DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4790

Application
- [x] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [ ] Project summary (final)
- [ ] Work Completed analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports

- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with transmittal, narrative and maps.

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

July 16, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 19 1957

DATE	INITIALS	CODE
7/19	WSM	400

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: New application (tungsten)
P & H Exploration & Mining Corp.
Blackbird Mine
Okanogan County, Washington

Dear Mr. Selfridge:

Enclosed are three copies of an application for assistance to explore for tungsten at the Blackbird Claim in Okanogan County, Washington.

The spectrographic and chemical analysis mentioned under Item 4(c) of the application was omitted but the applicant stated he would send these to us. The application was delivered in person to this office.

The applicant stated he would furnish copies of the lease and signed Consents to Lien when requested to do so.

The property was examined in June 1957 by a Bureau of Mines engineer who considered it promising although not enough work had been done on the claim. One sample taken assayed 0.15% WO_3.

Sincerely yours,

Wing L. Agnew
Acting Executive Officer
DMEA Field Team, Region I

Enclosure

cc: USGS (2)

RECEIVED
BUREAU OF MINES
JUL 15 1957
SPOKANE, WASH.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUL 19 1957
D.M.E.A.

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. 4790
Metal or Mineral Tungsten
Date Received 7/19/57
Estimated Cost $ 68,983.00
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: P & H Exploration and Mining Corporation. A Washington corporation, PO Box 18025, Bridgeport, Washington. President, George W. Heller, Box 1012, Bridgeport, Wash., Vice President Chester J. Dodson, 906 Methow Street, Wenatchee, Washington, Secretary, Kenneth H. Hopp, Box 336, Bridgeport, 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. The Blackbird Claim as filed with the Okanogan County Auditor, in Section 1, Township 36 North, Range 24 East Willammette Meridian.

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

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

(*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

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

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

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. none

(*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 attached sheet

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

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

16—66551-1

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

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

(*c*) The work will start within 5 days and be completed within 6 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated ~~June 17,~~ July 15, 1957

P & H EXPLORATION AND MINING CORPORATION (Applicant)

By [signature]

Secretary

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

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

Additional Information

Item 4(a) No mining activities have been conducted. Considerable work has been done for exploration, mostly pointing the way to further work. A 40 foot cut across the vein has been made and has not reached either side of it. The cut varies from 2 to 20 feet in depth. Core drilling has been commenced, cross-cutting the vein. It has now reached 94 feet in depth. The cores look good and show up well on the black light in a typical tungsten color, but assaying must be done.

Item 4(c) The property shows schorn mineralization 30 feet in width running approximately north and south. The dip is 50° to the west on the surface. The contact rock on the hanging and foot walls is granite. The mineralization is tungsten, lead, zinc, and copper. Attached is a spectrographic analysis and a chemical analysis of samples made.

Item 4(d) The mine is 1½ miles from Conconully, Okanogan County, Washington, over a county road which reaches to within a quarter of a mile. It is 19 miles from a railroad over an oiled highway. Adequate residential facilities are available in Conconully for workers.

Item 5(b) The work would include drilling four additional holes to a depth of 160 feet and excavating an inclined shaft 400 feet in length, of dimensions 7' by 10', with 1½ compartments, at an angle of 50°. The attached sheet is our estimate of expenditures. They will be held to a minimum, but it was not deemed wise to count on savings in making the estimate.

Item 5(d) Applicant is a corporation. President George W. Heller will supervise work. His experience has included several years work as a miner. He has contracted underground compartments and compressor rooms for the Black Warrior Mine, Horseshoe Basin, Chelan County, Washington and has contracted mining by the foot for the American Mining and Smelting Company's Azurite Mine, in eastern Whatcom County, Washington and for similar work at the Holden and Howe Sound Mines of Holden, Washington.

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RECEIVED JUL 19 1957

DATE	INITIALS	CODE

Item 6(a) None

Item 6(b)

6 shaftmen at $25.00 per day	$150.-
2 timbermen " " "	25.-
1 hoistman " " "	25.-
1 foreman $28.- " "	28.-
1 mining engineer $25.- per day	25.-
Total per day	253.-
Six mons, 120 days work	30,360.-
bookkeeper, at $200.- per month	1,200.-
Total	$31,560.-

Item 6(c)

Blasting powder	2400.00
Blasting caps	704.-
Rails, 2000 feet	3200.-
Timber, 5600 board feet	400.-
Ties,	770.-
Cleats	40.-
Two x fours	24.-
Spikes	300.-
Nails	50.-
Bolts	50.-
Carburundum bits, 150	1950.-
Steels, 10 sets	300.-
Pipe, 2", 450 feet	180.-
Pipe, 1", 500 feet	160.-
Gasoline	765.-
Oil	100.-
Cable, 1", 500 feet	500.-
Carbide lights	50.-
Carbide	100.-
Powerline to site	585.-
Jimcrow	25.-
Stillson wrenches, 2	16.-
Pipe vice	24.-
Total	12,693.00

Item 6(d)

Compressor	5000.-
Air leg (2)	400.-
Air receiver	500.-
Jackhammers, 2	780.-
Wedges	100.-
Water pump	500.-
Motor for pump	500.-
Waterline to sight, with inst. cost	840.-

Fishplate	100.-
Hoist	5000.-
Hoist bucket	600.-
Miners hats	60.-
Air pump	250.-
Car	600.-
Total	$15,230.-

Item 6(e) None

Item 6(f)

Machine shop for equipment	5000.-

Item 6(g)

Bulldozing	1000.-
Transportation of equipment	500.-
Assaying	3000.-
Total	4500.-

Recapitulation

Labor	31,560.-
Supplies	12,693.-
Equipment	15,230.-
Buildings	5,000.-
Miscellaneous	4,500.-
Total	$68,983.-

U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at a time.
2. Void previous block.
3. Write clearly.

NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
~~Mr. Lemmon~~ ~~Rm 4237~~	RUN / STOP		RUN / STOP
Mr. Lemmon Rm 4237	RUN / STOP		RUN / STOP
~~Mr. Kilgoodl~~ ~~Rm. 5224, Int.~~	RUN / STOP		RUN / STOP
Mail & files, DMEA 4450, Int.	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
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	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP

Send surplus envelopes to supply room for reissue.

Use other side

Use RUN and STOP only when messenger service between Government buildings in Washington is required.
Your mail room has RUN and STOP information.

	STOP		RUN STOP
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	RUN STOP		RUN STOP
	RUN STOP		RUN STOP

Use other side first

Proposed core drilling
160 ft deep 5 holes
cross cutting ore body
at depth of 65 ft.

East.

Diamond Drill Hole
100 ft apart.

Diamond Drill hole
90 ft away from ore body

Proposed hole
No 3

Proposed Hole
No 4

Hole No 1

Proposed Hole No 2

Diamond Drill Hole
dipping West 50 degrees
54 ft deep now

Vein dipping eastward
50 degree

Proposed Hole No 5

GRANITE

North

SCHOTN

Cross Cut 100 ft long

135 ft long

tungsten
scheelite
30 ft
ore

South

GRANITE

Proposed Shaft 400 ft
Deep on a 50 degree dipth

OFFICIAL FILE COPY
DMEA
REVIEWED JUL 19 1967

Town of
Concomully in Okanogan
County
about 1/2 mile South of Wash.

West.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11-19	Holt	400
11-19	Martin	400
11-22	Martin	130
11/22	Lamb	130
11/22	Williams	130
"	Johnson	110
"	Mittendorf	100
		220

NOV 25 1957

P & H Exploration and Mining Corporation
P. O. Box 18025
Bridgeport, Washington

Re: Docket No. DMEA 4790 - Tungsten
Blackbird Mine
Okanogan County, Washington

Gentlemen:

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

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

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

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

SPHOLT/dlm 11-19-57
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. I
Messrs. R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11-19	Holt	400
11-19	Martin	400
		110

November 19, 1957

MEMORANDUM

To: Administrator, DMEA

From: Division of Iron and Ferro-Alloys, DMEA

Subject: Denial of request for exploration assistance in the amount of $68,983.
Docket No. DMEA 4790 - Tungsten
P & H Exploration and Mining Corporation
Blackbird Mine
Okanogan County, Washington

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

(1) The Applicant, P. & H. Exploration and Mining Corporation, Box 18025, Bridgeport, Washington, requested exploration assistance in the amount of $68,983 for diamond drilling and shaft sinking.

(2) The Applicant controls, by lease from the owners, Frank Stevens, Geraldine Greene and Robert L. Greene, one unpatented lode mining claim, named the "Blackbird", situated in sec. 1, T. 36 N., R. 24 E., W. M., Concunully Mining District, Okanogan County, Washington, and recorded in the office of the County Auditor of Okanogan County, Washington.

(3) The proposed program is to explore the tungsten deposits on the Blackbird claim by drilling four diamond drill holes, each to a depth of approximately 160 feet, and to sink a shaft at an inclination angle of 50 degrees to a depth of 400 feet.

(4) In the area of the Blackbird claim tungsten occurs in the form of scheelite associated with pyrite, chalcopyrite, sphalerite and galena, in joints and fractures near a contact between granitic and schistose rocks.

(5) The Field Team concurs with the conclusion of its examiners that the chance of making a significant discovery is poor, and recommends that this application be denied. The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

W S Martin
W. S. Martin, Director
Division of Iron and Ferro-Alloys

8623

DMEA
RECEIVED NOV 18 1957

DATE	INITIALS	CODE
11-18	C	220
11/18	WSM	400

So. 157 Howard Street
Spokane 4, Washington

November 14, 1957

Mr. Kenneth H. Hopp, Secretary
P & H Exploration & Mining Corp.
Box 335
Bridgeport, Washington

Re: Docket No. DMEA-4790 (Tungsten)
P & H Exploration & Mining Corp.
Blackbird claim
Okanogan County, Washington

Dear Mr. Hopp:

This is in reply to your letter of November 12, 1957, regarding the status of your application for DMEA assistance.

Our report is in Washington and you should be hearing from them shortly.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

cc: DMEA (2) w/2 copies of incoming
USBM (2) " " " "
Albee

KENNETH H. HOOP
ATTORNEY AT LAW
BRIDGEPORT, WASHINGTON
BOX [illegible]

MAR
AE
ARMY
USAM
DMEA

[illegible]
[illegible] 157 Howard [illegible]
Spokane 1, Wash[illegible]

[illegible]
[illegible]
[illegible]
[illegible]

Gentlemen:

We have [illegible]
[illegible]
appropriate [illegible]
[illegible].

[illegible]

[illegible]
[illegible]
[illegible]

Report to D.C. 10/25/57; denial recommended.
Emk

[illegible] 1957
[illegible]

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DMEA
RECEIVED NOV 7 1957

DATE	INITIALS	CODE
11/7	gb	220
	WSM	400

November 7, 1957

4790

Tungsten
P & H Exploration & Mining Corp.
Blackbird Mine
Okanogan County, Washington

W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Chief, Branch of Ferrous Metals and Ferroalloys
R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals and Ferroalloys

Memorandum report of Field Team Examination

Oct. 7, 57 Nov. 1, 57

X

X

X

X

X

X

I concur with the Field Team recommendation that the application for a DMEA loan be denied because of the low content of tungsten.

R. W. Holliday

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 29 1957

DATE	INITIALS	CODE
10/29	gb	220
11/1	JB	130
11/4	gb	220
11/4	WSM	400

October 25, 1957

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4790 (Tungsten)
P & H Exploration and Mining Corp.
Blackbird Mine
Okanogan County, Washington

Dear Mr. Selfridge:

Enclosed are three copies of a memorandum examination report on the subject property by G. G. Waddell, Mining Engineer, U. S. Bureau of Mines, and H. F. Albee, Geologist, U. S. Geological Survey.

