DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2803

DO NOT DETACH THIS SLIP

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EXPLORATION ASSISTANCE

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

Cys to USBM,USGS, 1 cy retained in Reg. II

To:	Code 400 Rm 3538	Date	12/9/52
To:	Oper Com	Date	12-29-52
To:	Oper Com	Date	3-18-53
To:		Date	
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DO NOT DETACH

CONTROLLED DOCUMENT

MAR 1 8 1953

2803

Mr. Maxwell R. Baker
7212 East Liberty Street
Spokane 6, Washington

Re: Docket No. DMEA 2803 - Tungsten
Maxwell R. Baker
N. ½ of NW. ¼, SW. ¼ of NW. ¼, and
the W. ½ of SW. ¼, Sec. 20, T. 30 N.,
R. 42 E.
Stevens County, Washington

Dear Mr. Baker:

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

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

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

cc: Docket
Field Team, Region2
Code 400
Admn. Read. File
R. W. Geehan, USBM
D. M. Lemmon, USGS
Open Corr.

FARutledge/hhb
3/16/53

402

MAR 15 1954

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

Re: Docket No. DMEA 2003 - Tungsten
Morrell R. Baker
Sec. 28, T. 30 N., R. 42 E.
Okanogan County, Washington

Dear Mr. Weissenborn:

Reference is made to the subject docket and Mr. Puffett's letter of March 8, 1954, notifying the applicant, Mr. Morrell R. Baker, that a new examination of the subject property was scheduled for March 15, 1954. Mr. Baker's former application for exploration assistance was denied by letter of March 18, 1953, in accordance with your recommendations.

It is the policy of DMEA to re-examine properties under the conditions that: (1) the applicant submits on Form MF-263, for our inspection, revised application covering new work, (2) the revised application indicates that the new work has exposed significant mineralization.

We call your attention to the foregoing because of your recent arrangement of a similar re-examination for the application of Messrs. Royer and Leep (Docket No. DMEA 2185 - Chromium). Our belief is that by following the procedure outlined above we can avoid the necessity for making any unwarranted re-examinations.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Director, Bureau of Mines

Philip W. Guild

Director, Geological Survey

FARutledge:foc 3-17-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg. 2
R. W. Geehan, USBM
T. P. Thayer, USGS

Denial file

Administrator, DMEA

March 16, 1953

Iron and Ferro-Alloys Division, DMEA

Denial of application for exploration assistance in the amount of $2,600.00
Docket No. DMEA 2803 - Tungsten
Maxwell R. Baker
N. ½ of NW. ¼, SW. ¼ of NW. ¼, and the
W. ½ of SW. ¼, Sec. 20, T. 30 N., R. 42 E.
Stevens County, Washington

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

1. The applicant proposed to bulldoze cross trenches on a ridge where hubnerite-bearing quartz float had been found. Examination by the Field Team indicated the ridge was an esker and that there was no probability of finding a tungsten deposit.

2. The examining Field Team recommended denial.

3. The Field Team recommends denial.

4. The Commodity Divisions of the U. S. Geological Survey and the U. S. Bureau of Mines concur in the denial.

W. S. Martin

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

cc: Docket
Code 400
Admn. Read. File

IN REPLY REFER TO:

G-MD-CF

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

March 12, 1953

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 12 1953

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Field Report
Maxwell Baker
Stevens County
Washington

DMEA-2803
Tungsten

This property was examined February 26, 1953, by R. F. Robinson of the Geological Survey. Robinson recommends that the exploration proposal be denied because it is probable that the huebnerite-bearing quartz float is derived from a distant source not on the property.

I concur with the recommendation for denial.

D. M. Lemmon

Copy retained 400

400 file (denials)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

March 8, 1954

Mr. Maxwell R. Baker
7212 East Liberty Street
Spokane 6, Washington

Re: Docket No. DMEA 2803 (tungsten)
Maxwell R. Baker
Stevens County, Washington

Dear Mr. Baker:

Mr. W. S. Anderson, Bureau of Mines and myself plan on being in Stevens County, Washington, during the week of March 15th. It will be convenient for us to visit your property in the afternoon of Monday, March 15.

If for any reason you do not plan on being at your property on the 15th, please notify us; otherwise, we will meet with you then.

Yours very truly,

Willard P. Puffett
Geologist

cc: DMEA (2)
USBM (2)
Docket

400
copy

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

[redacted]C.
[illegible] Howard Street
[illegible] 4, [illegible]ington

March 4, [illegible]

[illegible]
[illegible]

denied

Mr. George [illegible] Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
[illegible]ington 25, D. C.

Re: [illegible] (Tungsten)
Maxwell Bauer
Stevens County, [illegible]ington

Dear Mr. Selfridge:

Enclosed are four copies of a report by [illegible] Robinson, Geologist, U. S. Geological Survey, on Mr. Maxwell Bauer's tungsten property, Stevens County, Washington.

Mr. Robinson believes that the applicant is attempting to find the source of tungsten float in what is obviously transported material and that he has little chance of succeeding.

Mr. Robinson recommends that Mr. Bauer be denied Government assistance and the Field Team concurs.

By DMEA Field Team, Region [illegible]

[illegible] Killingsord, Acting Team Leader
(U. S. Geological Survey)

Thomas [illegible] Howard, Acting Member
(U. S. Bureau of Mines)

Enclosure
cc: [illegible] (2)
Robinson

[illegible]
DMEA OPERATING COMMITTEE

3-13-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
No. 157 Howard Street
Spokane 4, Washington

February 2[illegible], 1953

Memorandum

To: DMEA Field Team, Region II

From: R. F. Robinson, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-2803 (Tungsten), Application for exploration assistance, Maxwell Baker, Stevens County, Washington.

RECOMMENDATION

It is recommended that Government assistance be denied this applicant because of insufficient indications of the presence of ore and the unlikelihood that favorable geologic environment for ore occurrence will be encountered in the present operation.

On February 25, 1953, the writer visited the property of Maxwell Baker in the company of the owner. Mr. Hundhausen of the U. S. Bureau of Mines had previously made a brief examination of the property. Mr. Hundhausen is now in Cuba and consequently is not available for consultation.

Mr. Baker has applied for assistance on the basis of the occurrence on his property of rather abundant quartz vein float which contains large crystals of the mineral hubnerite. The float is confined closely to a regular, narrow ridge some 2,000 feet in length, standing 35 to 40 feet above the bottom of the gullies which bound it. The ridge trends S. 32° W. and is not more than 75 feet in width at the top. Surrounding it on its flanks are higher, irregular ridges.

Mr. Baker has the theory that the vein matter is derived from bedrock beneath the ridge by weathering and erosion, i.e., it is nearly in place. On this assumption a bulldozer cut was put across the ridge at a point where float was most abundant and at right angles to the trend of the ridge. The cut is some 35 to 40 feet in length and reaches a maximum depth of 10 to 12 feet at the ridge crest. The cut is in what is obviously glacial till. A test hole was dug to a depth of 9 feet below the bottom of the cut, and it is in red-brown clay containing abundant small gravel and pebbles. Thus, bedrock is more than 19 feet below the surface on the ridge,

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(date)

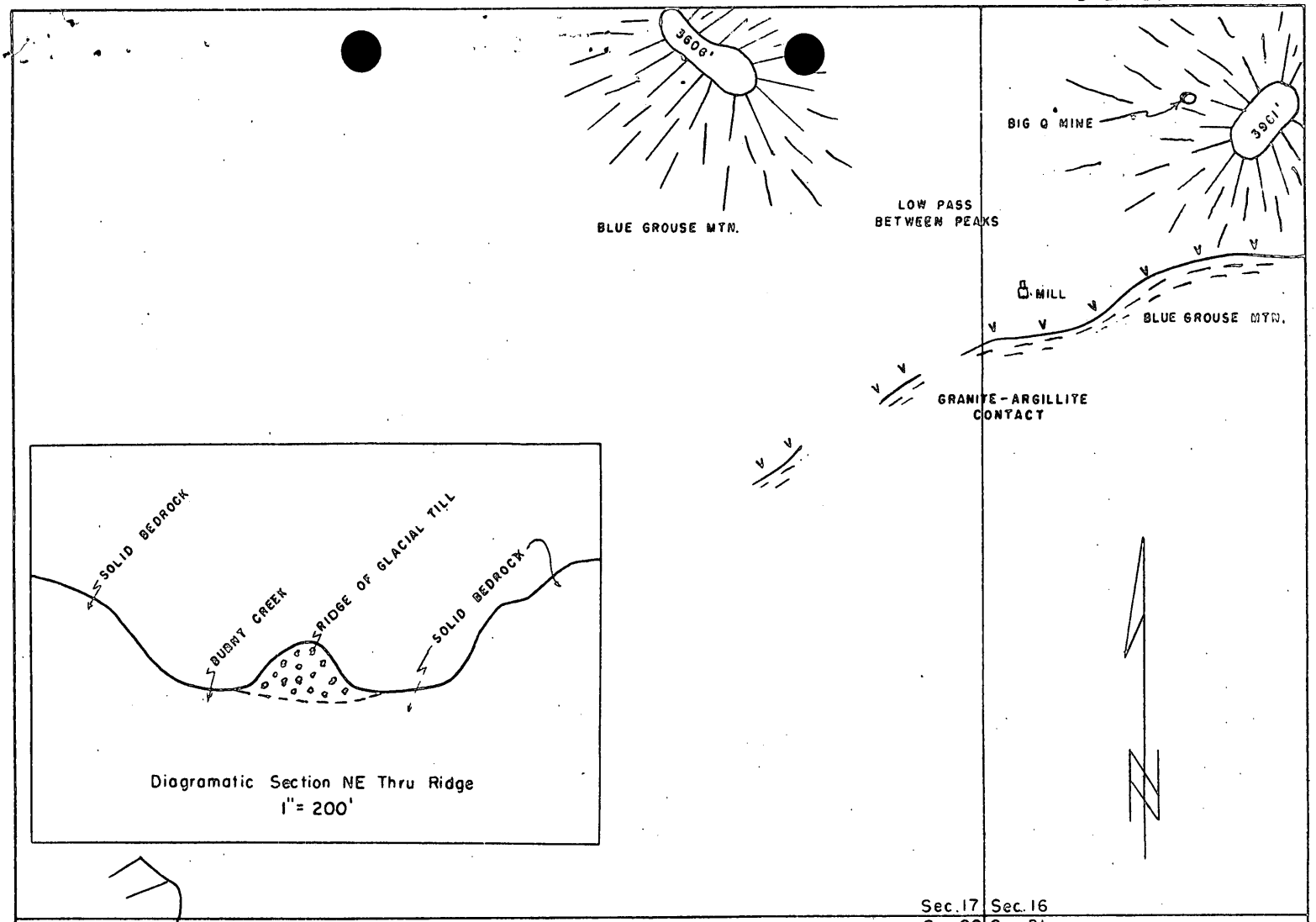
and it is not feasible to attempt to reach it by bulldozing.

