DMA Form 1

DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 3209

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To:	400	Date	5-6
To:	Oper. Com.	Date	5-24-54
To:	Oper Com	Date	8-6-54
To:		Date	
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GARRITY & GARRITY
ATTORNEYS AT LAW
CORWEN BUILDING, NO. 1
NAMPA, IDAHO

LEASE AND OPTION OF MINING CLAIMS

THIS LEASE AND OPTION Made the 24th day of October, 1953, between W. C. Dewey and Laura E. Dewey, husband and wife, hereinafter termed Lessors, and the Boise Dredging Company, a partnership consisting of Paul W. Wise, Jack L. Bailey and Roy Mires, of Boise, Idaho, hereinafter termed Lessee.

WITNESSETH:

That said Lessors, for and in consideration of the rents, royalties, covenants and agreements hereinafter reserved and by the Lessee to be paid, kept and performed, have let, and by these presents do let unto the Lessee, all the following described mining claims situate in the Alto Mining District, County of Custer, State of Idaho, to-wit:

Grey Crown,	Book 12,	page	533	of	Mining	Claims
Florence	" 12,	"	532	"	"	"
Cornelia	" 12,	"	595	"	"	"
Janice	" 12,	"	594	"	"	"
Barbara	" 12,	"	601	"	"	"
Berneal	" 12,	"	603	"	"	"
Denver	" 12,	"	602	"	"	"
Boston	" 12,	"	604	"	"	"

all of record in the office of the County Recorder of Custer County, State of Idaho, at Challis, Idaho,
Together with the appurtenances.

TO HAVE AND TO HOLD Unto the said Lessee for a term of nine years from the date hereof, unless sooner forfeited or determined.

IT IS UNDERSTOOD AND AGREED By the parties that the Lessors, for and in consideration of the sum of ONE DOLLAR, give and grant unto the Lessee an option to purchase the aforesaid mining property at any time during the life of this agreement for the sum of EIGHTY THOUSAND DOLLARS ($80,000.00); PROVIDED, that if the Lessee elects to exercise the aforesaid option it may do so at any time

by notifying said Lessors in writing or otherwise and by paying the entire purchase price, or such lesser amount as the parties may agree, and all rentals or royalties therefore paid shall be credited to the purchase price.

IT IS FURTHER UNDERSTOOD AND AGREED By the parties that the Lessee agrees to enter into and upon said mining premises and work the same in a manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the safety and development of said premises; PROVIDED, that said Lessee shall commence mining operations on or before May 1st, 1954, and thereafter to work said mining claims, it being especially understood that the Lessee shall expend no less than 750 shifts per year, year within the meaning of this agreement to be from July 1st to July 1st; PROVIDED, FURTHER, that for the year ending June 30th, 1954, the Lessee shall be required to expend only 120 shifts.

IT IS FURTHER UNDERSTOOD AND AGREED By the parties that the Lessee shall file, or cause to be filed, proof of labor of annual assessments in the lawful am unt with the County Recorder of Custer County, Idaho, and shall do all things required by law in safeguarding the mining location of the Lessors herein.

IT IS FURTHER UNDERSTOOD AND AGREED By the parties that the Lessee shall allow the Lessors, or their agents, to enter upon and into all parts of said mining claims for the purpose of inspection, and said Lessee shall keep properly posted all of said mining premises, informing the public that the Lessee is responsible for the operation of the said mining property, and will save the Lessors harmless from any and all liability by reason of the Lessee's operation of the aforesaid mining properties, and in addition thereto shall maintain all monuments re-

quired by law for the markings of any mining claims, and shall permit no claims to accrue which might become a lien against said premises, and shall defend the title to said claims against any and all persons claiming prior filings or overlapping boundary lines.

IT IS UNDERSTOOD AND AGREED That the Lessee shall keep accurate accounts of all ores extracted from said claims, together with the money received from the sale thereof, and out of the values obtained from the ores, rare earths, metals or minerals so extracted and which may be found in, upon or around said mining claims and reduced, treated sold or shipped.

IT IS FURTHER UNDERSTOOD AND AGREED By the parties that the Lessee shall pay unto the Lessors rental and royalty as follows:

Five per cent (5%) on any rare ores, metals or minerals or any other thing of value extracted during the first year, and thereafter, during the life of this agreement, the Lessee shall pay unto the Lessors TEN THOUSAND DOLLARS ($10,000.00) per year rental, it being especially understood that should the aforesaid option to purchase be exercised, all rental moneys theretofore paid shall be credited to the purchase price, aforesaid, and said Lessors agree to execute and deliver unto the Lessee a good and sufficient mining deed to said mining claims, free and clear of all encumbrances, excepting the paramount title of the United States.

IT IS FURTHER UNDERSTOOD AND AGREED By the parties that all books kept by said Lessee in connection with the operation of said mining claims shall be open at all reasonable times to the Lessors, and their representatives.

