62	*0.01	5.52	3.30	Do - west side of winze 6 feet below collar.
1436	0.6	0.24	*0.01	1.42	1.70	Do - 2 feet above 1435
1437	0.5	*0.01	*0.01	0.76	4.55	Do - east side of winze at collar of winze.
1438	1.2	0.37	*0.01	1.32	1.40	Do - east side of raise near portal - 3 feet below surface.
1439	1.7	*0.01	*0.01	0.02	0.20	West side of 8-foot shaft. East of Bullfrog Adit - 300 feet from portal - iron stained quartz.
1440	1.4	0.01	*0.01	Tr.	Tr.	Face of Bullfrog tunnel mostly quartzite - no scheelite noted.
1441	1.0	0.01	*0.01	0.005	Tr.	Bullfrog Adit; quartz on south wall - 4 feet east of 1432.
1442	1.0	0.01	*0.01	0.01	Tr.	Stope above Bullfrog Adit near surface on east side of stope.
1443	1.2	0.01	*0.01	0.14	0.15	Surface cut - 75 feet northeast of portal of Bullfrog Adit. Quartz in face of the open cut.

Sample No.	Width, feet	%, WO_3	%, Mo	Oz./T Au	Oz./T Ag	Location
1444	1.0	0.01	*0.01	0.76	0.45	Piedmont Adit - south side of adit at east crosscut intersection.
1445	1.0	0.01	*0.01	0.01	0.25	Do; across back at intersection of east crosscut.
1446	1.3	0.01	*0.01	0.01	0.25	Do; south wall of east crosscut.
1447	2.4	0.01	*0.01	Tr.	Tr.	Surface exposure 15 feet south of the portal of Bullfrog Adit.

MANPOWER, SUPPLIES, ETC.

Experienced miners, mining supplies and equipment can usually be obtained in Ely, Nevada, which is the nearest source. There is no water supply available at the mine; water for mining and/or domestic purposes would have to be hauled a distance of approximately 10 miles. There is no transmitted electric power in the mine area, and all mining equipment would have to be operated by means of Diesel or gasoline motors.

APPLICANT'S PROPOSAL

The applicant has proposed a very indefinite program of exploration as follows:

12 diamond drill holes @ 100 to 150 feet each	$12,000.00
Supervision	1,500.00
Analyses	200.00
Repairs on cabin	300.00
Contingencies	1,000.00
Total	$15,000.00

The examining engineer and geologists considered exploration by means of diamond drilling, and concluded that due to the spotty nature of the small mineralized sections and the extreme narrow widths of the fissures, the information obtained would be meagre and unreliable. The nature of the tungsten deposition and the character of the rock indicates that no significant discovery could be expected.

The size of the geological target is considered to be too small to justify additional expenditures either by Government or private capital.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
NO. 3520

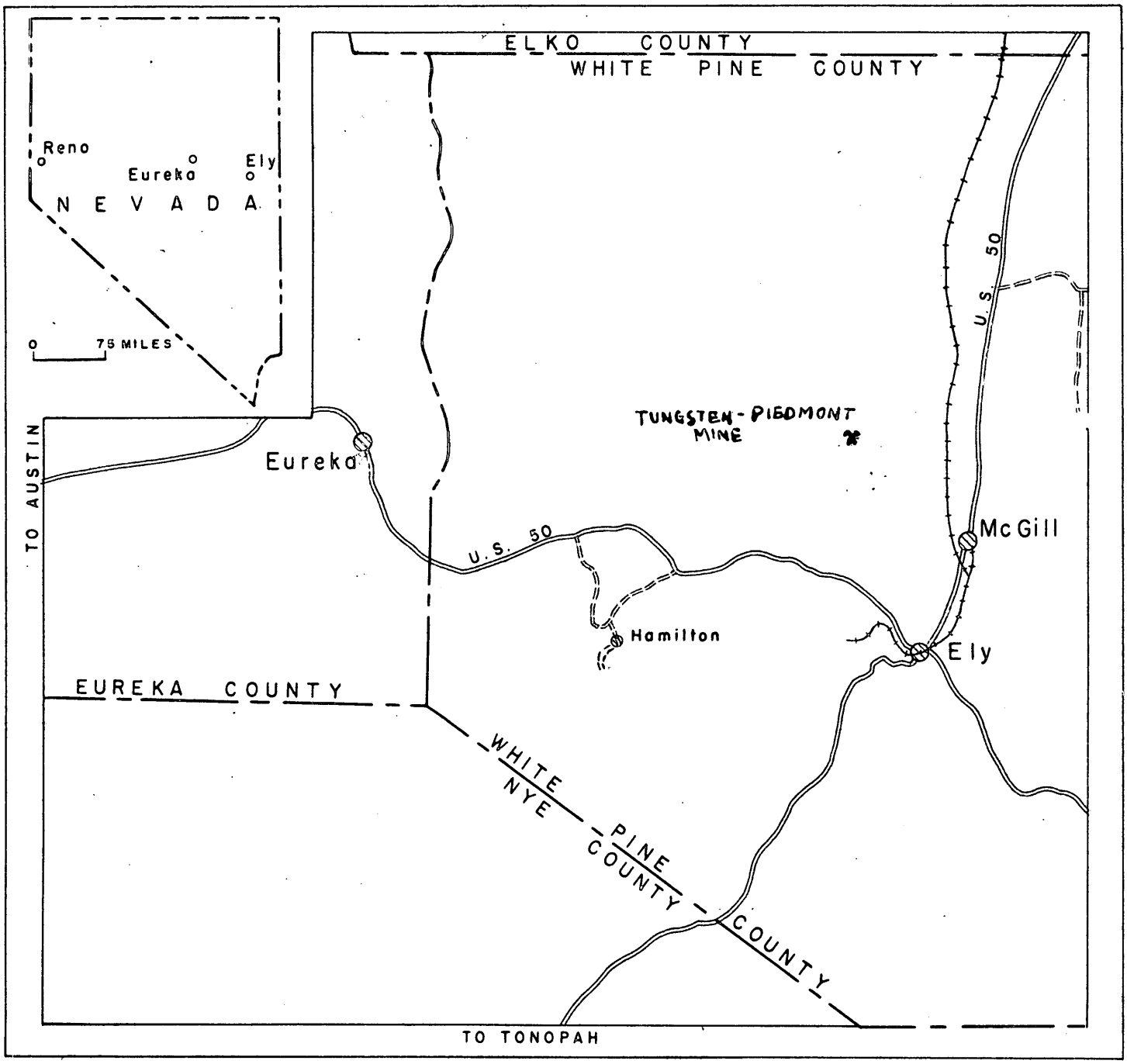

FIG. 1 - INDEX MAP OF NEVADA

0 10 20 30 MILES

400

IN REPLY REFER TO:

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

March 14, 1955

Re: DMEA-3520
P. Kohl and M. Ball
(Piedmont Mine)
White Pine Co., Nev.
$15,000 - Tungsten

Memorandum

Copy routed to

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team examination report

The applicant has proposed to explore the downdip projection of a tungsten-bearing fissure zone by a series of diamond drill holes.

The Field Team has recommended the application be denied.

The old workings consist of two adit levels which have exposed about 100 feet of the fissure on two levels.

Past production of about 12 tons of hand sorted ore contained primarily gold and silver values. The amount of tungsten is not reported, except for a ton of ore produced in 1954 which was reported to have averaged 6.31 percent WO_3.

Present reserves are estimated to be 50 tons of probable ore averaging 0.5-1.0 percent WO_3.

Of a total of 18 Field Team samples, 14 contained 0.01 (or less) percent WO_3 and the other 4 ranged from 0.24 to 1.62 percent for widths of 0.6 to 2.5 feet.

The average width of the mineralized portions of the fissure is 18 inches. Tungsten mineralization occurs in narrow vein zones and lenticular pods which are erratically distributed along the Piedmont fissure. Diamond drilling for small occurrences of this type is not feasible and the likelihood that a significant discovery would be found is highly improbable.

I recommend this application be denied DMEA exploration assistance.

ELNewcomb:hlm G-3/14/55
CC: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. W. Geehan, 3513 Interior

E. L. Newcomb

NOV 2 6 1954

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region III
420 Custom House Building
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3520 - Tungsten
Percy Hahl & Marion Hall
Piedmont mine
White Pine County, Nevada

Dear Mr. Richer:

Enclosed is a copy of geologic map of the Piedmont Mine Area by W. R. Williams and R. E. Ashbrook that refers to the above docketed application for exploration assistance.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosure

FARutledge:fec
11-24-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

APPROVED:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

OCT 25 1954

Messrs. Percy Hohl & Marion Ball
P. O. Box 212
Ely, Nevada

Re: Docket No. DMEA 3520 - Tungsten
Piedmont mine
White Pine County, Nevada

Gentlemen:

The above-docketed application for exploration assistance for tungsten has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 420 Customhouse Building, 555 Battery Street, San Francisco, 11, California, for a field examination of the property.