Small amounts of scheelite occur in joints and fractures near a contact between granitic and schistose rocks. Six samples taken by the examiners range in grade from nil to 0.14 percent WO_3. A sample of material on a hand sorted stock pile assayed 0.14 percent WO_3.

Waddell and Albee conclude that the chance of making a significant discovery is poor and recommend that the application be denied.

The Field Team concurs with this conclusion and recommendation.

By Field Team, Region I

Thomas E Howard
for Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Donald R. MacLaren
Donald R. MacLaren, Acting Member
U. S. Geological Survey

Enclosures

cc: USBM (2)
USGS (SRO)
Albee

Reviewed by
DMEA OPERATING COMMITTEE
11-1-57
(date)

OK-STATE TEXAS

DMEA

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 29 1957

DATE	INITIALS	CODE
11/1	JHB	130
		220

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
So. 157 Howard Street
Spokane 4, Washington

October 7, 1957

MEMORANDUM

To: DMEA Field Team, Region I

From: C. C. Waddell, Mining Engineer, U. S. Bureau of Mines, and H. F. Albee, Geologist, U. S. Geological Survey

Subject: Field Examination Report, Docket No. DMEA-4790 (tungsten), P & H Exploration and Mining Corporation, Blackbird Mine, Okanogan County, Washington

INTRODUCTION

The P & H Exploration and Mining Corporation submitted an application on July 15, 1957, to explore for tungsten on their Blackbird claim which is in sec. 1, T. 35 N., R. 24 E., Okanogan County, Washington. The proposed work consists of 340 feet of diamond drilling and 400 feet of shaft sinking at a cost of $68,983.

A field examination was made on August 15 and 16, 1957, by the authors, accompanied by George W. Keller, the company president who lives at Bridgeport, Washington, Frank Stevens, lessor of the claim from Conconully, Washington, and Sui-Ju Kung, a mining engineer trainee from Formosa.

SUMMARY

A trench, about 40 feet long, has exposed scheelite as coatings on joints and fractures. The company started a 50° incline shaft and had advanced 5 feet on the hanging-wall contact of a granite and what the applicant referred to as a "schorn" zone in which the tungsten occurs. This zone was cut by an inclined diamond drill hole approximately 80 feet down dip from the surface outcrop. The core showed scheelite but the core recovery was so poor that no assay was attempted.

Traces of tungsten could be found both north and south of the trench but the overburden has not been removed sufficiently to trace the structure.

Reviewed by
DMEA OPERATING COMMITTEE
11-1-57
(date)

Six samples were cut and assayed. The best assay was from the applicant's hand-picked stockpile. The results of this assay are as follows: trace gold and 0.01 ounce silver per ton, 0.55 percent zinc, 0.06 percent copper, and 0.14 percent WO_3. This sample was scanned with a blacklight and had the same proportion of fluorescence as the remainder of the stockpile and can be considered as fairly representative.

RECOMMENDATIONS

It is recommended that this application for a DMEA loan be denied because of the low content of tungsten and other metals of economic interest.

LOCATION AND ACCESSIBILITY

The property lies in sec. 1, T. 35 N., R. 24 E. W. M., Okanogan County, Washington. It is approximately half a mile west of Conconully, Washington, a community 18 miles northwest of Omak, Washington.

The road to Conconully is blacktop; however, the last half a mile to the property is an unimproved dirt road. Snowfall in this region is fairly heavy but it would not stop underground mining operations.

There are a few small mines in the area that are periodic producers. Omak is a fair-sized town and capable of supplying most of the equipment needed for mining. Miners are available at Conconully most of the time; however, during road construction operations in the area, mine operators must compete with construction crew wages.

PROPERTY RIGHTS

The Blackbird claim is owned by Frank Stevens, Geraldine Greene, and Robert Greene and leased to G. W. Heller and Dennis Pearl. The lessee is to pay to the lessor 10 percent of any and all income from any and all minerals, less freight and smelting charges.

The applicant has staked 5 more claims adjacent to the Blackbird subsequent to submitting his application. These claims do not apply to the application and were not examined.

COMPETENCY OF APPLICANT

Mr. Heller is the president and supervisor of P & H Exploration Company and has had sufficient mining experience to execute the program that he has proposed.

DESCRIPTION OF PROPERTY AND PAST OPERATION

A trench cut into the hill has exposed bedrock for a distance of 35 feet horizontally and is about 15 feet deep at the west end where an inclined shaft has been started. Track has been laid along the trench and leads to an ore bin which was constructed to allow a truck to drive under and load.

The only other work performed on the property was the core drilling which intersected the mineralized zone 80 feet down dip from the surface outcrop.

No ore has ever been shipped from the property. A 200-pound sample was sent to Eugene, Oregon, by the applicant to be used in experimenting with the "Cully ore disintegrator."

Assays on record for the Blackbird claim are as follows:

Sample no.	Width (feet)	%WO_3	%Cu	%Zn	Au (oz./T)	Ag (oz./T)	Remarks
154512		1.5					Taken by applicant and given to an unreliable assayer.
1		0.15					Reconnaissance report by USBM engineer.
CCW-23	4.5	None	0.0	Tr	Tr	0.1	Channel sample by field examiners.
CCW-24	4.0	None	0.0	0.0	Tr	Tr	do.
CCW-25	4.8	0.02	0.02	Tr	Tr	0.1	do.
CCW-26	6.3	Tr	0.03	0.2	Tr	0.2	do.
CCW-27	6.0	0.02	0.03	0.0	Tr	0.02	do.
CCW-28	--	0.14	0.06	0.55	Tr	0.1	Chip of stockpile by field examiners.

GEOLOGY

The property lies at about 2,900 feet elevation and about 500 feet above the valley of Salmon Creek and the town of Concomully. The area is underlain by a series of metamorphosed sedimentary rocks of Carboniferous(?) age that have been intruded by a granitic mass of varied petrologic character and which may correlate with the Similkameen batholith to the north.