IT IS MUTUALLY UNDERSTOOD AND AGREED That the Lessee may at any time surrender and terminate this lease and option upon giving thirty days' notice, in writing,

paying to Lessors all rents and royalties and other sums due and payable to Lessors to the effective date of such surrender, and complying with the terms of this lease and option with respect to the preservation and protection of workings upon the leased premises; PROVIDED, however, that if this lease be terminated earlier than July 1st of any year, the rentals shall be pro-rated for that year in accordance with the termination date.

IT IS FURTHER UNDERSTOOD AND AGREED By the parties that the Lessee may at any time during the life of this agreement, at its own expense and effort, patent said claims; PROVIDED, however, that the proceedings shall be brought in the name of the Lessors and patent, if the same be granted, shall be issued to them.

IT IS FURTHER UNDERSTOOD AND AGREED That this lease is made upon the condition that Lessee shall perform all of the covenants and agreements herein set forth to be performed by the said Lessee, and if at any time Lessee shall fail for a period of thirty days to make any rental payment due hereunder within thirty days from the date when payable, which shall be on July 1st of each year, or if there shall be any other default on the part of the Lessee due to other than acts of God, Strikes, Lockouts, Storms, Floods, a Public Enemy, or unusual casualty, or any other cause entirely beyond Lessee's control, and if such other default shall continue for a period of thirty days after written notice of such other default being given to the Lessee, then and in either of said events this lease and option shall terminate and the leased premises shall revert to the Lessors, and the Lessee shall deliver to the Lessors the said premises.

IT IS FURTHER UNDERSTOOD AND AGREED By the parties that in the event this said lease shall be forfeited or terminated for any reason, all personal property of the Lessee located with the leased premises, and all machinery, equipment and tools placed upon the said premises by the Lessee, may be removed from such premises by the Lessee within six months, provided that the rental or royalty payments which may have accrued unto the Lessors shall have been paid in full to the date of the forfeiture or termination of said lease and option. If such payments are delinquent, then such property shall remain upon said premises as a bond until the necessary payments have been made.

IT IS FURTHER UNDERSTOOD AND AGREED By the parties that this lease may be assigned to the National Industrial Products Corporation, but that no assignment shall be permitted to be made to any other person, association or corporatio n without the written consent of the Lessors herein.

And finally, upon the violation by the said Lessee, or any other person under it, of any covenant or covenants hereinbefore reserved, the term of this lease and option shall, at the option of the said Lessors, expire and the same and the said premises, with the appurtenances, shall become forfeited to said Lessors and the said Lessors, or their agents, may thereupon after demand of possession enter upon said premises and dispossess all persons occupying the same.

IT IS FURTHER UNDERSTOOD AND AGREED By the parties that each and every clause and covenant of this lease and option, where the context requires it, shall extend to

and include the heirs and assigns of all parties hereto.

IN WITNESS WHEREOF, The said parties have hereunto set their hands and seals the day and year first above written.

W. C. Dewey
Laura E. Dewey
LESSORS

BOISE DREDGING COMPANY

By Paul W. Wise
By Jack L. Bailey
By Roy Mires

STATE OF IDAHO
County of Canyon } ss.

On this 6th day of November, 1953, before me, Willa Hatfield, a Notary Public in and for said State, personally appeared W. C. Dewey and Laura E. Dewey, husband and wife, known to me to be the persons whose names are subscribed to the foregoing instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

Willa Hatfield
Notary Public for Idaho
Residing at Nampa, Idaho
My Commission Expires 4/13/56

(SEAL)

STATE OF IDAHO
County of Ada } ss.

On this 21 day of November, 1953, before me, Ruby Callahan, a Notary Public in and for said State, personally appeared Paul W. Wise, Jack L. Bailey and Roy Mires, known to me to be the persons whose names are subscribed to the foregoing instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

Ruby Callahan
Notary Public for Idaho
Residing at Boise, Idaho
My Commission Expires 2-18-55

(SEAL)

R I D E R

IT IS UNDERSTOOD AND AGREED By the parties that no royalty will be paid for the year ending July 1st, 1954, and that for the year ending July 1st, 1955, which is the first full year under this agreement, the 5% royalty as herein provided shall be payable; That it is intended that the second year of this agreement is the year ending July 1st, 1956, and that the $10,000.00 payable for the second year shall be payable by the Lessee to the Lessors on or before July 1st, 1956.

IT IS FURTHER UNDERSTOOD That this Rider, when executed and attached to the contract, shall become a part thereof and shall abrogate anything therein in conflict herewith.

Dated: November 9th, 1953.