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

In reviewing your application, it was noted, on page 4 of the report by W. B. Williams and R. H. Ashlock, that their report contained a Plate I. Because only Plate II was received with your application, it would be appreciated if you would furnish us with four copies of Plate I.

Sincerely yours,

C. O. Mittendorf

Administrator

FARUTLEDGE:foc
10-22-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

400

OCT 25 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Customhouse Building
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3520 - Tungsten
Percy Hohl & Marion Ball
Piedmont mine
White Pine County, Nevada

Dear Mr. Miller:

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

Two copies of a relevant memorandum dated October 18, 1954, by E. L. Newcomb, Geological Survey, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosure

FARutledge:foc
10-22-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

APPROVED:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

IN REPLY REFER TO:

400

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

RECEIVED
OCT 20 1954

October 18, 1954

Re: DMEA-3520
P. Hohl & M. Ball
(Piedmont Property)
Granite District
White Pine Co., Nev.
$15,000 - Tungsten

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of application

The applicant proposes to diamond drill 10 holes totalling 1500 feet to test for the downdip extension of a gold-tungsten quartz vein.

The old workings consist of an opencut, the Bullfrog drift (about 20 feet below the surface), and the Piedmont adit (about 60 feet long).

According to the private report (Ashlock and Williams) submitted with the application, vein exposures indicate the quartz vein has an average width of one foot with an average grade of 1 oz./ton gold and 1% tungsten. The Piedmont vein is reported to vary considerably in width and to be erratic in distribution of gold and tungsten values (ferberite and wolframite).

Ashlock and Williams have estimated the total proven and probable reserves may be about 400 tons. They recommend further trenching to trace the vein along strike and to determine whether the vein widens or pinches out. They also suggest a 100 foot drift to ascertain the ore reserves and the possibilities of developing new stoping ground.

The applicant's proposal appears to be too extensive on the basis of the present geological evidence. It would be more appropriate to carry out surface trenching as a preliminary stage, and follow this work by a few holes or a drift, if trenching results are favorable.

I recommend this application be referred to the Field Team for an examination and report.

E. L. Newcomb

CC: Director's reading, 4212
Branch reading, 4212
DMEA(3)
Docket file
R. W. Geehan, 3513

ELNewcomb:hlm
G-10/18/54

DOCKET
SURNAME
Chapman
Martin
Holliday
Kiilsgaard
Hedges
Selfridge
Johnson

400

MAR 21 1955

Messrs. Percy Ehli and Marion Ehli
Box 212
Ely, Nevada

Re: Docket No. DMEA 3520 - Tungsten
Piedmont Mine
White Pine County, Nevada

Gentlemen:

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

Projects approved by the Defense Minerals Exploration Administration, must, in its judgment, show definite promise of finding materials of an 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 tonnage of tungsten ore of a moderate grade in small ore shoots, indicates to us that the probability of disclosing further minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, therefore, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

TLChapman:fec
3-17-55
cc to: Docket
Code 400
Adm. Reading File
Operating Committee
FT. REG. II
Robert Holliday, USBM
Thor H. Kiilsgaard, USGS

R.C.S.

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

March 17, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $15,000.00
Docket No. DMEA 3520 - Tungsten
Percy Hohl and Marion Ball, Partners
Piedmont Mine
White Pine County, Nevada

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

1. The applicant requested exploration assistance in the amount of $15,000.00 to explore for tungsten in a quartz vein by diamond drilling.

2. The property is held by the applicant by right of location and completed assessment work, and consists of 7 lode mining claims in the Granite Mining District, White Pine County, Nevada. The claims are situated on the eastern slope of the Egan Mountains, about 35 miles north of Ely, Nevada.

3. The mineralization consists of gold, silver, scheelite, ferberite and wolframite in a quartz vein in quartzite. This vein has a course of S. 70° E. and a dip of 25° to 40° South. Ore occurs in small pockets or shoots.

4. In the past the mine has been prospected and worked for its gold. The property has been explored by two adits; the lower one is 138 feet in length and cuts the vein at a point 80 feet from the portal. A drift was extended 10 feet west and 8 feet east from this point.

5. Approximately 12 tons of selected gold ore shipped from the property was reported to run from 0.53 ounces to 1.92 ounces in gold. No tungsten ore has been shipped from the mine. The applicant advises that the 1.92 ounces of gold shipment assayed 6.31 percent WO_3.

6. The Field Team estimates ore reserves amount to about 50 tons that will run from 0.5 to 1.0 percent WO_3.

7. The Field Team and the Commodity Divisions of the Geological Survey and the Bureau of Mines recommend that the application be denied.

W S Martin

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

DOCKET
SURNAME
100 Chapman
Martin
Holliday

March 17, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $15,000.00
Docket No. DMEA 3530 - Tungsten
Percy Kohl and Marion Ball, Partners
Piedmont Mine
White Pine County, Nevada

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

1. The applicant requested exploration assistance in the amount of $15,000.00 to explore for tungsten in a quartz vein by diamond drilling.

2. The property is held by the applicant by right of location and completed assessment work, and consists of 7 lode mining claims in the Granite Mining District, White Pine County, Nevada. The claims are situated on the eastern slope of the Egan Mountains, about 35 miles north of Ely, Nevada.

3. The mineralization consists of gold, silver, scheelite, ferberite and wolframite in a quartz vein in quartzite. This vein has a course of S. 70° E. and a dip of 25° to 40° South. Ore occurs in small pockets or shoots.

4. In the past the mine has been prospected and worked for its gold. The property has been explored by two adits; the lower one is 138 feet in length and cuts the vein at a point 80 feet from the portal. A drift was extended 10 feet west and 5 feet east from this point.

5. Approximately 12 tons of selected gold ore shipped from the property was reported to run from 0.53 ounces to 1.92 ounces in gold. No tungsten ore has been shipped from the mine. The applicant advises that the 1.92 ounces of gold shipment assayed 6.31 percent WO_3.

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7. The Field Team and the Commodity Divisions of the Geological Survey and the Bureau of Mines recommend that the application be denied.

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

TLCHAPMAN/foc
3-17-55
cc to: Docket ✓
Code 400
Adm. Reading File
Operating Committee

Docket

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
MAR 15 1955

March 14, 1955

Copy retained 400

Re: DMEA-3520
P. Hohl and M. Ball
(Piedmont Mine)
White Pine Co., Nev.
$15,000 - Tungsten

WSM

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team examination report

The applicant has proposed to explore the downdip projection of a tungsten-bearing fissure zone by a series of diamond drill holes.

The Field Team has recommended the application be denied.

The old workings consist of two adit levels which have exposed about 100 feet of the fissure on two levels.

Past production of about 12 tons of hand sorted ore contained primarily gold and silver values. The amount of tungsten is not reported, except for a ton of ore produced in 1954 which was reported to have averaged 6.31 percent WO_3.

Present reserves are estimated to be 50 tons of probable ore averaging 0.5-1.0 percent WO_3.

Of a total of 18 Field Team samples, 14 contained 0.01 (or less) percent WO_3 and the other 4 ranged from 0.24 to 1.62 percent for widths of 0.6 to 2.5 feet.

The average width of the mineralized portions of the fissure is 18 inches. Tungsten mineralization occurs in narrow vein zones and lenticular pods which are erratically distributed along the Piedmont fissure. Diamond drilling for small occurrences of this type is not feasible and the likelihood that a significant discovery would be found is highly improbable.

I recommend this application be denied DMEA exploration assistance.

E. L. Newcomb

E. L. Newcomb

IN REPLY REFER TO:

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

RECEIVED

March 14, 1955

Re: DMEA-3580
P. Bohl and M. Ball
(Piedmont Mine)
White Pine Co., Nev.
$15,000 - Tungsten

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team examination report

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I recommend this application be denied DMEA exploration assistance.

ELNewcomb:hlm G-3/14/55
CC: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. W. Geehan, 3513 Interior

E. L. Newcomb

IN REPLY REFER TO:

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

March 14, 1955

Re: DMEA-3520
P. Kohl and M. Ball
(Piedmont Mine)
White Pine Co., Nev.
$15,000 - Tungsten

Memorandum:

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team examination report

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ELNewcomb:hlm G-3/14/55
CC: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. W. Geehan, 3513 Interior

E. L. Newcomb

Docket

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

420 Custom House
555 Battery Street
San Francisco 11, Calif.

February 15, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3520 - Tungsten
Percy Hohl and Marion Ball
Piedmont Mine
White Pine County, Nevada

Pursuant to your letter of October 25, 1954, we are attaching four copies of a report entitled "DMEA-3520, Piedmont Mine, White Pine County, Nevada, (Tungsten)," by Robert W. Osterstock and Robert Boyer, Geologists, U. S. Geological Survey, and Glenn G. Gentry, Mining Engineer, U. S. Bureau of Mines, dated February 11, 1955.