Locally, the rocks consist mostly of granite. Some schistose rocks were seen as float but their outcrops were not found. The open cut (fig. 2) exposes both a fine-grained and a coarse-grained granite in which two types of metamorphic rocks are found.

One of the metamorphic rock types occurs as schlierenlike bands of biotite schist and may represent remnants of xenoliths. The other metamorphic rock type is a green fine-grained material associated with the faults, joints, and fractures, and appears to be an alteration product of hydrothermal activity.

The only observable structures are those exposed in the cut. These consist of three pronounced joint systems and some faulting. Two sets of joints strike northeasterly, one set dipping to the southeast and one dipping to the northwest. The third set of joints strikes northwesterly and dips nearly vertically to the northeast.

Sulfide minerals are common on joint surfaces and in fractures and are abundant where the green altered rock is present. The strongest mineralization is in the north wall of the cut where altered rock parallels joint surfaces and the sides of a fault (fig. 2).

The sulfide minerals consist of pyrite, chalcopyrite, sphalerite, and galena that are found more abundantly in fractures and on joint surfaces although they also are disseminated throughout the rock. The scheelite is associated with these minerals but is not disseminated throughout the rock to the same extent. The property was examined under fluorescent light after dark. The scheelite is seen almost entirely as surface coatings, although a small amount is disseminated. This disseminated type of occurrence was found along outcrops several hundred feet westerly from the open cut.

A vein, such as described in the application, was not seen. At the northwest end of the cut the applicant has started the collar of an inclined shaft in which the surface of a pronounced joint serves as the hanging wall. A fault, strongly mineralized on the northeast wall of the cut but essentially barren on the southwest wall, crosses the shaft collar. The applicant verbally defined the vein as the zone within the shaft collar. Either this zone or a similar zone was intersected at about 80 feet in the drill hole, but an intersection with the fault could not be established, possibly because of the poor core recovery. There are no outcrops along the strike of the fault zone and the applicant has done no drilling or bulldozer work in an attempt to expose it laterally.

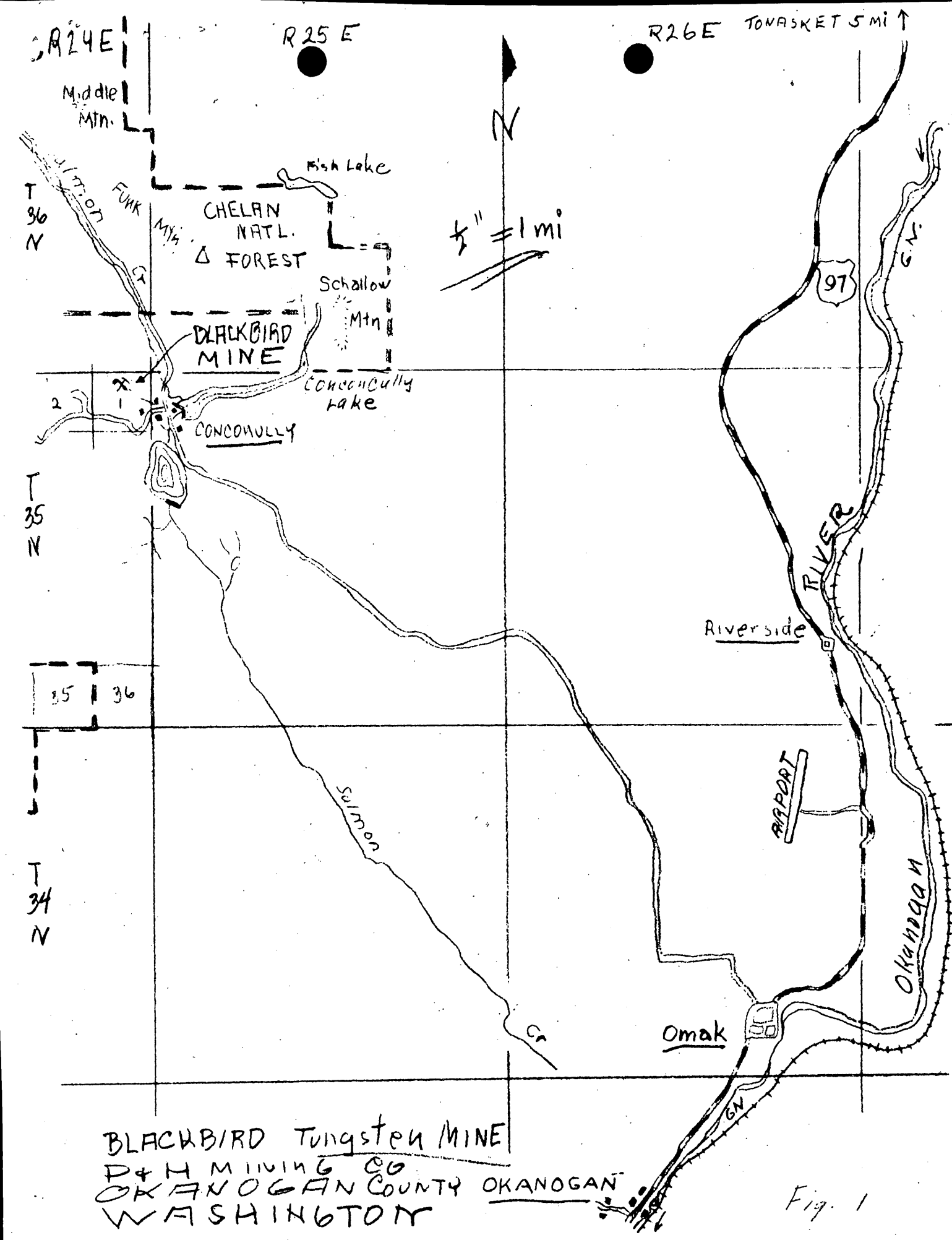
APPLICANT'S PROPOSAL

P & H Exploration Corporation proposed to diamond drill 4 holes, each to a depth of 160 feet, and excavate a 50° incline shaft to a depth of 400 feet. The estimated total cost is $68,983.