W. B. Dunn

Laura E. Kenny

LESSORS

BOISE DREDGING COMPANY

By Paul W. Lane

Mark R. Bailey

Roy Mires

400

AUG 6 1954

3209

Boise Dredging Company
P. O. Box 267
Boise, Idaho

Re: Docket No. DMEA 3209 - Tungsten
Dewey Property
Custer County, Idaho

Gentlemen:

Your application for aid for an exploration project and other data available to us in Washington relating to the above named 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 small amounts 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, under the circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

JHOPKINS:fcc
8-2-54
cc to: Docket
Code 400
Adm. Reading File
Oper. Comm.
FT. Reg. II
R. W. Geehan, USBM
E. L. Newcomb, USGS - Rm. 5227

August 2, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $14,000.00
Docket No. DMEA 3209 - Tungsten
Boise Dredging Company
Dewey Property
Custer County, Idaho

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

The applicant proposed to explore the Dewey property with four 100-foot tunnels (adits). Following a field examination, the Field Team recommended that 4 diamond drill holes be substituted for the adits at an estimated cost of $7,975.00.

The area is underlain by rocks of Ordivician age (Phi Kappa formation) that have been intruded by a quartz monzonite.

The quartz monzonite is a dike-like body which cuts across the beds of the enclosing Phi Kappa formation. The southwest border of the quartz monzonite strikes S. 40° E. and dips 45° to the northeast. The Phi Kappa formation, which is composed of quartzites argillites and thin beds of limestone strike approximately north and dips about 22° to the east.

Scheelite is found along the igneous - sedimentary contact and appears to favor points where the limy beds of the Phi Kappa formation are in direct contact with the monzonite. Evidence that mineralization is so restricted cannot be regarded as conclusive, but "lumping" along the contact indicates that the deposit is of very limited extent and somewhat spotty.

The only working on the property is an irregular open-cut on a steep hillside that measures 16 feet along the southwest contact of the quartz monzonite and the Phi Kappa formation. The sedimentary footwall in the cut is exposed for an average depth of 2 feet while the face of the cut that penetrates the igneous rock for 6 feet is 12 feet high.

Production from this cut is reported to have been 7,760 pounds of ore assaying 3.38 percent WO_3.

Four samples were taken in the open-cut by the examining engineer and gave the following results:

No.	Description	Percent WO_3
1.	Chip sample across 6' of monzonite	1.55
2.	Chip sample vertically across monzonite 6' from floor	0.28
3.	Chip sample vertically across monzonite 12' from floor	0.15
4.	Chip sample 4' cut on sedimentary footwall	0.94

The property was re-examined by the Field Team at the request of the Washington office.

During this re-examination, work was confined to the vicinity of the pit.

Detailed examination of the pit showed that where scheelite is found, the quartz monzonite is in contact with a narrow limy argillite bed in the Phi Kappa formation, the scheelite occurring on the quartz monzonite side of the contact.

The examining geologist concludes that if the thesis that the scheelite is confined to a fairly narrow limy bed on its contact with the monzonite is correct, the expense of an exploration project directed toward such a small target does not appear to be justified under the DMEA Program.

The Field Team, therefore, recommends that the application be denied.

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

JHopkins:foc 8-2-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.

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

IN REPLY REFER TO:

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

402

August 2, 1954

Re: DMEA 3209
Boise Dredging Co.
Dewey Property
Custer Co., Idaho
$7,975 - Tungsten

Memorandum

To: W. S. Martin
Defense Minerals Exploration Administration

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

Subject: Concurrence with Field Team recommendation for denial

The Field Team report, based on the re-examination of the Dewey prospect, recommends the applicant's proposal be denied.

The limited and spotty nature of the tungsten mineralization indicates a significant deposit is unlikely to be found by the proposed work. Also the apparent uncooperative attitude of the applicant shows a lack of interest in DMEA exploration assistance.

I concur with the Field Team and recommend this application be denied.

E. L. Newcomb

ELNewcomb:hlm
G-8/2/54

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

CROSS REFERENCE DMEA 3209

Jun 30, 1954

Ltr by Nickelson, Geologist, Survey, to FT - gives results of re-exam of property, per Oper. Comm's request of May 6, 1954.

July 6, 1954

FT ltr transmits Nickelson's memo to Oper. Comm.

For above 2 letters, see official docket.

400

MAY 25 1954

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

Re: Docket No. DMEA 3209-Tungsten
Boise Dredging Company
Dewey Property
Custer County, Idaho

Dear Mr. Weissenborn:

This will acknowledge your letter of May 13, 1954, responding to our request for a re-examination of the subject property.

We appreciate your supplementary comments on the recommended project, but believe that the deposit warrants further consideration before any project may be approved. The referenced docket, therefore, will be held in abeyance until the property is re-examined and the Field Team's report and recommendations are received.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

D. M. Barrabee

Member, Geological Survey

cc: DOCKET
FIELD TEAM, REG. II
CODE 400
OPER. COMM.
ADM. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS

FARutledge/ls
5/20/54

400

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

May 13, 1954

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

Re: Docket No. DMEA-3209 (tungsten)
Boise Dredging Company
Dewey Property
Custer County, Idaho

Dear Mr. Selfridge:

Reference is made to your letter of May 6, wherein you request a re-examination of the cited application. We will contact an examination as soon as possible; however, owing to heavy snow conditions and to the high altitude of the property, it will probably be late in June before the property will be accessible.