The report recommends that a DMEA exploration be denied owing to the fact that the geological target for exploration is too limited in size to justify expenditure of Government funds.

The mineralization in the fissure target which rarely exceeds 18 inches in width is highly erratic in distribution and value and there is no reason to believe that the frequency of occurrence of the small ore bodies will increase with depth.

Roscoe Smith and I agree with the conclusions and recommendations as outlined in the report.

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachment

Copy to: Roscoe Smith, USGS

Reviewed by
DMEA OPERATING COMMITTEE
2-25-55
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 21 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

DMEA-3520, Piedmont Mine

White Pine County, Nevada

(Tungsten)

Robert W. Osterstock, Geologist
Robert Boyer, Geologist
U. S. Geological Survey

Glenn G. Gentry, Mining Engineer
U. S. Bureau of Mines

February 11, 1955

Reviewed by
DMEA OPERATING COMMITTEE
2-25-55
(date)

RECEIVED
FEB 21 1955

EXAMINATION REPORT

Docket No.: DMEA-3520 (Tungsten)

Name and address of applicant: Percy Hohl
316-1/2 Flora Street
Lodi, Calif.

Name and location of Mine: Piedmont Mine,
White Pine County, Nev.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Under date of September 28, 1954, the Piedmont Mining Company, through Mr. Percy Hohl, acting as a partner, applied to the Defense Minerals Exploration Administration for financial assistance in the amount of $15,000.00 for the purpose of exploring the Piedmont mine by means of diamond drilling.

Persuant to receipt of this application, the Piedmont Mine was examined, mapped and sampled on Nov. 14 and 15, 1954. During the examination, the engineer and geologists were accompanied by Percy Hohl and Jim Lee.

The Piedmont mine is considered to be a small prospect in which narrow widths and short lengths of mineralization have contained a small tonnage of material carrying tungsten in the form of scheelite, ferberite and wolframite. Insufficient development work has been done to definitely disclose much of a vein system.

The geological target is considered as being too limited to justify the expenditure of Government funds. The quartzite wall rocks are extremely hard, and the very narrow mineralized widths are not conducive to economical mining. It appears doubtful that exploration at depth would show any increase in the size or the values of the mineralized veins. A leaser might mine and hand sort a small quantity of shipping ore, but it is doubtful that such an operation would be profitable.

For the foregoing geological reasons and the limited size of the tungsten occurrences, it is recommended that the application be denied.

NAME AND LOCATION OF PROPERTY

The Piedmont Mine is situated on the eastern slope of the Egan Mountain range, 35.1 miles north of Ely, Nev., and near the central part of White Pine County. The mine is reached from Ely by traveling north via U.S. Highway 50 for a distance of 10.1 miles, thence in a northwesterly direction for a distance of 25 miles over an unimproved desert road.

The Piedmont mining claims are located in the Granite Mining District and are unsurveyed. The claims are reported to be recorded in Book 171, page 300 in the office of the County Recorder, White Pine County, Ely, Nev.

ACCESSIBILITY

U.S. Highway No. 50 is an all weather road which is maintained by the Nevada State Highway Department. After leaving this road, the next 15 miles is via an unimproved desert road which is maintained to some extent by the road department of White Pine County. After leaving this road, the next 7.5 miles to the mine are via a rough, desert mine road which has no maintenance except as provided by any mine operators in that area.

The last 2.5 miles of road from the floor of the canyon to the mine is via a narrow shelf road having numerous sharp curves and steep gradients. During the winter months it would probably be difficult and expensive to keep the roads open and no operations should be considered between the months of December to May.

COMPETENCY OF APPLICANT

Mr. Percy Hohl, one of the partners, stated that he expected to supervise any exploration program. Mr. Hohl has apparently had very limited experience in mining operations and stated that for the past 25 years he has been employed as a drug salesman by a firm in Yakima, Wash. Any exploration project considered, should be under the direction and active supervision of an experienced and competent mining engineer.

APPLICANT'S PROPERTY RIGHTS

The following lode mining claims were purchased by Mr. Hohl in the year 1952 for the sum of $5,000.00. These claims are unsurveyed and are held by right of location:

Piedmont Nos. 1, 2, 3, and 4.
Yakima No. 10
Charolette and Four Point

Mr. Hohl reports that all assessment work has been done, and there are no financial obligations against the property.

DESCRIPTION OF PROPERTY

The property has been explored during past years by means of two adits. The Lower or Piedmont Adit has been extended in a northeasterly direction for a distance of 138 feet. At 80 feet northeast of the portal, a crosscut has been extended in a westerly direction for a distance of 10 feet and easterly for a distance of 8 feet. The crosscuts disclosed very slight mineralization and no production was obtained. The only facilities in this adit consist of mine track and one mine car.

The upper or Bullfrog Adit has been extended in a northeasterly direction for a distance of 88 feet. One small stope having a strike length of 24 feet and an average width of 5 feet has been extended approximately 15 feet to surface. Below the adit an underhand stope having a strike length of 10 feet, an average width of 5 feet and a depth of 15 feet has been extended. No mining facilities remain in

this adit.

The operator reports that by screening and careful sorting, he has produced the following ore from the underhand stope:

Aug. 22, 1953:	13,680 lbs.	assaying	0.9 oz.	Au	and	0.65 oz.	Ag/T		
Oct. 10, 1953:	5,360 "	"	1.92 "	"	"	1.01 "	"		
Nov. 16, 1953:	4,640 "	"	0.53 "	"	"	1.00 "	"		

This ore was shipped to the Kennecott Copper Corporation, Nevada Mines Division, McGill, Nev., and no smelter records were submitted by the operator to substantiate the payments.

A copy of a smelter settlement sheet, dated August 11, 1954, indicates receipt of 2,422 dry lbs. of ore assaying 2.93 oz. Au and 1.96 oz. Ag per ton. The gross value per ton is $93.84 and the net settlement amounted to $101.89. The smelter does not pay for tungsten; therefore, the tungsten contained in the above shipments is unknown. However, the applicant claims this ore assayed 6.31% WO_3, as per a report by the Pittsburgh Testing Laboratory, 651 Howard Street, San Francisco, California dated September 22, 1954.

24,102

GEOLOGY

The Tungsten Piedmont property is situated in the Granite Mining District on the east flank of the Egan Range. The main body of the Egan Range trends north-south, sedimentary rocks exposed in the range are mostly lower Paleozoic limestones, shales and quartzites with varying westerly dips.

In the mine area the stratigraphic section consists of a thick section of Prospect Mountain quartzite conformably overlain by 100-200 feet of Pioche shale which is in turn overlain by Eldorado limestone. The section exposed appears to be correlative with the Cambrian section of the Eureka District in Nevada. The quartzite in which the mineralization occurs is white to light brown on fresh surfaces but weathers to reds, yellows and browns. The shales are gray-green with a slightly rusty appearance on weathered surfaces. A gradational contact exists between the shale and the limestone, near the top of the shale the unit becomes increasingly limy until the preponderance of beds are thin bedded limestone which become thicker bedded and finally massive high in the limestone section.

No igneous rocks are known in the immediate mine area, however, a small granite stock has intruded quartzite and limestone in Water Canyon about two miles north of the mine.

At least one flat reverse fault is exposed about 500 feet northeast of the mine area, about 1/2 mile south of the mine a steep fault has dropped limestone on the south against quartzite on the north. The shale unit about 500 feet southwest of the mine appears to have been offset by a series of northwest to west trending south dipping steep reverse faults.

No published geologic information is available for this region, however, a private report has been written by Williams and Ashlock, consultants, at the request of the mine owners. This report was not made at the request of the New Jersey Zinc Company who has no interest in the property.

ORE DEPOSITS

The Tungsten Piedmont ore bodies are entirely within an easterly trending, southerly dipping fissure in the Prospect Mountain quartzite.

It is reported by the applicant that ore was originally discovered in the district during the 1890's. Sporadic operations since that date have been primarily for gold and silver.

The Piedmont fissure in which the mineralization occurs strikes about South 70° East and dips 25°-45° South. The structure is exposed on the surface and on two underground levels over a total strike length of about 130 feet. It is likely that the fissure zone will continue for indeterminate distances on strike in the quartzite to the east as well as projecting down dip in the quartzite. The ore bodies are irregular concentrations of gold, silver and tungsten in the form of wolframite, ferberite and minor scheelite. Milky and some clear quartz forms the gangue. Frequent swarms of thin milky quartz veinlets are noted to make off into the walls at diverse angles to the Piedmont fissure. The fissure zone shows a marked tendency to pinch and swell but the ore mineralization where present in the fissure rarely exceeds 18 inches in width.

Milky quartz appears to have been the earliest mineral deposited. Minor brecciation followed during or just after which the fissure again received milky and clear quartz together with the ore minerals; free gold, silver in an unknown mineral, ferberite, wolframite, scheelite and some galena. The mineable concentrations of ore minerals do not appear to be confined to particular parts of the fissure, rather they appear to have completely random distribution.