The applicant's proposal could be slightly modified to fit the terrain and geologic conditions. Because the mineralized zone dips at about 48°, it lends itself well to diamond drilling. The lateral extent of the zone could be determined by drilling and then be followed with a second stage of shaft sinking and drifting.

As the field examiners believe this property does not warrant DMEA assistance, no breakdown of cost is submitted.

Attachments (2)
Distribution:
DMEA(3)
USBM(5)
USGS(SRO)
Docket
Albee



BLACKBIRD Tungsten MINE
P&H MINING CO
OKANOGAN COUNTY
WASHINGTON

Fig. 1

Dmenta

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 3 1957

DATE	INITIALS	CODE
9/3	G	220
9/3	WSM	400

So. 157 Howard Street
Spokane 4, Washington

August 29, 1957

Mr. Kenneth H. Hopp
Attorney-at-Law
P. O. Box 336
Bridgeport, Washington

Re: Docket No. DMEA-4790 (Tungsten)
P & H Exploration & Mining Corp.
Blackbird Claim
Okanogan County, Washington

Dear Mr. Hopp:

This is in reply to your letter of August 25, 1957, regarding the progress being made in processing your application.

A report on your property is being prepared and will be forwarded to Washington as soon as possible for consideration by the Defense Minerals Exploration Administration. I regret that we are not permitted to inform you of the contents of the report. If a contract is offered, we should hear in 30-60 days and will notify you immediately. If no contract is offered, you will be notified by the Administrator of DMEA in about the same period of time.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

cc: DMEA(2) ✓ w/2 copies of incoming
USBM(2)
Albee w/copy of incoming

PHONE 492-

KENNETH H. HOPP
ATTORNEY-AT-LAW
1126 COLUMBIA AVENUE
BRIDGEPORT, WASHINGTON
P. O. BOX 336

RECEIVED
BUREAU OF MINES
AUG 27 1957
SPOKANE, WASH.

August 25, 1957

Department of the Interior
Defense Minerals Exploration Administration
1201 North Division Street
Spokane 2, Washington

Re: Docket No. DMEA-4790
Blackbird Mine
Okanogan County, Washington

Gentlemen:

Thank you for your letter of the 7th to Mr. Holler, our president, and for your inspection of the mine on the 15th. We were please at this prompt attention.

We would appreciate knowing, as well as is possible, when we can expect a decision on our application for a loan. Right now we are putting every cent we can raise into exploration to save time. But we recognize that we will have to have cash on hand when the loan goes through (assuming that it does) and therefore need to make plans based on that.

We wonder if we could learn the substance of the report in time to base alternative plans in the event that that is necessary. Perhaps a copy of the report (if it is permitted to furnish us with it) would be the most convenient way of handling the matter. Certainly the report would be useful for other purposes.

Very Truly Yours

Kenneth H. Hopp

Kenneth H. Hopp

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 1 1957

DATE	INITIALS	CODE
8/1	P.K.	220
8/2	WSM	400

July 29, 1957

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4790 (Tungsten)
P & H Exploration & Mining Corp.
Blackbird Mine
Okanogan County, Washington

Dear Mr. Selfridge:

Please refer to our letter of July 16, 1957, transmitting the application on the Blackbird Mine, Okanogan County, Washington.

Enclosed are three copies of each of the following:

1. Letter dated July 26, 1957, from Kenneth H. Hopp, applicant.

2. Assay report dated July 22, 1957, from William H. Stowell and Company.

3. Certified copies of a mining lease dated May 24, 1956, between Frank Stevens, Geralding Greene and Robert Greene, lessors, and George W. Heller and Dennis Pearl, lessees.

We have retained one copy of each for our files.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I,

Enclosures

cc: USBM (2)
Geologist

KENNETH H. HOPP
ATTORNEY-AT-LAW
1136 COLUMBIA AVENUE
BRIDGEPORT, WASHINGTON
P. O. BOX 336

RECEIVED
JUL 29 1957

July 26, 1957

Defense Minerals Exploration
Administration
Bureau of Mines
North 1201 Division
Spokane, Washington

Re: DMEA 4790

Gentlemen:

Enclosed are 4 copies of an assay report and the mining lease of the P & H Exploration and Mining Corporation, of Box 18025, Bridgeport, Washington. I submitted the application to your office on the 15th.

Please advise as to what further information may be necessary.

Very Truly Yours

Kenneth H. Hopp

DMEA

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DMEA
RECEIVED AUG 1 1957
DATE | INITIALS | CODE

Wm. H. Stowell & Co.

Chemists and Assayers
421 Sprague Avenue
Telephone Main 5924

Memorandum of Assay of Rock made for Spokane Wash. July 22, 1957
P & H Exploration Co.

Tungsten Oxide
No. 1 1 5/10%

No. 154512 s/Wm. H. Stowell & Co. Assayers
HS

I certify the foregoing to be a true and correct copy of an assay report in the files of the P & H Exploration and Mining Corporation.

Kenneth H. Hopp
Secretary

OFFICIAL FILE COPY
D M E A
RECEIVED AUG 1 1957

DATE	INITIALS	CODE

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

OFFICIAL FILE COPY
DMEA
IN REPLY REFER TO:
RECEIVED NOV 13 1957

DATE	INITIALS	CODE
11/14	gb	220
	WSM	400

November 13, 1957

Memorandum

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

From: W. P. Williams, U. S. Geological Survey

Subject: Review of Field Examination Report, DMEA 4790 (Tungsten), P & H Exploration and Mining Corporation, Blackbird Mine, Okanogan County, Washington

The examining team report that geologic conditions on the applicant's property are not favorable for the presence of important tungsten ore bodies. They point out that the strongest geologic structures present are joint systems. Scheelite is not disseminated through the rock, as are sulphides, but rather is found as a fracture coating.