With regard to your reasons for a re-examination, we wish to say that we realized the proposal submitted from the field was sketchy, as to the target of the proposed work, and as to where it was to be located, but we, nevertheless, submitted it in that manner as we believed that a contract might be negotiated which could be worked during the short season normal in that area. We thought that if a contract was approved, drilling could be started in the most favorable target with subsequent drill sites to be selected after we had closely examined the outcrop and also appraised the results of initial drilling. Our location of four drill sites on the map was merely for diagrammatic purposes. Some of those drill sites might be moved if the property was re-examined; however, there would be an even greater chance they would be moved once the results of the initial hole under the favorable outcrop location had been evaluated. For these reasons, we believe the definite location of drill sites at this time is impracticable.

Our field examiner has informed us that he does not believe any horizontal stockpiling will be necessary for the proposed work. If the holes are located at the base of the cliff below the contact they would collar in bedrock. Further, if they were drilled from the road cut no trouble is anticipated as it is believed the road cut is almost to solid rock. The talus, while covering the slope, is not believed to be too deep.

We doubt if further surface prospecting will be too practical. Such work will have to be done by hand as the steep, cliff-like hillside will not permit bulldozing. To the south, the contact could be tested by dozing but this is well beyond the tungsten outcrop.

We cannot prove that the property described by Fred Farwell, in his memorandum attached to your letter, is the same property now held by the Boise Dredging Company; although, from a casual study of available reports, it would appear to be one and the same.

By Field Team, Region II

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

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

cc: USBM (2)
Kiilsgaard

400

MAY 6 - 1954

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

Re: Docket No. DMA 3209 - Tungsten
Boise Dredging Company
Lowey Property
Custer County, Idaho

Dear Mr. Weissenborn:

The subject application for exploration assistance is being referred to you for a reexamination for the following reasons:

1. Horizontal stand-piping (driving casing) is an extremely costly and impractical method of approach in this case.

2. Diamond drilling is not recommended for exploring a spotty, high-grade, contact tungsten deposit.

3. Only one of the four drill holes is located to explore the downward extension of known tungsten occurrences. The drill hole to the southeast will be under an outcrop indicated by lapping to be barren of tungsten, and the surface above the two drill holes to the northeast apparently was not tested by lapping.

4. Further surface prospecting should be considered before underground exploration is recommended.

We are enclosing a copy of a report of examination on a Florence claim, Alta Mining District, Custer County, Idaho, made by Fred W. Parwell, Associate Geologist, U. S. Geological Survey, in 1943. If the referenced property is the same as that covered by the subject application, it is apparent that the deposit has little merit.

FILE COPY 400
Surname:

Geehan
Heckler

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

April 27, 1954

Memorandum

To: W. S. Martin, DMEA

From: Robert W. Geehan

Subject: DMEA 3209 - Tungsten
Boise Dredging Company
Dewey Property
Custer County, Idaho

The applicant proposed 4 drifts (adits); the Field Team report has substituted 4 diamond drill holes. The latter are estimated to cost $7,975; the Government participation is estimated at $5,981.25. The Field Team have secured approval of the applicant for the change to drilling and, on this basis, they recommend approval.

The tungsten mineralization is reported to be at an igneous-sedimentary contact. Reports of shipments and 4 samples confirm the presence of tungsten. Much pertinent information is lacking. The report does not mention surface trenching; there is an implication that a "cliff" is at or near the contact. In fact, horizontal diamond drill holes are proposed from surface stations. The examining engineer was unable to locate tungsten minerals "at the base of the outcrop" southeast of the open cut. There is no reference to an attempt to locate an extension of tungsten mineralization north of the open cut.

The use of diamond drill holes to extend knowledge regarding this deposit is of questionable value. There are few facts to indicate the nature of the mineralization. The letter of April 14 says scheelite is "reported to be quite continuous along the outcrop." There is nothing in the report to indicate any knowledge whatsoever about the horizontal extent. This would seem to imply that the Field Team has data not included in the Bowsher report.

RWGeehan:lds
Copy to: Ferrous Metals
RWGeehan
Files

Recommendations:

It is recommended that a letter be sent to the Field Team requesting an opinion regarding the use of surface trenches or test pits prior to diamond drilling.

As the report now stands, I would favor a re-examination prior to approval.

Robert W. Geehan

This copy retained for 400 files, since Bur. Mines did not make enough copies of the memo & sent it along with the original of the memo.