ORE RESERVES

Williams and Ashlock have estimated that the property contains a proven reserve of 112 tons with an average grade of 1.74 percent WO_3 and 200-300 tons of probable reserve of similar grade.

The operator has included in his application the following production record from the Tungsten Piedmont property:

Date of Shipment	Weight in Pounds	WO_3 percent	Au oz.	Ag oz.
August 22, 1953	13,680	---	0.90	0.65
October 10, 1953	5,360	---	1.92	1.01
November 16, 1953	?	---	.53	1.0
August 11, 1954	2,426	6.31	2.93	1.96
	21,466			

There is no earlier record of gold-silver production nor any record of tungsten production from the property. It is very likely that considerable hand sorting was done on the above shipments in order to attain the noted values.

Sampling by the USBM engineer during the DMEA examination does not in general bear out the sampling results reported by the operator in the loan application. Samples taken by the USBM engineer indicate that the ore mineralization is extremely erratic. A few high grade pods are present but they are small and do not appear to have either strike or dip continuity.

For the purpose of this report it may be stated that the Tungsten Piedmont property has no ore reserves of proven class. Highly selective mining operations may recover a small amount of ore on the walls of the old stopes and crosscuts, this ore may be classed as probable and will probably not exceed 50 tons of 0.50-1.0 percent WO_3 average grade. There are no inferred reserves.

The narrow vein widths where ore minerals are present do not easily lend themselves to an economic mining operation.

PROPOSED EXPLORATION

The operator has requested a loan of $15,000 to aid in the exploration for tungsten ores on the Tungsten Piedmont property in the Granite Mining District, White Pine County, Nevada. The objective of the proposed exploration program is the down dip projection of the Piedmont fissure. The applicant has proposed that a series of diamond drill holes be put down on the south facing slope below the present mine workings to intersect the Piedmont fissure at depth.

Although it appears likely that the Piedmont fissure is persistent both in strike and dip, the ore mineralization thus far noted along the structure has been so highly erratic in distribution and value that there is little likelihood of intersecting ore zones in the fissure by diamond drilling.

CONCLUSIONS AND RECOMMENDATIONS

The Tungsten Piedmont property in the Granite Mining District, White Pine County, Nevada has had a small amount of sporadic gold-silver production. There is no record of production of tungsten ores from the area.

Ore deposits on the property are confined to the easterly trending-southerly dipping Piedmont fissure which cuts Cambrian Prospect Mountain quartzite. The ore minerals are free gold, silver in an unknown mineral, ferberite, wolframite, scheelite and a small amount of galena enclosed in a gangue of clear and milky quartz. The mineralized portions of the fissure rarely exceed 18 inches in width. The fissure appears to be persistent in strike and dip but ore zones within the fissure are small and highly erratic in distribution and value. It is estimated that the ore reserves of the property are 50 tons of probable class containing 0.50-1.0 percent WO_3 which can be recovered only by a highly selective mining operation.

It is recommended that the applicant's loan request be denied on the grounds that 1) the known ore bodies are very small and only sparsely distributed in the fissure, 2) the mineralization within the fissure appears to have been completely random and thus no specific target area can be delineated, 3) diamond drilling the down dip projection of the fissure affords little chance of intersecting the small ore bodies, 4) there is no reason to believe the frequency of occurrence of the ore bodies will increase with depth, 5) the overall low grade of the samples cut by the USBM engineer does not provide for an economic mining venture, and 6) there is little likelihood of discovering sufficient ore to materially add to the nation's reserves.

SAMPLING

The following samples were taken during the examination:

Sample No.	Width, feet	%, WO_3	%, Mo	Oz./T Au	Oz./T Ag	Location
BM-1430	2.3	*0.01	*0.01	0.21	0.10	Piedmont Adit - west crosscut.
1431	1.8	*0.01	*0.01	0.34	0.15	Do - floor of adit southside of crosscut.
1432	2.5	0.49	*0.01	3.16	3.05	Do - east crosscut north side of crosscut.
1433	0.5	*0.01	*0.01	0.07	0.10	Bullfrog Adit - south wall of adit - 10.6 feet east of winze.
1434	0.7	*0.01	*0.01	0.20	0.15	Do - quartz vein - 4 feet east of 1433.
1435	0.8	1.62	*0.01	5.52	3.30	Do - west side of winze 6 feet below collar.
1436	0.6	0.24	*0.01	1.42	1.70	Do - 2 feet above 1435
1437	0.5	*0.01	*0.01	0.76	4.55	Do - east side of winze at collar of winze.
1438	1.2	0.37	*0.01	1.32	1.40	Do - east side of raise near portal - 3 feet below surface.
1439	1.7	*0.01	*0.01	0.02	0.20	West side of 8-foot shaft. East of Bullfrog Adit - 300 feet from portal - iron stained quartz.
1440	1.4	0.01	*0.01	Tr.	Tr.	Face of Bullfrog tunnel mostly quartzite - no scheelite noted.
1441	1.0	0.01	*0.01	0.005	Tr.	Bullfrog Adit; quartz on south wall - 4 feet east of 1432.
1442	1.0	0.01	*0.01	0.01	Tr.	Stope above Bullfrog Adit near surface on east side of stope.
1443	1.2	0.01	*0.01	0.14	0.15	Surface cut - 75 feet northeast of portal of Bullfrog Adit. Quartz in face of the open cut.

Sample No.	Width, feet	%, WO_3	%, Mo	Oz./T Au	Oz./T Ag	Location
1444	1.0	0.01	*0.01	0.76	0.45	Piedmont Adit - south side of adit at east cross-cut intersection.
1445	1.0	0.01	*0.01	0.01	0.25	Do; across back at intersection of east crosscut.
1446	1.3	0.01	*0.01	0.01	0.25	Do; south wall of east crosscut.
1447	2.4	0.01	*0.01	Tr.	Tr.	Surface exposure 15 feet south of the portal of Bullfrog Adit.

MANPOWER, SUPPLIES, ETC.

Experienced miners, mining supplies and equipment can usually be obtained in Ely, Nevada, which is the nearest source. There is no water supply available at the mine; water for mining and/or domestic purposes would have to be hauled a distance of approximately 10 miles. There is no transmitted electric power in the mine area, and all mining equipment would have to be operated by means of Diesel or gasoline motors.

APPLICANT'S PROPOSAL

The applicant has proposed a very indefinite program of exploration as follows:

12 diamond drill holes @ 100 to 150 feet each	$12,000.00
Supervision	1,500.00
Analyses	200.00
Repairs on cabin	300.00
Contingencies	1,000.00
Total	$15,000.00

The examining engineer and geologists considered exploration by means of diamond drilling, and concluded that due to the spotty nature of the small mineralized sections and the extreme narrow widths of the fissures, the information obtained would be meagre and unreliable. The nature of the tungsten deposition and the character of the rock indicates that no significant discovery could be expected.

The size of the geological target is considered to be too small to justify additional expenditures either by Government or private capital.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION II
RECEIVED