Of a group of six samples taken by the examiners, only one showed more than a trace of WO_3. That sample was from a hand picked stockpile.

I agree with the recommendations of the examining team for denial of the application because an ore discovery does not seem likely to result from the proposed work.

W. P. Williams

W. P. Williams

CERTIFICATE

STATE OF WASHINGTON }
COUNTY OF DOUGLAS } ss

Kenneth H. Hopp, being first duly sworn, on oath, deposes and says: That the attached Mining Lease is a true and correct copy of the original on file in the office of the P & H Exploration and Mining Corporation; that he prepared the same from said original; that he is the secretary of said Corporation and as such has custody of said lease, and that the seal affixed thereto is the original seal of the said P & H Exploration and Mining Corporation.

Dated this 26th day of July, 1957.

Kenneth H. Hopp

Subscribed and sworn to before me this 26th day of July, 1957.

Mary L. Caldwell
Notary Public in and for
The State of Washington
Residing at Bridgeport

KENNETH H. HOPP
Attorney-At-Law
Bridgeport, Wash.

MINING LEASE

THE AGREEMENT, Made and entered into this 24th day of May, 1956, by and between FRANK STEVENS, GERALDINE GREENE, and ROBERT GREENE, hereinafter called the Lessors, and GEORGE W. HELLER and DENNIS PEARL, hereinafter called the Lessees,

WITNESSETH:

The Lessors, are the owners of and have and interest in the following described mining property and they desire to lease the same to the Lessees, and the Lessees desire to lease same,

NOW THEREFORE: the Lessors, for and in consideration of royalties and payments resolved to be made in consideration of the covenants and agreements herainafter expressed and by the Lessees to be kept and performed and in consideration of $1.00 paid to said Lessors by said Lessess, the receipt of which is hereby acknowledged and for other good and valuable consideration said Lessors hereby do demise, lease and let to the Lessees all the following described mining property situated in the Conconully Mining District, County of Okanogan, State of Washington as follows, to-wit:

> BLACKBIRD CLAIM as filed with the County Auditor of Okanogan County and more particularly described as follows: In Section 1 - Twp 36, Range 24, Okanogan County.

The term of this Lease shall commence with the date of this Agreement and shall continue for a term of 50 years, unless sooner forfeited or determined through the violation of any covenant hereinafter set out or except as otherwise provided for or by mutual agreement of the parties hereto.

The Lessees will pay to the Lessors 10% of any and all net income from any and all minerals less freight and smelting charges. It being understood and agreed between the parties that the amount of royalty paid hereunder is to be determined from the smelter returns less freight and smelting charges.

In the event the Claim is determined to be a profitable operation the Lessees agree to enter upon said Mining property and work the same so as to take out the greatest possible amount of minerals. The Lessees covenant to open and start development work on said mine within 30 days of the execution of this lease and in the event it is determined to be a profitable operation as above set out, the Lessees further agree to have full time mining operations on said premises within two years from date of this agreement.

It is further understood and agreed between the parties that the Lessees will furnish all necessary equipment and do all development work and mining operations at their, the Lessees expense.

It is further agreed that the royalties herein provided for shall be paid to the Lessors on the first day of January and on the first day of July, of each year after the execution of this Lease. The Lessees agree to keep the usual books of account and shall furnish the Lessors a balance sheet each month showing returns from said mine and shall furnish to Lessors a balance sheet each month showing returns from said mine and shall furnish to Lessors a copy of an audit sheet to be made by Certified Public Accountant. The Lessors shall have the right to inspect all books and papers at any and all rea-

KENNETH H. HOPP
Attorney-At-Law
Bridgeport, Wash.

sonable times and the Lessees hereby agree to furnish the Lessors duplicate copies of any and all smelter returns sheets or other evidence of minerals sold to show the income from said mine.

Lessees agree to do any and all assessment work each year on behalf of the Lessors on said Claim so that such will be held in the name of the Lessors. If any persons or corporation should establish a prior right to any and all of said Claim herein lease, then and in that event the Lessees hereby waive and relinquish any and all right or claims of action of any kind or nature which they might have against the Lessors. The Lessees hereby agree that from and after such time that full time mining operations are undertaken on said premises within the two year limit above set out that thereafter said mining operations shall be continuance and in the event there is no mining operations after said time performed on said Claim for a period of 90 days, delay due to fire, explosion or the elements excepted, then this lease is to be forfeited as hereinafter provided.

The Lessors shall have the right to enter upon said property at any and all reasonable times for the purposes of inspection.

It is understood and agree that the Lessees shall have the right to sub-let this property and sell or assign this Lease, subject to the terms of this Lease, without the consent of the Lessors.

The Lessors herein grant to the Lessees during the term of this Lease the option to purchase the said Claim for $30,000.00, and upon the tender of such payment, the Lessors will make and execute and acknowledge at their own cost and charge a good and sufficient Warranty Deed of said Claim to be delivered to the Lessees. The forfeiture, surrender or termination of the above Lease for any cause shall render this option void. It is understood and agreed between the parties that this option may be exercised by the Lessees at any time upon 90 days written notice to Lessors before the expiration of the term of this Lease. It is further agreed that Notice by Registered Mail to the last known address of Lessors or personal notice shall be sufficient.

It is further understood and agreed between the parties that the Lessors can sell their interest or assign same in the Lease, subject to the terms and conditions of this Lease, upon 60 days notice by Registered Mail or personal notice to the Lessees.

It is further understood and agreed between the parties that the Lessor Frank Stevens has a 50% interest in said Claim and Geraldine Greene and Robert Greene each have a 25% interest in this Claim and the Lessees hereby agree and it is agreed and understood between the parties that all royalties paid under this Lease shall be paid to said individual Lessors directly on this basis.