UNITED STATES
DEPARTMENT OF THE INTERIOR

COPY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

April 14, 1954

WSM

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

Re: Docket No. DMEA-3209 (Tungsten)
Boise Dredging Company
Dewey Property
Custer County, Idaho

Dear Mr. Selfridge:

Enclosed are four copies of a memorandum report on the subject docket by John A. Bowsher, U. S. Bureau of Mines. Also enclosed is a copy of the applicant's lease agreement. No Owner's Consent to Lien agreement has been presented as yet but we are writing the applicant asking that he forward signed copies of this agreement to us as soon as possible.

Mr. Bowsher recommends a more modest exploration program than submitted by the applicant by substituting diamond drilling for the proposed tunnel work. Since Mr. Bowsher's report was prepared, Mr. Roy Mires, acting for the applicant, has been contacted and questioned regarding his views on the alternative diamond drilling program. He stated that the applicant favored the drilling program and that if they received a contract they would commence such work as soon as weather permitted.

The Field Team realizes that only a limited amount of information has been collected on the Dewey property but it is believed that information gathered indicates that the property warrants further exploration. Scheelite is reported to be quite continuous along the outcrop and the small shipment that has been made has been of good grade. In addition to this shipment we are informed that a recent mill test batch of 100 pounds, collected by the applicants and ran at the Bunker Hill mill, assayed 1.49% WO_3. A more definite exploration program could probably be presented but this would involve additional field examination. As the area is currently overlain by snow and will be until late in May, it is believed more practicable to lay out only a tentative program at this time in order that work may commence this season. If we wait until May or June to re-examine the property and then prepare the

Reviewed by
DMEA OPERATING COMMITTEE
4-23-54
(date)

Field Team report it might be so late in the season before a contract was granted that the applicant would not be able to complete the program before snowfall.

The Field Team concurs with Mr. Bowsher and recommends that a unit cost contract be granted the applicant, the costs to be based along the lines recommended by Bowsher.

By Field Team, Region II

/s/ A. E. Weissenborn, Executive Officer
U. S. Geological Survey

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

Enclosures

cc: USBM (2)

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

1201 N. Division St.
Spokane 2, Washington
March 24, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Field examination of the W. C. Dewey Property, Alta District, Custer County, Idaho, Docket No. DMEA 3209 (tungsten), applicant: Boise Dredging Company, Boise, Idaho

INTRODUCTION

The Dewey property was examined as a possible tungsten-nickel exploration project on November 9 and 10, 1953, by John A. Bowsher, Mining Engineer, U. S. Bureau of Mines, in company with Messrs. Paul Wise and Roy Miles, Boise Dredging Company, 222 Broadway, Boise, Idaho, lessee and applicant. The property was visited again, and sampled, the following day, November 11, by John A. Bowsher. Approximately twelve hours were spent on the property.

RECOMMENDATIONS

The examining engineer recommends a diamond drilling exploration project to test the igneous-sedimentary contact, with a unit cost contract to be awarded on the basis of Bureau of Mines cost estimates.

LOCATION AND ACCESSIBILITY

The Dewey property consists of 8 unpatented lode mining claims located in sec. 14, T. 6 N., R. 19 E., Boise Meridian, Alta Mining District, Custer County, Idaho. The property is on Little Falls Creek near its junction with Summit Creek, Summit Pass, about 15 miles northeast of Ketchum, Idaho.

Access to the property is via the graveled Trail Creek highway from Ketchum to Mackay. Road log: with speedometer reading 0.0 at the Texaco Station, Ketchum, turn right at next street intersection north, Sun Valley Lodge road, thence over Summit Pass, and at speedometer reading 14.9 turn left (north) on dirt road up Little Falls Creek canyon, thence 0.6 mile to the small ore bin and sorting shed on the east side of the canyon.

Snowfall in the region is heavy, and the road from Ketchum is not kept open during the winter.

Reviewed by
DMEA OPERATING COMMITTEE
4-23-54
(date)

PROPERTY

The property consists of the following claims:

Name of Claim	Book No.	Page No.
Gray Crown (amended)	12	533
Florence (amended)	12	532
Cornelia	12	595
Janice	12	594
Barbara	12	601
Barneal	12	603
Denver	12	602
Boston	12	604

The claims were undoubtedly located because of the scheelite discovery.

GEOLOGY

The property lies within an area mapped and investigated by the U. S. Geological Survey as described in Bulletin 814, "Geology and Ore Deposits of the Wood River Region, Idaho," by Joseph B. Umpleby, Lewis G. Westgate and Clyde P. Ross, published in 1930.

On Plate I of Bulletin 814, at latitude 43°51' N. and longitude 114°15' W., is a "lazy L" figure of quartz monzonite intrusive surrounded by sedimentary rocks wherein lies the subject property. The monzonite is described on page 49 of the bulletin, as follows:

". . . exposures . . . show that it is an intrusive into the overlying Ordivician (Phi Kappa formation) rocks; . . . it is medium-grained, light gray, and of uniform hypodiomorphic texture, with an average grain of 2 millimeters. It consists of dull white feldspar, gray quartz, and scattered flakes of biotite. . . . Orthoclase and oligoclase are present in about equal amounts. A little hornblende, apatite, and magnetite are present,and titanite is very abundant in some specimens."