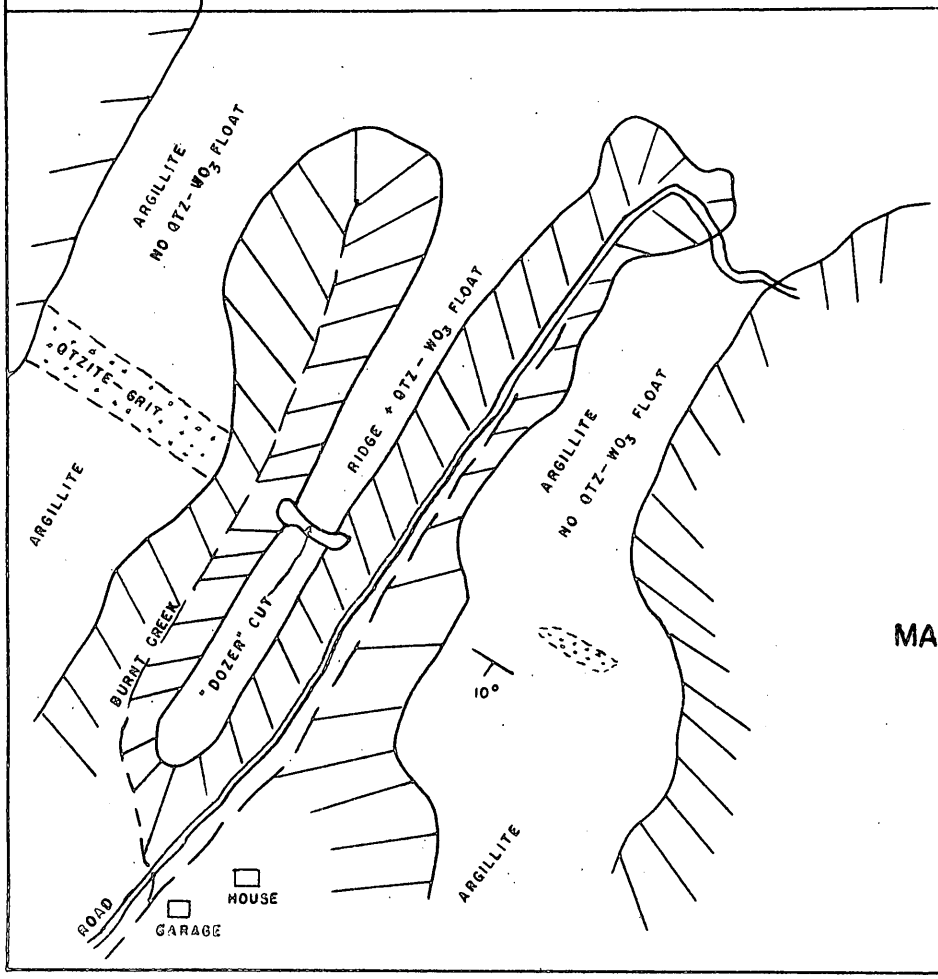
As indicated on the rough diagrammatic map, a rather wide bold outcrop of silicified quartzite and grit occurs on the parallel ridge on the northwest flank. The bed strikes about N. 60° W. and no dip could be determined. The probable extension of this bed occurs on the ridge which lies on the southeast flank, but it does not occur in the ridge containing the bulldozer cut. Mr. Baker thought that this was a large quartz vein. He felt it was odd that it contained no tungsten mineralization.

Although bedrock cannot be found in the ridge containing the vein float, argillite outcrops as well as the quartzite do occur immediately adjoining ridges. It seems very probable that this ridge containing the float is a topographic feature caused by glacial action--an esker--and that no bedrock will be encountered at depths which are in the range of bulldozing operations. The trend of the ridge is directly in line with the low saddle in Blue Grouse Mountain on which the Big Q tungsten mine is being operated. Their ore is very similar in character to the material found on the ridge. It is my opinion that the float has been derived by glacial and water action from the vicinity of Blue Grouse Mountain and deposited as found. The narrow confined occurrence suggests that it came from a small localized area and was transported in a confined channel such as subsurface ice channels.

It is my opinion that Mr. Baker is wasting his efforts in attempting to find the source of the float in what is obviously transported material, and there is nothing to justify granting Government aid to allow him to continue.

Distribution:
DMEA-Orig. & 3
USBM (2)
USGS (GRO)
Docket
Robinson





DIAGRAMATIC SKETCH MAP

MAXWELL BAKER'S PROPERTY

Stevens County, Washington

Approximate Scale: 1" = 500'

R.F.R.

DEC 2 8 1952

Mr. Maxwell R. Baker
7212 East Liberty Street
Spokane 6, Washington

Re: Docket No. IMRA 2803 - Tungsten
N½ of NW¼, SW¼ of NW¼, and the
W½ of SW¼, Sec. 20, T. 30 N.,
R. 42 E.
Stevens County, Washington

Dear Mr. Baker:

Your application for exploration assistance on the above-noted property has been reviewed and is being referred to Mr. A. E. Weissenborn, Executive Officer, Region II, South 157 Howard Street, Spokane 8, Washington, for a field examination.

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you can render the members of the field team in the examination will be appreciated.

Sincerely yours,

O. O. Mittendorf

Administrator

TLChapman:le
12/23/52

CC: Docket
Admn. Read. File
FT. Reg. 2
Op. Com.
Code 400
R. V. Geehan, USBM
D.M.Lemmon, USGS

400

DEC 29 1952

Mr. A. K. Weissenborn
Executive Officer, DMEA Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 2803 - Tungsten
N½ of NW¼, SW¼ of NW¼, and the
W½ of SW¼, Sec. 20, T. 30 N., R. 42 E.
Stevens County, Washington

Dear Mr. Weissenborn:

We are in receipt of your letter of December 4, 1952, enclosing an application by Mr. Maxwell R. Baker for exploration assistance on the above-noted property.

We observe that the Field Team will make an early examination, and we will hold any action in abeyance until we hear from you concerning the results of that examination.

Sincerely yours,

Frank E. Johnson

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

Copy to: Docket
Admn. Read. File
FT. Reg. 2
Op. Com.
Code 400
D.M.Lemmon, USGS
R.W.Geehan, USBM

TLChapman/le 12/23/52

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
[redacted]
So. 157 Howard Street
Spokane 4, Washington

December 4, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 1952

Mr. Frank E. Johnson, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Dear Mr. Johnson:

Attached are the original and two copies of an application submitted by Maxwell R. Baker, 7212 East Liberty, Spokane, Washington, for the exploration of a tungsten prospect in Stevens County, Washington.

An examination will be scheduled as soon as possible so that the property can be seen before snow makes the area inaccessible.

Sincerely yours,

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

cc: USGM (2)
Kirkham

(dictated 11/28/52)

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 1952

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

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

Not to be filled in by applicant

Docket No. dMEa-2803
Metal or Mineral
Date Received 12/8/52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address:

Maxwell R. Baker
7212 East Liberty
Spokane, 6, Wash.

(*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 N½ of the NW¼, the SW¼ of the NW¼ and the W½ of the SW¼ of the Section 20, Township 30 North, Range 42 East of the Willamette Meridian, in the County of Stevens and State of Washington.

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

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

(*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. None

(*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. Tungsten in quartz veins.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. There is a railway at Loon Lake(5miles west of this property)

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

Manpower good, water and Electrical power on premises.

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 60 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. Prospector, part-time

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.). Bulldozer Approx. $12/hr.

(*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. See attached sheet.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. None

(*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. None

(*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. None

(*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. None

(*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. See attached sheet.