The Lessees agree to comply with all laws or regulation now in force in the State of Washington, or the United States or which hereafter come into force in carrying out said mining operations in development work that is necessary for the protection and preservation of Lessors Claim and the mineral rights on said premises in favor of the Lessors.

The Lessees agree to assume all risk of loss or damage to said premises or any part thereof or improvements thereon after date of this agreement. The Lessees further agree to assume

KENNETH H. HOPP
Attorney-At-Law
Bridgeport, Wash.

the risk of the taking of any part of said property or any part thereof for public or private use by eminent domain proceedings and the taking of such or the loss of part or all of said property shall not constitute a failure of consideration.

The Lessees hereby agree to assume any and all liabilities of any kind or nature arising in or about said premises or which arise in the operation of said mine or in any way related thereto and they agree to hold the said Lessors harmless from any liability by reason of activities on said premises and agree not to suffer any liens to attach to said premises because of mining operations.

This Agreement shall be binding upon the parties hereto, their heirs, executors and assigns, In the event legal action is necessary to enforce this Agreement, then in that event the Lessees agree to pay Court costs and a reasonable attorney's fee.

TIME IS OF THE ESSENCE and it is hereby agreed that upon the non-payment of rent or the breach of any of the covenants of this Lease on the part of the Lessees, the term of this Lease shall, at the option of said Lessors, shall expire and work a forfeiture of this Lease and the Lessors may enter upon and take possession of said premises, and the Lessees hereby waive all notice of forfeiture and demand for possession.

In Witness Whereof, the parties have hereunto set their hands and seals this 24th day of May, 1956.

s/Frank W. Stevens s/George W. Heller

sGeraldine Greene S/Dennis Pearl

Robert L. Greene LESSEES

LESSORS

STATE OF WASHINGTON)
SS
COUNTY OF OKANOGAN)

Before me on this 24th day of May, 1956, personally appeared Frank Stevens, Geraldine Greene, Robert Greene, and George W. Heller, to me known to be the individuals described herein and who executed the within and foregoing instrument and acknowledged that they signed and sealed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

Given under my hand and seal the day and year above written.

SEAL

sJames T. Nelson
Notary Public in and for the State of Washington, residing at Brewster

STATE OF WASHINGTON)
SS
COUNTY OF DOUGLAS)

I, Mary L. Caldwell, a Notary Public in and for the said State, do hereby certify that on this 24th day of May, 1956, personally appeared before me Dennis Pearl, to me known to be the individual described in and who executed the within instrument, and acknowlged that he signed and sealed the same as his free and voluntary act and deed for the uses and purposes therein mentioned.

In Witness Whereof, etc.

s/Mary L. Caldwell
Notary Public, etc.

KENNETH H. HOPP
Attorney-At-Law
Bridgeport, Wash.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Chapman	400
	Martin	400
7/26	Martin	130
"	Johnson	110
7/26		~~400~~
	C	~~115~~
		400

JUL 26 1957

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4790 - Tungsten
P & H Exploration and Mining
Corporation
Blackbird Mine
Okanogan County, Washington

Dear Mr. Weissenborn:

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

Copies of memoranda dated July 22 and 25, 1957, by R. E. Nelson, Geological Survey, and R. W. Halliday, Bureau of Mines, respectively, relating to the project are enclosed. Also enclosed is an extra copy of the application for the use of the Field Team.

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee (2/6)

APPROVED:

Frank D. Lamb (2/6)
Member, Bureau of Mines

Thor H. Kiilsgaard (2/6)
Member, Geological Survey

Enclosures

TLChapman/esf - 7/25/57
cc to: Docket
Admr. Read. File
Code 400
FT REG I
Oper. Comm.
Messrs. ~~G. DeRuff, Jr.~~, USBM
T. H. Kiilsgaard, USGS
R. W. Halliday

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Chapman	400
	Martin	400
7/26	Martin	130
"	Johnson	110
"	Mittendorf	100
		225

7/26 Lamb (130)
7/26 Kulsgaard (130)

JUL 26 1957

P & H Exploration and Mining Corporation
P. O. Box 18025
Bridgeport, Washington

Re: Docket No. DMEA-4790 - Tungsten
Blackbird Mine
Okanogan County, Washington

Gentlemen:

The above-docketed application for exploration assistance for tungsten ores has been reviewed by the Division of Iron and Ferro-Alloys, of the Defense Minerals Exploration Administration, and referred to Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region I, South 157 Howard Street, Spokane 4, Washington, for a field examination of the property.

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

TIChapman/esf - 7/25/57
cc to: Docket
Admr. R. File
Oper. Comm.
Code 400
FT REG I
Messrs. G. DeHuff, Jr., USBM
T. Kiilsgaard, USGS

8623

RECEIV. JJL		
DATE	INITIALS	CODE
7/25	P.K.	220
7/26	WSay	400

[illegible]
[illegible] OF THE [illegible]
[illegible] OF MINES
Washington 25, D. C.

Date July 25, 1957

Mat. Docket No. 4790
M.E. Contract No.
Commodity Tungsten
Name of applicant P & H Exploration & Min. Corp.
Name of property Blackbird Mine
Location of property Okanogan County, Wash.
Estimated cost of prop. $68,983.00

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

From: R. W. Holliday, Commodity Specialist, Br. of Ferrous Metals and Ferroalloys

Subject: Review of New Application
(Application, Field Team Report, etc.)