FEB 24 AM 9:11

SAN FRANCISCO, CALIFORNIA

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
NO. 3520

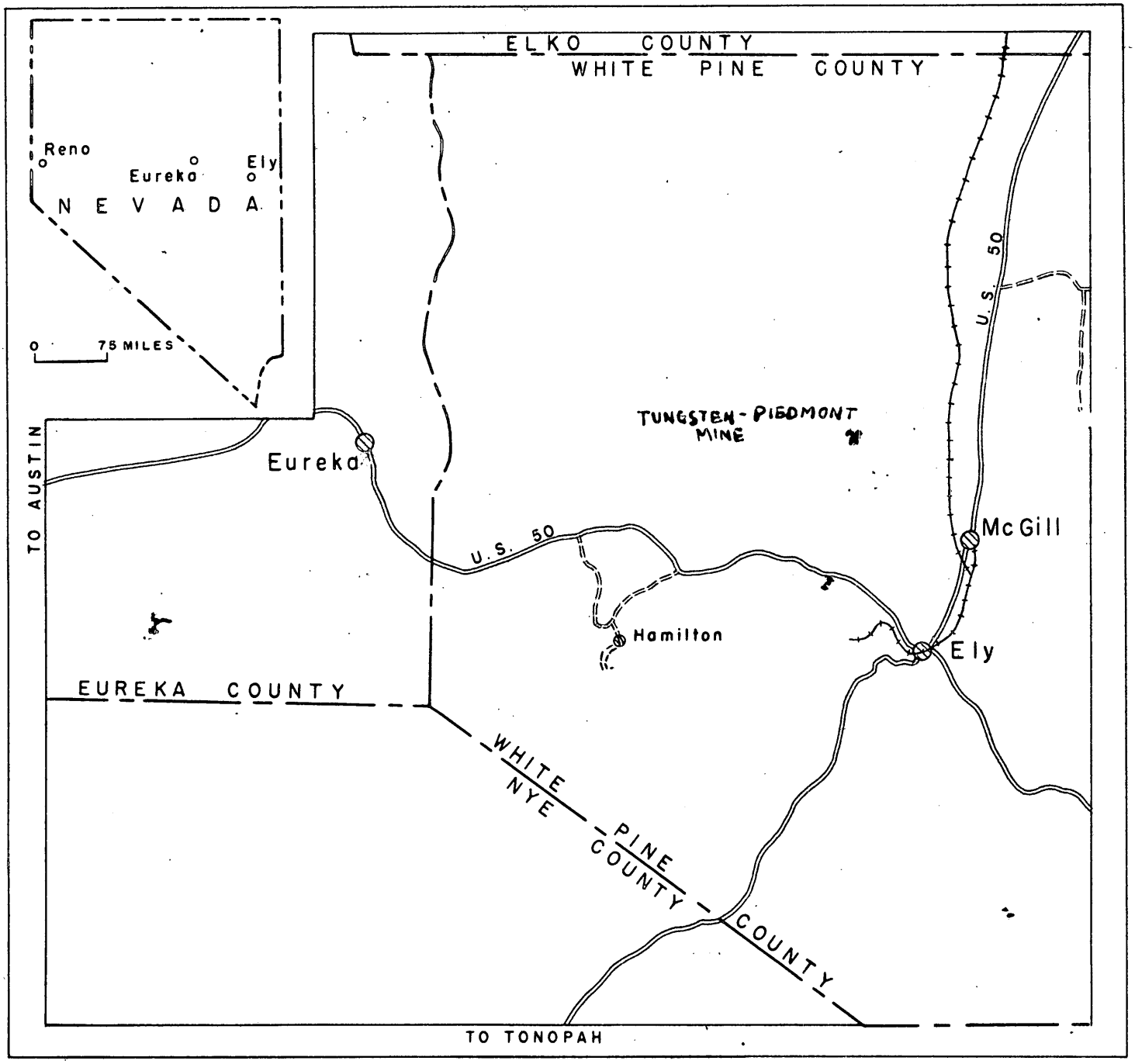


FIG. 1 - INDEX MAP OF NEVADA

0 10 20 30 MILES

DOCKET
SURNAME

Rutledge
Selfridge
Fogelman
Mathews

400

NOV 26 1954

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region III
420 Custom House Building
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3520 - Tungsten
Percy Mahl & Marian Bell
Piedmont mine
White Pine County, Nevada

Dear Mr. Richer:

Enclosed is a copy of geologic map of the Piedmont Mine Area by W. B. Williams and R. H. Ashbaek that refers to the above docketed application for exploration assistance.

Sincerely yours,

George C. Selfridge
(By ESF)
Chairman, Operating Committee

Enclosure

FARutledge:fos
11-24-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

APPROVED:

J. H. Hedges
By ESF
Member, Bureau of Mines

Thor H. Kiilsgaard
By ESF
Member, Geological Survey

R.C.G.

Ely, Nevada.
Nov. 18, 1954.

Defense Minerals Administration
RECEIVED
NOV 23 1954

Re: Docket No. DMEA 3520-Tungsten
Piedmont Mine
White Pine County, Nevada.

United States Department of the Interior
Washington D.C.

Attention
Mr Mittendorf

Find attached four copies of Plate 1 by W.B.Williams and R.H.Ashlock as instructed in your letter of October 25th.

Yours truly

Percy Hohl

400

DOCKET
SURNAME
Rutledge
Geehan
Martin
Kiilsgaard
Hedges
Selbridge
F. Gehman

OCT 25 1954

Messrs. Percy Hohl & Marion Ball
P. O. Box 212
Ely, Nevada

Re: Docket No. DMEA 3520 - Tungsten
Piedmont mine
White Pine County, Nevada

Gentlemen:

The above-docketed application for exploration assistance for tungsten has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. N. C. Miller, Executive Officer, DMEA Field Team, Region III, 420 Customhouse Building, 555 Battery Street, San Francisco, 11, California, for a field examination of the property.

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

In reviewing your application, it was noted, on page 4 of the report by W. B. Williams and R. H. Ashlock, that their report contained a Plate I. Because only Plate II was received with your application, it would be appreciated if you would furnish us with four copies of Plate I.

Sincerely yours,

C. O. Mittendorf

Administrator

FARUTLEDGE:foc
10-22-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

R.C.H.

400 DOCKET SURNAME

Rutledge
Geehan
Martin
Selfridge
Kjelmann

OCT 25 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Customhouse Building
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3520 - Tungsten
Percy Hohl & Marion Ball
Piedmont mine
White Pine County, Nevada

Dear Mr. Miller:

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

Two copies of a relevant memorandum dated October 18, 1954, by E. L. Newcomb, Geological Survey, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosure

FARutledge:foc
10-22-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS

APPROVED:

J. H. Hedges
Member, Bureau of Mines (JHB)

Thor H. Kiilsgaard
Member, Geological Survey (THK)

R.C.G.

Docket

IN REPLY REFER TO:

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

Department of the Interior
Defense Minerals Administration
RECEIVED
OCT 20 1954

October 18, 1954

Re: DMEA-3520
P. Hohl & M. Ball
(Piedmont Property)
Granite District
White Pine Co., Nev.
$15,000 - Tungsten

W309

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of application

The applicant proposes to diamond drill 10 holes totalling 1500 feet to test for the downdip extension of a gold-tungsten quartz vein.

The old workings consist of an opencut, the Bullfrog drift (about 20 feet below the surface), and the Piedmont adit (about 60 feet long).

According to the private report (Ashlock and Williams) submitted with the application, vein exposures indicate the quartz vein has an average width of one foot with an average grade of 1 oz./ton gold and 1% tungsten. The Piedmont vein is reported to vary considerably in width and to be erratic in distribution of gold and tungsten values (ferberite and wolframite).

Ashlock and Williams have estimated the total proven and probable reserves may be about 400 tons. They recommend further trenching to trace the vein along strike and to determine whether the vein widens or pinches out. They also suggest a 100 foot drift to ascertain the ore reserves and the possibilities of developing new stoping ground.

The applicant's proposal appears to be too extensive on the basis of the present geological evidence. It would be more appropriate to carry out surface trenching as a preliminary stage, and follow this work by a few holes or a drift, if trenching results are favorable.

I recommend this application be referred to the Field Team for an examination and report.

E. L. Newcomb

E. L. Newcomb

October 6, 1954
Subject: DMEA-3520
Re: Exploration Assistance
Piedmont Mining Co.

Messrs. Percy Hohl
& Marion Ball
P. O. Box 212
Ely, Nevada

Gentlemen:

The receipt of your application dated September 28, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3520 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to in any future correspondence relating to your application.

Sincerely yours,

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Budget Bureau No. 42-R1035.2.
RECEIVED
OCT - 4 1954

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. 3520
Metal or Mineral TUNGSTEN
Date Received
Estimated Cost $15,000
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: PERCY HOHL P.O.BOX 212 ELY,NEVADA.
PARTNERSHIP (PARTNER) MARION BALL c/o HIGHLAND FRUIT GROWERS
YAKIMA,WASHINGTON.

(*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 SEVEN CLAIMS-PIEDMONT #1-PIEDMONT# 2
PIEDMONT #3-PIEDMONT #4-YAKIMA #10-CHARLOTTE-FOUR POINT
ALL LOCATED IN THE GRANITE MINING DISTRICT,COUNTY OF WHITE PINE,
STATE OF NEVADA. (EACH CLAIM 1500'X 600')

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

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

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

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. ALL CLAIMS RECORDED BOOK 171-PAGE 300-RECORDER-ELY,NEVADA

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. SEE ENCLOSED

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

(*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. SEE ENCLOSED

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

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

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. SEE ENCLOSED

(*c*) The work will start within 30 days and be completed within 3 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, accountings, 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 [X] Use of equipment owned by you [ ] Other

Explain in detail on accompanying papers.

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 September 28, 1954

Piedmont Mining Company
(Applicant)
By Percy Hotle
P.O. Box 2
Ely, Nevada

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.

Defense Minerals Administration
RECEIVED
OCT - 4 1954

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Find my application for aid in an exploration project, in pursuant to DMEA order 1, under the defense production act of 1950 amended.

The enclosed data I hope explains my situation, Assays from this property have gone as high as 40% Tungsten in the form of Ferberite with a fairly high gold content.

I would like to apply for a loan of $ 15,000 to explore this property with the aid of a diamond drill.

In my estimation approximately 1500 feet would have to be drilled to get the true picture at intervals cutting the vein.

My experience as a miner dates back to Cripple Creek, Colorado. 1910. I would supervise the work.

It would take in all probability three months to perform this work.

The nearest water is ten miles from the property and as a consequence the diamond drill contract will cost more than where water is available.

There is a road to the property.