(*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. None

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?

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

Explain in detail on acompanying paper.

CERTIFICATION

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

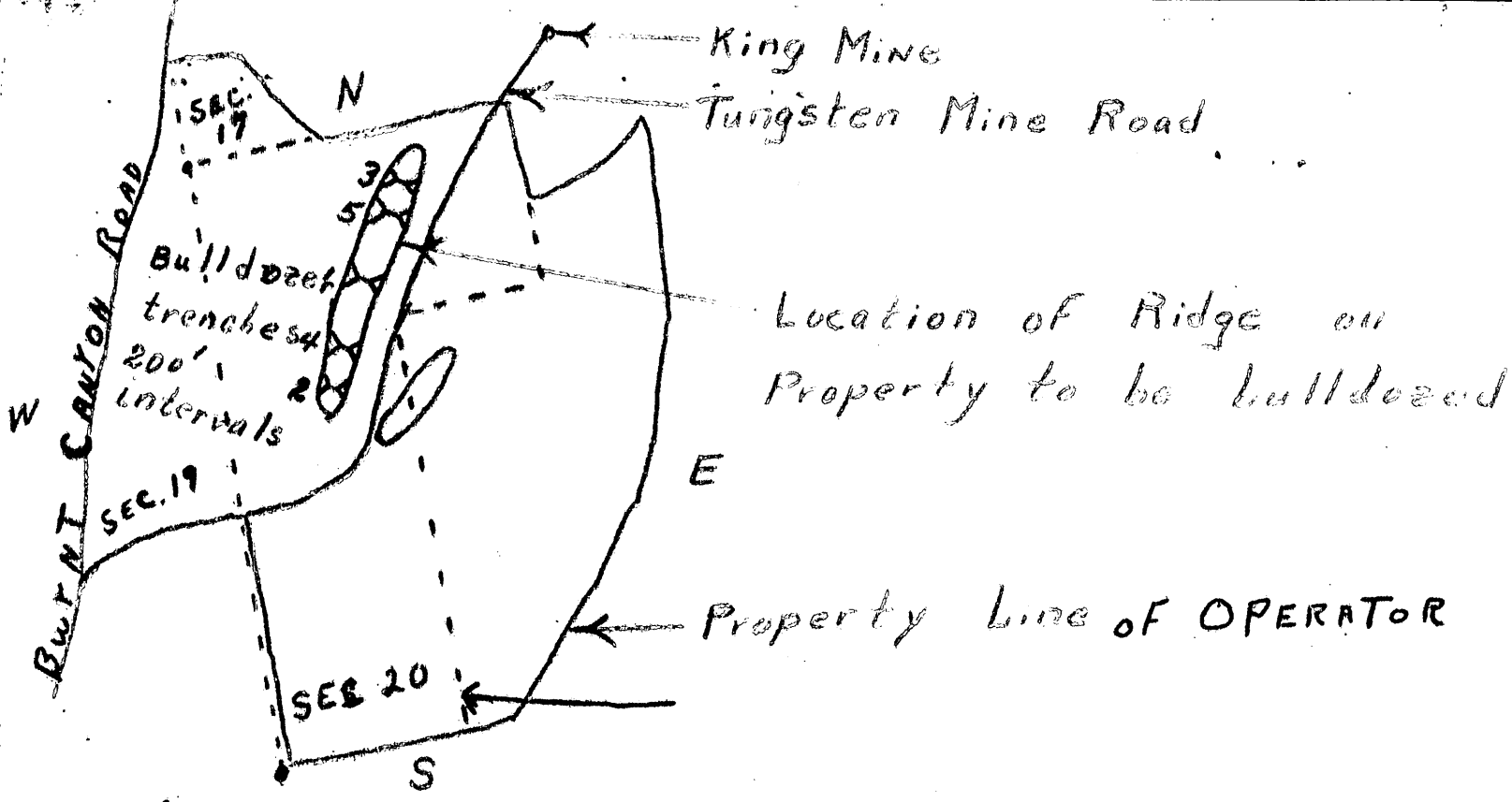
Dated November 21, 1952

Maxwell R. Baker
(Applicant)

By

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



4. (c) This Ridge is approximately 2,000 ft. in length with a varying crest of approximately 30 ft. The overburden depth is approximatelt 6 ft. on the crest. The ridge has outcopings of boulders consisting of Argillite with quartz containg tungsten also a visible manganese deposit on the south end of this ridge.

5. (b) Proposed exploration work on this Ridge will be to trench across the crest of the ridge at right angles to the length.

Trench #1 will be approximately half-way of the length. Trench #2 & #3 will be approximately 150 ft. from each end. After tests have been made on each trench, additional trenching will be made on the section that appear to have the highest percentage of tungsten.

6. (a) Work will be of independent contracts.

	Dozing	166 hrs. @ $12.00/hr.	$2,000.00
(b)	Engineering	$100.00	$100.00
(g)	Assaying	$200.00	$200.00
	Transportation of equipment	$300.00	$300.00

Supervision will be made by the operator with consultants, the Bureau of Mines and the Geological Survey. There will be no charge by the operator for services.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

March 31, 1954

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

WSM

Re: Docket No. DMEA 2803 (tungsten)
Maxwell Baker Property
Stevens County, Washington

Dear Mr. Selfridge:

Enclosed is a memorandum from Willard P. Puffett, Geological Survey, and W. S. Anderson, Bureau of Mines, relative to a supplemental examination of the Maxwell Baker property in Stevens County, Washington. The original examination was made in February 1953 by Raymond F. Robinson of the Geological Survey. Work done by Mr. Baker subsequent to this examination has demonstrated that Robinson's conclusion that the ridge on which the prospect is located is composed wholly or largely of transported material of glacial origin is incorrect; however, there is no evidence that tungsten ore in place in any appreciable quantities exists on the property and the float material containing tungsten is still regarded as being transported material of glacial origin. Consequently our Field Examiners see no reason to reverse Robinson's recommendation of denial. A copy of our letter to Mr. Baker is enclosed.

Your letter of March 18 has just come to our attention. In principle we heartily approve the policy expressed therein, which requires that the applicant submit a formal application before a re-examination is made. In practice it is sometimes difficult for our men to avoid revisiting a property when they are in the immediate vicinity on other business and in some cases an hour or two spent in an informal visit to the property may make a formal examination unnecessary and thereby actually save time for everyone. In some cases we ourselves may wish to visit a property that has been denied a contract for our own information and to keep abreast of developments. Except in these special circumstances, however, we shall adhere to the policy expressed in your letter.

By Field Team, Region II

Wing G. Agnew, Member
U. S. Bureau of Mines

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Enclosures
cc: USBM (2)
Puffett

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

So. 157 Howard Street
Spokane 4, Washington

March 18, 1954

MEMORANDUM

To: DMEA Field Team, Region 11

From: Willard F. Puffett, Geologist, U. S. Geological Survey, and Webster E. Andersen, Mining Engineer, U. S. Bureau of Mines

Subject: Supplemental examination, Docket No. DMEA-2503 (tungsten), Marvell Baker Property, Stevens County, Washington.

On November 26, 1952, Mr. Marvell R. Baker, 7212 East Liberty, Spokane 6, Washington, submitted an application for assistance to explore for tungsten ore on his property near Deer Lake, Stevens County, Washington. The proposed work would be to bulldoze five trenches across a long narrow ridge, exploring for tungsten-bearing float found along the relatively flat crest of the ridge. Mr. Baker estimated the total cost of this work to be $2,600.00.

Mr. Ray F. Robinson, Geologist, U. S. Geological Survey, examined the property on February 25, 1953, for the DMEA. In his report of February 26, 1953, Mr. Robinson recommended that DMEA assistance be denied, as it was his opinion that the ridge was composed largely of transported material (glacial origin) and there was nothing to indicate that a vein could be found on the ridge.

Since Mr. Robinson's examination, Mr. Baker has moved to his property near Deer Lake, on which he requests exploration assistance. During the last year, Mr. Baker had a road bulldozed around the southern tip of the ridge, and also drove one short adit into the northwest flank of the ridge, and another adit, reportedly 150 feet long, into the southeast flank of the ridge. In the bulldozed road, and in both adits, Mr. Baker found what he considered to be bedrock in place. Mr. Baker visited the local DMEA office numerous times during 1953 to report on his findings. It was his opinion that Mr. Robinson's idea that the ridge was composed largely of transported material was not in accord with the evidence subsequently found in the road and underground workings. Because of the information obtained during the past year, Mr. Baker requested another examination of his property and if the findings justified it, a reconsideration of his original application.

About 4 hours were spent on Monday, March 15, by W. S. Anderson and V. P. Puffett, accompanied by Mr. Baker, in a second examination of the property.

Mr. Baker's property is in the E½W½, the SW¼SW¼, and the W½SW¼ of sec. 20, T. 39 N., R. 42 E., W.M., Stevens County, Washington. He has submitted a copy of the sale agreement and 6 copies each of 2 sets of completed Owner's Consent to Lien forms concerning this land.