1. Date of subject document 7/19/57 2. Date received by reviewer 7/24/57

3. Adjacent parts on this property known to reviewer: Yes [ ] No [X]

4. Adjacent parts of nearby properties known to reviewer: Yes [ ] No [X]

5. Information available on past production: Yes [ ] No [X]

6. Other pertinent factors known to reviewer: Yes [ ] No [X]

7. Explain items marked yes above:

8. Factors meriting special consideration:
a. Location [ ]
b. Ownership [X]
c. Evidence of mineralization [X]
d. Geology [X]
e. Proposed exploration method [X]
f. Alternate exploration method [X]
g. Costs [X]
h. _____ [ ]

9. Action advised:
a. Obtain information from applicant [ ]
b. Refer to Field Team [X]
c. Reject [ ]
d. Agree with Field Team [ ]
i. Consult w th Mr. _____ at _____ AEC office.
e. Disagree with Field Team [ ]
f. Suggest alternate plan [ ]
g. Request another examination [ ]
h. Approval [ ]

10. Remarks: (Use back of page if necessary) The application does not provide enough information for an appraisal. I recommend referral to the Fiel Team for appropriate action.

R W Holliday
R. W. Holliday

IN REPLY REFER TO:

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

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 23 1957

DATE	INITIALS	CODE
7/23	P.K.	220
7/23	WSM	400

July 22, 1957
Re: DMEA 4790
P & H Exploration & Mining Corp.
Blackbird Mine
Okanogan County, Washington
$68,983.00 - Tungsten

Memorandum

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

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

Subject: Review of application

The applicant requests assistance in exploring, by drilling and inclined shaft sinking, a scheelite-bearing skarn zone 30 feet wide, between walls of granite.

Preliminary work consists of a crosscut trench and a diamond drill hole 94 feet deep. The core is supposed to show scheelite by 'black' light but no assays have been run. Besides the tungsten mineralization lead-zinc and copper minerals are found in the skarn zone. No assays accompany the application.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

July 19, 1957

P & H Exploration & Mining Corp.
P. O. Box 18025
Bridgeport, Washington

Subject: DMEA 4790
Re: Application

Gentlemen:

Your application for exploration assistance, dated July 15, 1957 submitted to our office at Spokane, Washington has been assigned Docket Number 4790 and referred to the Division of Iron and Ferro Alloys in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Chief
Operations Control and
Statistics Division

Copy to:
Region I

3571

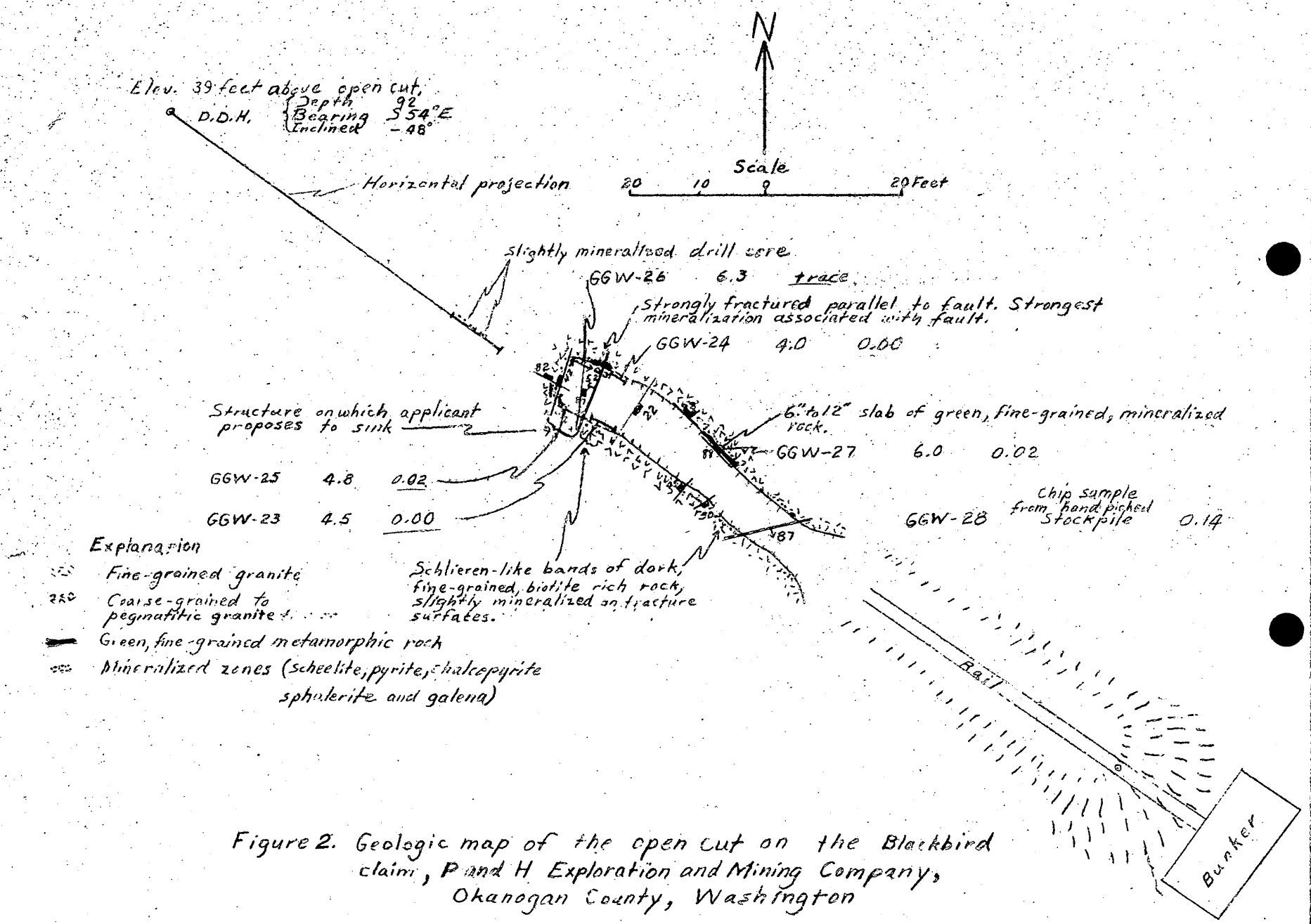

Figure 2. Geologic map of the open cut on the Blackbird claim, P and H Exploration and Mining Company, Okanogan County, Washington

H.F. Albee, September 1957