Summing up the $ 15.000 requested I would say,

$ 12,000	Diamond Drill Cost (By Contract)
1,500	Supervision
200	Assays
300	Repairs on Cabin
1,000	Contingencies
$ 15,000	Total

I have original data and documents of the enclosed, if any more data is required, I will be glad to furnish same if possible.

yours truly

Percy Hohl

Percy Hohl
P.O.Box 212
Ely, Nevada.

Attached find copy of settlement sheet on 2,426 pounds of ore shipped to the Kennecott Copper Corporation, McGill, Nevada. This smelter pays only for the Gold and Silver content. The control on this same 2,426 pounds of ore you will also find attached, showing a Tungsten content of 6.31 %. A loss of around $400.00

A shipment of 13,680 was made August 22,1953, another amounting to 5,360 made October 10,1953, and another November 16,1953.

The shipment August 1953 went .90 gold and .65 Silver.

The shipment October 1953 went 1.92 gold and 1.01 Silver.

The shipment November 1953 went .53 gold and 1.00 Silver.

At the time of the 1953 shipments I did not contemplate requesting a government loan, so did not check on the Tungsten content, but I am of the opinion all three of these shipments would have gone high in Tungsten.

I have the original settlement sheets on the above shipments, should they at any time be requested.

Yours truly

Percy Hohl

FORM 407 SF

PITTSBURGH TESTING LABORATORY

651 HOWARD STREET
SAN FRANCISCO 5, CALIFORNIA

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

ORDER No. 00760

LABORATORY No.

CLIENT'S No.

FILE No.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT - 4 1954

REPORT

September 22,1954

Percy Hohl
22 Elm Street
Vallejo, California

Subject: Sample - Mark C-61

Required: Chemical Analysis for Tungsten

Results:

Tungstic Oxide (WO_3) 6.31 %

Respectfully submitted,

PITTSBURGH TESTING LABORATORY

Carlton M. Robinson

District Manager

SS
cd
cc: 8 Above

COPY OF SETTLEMENT SHEET--SHIPMENT MADE TO McGILL IN AUGUST

KENNECOTT COPPER CORPORATION
Nevada Mines Division
Settlement of Purchase of Flux

August Month 54 Name of Mine PIEDMONT

Name of Shipper PERCY HOHL
Address P.O.BOX 212
ELY,NEVADA.
Shipping Point TRUCKED TO SMELTER

Location of Mine NEAR McGILL,NEVADA
County WHITE PINE
Mine Owner SAME AS SHIPPER

Settlement MR PERCY HOHL, P.O.BOX 212, ELY,NEVADA $ 101.89

Date Sampled	No. Cars	Net Weight Pounds	% H20	Dry Weight Pounds	Ozs Au	Per Ton Ag	% Cu	Ozs Gold	Ozs Silver
8-4-54	46 Sks	2,426	.17	2,422	2.93	1.96	--	3.5	2
TOTAL	46 Sks	2,426	.17	2,422	2.93	1.96	--	3.5	2
CONTRACT PAYMENT								97%	92½%
CONTRACT PAYMENT-CONTENTS								3.4	2

VALUES, TREATMENT AND FREIGHT CHARGES

3.4	Ozs.Gold @	$ 32.897	Per Ounce------	$	111.85
2	Ozs.Silver @	$ 896 ¢	Per Ounce------	$	1.79
	Lbs.Copper @	¢	Per Pound------	$	-- --
			GROSS VALUE	$	113.64

Gross Value per Dry Ton----------$ 93.84

Treatment
Rate Per Dry Ton----------$ 7.00 Max.
Credits:
SiO2--28.6 @ 5¢ Per Unit----------$ 1.430
Penalties:
@ ¢
Net Treatment Rate---------- $ 5.570
Net Treatment Amount---------- $ 6.75
Sampling and Handling---------- $ 5.00 $ 11.75
Value after Treatment---- $ 101.89
Freight-Nevada Northern Railway Company---------- $ -- --
NET SMELTER VALUE---------- $ 101.89
Adjustment-Prior Month Settlement---------- $ -- --
NET SETTLEMENT---------- $ 101.89

McGILL,NEVADA

(Signed) KENNECOTT COPPER CORPORATION
By-----R.W.CROSSER
Division Comptroller

DATE August 11,1954

FIND THE FOLLOWING REPORT AND PLAN AS MADE BY W.D.WILLIAMS AND H.H. ASHLOCK. ENGINEERS FOR THE NEW JERSEY LEAD AND ZINC COMPANY AS MADE BY THEM APRIL 22-23-1924.

This report has been copied verbatim and the plan traced from the signed report by the two engineers, copy of which will be furnished on request.

yours truly

Percy Hold

A Report on

THE PIEDMONT PROSPECT AREA

By

W.B.Williams- R.H.Ashlock
(Engineers for the New Jersey Lead and Zinc Company)

Date: April 22-23 1954

TABLE OF CONTENTS

INTRODUCTION---------- Page 1

GEOGRAPHY ---------- Page 2

Sedimentary Rocks ---------- Page 2

Igneous Rocks ---------- Page 3

STRUCTURE ---------- Page 3

ORE DEPOSITS ---------- Page 3

History of the District ---------- Page 3

Piedmont Prospect ---------- Page 3

ORE RESERVES ---------- Page 5

Assay Data ---------- Page 5

Description of Samples---------- Page 5

CONCLUSIONS---------- Page 7

INTRODUCTION

The Granite Mining District, of which the Piedmont Prospect is a part, includes a portion of the east side of the Egan Range about 12 miles long and 4 miles wide. The District is approximately 34 miles North-Northwest of Ely,Nevada. For the most part the District is unsurveyed and more definite location is therefore impractical.

GEOGRAPHY

The Piedmont Prospect is located on the east flank of the Egan Range at an approximate elevation of 8200 feet above sea level. The property is bounded on the north by Water Canyon and on the southwest by Waverly Canyon. The workings are located on a sidehill Northeast of Buster Canyon.

GEOLOGY

The part of the Egan Range in which the Piedmont Prospect is located is composed of red weathering quartzites, overlain by green and red shales, above which lie massive light-gray compact limestones. At Water Canyon thesedimentary rocks are intruded by a stock of granite that varies in texture.

Sedimentary Rocks

The oldest sedimentary rocks are the quartzites. Fresh fractures of the rock are white or light in color, but weathered surfaces are red to yellow. The quartzites are overlain by about 150 feet of green-red shales which grade into the overlying limestones. At the base the limestone lies in beds 6 inches to one foot in thickness, but upwards in section becomes more massive.

The sedimentary rocks are most probably Cambrian in age and the equivalents of the Prospect Mountain Quartzite, Pioche Shale, and the Eldorado Limestone of the Eureka section.

Igneous Rocks

About two miles above the mouth of Water Canyon, a stock of granite intrudes both the quartzites and the limestones. The rock varies from fine to coarse grained from side to center.

STRUCTURE

For the most part, the rocks near the Piedmont Prospect dip west at medium to steep angles. Minor faulting and folding is prevalent throughout the Granite District, but only two faults of any consequence are noted in the immediate vicinity of the Piedmont. Some of the minor movements are merely bedding slippage.

ORE DEPOSITS

History of the District

According to information from the most reliable sources, ore was found in the District as early as 1894. Since that time, production of any consequence has been intermittent. For the most part the chief values have been received from gold, silver, and lead; however, in the early days the tungsten values were not recognized and, therefore, no record of tungsten production is available.

Piedmont

Ore in the Piedmont Prospect area occurs in fissure vein deposits consisting of gold and tungsten mineralization in a milky quartz gangue. Apparently the gold occurs in a free state with the

tungsten occuring as Ferberite and Wolframite. The principal vein is the Piedmont Vein which is followed by the Bullfrog Drift and cross-cut by the Piedmont Adit. Exposures on the Piedmont vein indicate an average width of about one foot with gold values averaging in excess of one ounce per ton and tungsten values averaging about one per cent. In general, the Piedmont vein strikes about North 70° to 80° East, and dips from 35° to 50° to the west. The vein has a tendency to widen and narrow frequently and is somewhat erratic in distribution of values. There are other gold-quartz veins in the area of the Piedmont Prospect which show values up to 0.5 ounces gold per ton, but the Piedmont vein is by far the most important.

The vein could only be traced for about 100 feet east of the surface cut due to float and talus covering. There is a very good possibility, however, that the vein extends under the limestone cap to the northeast, but no evidence of mineralization was found in the limestone. It is believed by the writers that faulting in the area occured after mineralization, therefore, the vein could not extend into the limestone cap above the fault (see Plate 1).

Add effect from Plate 1

ORE RESERVES

Assay Data (All samples are located on the Underground Map by Number, such as: p-1, p-2, etc.)