According to a map prepared for the State of Washington Geological Survey in 1927-28, by R. H. B. Jones, Baker's property is underlain by the Deer Lake argillite of Paleozoic age, near its intrusion by Loon Lake granite of late Mesozoic age. About a mile northeast of the property is Blue Grouse Mountain, on the flanks of which are two known tungsten deposits, one of which, the Big Q property, has produced a small tonnage of ore, and the other is now being developed by Sunshine Mining Company. The Big Q property contains tungsten ore as huebnerite disseminated in portions of a greisenized portion of granite, whereas the Sunshine Mining Company is reportedly doing their development work on narrow, huebnerite-bearing quartz veins.

The ridge that strikes across the Baker property is one of many which, in general, radiate outward from the lower slopes of Blue Grouse Mountain, a prominence whose summit is at an altitude of 3,606 feet, about one mile to the northeast. The ridge is relatively flat-topped, with a uniform slope of about ten degrees to the southwest. It is at least 2,000 feet long, ranges from 50 to 75 feet wide, and is terminated on both sides and on the southwest and by moderately steep slopes which extend to the creeks about 50 to 70 feet lower in elevation than the flat upper part of the ridge. This particular ridge is very similar to the narrow slopes paralleling it to the southeast and northwest.

The bulldozer road that Mr. Baker cut across the southwest end of the slope has exposed bedrock near the top of the ridge. This rock is buff to pinkish gray, relatively thin-bedded argillite, with much light buff colored clay marking the bedding planes and joint planes. Here the beds strike S. 55° E. and dip 20° S. The applicant excavated a few shallow pits along the road and exposed similar rocks in nearly all of them. In one pit, near the upper part of the slope, a much broken quartz vein, 12 to 17 inches thick, occurs. Much picking by the examiners failed to find tungsten minerals in this vein, but Mr. Baker stated that previous work by him had unearthed a few flat crystals of huebnerite from the vein. This vein appeared to be striking nearly due east and dips 35 degrees south.

Mr. Baker had excavated a short adit into the northwest flank of the ridge, about 150 feet north of the bulldozer cut shown on Robinson's map. Thin-bedded pinkish argillite is exposed in this adit. The beds strike S. 20° E. and dip 60° S. Thus, although a much steeper dip is indicated here than at the southwest end of the ridge, it appears that there is a relatively uniform orientation of the bedding of the argillites from one end of the ridge to the other, and in all probability these argillites represent the bedrock material in place and are certainly not portions of unconsolidated transported material.

Another adit, reportedly 150 feet long, had been driven into the southeast flank of the ridge by the applicant since Robinson's examination. Unfortunately this adit was caved at the time of the recent examination. Baker reports the adit cut a quartz vein five-eighths inch thick 30 feet from the portal of this adit. At 90 feet the adit intersected unconsolidated material, whereas the rock in the rest of the adit was argillite similar to that found in the other cuts and short adit. The adit explored the ground beneath the bulldozer cut that was inspected by Robinson. Thus, there is a possibility that former drainage had created a channelway across the central portion of the ridge and unfortunately the bulldozer cut made prior to Robinson's visit had exposed only the unconsolidated material in this channelway. There is no good topographic evidence indicating the existence of such a channelway across the ridge.

As stated by Robinson, there are many subrounded boulders of vein material along the top of the ridge. Some of these boulders contain concentrations of hubnerite as much as two inches in diameter. There is no evidence though that these boulders come from the underlying material, and it is probable that they were transported from some location on Blue Grouse Mountain.

In summary, Mr. Baker has completed work since Robinson's examination visit which has quite conclusively shown that the ridge on which he wants his exploration done is not predominately transported material but rather consists for the most part of argillites with only a thin veneer of unconsolidated material. There may be deeper portions of the overburden occurring locally on the ridge. At least one quartz vein containing some tungsten minerals has been found in the bedrock.

There is no indication, other than the one relatively narrow quartz vein, that the ridge contains a minable tungsten-bearing vein. A few shallow bulldozer trenches, such as Mr. Baker proposed, would definitely prove if such a vein or veins exist.

The topography is very favorable for trenching, and indications are that the overburden could be successfully removed quite easily by bulldozing.

Even should a narrow tungsten-bearing vein be found, it is extremely doubtful the resultant potential amount of tungsten indicated would merit any further exploitation. Consequently, even though Mr. Baker's work has proven the ridge to be composed of bedrock in place, it is believed that Mr. Robinson's recommendation that the application be denied should still stand.

Distribution:
- [redacted] (b)
- [redacted] (2)
- Docket
- [redacted] (RBO)
- Patterson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
~~So. 197 Howard Street~~
~~Spokane 4, Washington~~

March 31, 1954

W5M

Mr. Maxwell R. Baker
7212 E. Liberty
Spokane 6, Washington

Re: Docket No. DMEA 2805 (tungsten)
Maxwell Baker Property
Stevens County, Washington

Dear Mr. Baker:

Before we can give formal reconsideration to your application for DMEA exploration assistance, it will be necessary for you to submit a new application.

However, on the basis of information gained from a recent visit to your property by DMEA personnel, we seriously doubt that recent work which you have completed has yielded sufficient promising evidence to justify a reversal of the denial of your original application.

Sincerely yours,

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

cc: USGS (2)
DMEA (2)
Puffett

DMEA

400

DOCKET
SURNAME

Rutledge
Martin
Selfridge
Jefferson
Mittendorf

MAR 18 1954

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

Re: Docket No. DMEA 2803 - Tungsten
Maxwell R. Baker
Sec. 20, T. 30 N., R. 42 E.
Stevens County, Washington

Dear Mr. Weissenborn:

Reference is made to the subject docket and Mr. Puffett's letter of March 8, 1954, notifying the applicant, Mr. Maxwell R. Baker, that a new examination of the subject property was scheduled for March 15, 1954. Mr. Baker's former application for exploration assistance was denied by letter of March 18, 1953, in accordance with your recommendations.

It is the policy of DMEA to re-examine properties under the conditions that: (1) the applicant submits on Form MF-103, for our inspection, revised application covering new work, (2) the revised application indicates that the new work has exposed significant mineralization.

We call your attention to the foregoing because of your recent arrangement of a similar re-examination for the application of Masuro, Royer and Leep (Docket No. DMEA 3185 - Chromium). Our belief is that by following the procedure outlined above we can avoid the necessity for making any unwarranted re-examinations.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (2/18)

APPROVED:

J. H. Hedges
Member, Bureau of Mines (2/18)

Philip W. Guild
Member, Geological Survey (2/18)

FARutledge:foc 3-17-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg. 2
R. W. Geehan, USBM
T. P. Thayer, USGS

3-18-54

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

March 18, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey, and Webster S. Anderson, Mining Engineer, U. S. Bureau of Mines

Subject: Supplemental examination, Docket No. DMEA-2803 (tungsten), Maxwell Baker Property, Stevens County, Washington.

On November 26, 1952, Mr. Maxwell R. Baker, 7212 East Liberty, Spokane 6, Washington, submitted an application for assistance to explore for tungsten ore on his property near Deer Lake, Stevens County, Washington. The proposed work would be to bulldoze five trenches across a long narrow ridge, exploring for tungsten-bearing float found along the relatively flat crest of the ridge. Mr. Baker estimated the total cost of this work to be $2,600.00.

Mr. Ray F. Robinson, Geologist, U. S. Geological Survey, examined the property on February 25, 1953, for the DMEA. In his report of February 26, 1953, Mr. Robinson recommended that DMEA assistance be denied, as it was his opinion that the ridge was composed largely of transported material (glacial origin) and there was nothing to indicate that a vein could be found on the ridge.

Since Mr. Robinson's examination, Mr. Baker has moved to his property near Deer Lake, on which he requests exploration assistance. During the last year, Mr. Baker had a road bulldozed around the southern tip of the ridge, and also drove one short adit into the northwest flank of the ridge, and another adit, reportedly 150 feet long, into the southeast flank of the ridge. In the bulldozed road, and in both adits, Mr. Baker found what he considered to be bedrock in place. Mr. Baker visited the local DMEA office numerous times during 1953 to report on his findings. It was his opinion that Mr. Robinson's idea that the ridge was composed largely of transported material was not in accord with the evidence subsequently found in the road and underground workings. Because of the information obtained during the past year, Mr. Baker requested another examination of his property and if the findings justified it, a reconsideration of his original application.

Reviewed by
DMEA OPERATING COMMITTEE
4-14-54
(date)

About 4 hours were spent on Monday, March 15, by W. S. Anderson and W. P. Puffett, accompanied by Mr. Baker, in a second examination of the property.

Mr. Baker's property is in the N½NW¼, the SW¼NW¼, and the W½SW¼ of sec. 20, T. 30 N., R. 42 E., W.M., Stevens County, Washington. He has submitted a copy of the sale agreement and 6 copies each of 2 sets of completed Owner's Consent to Lien forms concerning this land.

According to a map prepared for the State of Washington Geological Survey in 1927-28, by R. H. B. Jones, Baker's property is underlain by the Deer Lake argillite of Paleozoic age, near its intrusion by Loon Lake granite of late Mesozoic age. About a mile northeast of the property is Blue Grouse Mountain, on the flanks of which are two known tungsten deposits, one of which, the Big Q property, has produced a small tonnage of ore, and the other is now being developed by Sunshine Mining Company. The Big Q property contains tungsten ore as hubnerite disseminated in portions of a greisenized portion of granite, whereas the Sunshine Mining Company is reportedly doing their development work on narrow, hubnerite-bearing quartz veins.