The Phi Kappa formation is described on page 19 of the bulletin as follows:

"It may be divided for convenience of description into an upper and lower portion. The lower portion . . . consists of medium and fine grained quartzitic sandstone and flinty argillite, commonly black, which weathers to rusty slabs. . . . The lower part is best exposed on the Big Lost River, on the nose between Park Creek (Basin Creek) and the next creek north (Little Falls Creek)."

PRODUCTION

The only evidence of an attempt to exploit the scheelite occurrence is a small open-cut in the quartz monzonite outcrop, at the igneous-sedimentary contact, on the Florence claim. This cut in a cliff, about 50 feet above the ore bin, was the work of a former lessee. The applicant's production information is inconsistent because the MF-103 states that 4 tons, averaging 4.5 percent WO_3, was shipped in 1943 while its accompanying map shows that 7,760 pounds, assaying 3.38 percent WO_3, was shipped in 1943; no information is given regarding the number of shipments, i.e., one, two, or more.

Messrs. Wise and Mi(e)ns identified about 5 tons of similar dike material on a vacant lot in Hailey, Idaho, as being mined from the open-cut; however, this information was not verified.

The irregular open-cut, N. 30° W. strike, measures 16 feet along the southwest contact of the quartz monzonite and the upturned Phi Kappa formation and penetrates the igneous rock for 6 feet, forming a NE face 12 feet high. The sedimentary footwall is exposed for an average depth of 2 feet on the dip, which is 49° to the NE.

The surface facilities on the Florence claim consist of a 15-ton bin, sorting shed, and truck-loading slide.

On page 207 of Bulletin 814 there is an account of other prospects on Little Falls Creek, but it pertains only to the occurrence of base metals; a search of the bulletin does not disclose any data on tungsten.

EXAMINATION

The property was first visited very late the afternoon of November 9 to determine the most important areas that would possibly reveal the presence of scheelite under a mineral light. The first determined objective for lamping was the open-cut and the contents of the ore bin; secondarily was the accessible area of the probable igneous-sedimentary contact southeast of the open-cut and toward the Trail Creek highway.

Approximately 200 pounds of the monzonite from the open-cut was in the ore bin and showed fair scheelite under the light, but most of the crystals were small, 1/16-inch maximum in size, and not clustered.

The open-cut faces exhibited the monzonite as white, sugary in texture and grain, and having a blocky structure with minute incipient fracturing. The sedimentary footwall was black in color, blocky fracturing and crumbling, probably from long exposure. All of the

monzonite faces and the sedimentary footwall revealed the presence of scheelite under the mineral light; the best showing was on the NW face (monzonite) near the contact and mainly confined to the fractures in the monzonite. The scheelite crystals were tiny, probably less than 1/16-inch.

The igneous-sedimentary contact was not exposed southeast of the open-cut; however, this area at the base of the monzonite outcrop was the most accessible after dark for using a mineral light. The base of the outcrop, lamped for a length of about 500 feet, showed no scheelite. Fluorescent minerals were detected sporadically distributed in the monzonite and were tentatively identified as of calcareous origin.

SAMPLING

Four samples were taken in the open-cut the morning of November 11. The analyses of the samples are as follows:

Sample No.	Spectographic														Chemical	
	Al	Be	Ca	Cu	Mg	Fe	Mn	Ni	Si	Ti	V	Mo	Na	W	WO_3%	Ni
1	A	E	D-	E	E	B	E	F	A	E	E	E-	C	C+	1.55	N.D.
2	A	E	D	E	E	B	E	F	A	E	E	E-	C	C	0.28	N.D.
3	A	E	D-	E	E	B	E	E	A	E	E		C	D+	0.15	N.D.
4	A	E	D	E	D	A	E	E	A	E	E	E+	C	C	0.94	N.D.

A - over 10%; B - 5 to 10%; C - 1 to 5%; D - 0.1 to 1%; E - 0.01 to 0.1%; F - 0.001 to 0.01%

Sample No. 1 was taken from the NW face of the open-cut. It was a chip sample cut horizontally 4 feet above the floor, and measured 6 feet across the monzonite, from the contact to the NE corner of the open-cut.

Sample No. 2 was taken from the NE face of the open-cut. It was a chip sample cut vertically 6 feet from the NE corner, and measured 6 feet from the floor up the monzonite face.

Sample No. 3 was identical to No. 2 except that it was cut 12 feet from the NE corner.

Sample No. 4 was taken from the sedimentary footwall exposed as the SW face of the open-cut. It was a chip sample cut vertically 9 feet from the NW corner, and measured 4 feet, on the dip, from the floor to the rim.