Sample Number	Width of Sample	Ounces of Gold	Per Cent Tungsten		
p-1	0.9 ft.	0.930	1.07		
p-2	1.0 ft.	4.320	3.28		
p-3	3.0 ft.	0.310	0.11		
p-4	0.8 ft.	2.000	1.09	0.8	1.62
p-5	1.5 ft.	1.000	1.08	country rock	
p-6	1.0 ft.	0.510	0.71	1.4	0.01
p-7	0.5 ft.	1.380	0.62	1.2	0.01
p-8	---	0.05	----		
p-9	0.9 ft.	2.100	2.04		
	1.2	1.279	1.03		

Description of the samples

p-1-- Piedmont vein, Breast sample, attitude - S 70° E, 0.9' across vein.

p-2-- Piedmont vein, Back sample, 1.0' wide.

p-3-- Sample taken in Breast of Piedmont drift, attitude - N10° E very little showing, vein is very erratic, 3.0' wide.

p-4-- Sample taken in Bullfrog winze, west wall, 8 inches across the vein, some tungsten and gold showing.

p-5-- Sample taken in Bullfrog winze, west wall, taken in country rock adjacent to vein and sample is 1.5' across

p-6-- Sample taken in Breast of Bullfrog drift, 1.0' across the vein and sample.

p-7-- Sample taken in open cut above Bullfrog drift - vein is 0.5' wide, some gold has been seen in country rock adjacent to vein.

p-8-- Barren Sample.

p-9-- Bottom of winze in Piedmont drift-vein is 0.9 wide, offset about 3.0' by fault-material indicated very little values in hand specimen

The total tonnage which can be included in the category of proven ore is approximately 112 tons with an average grade of 1.74 ounces gold per ton and 1.38 per cent tungsten with an average width of 1.2 ft.
Break down of these tonnage calculations follows:

	Tons	Average Grade		
		Oz. Gold	% Tungsten	Average Width
Piedmont Adit	40	2.45	2.13	0.93
Above Bullfrog Drift	20	0.95	0.67	0.75
Below Bullfrog Drift	52	1.50	1.08	1.06
Totals	112	1.74	1.38	1.2

It is possible to include another 200-300 tons in the category of probable ore,but this is not feasible in this type of spotty and erratic ore deposit. It is clearly seen from the above calculations that much more of the vein should be opened up before the necessary 10,000 to 15,000 tons of ore can be proven.

CONCLUSIONS

The main vein of the Piedmont Prospect cannot be traced over any great distance on surface because of the overburden. No evidence of mineralization was found in the overlying Limestone. Additional trenches to locate the vein at intervals would help immeasurably in determining whether the vein continues on approximately the same strike, and whether the vein widens or pinches out.

The underground access to the veins shows promise. A drift of 100 feet or more along the strike of the vein would enable a geologist or engineer to ascertain, more accurately, the ore reserves and the possibilities of stoping ground.

Definite tonnage (approximately 10,000 tons) should be established or proven before the acquisition of a surface plant.

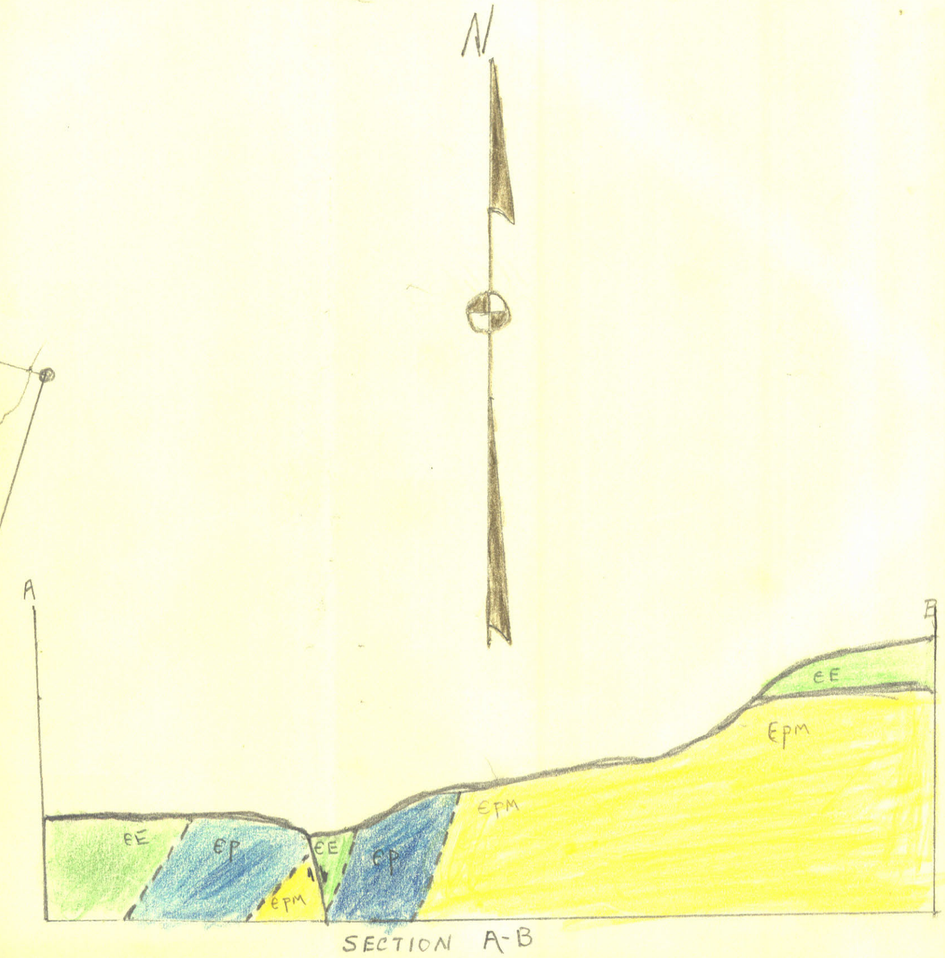
Signed

R.H.Ashlock
W.B.Williams
(Mining Engineers for the New Jersey Lead and Zinc Company-Stationed at Ely,Nevada)

San Francisco 11, California

OFFICIAL BUSINESS

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



LEGEND

- EE — Eldorado Limestone
- EP — Pioche Shale
- EPM — Prospect Mountain Quartzite

(Cambrian)

- Road
- Fault
- Shaft
- Adit

NOTE: Indicated Elevation on Road Below Bull Frog Adit is Approximately Correct

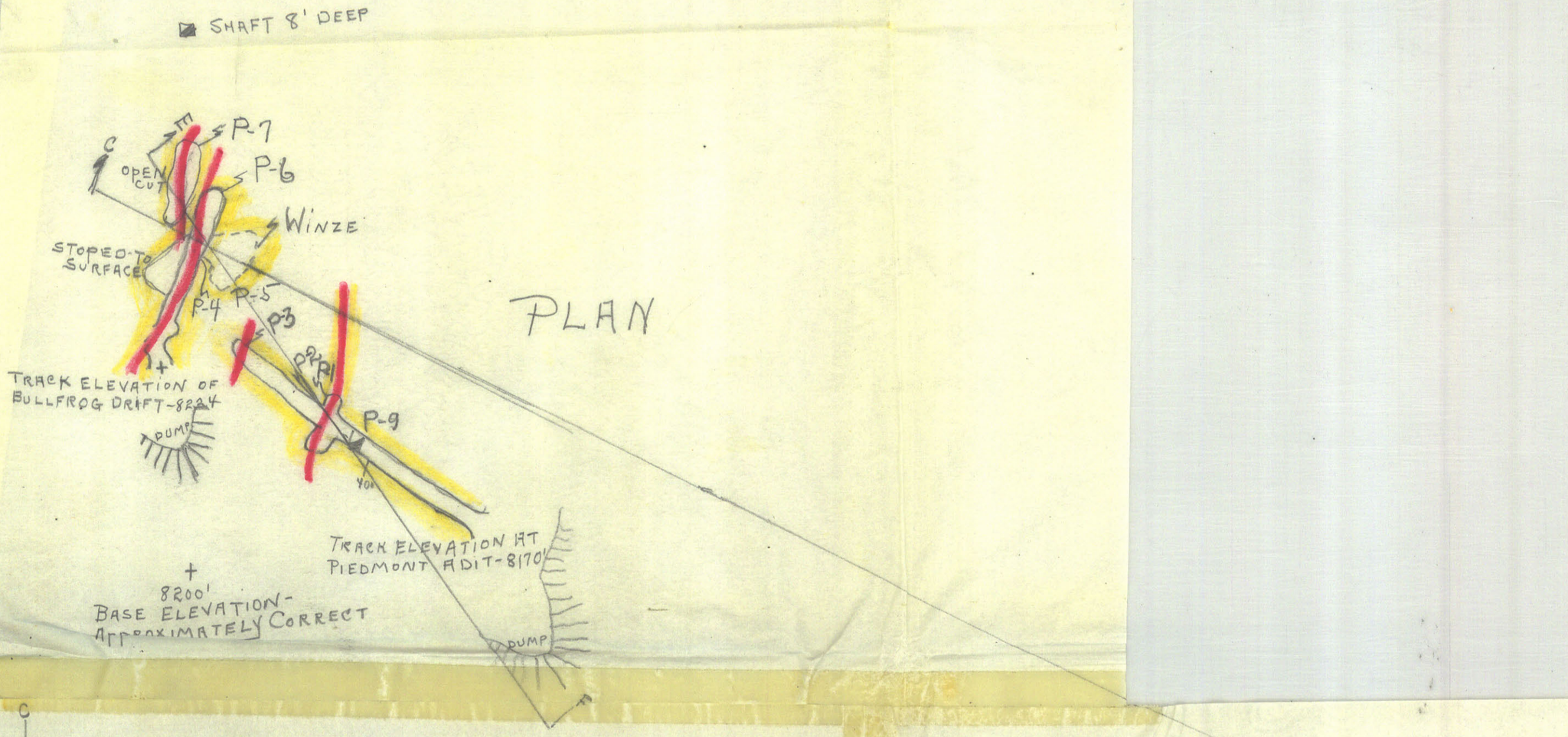
Claims were staked using magnetic bearings
Magnetic North is 17° E of True North