The ridge that strikes across the Baker property is one of many which, in general, radiate outward from the lower slopes of Blue Grouse Mountain, a prominence whose summit is at an altitude of 3,606 feet, about one mile to the northeast. The ridge is relatively flat-topped, with a uniform slope of about ten degrees to the southwest. It is at least 2,000 feet long, ranges from 50 to 75 feet wide, and is terminated on both sides and on the southwest and by moderately steep slopes which extend to the creeks about 50 to 70 feet lower in elevation than the flat upper part of the ridge. This particular ridge is very similar to the narrow slopes paralleling it to the southeast and northwest.

The bulldozer road that Mr. Baker cut across the southwest end of the slope has exposed bedrock near the top of the ridge. This rock is buff to pinkish gray, relatively thin-bedded argillite, with much light buff colored clay marking the bedding planes and joint planes. Here the beds strike S. 55° E. and dip 22° S. The applicant excavated a few shallow pits along the road and exposed similar rocks in nearly all of them. In one pit, near the upper part of the slope, a much broken quartz vein, 12 to 17 inches thick, occurs. Much picking by the examiners failed to find tungsten minerals in this vein, but Mr. Baker stated that previous work by him had unearthed a few flat crystals of hubnerite from the vein. This vein appeared to be striking nearly due east and dips 35 degrees south.

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In summary, Mr. Baker has completed work since Robinson's examination visit which has quite conclusively shown that the ridge on which he wants his exploration done is not predominately transported material but rather consists for the most part of argillites with only a thin veneer of unconsolidated material. There may be deeper portions of the overburden occurring locally on the ridge. At least one quartz vein containing some tungsten minerals has been found in the bedrock.

There is no indication, other than the one relatively narrow quartz vein, that the ridge contains a minable tungsten-bearing vein. A few shallow bulldozer trenches, such as Mr. Baker proposed, would definitely prove if such a vein or veins exist.

The topography is very favorable for trenching, and indications are that the overburden could be successfully removed quite easily by bulldozing.

Even should a narrow tungsten-bearing vein be found, it is extremely doubtful the resultant potential amount of tungsten indicated would merit any further exploitation. Consequently, even though Mr. Baker's work has proven the ridge to be composed of bedrock in place, it is believed that Mr. Robinson's recommendation that the application be denied should still stand.

Distribution:
DMEA (4)
USBM (2)
Docket
USGS (SRO)
Puffett

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

March 31, 1954

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

Re: Docket No. DMEA 2803 (tungsten)
Maxwell Baker Property
Stevens County, Washington

Dear Mr. Selfridge:

Enclosed is a memorandum from Willard F. Puffett, Geological Survey, and W. S. Anderson, Bureau of Mines, relative to a supplemental examination of the Maxwell Baker property in Stevens County, Washington. The original examination was made in February 1953 by Raymond F. Robinson of the Geological Survey. Work done by Mr. Baker subsequent to this examination has demonstrated that Robinson's conclusion that the ridge on which the prospect is located is composed wholly or largely of transported material of glacial origin is incorrect; however, there is no evidence that tungsten ore in place in any appreciable quantities exists on the property and the float material containing tungsten is still regarded as being transported material of glacial origin. Consequently our Field Examiners see no reason to reverse Robinson's recommendation of denial. A copy of our letter to Mr. Baker is enclosed.

Your letter of March 18 has just come to our attention. In principle we heartily approve the policy expressed therein, which requires that the applicant submit a formal application before a re-examination is made. In practice it is sometimes difficult for our men to avoid revisiting a property when they are in the immediate vicinity on other business and in some cases an hour or two spent in an informal visit to the property may make a formal examination unnecessary and thereby actually save time for everyone. In some cases we ourselves may wish to visit a property that has been denied a contract for our own information and to keep abreast of developments. Except in these special circumstances, however, we shall adhere to the policy expressed in your letter.

By Field Team, Region II

Wing G. Agnew, Member
U. S. Bureau of Mines

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
4-14-54
(date)

Enclosures
cc: USBM (2)
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

March 31, 1954

Mr. Maxwell R. Baker
7212 E. Liberty
Spokane 6, Washington

Re: Docket No. DMEA 2605 (tungsten)
Maxwell Baker Property
Stevens County, Washington

Dear Mr. Baker:

Before we can give formal reconsideration to your application for DMEA exploration assistance, it will be necessary for you to submit a new application.

However, on the basis of information gained from a recent visit to your property by DMEA personnel, we seriously doubt that recent work which you have completed has yielded sufficient promising evidence to justify a reversal of the denial of your original application.

Sincerely yours,

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

cc: USGS (2)
DMEA (2)
Puffett

400

FILE COPY
SURNAME:

Rutledge
Geehan
Martin
Lemmon
Hedges
Selfridge

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

MAR 18 1953

BW

Mr. Maxwell R. Baker
7212 East Liberty Street
Spokane 6, Washington

Re: Docket No. DMEA 2803 - Tungsten
Maxwell R. Baker
N. ½ of NW. ¼, SW. ¼ of NW. ¼, and
the W. ½ of SW. ¼, Sec. 20, T. 30 N.,
R. 42 E.
Stevens County, Washington

Dear Mr. Baker:

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

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

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

cc: Docket
Field Team, Region2
Code 400
Admn. Read. File
R. W. Geehan, USBM
D. M. Lemmon, USGS
Open Corr.

FARutledge/hhb
3/16/53

FILE COPY
SURNAME:

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

March 16, 1953

Rutledge
Kuhan
Martin

Iron and Ferro-Alloys Division, DMEA

Denial of application for exploration assistance in the amount of $2,600.00
Docket No. DMEA 2803 - Tungsten
Maxwell R. Baker
N. ½ of NW. ¼, SW. ¼ of NW. ¼, and the
W. ½ of SW. ¼, Sec. 20, T. 30 N., R. 42 E.
Stevens County, Washington

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

1. The applicant proposed to bulldoze cross trenches on a ridge where hubnerite-bearing quartz float had been found. Examination by the Field Team indicated the ridge was an esker and that there was no probability of finding a tungsten deposit.

2. The examining Field Team recommended denial.

3. The Field Team recommends denial.

4. The Commodity Divisions of the U. S. Geological Survey and the U. S. Bureau of Mines concur in the denial.

W. S. Martin

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

cc: Docket
Code 400
Admn. Read. File

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Administrator, DMEA DATE: March 16, 1953

FROM : Iron and Ferro-Alloys Division, DMEA

SUBJECT: Denial of application for exploration assistance in the amount of $2,600.00
Docket No. DMEA 2803 - Tungsten
Maxwell R. Baker
N. ½ of NW. ¼, SW. ¼ of NW. ¼, and the
W. ½ of SW. ¼, Sec. 20, T. 30 N., R. 42 E.
Stevens County, Washington

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2. The examining Field Team recommended denial.

3. The Field Team recommends denial.

4. The Commodity Divisions of the U. S. Geological Survey and the U. S. Bureau of Mines concur in the denial.

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

IN REPLY REFER TO:

G-MD-CF

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

March 12, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 12 1953

Memorandum

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Field Report
Maxwell Baker
Stevens County
Washington

DMEA-2803
Tungsten

This property was examined February 26, 1953, by R. F. Robinson of the Geological Survey. Robinson recommends that the exploration proposal be denied because it is probable that the huebnerite-bearing quartz float is derived from a distant source not on the property.

I concur with the recommendation for denial.

D. M. Lemmon

D. M. Lemmon

Copy retained 400

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

March 8, 1954

Mr. Maxwell R. Baker
7212 East Liberty Street
Spokane 6, Washington

Re: Docket No. DMEA 2803 (tungsten)
Maxwell R. Baker
Stevens County, Washington

Dear Mr. Baker:

Mr. W. S. Anderson, Bureau of Mines and myself plan on being in Stevens County, Washington, during the week of March 15th. It will be convenient for us to visit your property in the afternoon of Monday, March 15.

If for any reason you do not plan on being at your property on the 15th, please notify us; otherwise, we will meet with you then.

Yours very truly,

Willard P. Puffett
Geologist

cc: DMEA (2)
USBM (2)
Docket

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 3-9-53

REFERRED TO:

1. code 400 - Rm. 3538
2.
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	..... Referring to .....
..... Conference	..... Reply for signature of .....
..... Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS: .....

Check (X) before the items needing attention.

Adams (MD)
Initials of sender.

GPO 16—63815-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

Docket

March 4, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

WSM

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

Re: Docket DMEA-2803 (Tungsten)
Maxwell Baker
Stevens County, Washington

Dear Mr. Selfridge:

Enclosed are four copies of a report by R. F. Robinson, Geologist, U. S. Geological Survey, on Mr. Maxwell Baker's tungsten property, Stevens County, Washington.

Mr. Robinson believes that the applicant is attempting to find the source of tungsten float in what is obviously transported material and that he has little chance of succeeding.

Mr. Robinson recommends that Mr. Baker be denied Government assistance and the Field Team concurs.

By DMEA Field Team, Region II

Thor H. Kiilsgaard

Thor H. Kiilsgaard, Acting Exec. Officer
(U. S. Geological Survey)

Thomas E. Howard

Thomas E. Howard, Acting Member
(U. S. Bureau of Mines)

Enclosure
cc: USBM (2)
Robinson

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

3/17/53

February 26, 1953

Memorandum

To: DMEA Field Team, Region II

From: R. F. Robinson, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-2803 (Tungsten), Application for exploration assistance, Maxwell Baker, Stevens County, Washington.