PROPOSAL

The applicant proposes to explore the monzonite by "four (4) 100-foot tunnels or horizontal drifts into the face (?) of the deposits at various points, as shown on the accompanying sketch. We believe these tunnels going in for a distance of 100 feet would explore and prove the horizontal depth of the property and at the same time would develop a considerable body of ore." The total cost of the proposal was estimated to be $14,000.00 and the Government's share $11,500.00.

COMPETENCE OF APPLICANT

The Boise Dredging Company is a partnership consisting of Messrs. Paul W. Wise, Roy Mires and Jack L. Bailey, P. O. Box 267, Boise, Idaho. Paul W. Wise is the president and Jack L. Bailey the office manager for J. H. Wise & Son, Inc., 222 Broadway, Boise, Idaho, a contracting and construction firm affiliated with the Morris-Knudsen Company, Inc. Roy Mires has had considerable experience in mining operations, particularly gold dredging.

Paul W. Wise participated as the Operator on Contract Idm-E213, Docket No. DMEA 76 (antimony).

Equipment for exploration use on the property is available through the firm facilities of J. H. Wise & Son, Inc.

CONCLUSIONS

The analyses of the Bureau of Mines samples Nos. 1 and 4 indicate that exploration of the igneous-sedimentary contact is warranted.

The applicant's proposal of exploration in the monzonite dike by four 100-foot drifts would not satisfactorily explore the igneous-sedimentary contact, the most favorable zone of the tungsten occurrence.

The examining engineer recommends the following exploration program in lieu of that proposed by the applicant:

Explore the contact zone from the footwall side by 1,000 feet of horizontal core drill holes, the holes to be drilled normal to the strike of the contact from locations along the base of the cliff or from the road (see attached map). These holes would test the downward projection of the contact over a strike length of about 500 feet. Drill holes would be spaced 100 to 125 feet apart and only at locations approved by DMEA field examiners. Samples of the drill core should be taken in mineralized areas as well as further sampling of the outcrop at sites approved by field examiners.

Since the field examination was made, Mr. Mires, acting for the applicant, has been contacted and asked about his views concerning the proposed diamond drilling. He stated that the applicant was in agreement with the proposed drilling program. Furthermore, he agreed that any additional exploration of the deposit should be dependent upon the results of the diamond drilling. Mr. Mires also agreed that all diamond drill holes should be approved by the Government prior to drilling.

A unit cost contract, based on the following estimated costs, is recommended.

ESTIMATED COSTS OF PROJECT
*Maximum allowable

Time - 0 to 3 months

Agreed Unit Costs

Diamond drilling (AX)

Moving in equipment	$ 175.00
1000 feet @ $5.50/ft.*	5,500.00
Driving pipe, 50 feet @ $5.00/ft.*	250.00
Reaming and casing, 100 feet @ $4.50/ft.*	450.00
Cementing, 200 feet @ $4.00/ft.*	800.00
Bulldozing sites, 24 hours @ $12.50/hr.*	300.00
20 core boxes and sample supplies	100.00*
50 tungsten analyses @ $3.00/ea.	150.00*
1 Engineer, 10 days @ $25.00/day	250.00*
Total cost of project	$7,975.00
Government participation - 75%	$5,981.25

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
Engr

Defense Minerals Exploration Administration

Interior Bldg.

Washington 25, D.C.

402

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

April 14, 1954

Mr. Jack L. Bailey
Boise Dredging Company
2222 Broadway
Boise, Idaho

Re: Docket No. DMEA-3209 (Tungsten)
Boise Dredging Company
Custer County, Idaho

Dear Mr. Bailey:

During a recent visit to Boise, I discussed with you and with Mr. Roy Mires your application for a DMEA tungsten contract on your Little Falls Creek property, Custer County, Idaho. Mr. Mires and I discussed a proposed diamond drilling program to serve in lieu of the four short tunnels you requested in your application. Mr. Mires stated that diamond drilling would be acceptable to the applicant and that this drilling would be immediately undertaken if a contract is granted.

Upon my return to this office, I found that although you had submitted a copy of your lease and option agreement there were no Owner's Consent to Lien forms attached. Therefore, I am enclosing six copies of this Consent to Lien agreement which must be signed by Mr. W. C. Dewey and his wife and returned to this office before a contract can be negotiated. Upon receipt of the signed agreement, it will be forwarded to Washington, D. C., for consideration by our legal staff. As your application will not receive further attention until you have submitted this agreement, it will behoove you to take prompt action in this matter.

Sincerely yours,

Thor K. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: DMEA (2)
USBM (2)
Geologist

400

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

1201 N. Division St.
Spokane 2, Washington
March 25, 1954

Boise Dredging Company
P. O. Box 267
Boise, Idaho

Re: Docket No. DMEA 3209 (tungsten)
Boise Dredging Company
Gray Crown et al. claims
Custer County, Idaho

Gentlemen:

Reference is made to your inquiry dated March 17, 1954 concerning the status of the subject application.

The examining engineer's report has been forwarded to the Washington, D.C. office of DMEA, and no doubt you will soon be informed of the action taken on your application.