PLATE I

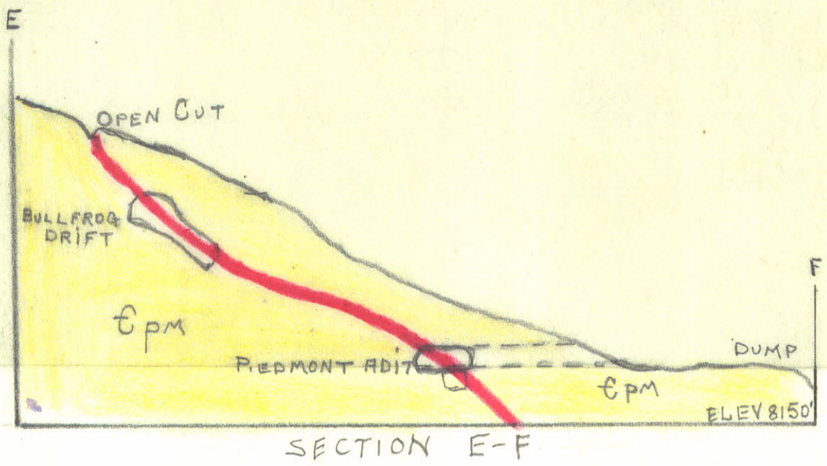
Date - April 22 1954 Scale 1 inch = 200 ft

Piedmont Mine Area
Geology

Geology By - W. B. Williams
R. H. Ashlock



SECTION C-D



SECTION E-F

LEGEND

- Єpm — PROSPECT MOUNTAIN QUARTZITE
- MINERALIZED VEINS
- PROPOSED EXPLORATION BY DIAMOND DRILL

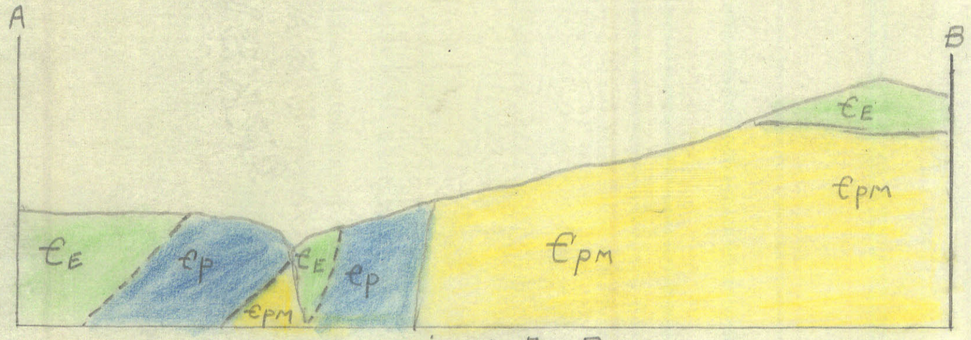
MAP TRACED FROM ORIGINAL

PLATE II

DATE: APRIL 22, 1954 — SCALE: 1 INCH = 50 FEET

PIEDMONT MINE AREA
PLAN AND SECTIONS OF UNDERGROUND WORKINGS

GEOLOGY BY W. B. WILLIAMS, R. H. ASHLOCK



SECTION A-B

LEGEND

- Ꞓ E — ELDORADO LIMESTONE
- Ꞓ P — PIOCHE SHALE
- Ꞓ PM — PROSPECT MOUNTAIN QUARTZITE

— CAMBRIAN

- ROAD
- FAULT
- SHAFT
- ADIT

N

NOTE: INDICATED ELEVATION ON ROAD BELOW BULL FROG ADIT IS APPROXIMATELY CORRECT

CLAIMS WERE STAKED USING MAGNETIC BEARINGS
MAGNETIC NORTH IS 17° EAST OF TRUE NORTH

PLATE I

DATE APRIL 22, 1954 SCALE: 1 INCH = 200 FEET

PIEDMONT MINE AREA GEOLOGY

GEOLOGY BY } W. B. WILLIAMS
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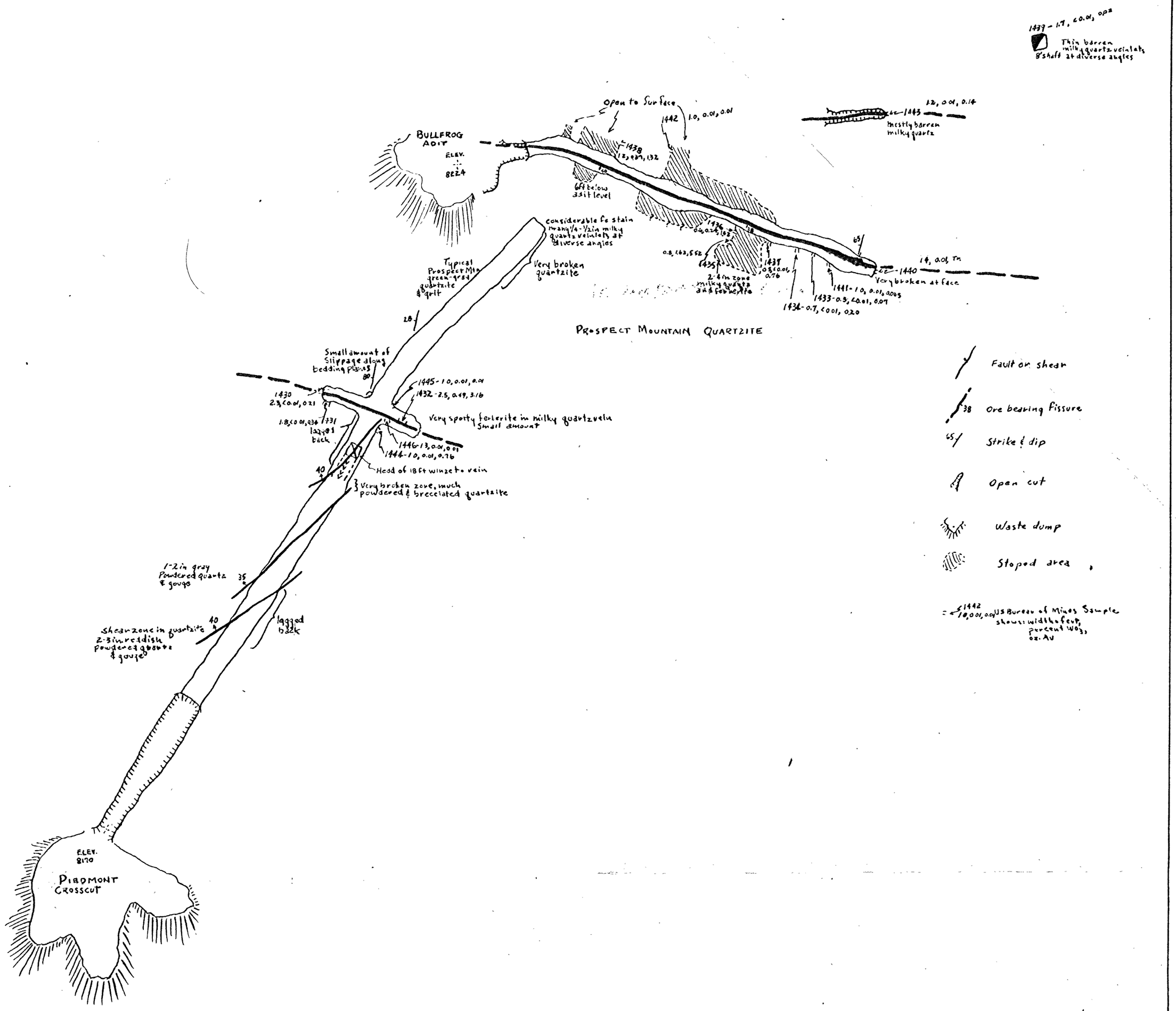

FIG. 2

GEOLOGIC MAP OF TUNGSTEN-PIEDMONT MINE
WHITE PINE COUNTY, NEVADA

0 — 20 — 40 feet
Scale