RECOMMENDATION

It is recommended that Government assistance be denied this applicant because of insufficient indications of the presence of ore and the unlikelihood that favorable geologic environment for ore occurrence will be encountered in the present operation.

On February 25, 1953, the writer visited the property of Maxwell Baker in the company of the owner. Mr. Hundhausen of the U. S. Bureau of Mines had previously made a brief examination of the property. Mr. Hundhausen is now in Cuba and consequently is not available for consultation.

Mr. Baker has applied for assistance on the basis of the occurrence on his property of rather abundant quartz vein float which contains large crystals of the mineral hubnerite. The float is confined closely to a regular, narrow ridge some 2,000 feet in length, standing 35 to 40 feet above the bottom of the gullies which bound it. The ridge trends S. 32° W. and is not more than 75 feet in width at the top. Surrounding it on its flanks are higher, irregular ridges.

Mr. Baker has the theory that the vein matter is derived from bedrock beneath the ridge by weathering and erosion, i.e., it is nearly in place. On this assumption a bulldozer cut was put across the ridge at a point where float was most abundant and at right angles to the trend of the ridge. The cut is some 35 to 40 feet in length and reaches a maximum depth of 10 to 12 feet at the ridge crest. The cut is in what is obviously glacial till. A test hole was dug to a depth of 9 feet below the bottom of the cut, and it is in red-brown clay containing abundant small gravel and pebbles. Thus, bedrock is more than 19 feet below the surface on the ridge,

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(date)

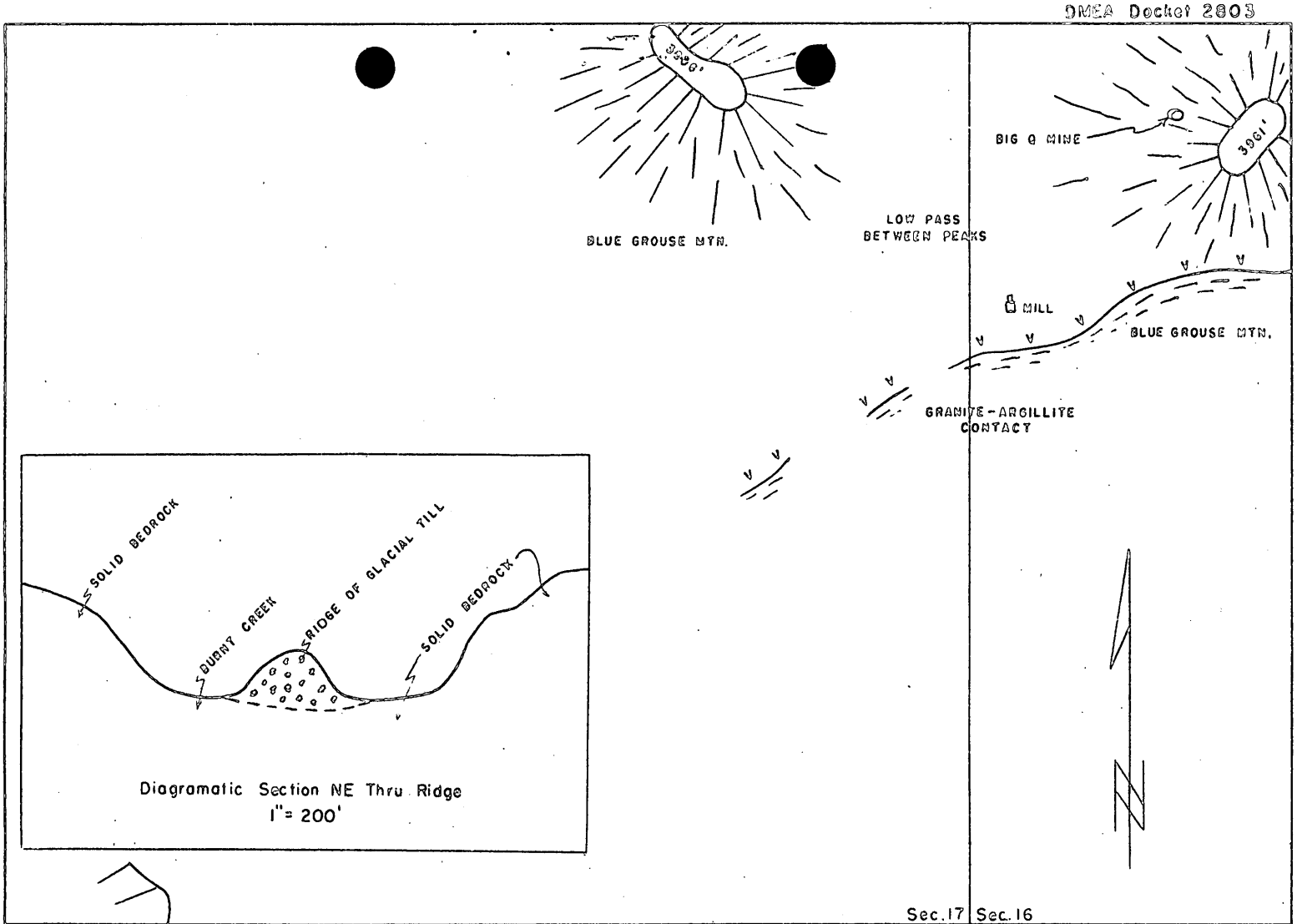
and it is not feasible to attempt to reach it by bulldozing.

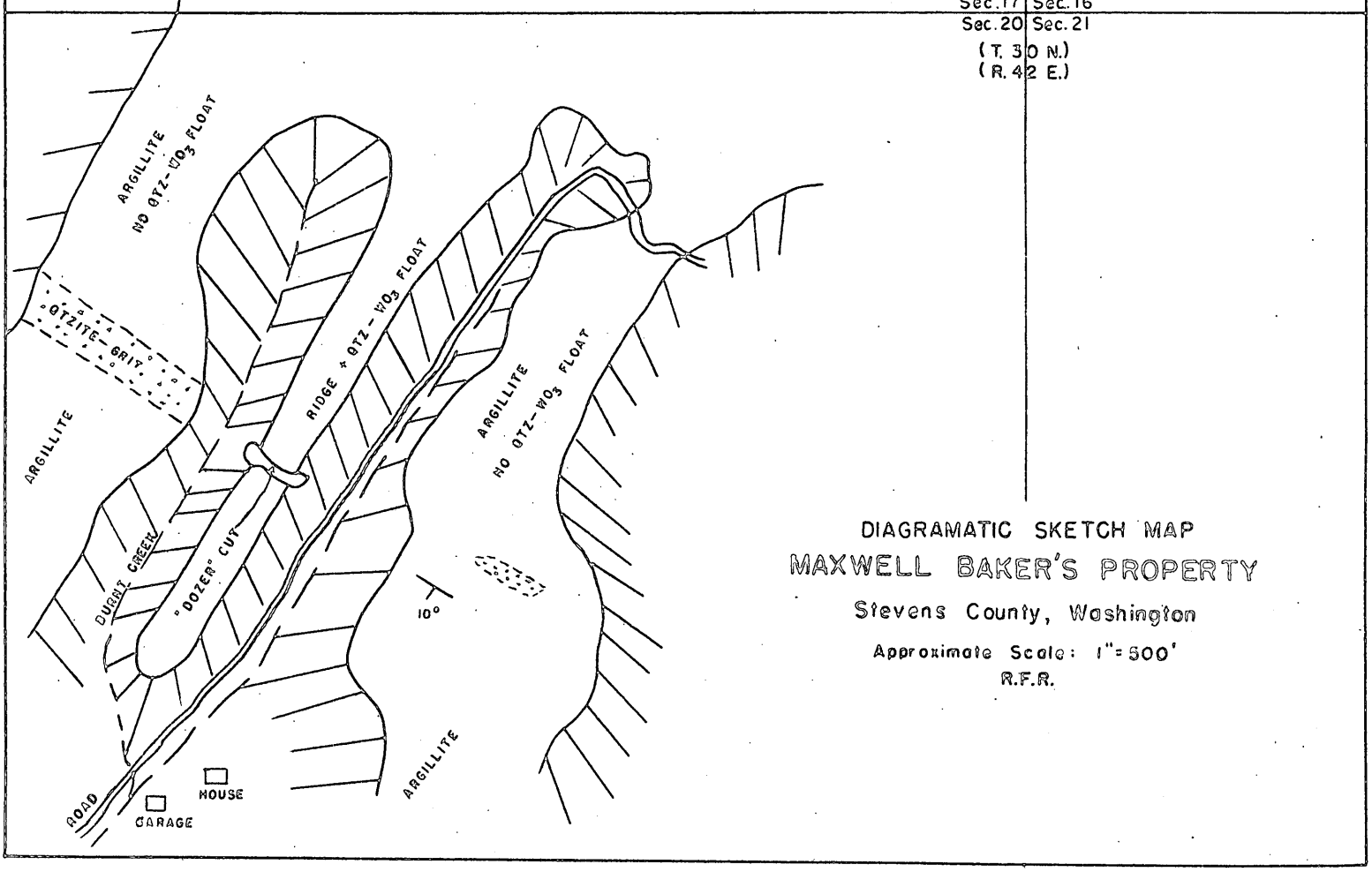
As indicated on the rough diagramatic map, a rather wide bold outcrop of silicified quartzite and grit occurs on the parallel ridge on the northwest flank. The bed strikes about N. 60° W. and no dip could be determined. The probable extension of this bed occurs on the ridge which lies on the southeast flank, but it does not occur in the ridge containing the bulldozer cut. Mr. Baker thought that this was a large quartz vein. He felt it was odd that it contained no tungsten mineralization.

Although bedrock cannot be found in the ridge containing the vein float, argillite outcrops as well as the quartzite do occur on immediately adjoining ridges. It seems very probable that this ridge containing the float is a topographic feature caused by glacial action--an esker--and that no bedrock will be encountered at depths which are in the range of bulldozing operations. The trend of the ridge is directly in line with the low saddle in Blue Grouse Mountain on which the Big Q tungsten mine is being operated. Their ore is very similar in character to the material found on the ridge. It is my opinion that the float has been derived by glacial and water action from the vicinity of Blue Grouse Mountain and deposited as found. The narrow confined occurrence suggests that it came from a small localized area and was transported in a confined channel such as subsurface ice channels.

It is my opinion that Mr. Baker is wasting his efforts in attempting to find the source of the float in what is obviously transported material, and there is nothing to justify granting Government aid to allow him to continue.

Distribution:
DMEA-Orig. & 3
USBM (2)
USGS (SRO)
Docket
Robinson


3999'
BLUE GROUSE MTN.
LOW PASS
BETWEEN PEAKS
BIG Q MINE
3961'
MILL
BLUE GROUSE MTN.
GRANITE-ARGILLITE
CONTACT
SOLID BEDROCK
BURNT CREEK
RIDGE OF GLACIAL TILL
SOLID BEDROCK
Diagramatic Section NE Thru Ridge
1" = 200'
Sec. 17 Sec. 16
Sec. 20 Sec. 21
(T. 30 N.)
(R. 42 E.)


ARGILLITE
NO QTZ-WO3 FLOAT
QTZITE-GRIT
ARGILLITE
RIDGE + QTZ-WO3 FLOAT
ARGILLITE
NO QTZ-WO3 FLOAT
BURNT CREEK
"DOZER" CUT
100
ARGILLITE
ROAD
HOUSE
GARAGE
DIAGRAMATIC SKETCH MAP
MAXWELL BAKER'S PROPERTY
Stevens County, Washington
Approximate Scale: 1" = 500'
R.F.R.

FILE COPY
SURNAME:

Chapman
Selfridge
Johnson

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

DEC 29 1952

Mr. Maxwell R. Baker
7212 East Liberty Street
Spokane 6, Washington

Re: Docket No. DMEA 2803 - Tungsten
N½ of NW¼, SW¼ of NW¼, and the
W½ of SW¼, Sec. 20, T. 30 N.,
R. 42 E.
Stevens County, Washington

Dear Mr. Baker:

Your application for exploration assistance on the above-noted property has been reviewed and is being referred to Mr. A. H. Weissenborn, Executive Officer, Region II, South 157 Howard Street, Spokane 4, Washington, for a field examination.

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you can render the members of the field team in the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (fw) L.H. 12-29-52

Administrator

TLChapman:ls
12/23/52

CC: Docket
Admn. Read. File
FT, Reg. 2
Op. Com.
Code 400
R. W. Geehan, USBM
D.M.Lemmon, USGS

FILE COPY
SURNAME:

Chapman
Selfridge

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

DEC 29 1952

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

Re: Docket No. DMEA 2803 - Tungsten
N½ of NW¼, SW¼ of NW¼, and the
W½ of SW¼, Sec. 20, T. 30 N., R. 42 E.
Stevens County, Washington

Dear Mr. Weissenborn:

We are in receipt of your letter of December 4, 1952, enclosing an application by Mr. Maxwell R. Baker for exploration assistance on the above-noted property.

We observe that the Field Team will make an early examination, and we will hold any action in abeyance until we hear from you concerning the results of that examination.

Sincerely yours,

Frank E. Johnson

(JHB)

Chairman, Operating Committee

F.H. 12-29-52

Approved:

J. H. Hedges (JHB)

Member, Bureau of Mines

A. R. Kinkel, Jr. (JHB)

Member, Geological Survey

Copy to: Docket
Admn. Read. File
FT, Reg. 2
Op. Com.
Code 400
D.M.Lemmon, USGS
R.W.Geehan, USBM

TLChapman/ls 12/23/52

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

December 9, 1952

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned Docket Number to an application recently received from Region II.

DMEA-2803 Baker, Maxwell R.

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

December 9, 1952

Mr.Maxwell R. Baker
7212 East Liberty
Spokane 6, Washington

Subject: DMEA-2803
Re: Exploration Assistance

My dear Mr. Baker:

The receipt of your application dated November 21, 1952 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2803 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-2803 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

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

25451

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

December 4, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 1952

Mr. Frank E. Johnson, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Dear Mr. Johnson:

Attached are the original and two copies of an application submitted by Maxwell R. Baker, 7212 East Liberty, Spokane, Washington, for the exploration of a tungsten prospect in Stevens County, Washington.

An examination will be scheduled as soon as possible so that the property can be seen before snow makes the area inaccessible.

Sincerely yours,

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

cc: USBM (2)
Kirkemo

(dictated 11/28/52)

MF-103.
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. dmea-2803
Metal or Mineral
Date Received 12/8/52
Estimated Cost
Participation (Government)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 1952

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:

Maxwell R. Baker
7212 East Liberty
Spokane, 6, Wash.

(*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 N½ of the NW¼, the SW¼ of the NW¼ and the W½ of the SW¼ of the Section 20, Township 30 North, Range 42 East of the Willamette Meridian, in the County of Stevens and State of Washington.

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

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

(*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. None

(*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. Tungsten in quartz veins

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. There is a railway at Loon Lake (5 miles west of this property)

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

16—66551-1

Manpower good, water and electrical power on premises.

5. *The exploration project.*—(*a*) [redacted]te the mineral or minerals for which you w[redacted]o 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 60 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. Prospector, part-time

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.). Bulldozer, Approx. $12/hr.

(*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. See attached sheet.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. None

(*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. None

(*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. None

(*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. None

(*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. See attached sheet.

(*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. None

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?

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

Explain in detail on acompanying paper.

CERTIFICATION

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

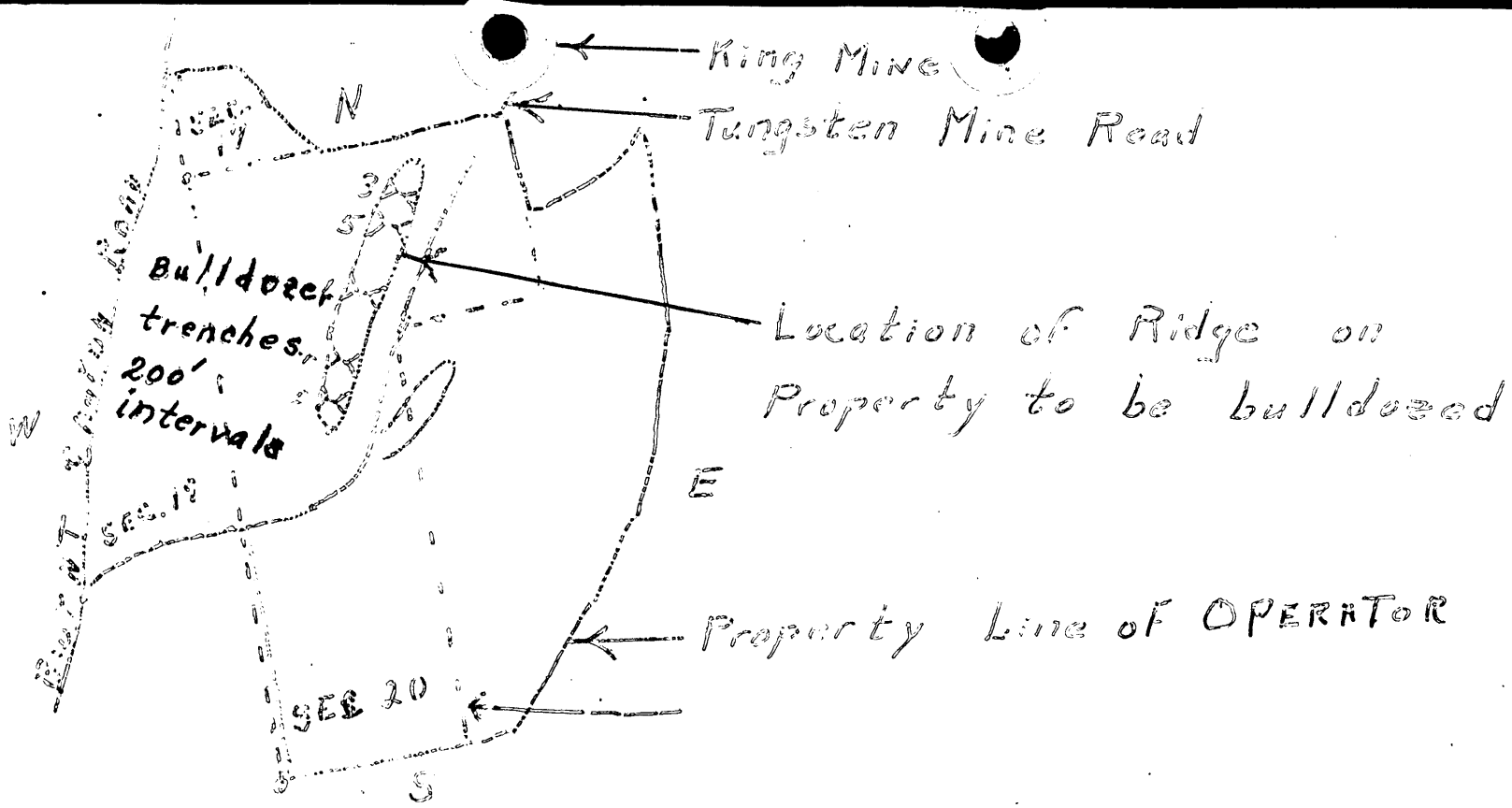
Dated November 21, 1952

Maxwell R. Baker
(Applicant)

By

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



4. (c) This Ridge is approximately 2,000 ft. in length with a varying crest of approximately 30 ft. The overburden depth is approximatelt 6 ft. on the crest. The ridge has outcopings of boulders consisting of Argillite with quartz containg tungsten also a visible manganese deposit on the south end of this ridge.

5. (b) Proposed exploration work on this Ridge will be to trench across the crest of the ridge at right angles to the length.

Trench #1 will be approximately half-way of the length. Trench #2 & #3 will be approximately 150 ft. from each end. After tests have been made on each trench, additional trenching will be made on the section that appear to have the highest percentage of tungsten.

6. (a) Work will be of independent contracts.

	Dozing	166 hrs. @ $12.00/hr.	$2,000.00
(b)	Engineering	$100.00	$100.00
(g)	Assaying	$200.00	$200.00
	Transportation of equipment	$300.00	$300.00

Supervision will be made by the operator with consultants, the Bureau of Mines and the Geological Survey. There will be no charge by the operator for services.

Form No. 41—SALE AGREEMENT—For Sale by Kershaw's, Inc., W. 612 Sprague Ave., Spokane

Escrow No.....

SALE AGREEMENT

THIS AGREEMENT made and entered into this 5th. day of November, 19 51,

by and between Harry H. Findley and Erna H. Findley, husband and wife, as vendors,

and Mr. H. D. Baker and Lucille Baker, husband and wife, as purchasers,

witnesseth:

That the vendors agree to sell to the purchaser and the purchaser agrees to purchase of the vendors upon the terms and conditions hereinafter set forth, the following described real estate situate in ~~Spokane~~ Stevens County, State of Washington, to-wit:

The north half (N½) of the northwest quarter (NW¼), the southwest quarter (SW¼) of the northwest quarter (NW¼) and the west half (W½) of the southwest quarter (SW¼) of Section Twenty (20), Township Thirty (30) North, Range Forty-two (42) East of the Willamette Meridian, in the County of Stevens and State of Washington.

The total purchase price is the sum of $4500.00, of which $425.00 has been paid to vendors, the receipt of which is hereby acknowledged.

$1575.00, or more, is to be paid on or before the 1st. day of June, 1952, without interest.

The balance, namely, $2500.00 together with interest thereon at 6% per annum from June 1, 1952, is to be paid as follows:

$200.00, or more, including interest, on the 1st. day of December, 1952, and a like payment on the 1st. day of June and December of each year thereafter until principal and interest are fully paid.

Vendors reserve the right to retain possession of the dwelling unit until June 1, 1952, without being obligated to pay rent. Purchasers are to have unrestricted possession after June 1, 1952.

Purchasers shall not remove timber from the premises until such time as they shall make the payment of $1575.00 which falls due on the 1st. of June, 1952.

Purchasers may enter upon the premises immediately to cut timber for posts, fences and other improvements to be placed upon the premises.

The purchaser agrees to keep the premises in good repair and to pay all taxes and assessments on said property before the same shall become delinquent and to keep the buildings on said premises continuously insured for not less than $ above in a standard fire insurance company, with loss, if any, payable to the parties in interest as their interest may appear, and to pay the premiums on all such insurance before delinquency; also to deposit said policy in escrow.

The purchaser shall have possession of said property as specified above and shall continue in such possession so long as the terms of this agreement are fully complied with.

Should the purchaser fail to make the payments or to keep and perform any of the covenants and agreements herein mentioned, the same shall constitute a forfeiture of this agreement and thereupon the vendors, at option, may declare such forfeiture by written notice to the purchaser, and at the expiration of thirty days, the terms of this agreement meanwhile not having been complied with, the vendors may enter into said premises and take possession of them, and this agreement shall be at an end and null and void, and the purchaser shall forfeit to the vendors as liquidated damages all payments made hereunder, and immediately surrender possession of said premises, but the failure of the vendors to declare a forfeiture at any time upon violation of any of the terms of this contract by the purchaser shall be deemed only an indulgence by the vendors of that particular time and shall not be construed to be a waiver of any rights of the vendors specified herein. Any notice, demand or communication to be given by either party to this contract to the other party shall be in writing and transmitted to the other party by registered mail addressed to the vendors at Route 1, Valley, Washington

and to the purchaser at 5129 N. Mayfair, Spokane, Washington

provided that either party may change his place of address by notice to the other party given as herein provided. The mailing and registering of any such notice, demand or communication as herein provided shall be a sufficient service thereof; and service in any other manner shall be sufficient only if receipt thereof be acknowledged in writing by the party who is served.

The purchaser hereunder assumes all risk of loss or damage from any and all causes to the whole or any part of the property covered hereby, and such loss or damage shall not affect any of the obligations of the purchaser under this contract.

The vendors agree to furnish title insurance policy certified to the date hereof, showing title in vendors free from incumbrance, except easements of record. reservations of record.

; it being understood, however, that for the purpose of this instrument, the following shall not be considered as incumbrances: Reservations contained in any of the forms of patent or deed commonly used by the United States of America, the State in which the property is located, the Northern Pacific Railroad Company or the Northern Pacific Railway Company; building restrictions common to the platted tract in which the property is situate; easements for private driveways in city limits or public roads actually in use as such; easements for telephone, sewer, gas, water or electric service; contracts common to the tract in which the property is situate with reference to supplying water and electricity to the premises and the operation of irrigation and electric systems.

The vendors have made a good and sufficient deed conveying said premises to the purchaser free and clear of all liens and incumbrances, except easements and reservations of record.

It is agreed that said deed, together with a copy of this agreement, shall be placed in escrow with the Peoples & Merchants Bank, Deer Park, Washington, which is hereby appointed escrow agent hereunder. Said escrow agent is hereby authorized to receive monies under the terms of this agreement and to issue the vendors' receipts therefor, and when the terms of this agreement are fully complied with, to deliver said deed and escrow papers to the purchaser. Each of the parties hereto agree to pay one-half of the escrow fee charged by the Escrow Agent.

Time is the essence of this agreement.

.....

.....

Vendors

.....

.....

Purchasers

Sale Agreement

Vendors

Purchasers

MF-203

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of Washington, County of Stevens, described as follows:1/

The N½ of the NW¼. the SW¼ of the NW¼ and the W½ of the SW¼ of the Section 20, Township 30 North, Range 42 East of the Willamette Meridian, in the County of Stevens and State of Washington.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ Maxwell R. Baker

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 2,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 20th day of November, 195 2.

NORTH COLUMBIA CO. [Seal]

By [signature] [Seal]

[Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of Washington, County of Stevens, described as follows:1/

The N½ of the NW¼, the SW¼ of the NW¼ and the W½ of the SW¼ of the Section 20, Township 30 North, Range 42 East of the Willamette Meridian, in the County of Stevens and State of Washington.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ Maxwell R. Baker

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 2,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 20th day of [illegible], 195 2.

NORTH COLUMBIA CO. [Seal]

By [illegible] [Seal]

[Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of Washington, County of Stevens, described as follows:1/

The N½ of the NW¼, the SW¼ of the NW¼ and the W½ of the SW¼ of the Section 20, Township 30 North, Range 42 East of the Willamette Meridian, in the County of Stevens and State of Washington.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ Maxwell R. Baker

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 2,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 20th day of November, 195 2.

NORTH COLUMBIA CO. [Seal]

By [signature] [Seal]

[Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

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(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

OWNER'S CONSENT TO LIEN

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The N½ of the NW¼, the SW¼ of the NW¼ and the W½ of the SW¼ of the Section 20, Township 30 North, Range 42 East of the Willamette Meridian, in the County of Stevens and State of Washington.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ Maxwell R. Baker

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 2,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 20th day of November, 195 2.

NORTH COLUMBIA CO. [Seal]

By [signature] [Seal]

[Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

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(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

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MF-203

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2/ Maxwell R. Baker

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WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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Dated this 20th day of November, 195 2.

NORTH COLUMBIA CO. [Seal]

By [signature] [Seal]

[Seal]

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MF-203

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Dated this 20 day of November, 195 2.

Murray M. Findley [Seal]

Emma M. Findley [Seal]

[Seal]

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