Sincerely yours,

Wing G. Agnew
Acting Executive Officer
DMEA Field Team, Region II

cc: DMEA, Wash. (2)
USGS (2)

400

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

[illegible]
No. 157 Howard Street
Spokane 4, Washington

Dmea
3209

November 30, 1953

Boise Dredging Company
P. O. Box 267
Boise, Idaho

Attention: Mr. Jack L. Bailey

WSM

Re: Application for DMEA contract

Gentlemen:

Reference is made to your application for a DMEA contract to explore a tungsten property on Little Falls Creek, Custer County, Idaho.

As you know, Mr. John Bowsher, U. S. Bureau of Mines, examined your property for DMEA on November 2, 1953, accompanied by two officials of your concern. Mr. Bowsher reports that part of his time spent at the property was devoted to taking samples and to discussing with the company officials various ways of further testing the property. The latter-mentioned discussions were necessary because at no place in your DMEA application was there a specific description of the proposed work to be done, or of the proposed costs, time necessary to complete the work, etc.

Mr. Bowsher has informed us that he requested the accompanying company officials to supply DMEA with a more specific description of the work to be done. We should like to confirm this request and to further request that any description of proposed exploration be complete with such data as maps of work to be done, the estimated costs of the work, time needed to complete the project, materials and supplies needed, etc. In short, to further process your application, we must have more of the information requested under items 5 and 6 of the DMEA application form.

Your attention to these requests will be appreciated.

Sincerely yours,

Thor F. Kiilsgaard
Acting Member, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)

400

NOV 17 1953

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

Re: Docket No. DMEA 3209 - Tungsten
Boise Dredging Company
Gray Group et al. claims
Little Falls Creek
Custer County, Idaho

Dear Mr. Weinzenborn:

Reference is made to the subject docket and your letter of November 10, 1953, which stated that a field examination of the property had been scheduled.

We will, therefore, hold this application in abeyance until the report and recommendations by the Field Team are received. It will be appreciated if the Field Team will obtain from the Applicant a specific description of the proposed project with full details of costs.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

FARutledge:foc
11-16-53
cc: Docket
Code 400
FT. Reg. II
Operating Comm.
Admr. Reading File
R.W. Geehan, USBM
T. P. Thayer, USGS

400

NOV 17 1953

Boise Dredging Company
P. O. Box 267
Boise, Idaho

Re: Docket No. DMEA 3209 - Tungsten
Gray Crown et al. claims
Little Falls Creek
Custer County, Idaho

Gentlemen:

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

The Regional Office will contact you at an early date with regard to an examination of your property. Any assistance that you can render the members of the Field Team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge:foc
11-16-53
cc: Docket
Code 400
FT. Reg. II
R. W. Geehan, USBM
T. P. Thayer, USGS
Admr. Reading File
Operating Committee

402

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D.C.

[illegible]
Co. 157 Power Office
Spokane 6, Washington

DEPARTMENT OF THE INTERIOR
Leased Lands [illegible]
RECEIVED
FEB 13 1958

November 20, 1957

Mr. George C. Gallagher, Chairman
Operating Committee, MEA
Department of the Interior
Washington 25, D. C.

Dear Mr. Gallagher:

Enclosed are three copies of an application submitted by the Rocky Energy Company, P. O. Box 207, Boise, Idaho. This application concerns a tungsten property on Little Falls Creek, Custer County, Idaho.

We have at this office seen outcrops on the Little Falls tungsten property, but not enough to be used in preparing a full field report on the subject application. However, as the property is at a high altitude and will soon be covered with snow, we have instructed Mr. John Dowling, U. S. Bureau of Mines, to contact the applicant and arrange an immediate examination. Mr. Dowling planned to visit the property on November 21, 1957.

A field report by Mr. Dowling will be forwarded to your office as soon as it is completed.

Sincerely yours,

Chas. E. Aldegren
Acting Director, DEA
Field Team, Region II

Enclosure

cc: USGS (2)

400

Docket
Surname

Hopkins
Martin
Geehan
Newcomb
Hedges
Selfridge

AUG 5 1954

Boise Dredging Company
P. O. Box 267
Boise, Idaho

Re: Docket No. DMEA 3209 - Tungsten
Dewey Property
Custer County, Idaho

Gentlemen:

Your application for aid for an exploration project and other data available to us in Washington relating to the above named 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 small amounts 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, under the circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf
Administrator

JHOPKINS:foc
8-2-54
cc to: Docket
Code 400
Adm. Reading File
Oper. Comm.
FT. Reg. II
R. W. Geehan, USBM
E. L. Newcomb, USGS - Rm. 5227

R.C.G.

Docket

IN REPLY REFER TO:

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

August 2, 1954

WSM

Re: DMEA 3209
Boise Dredging Co.
Dewey Property
Custer Co., Idaho
$7,975 - Tungsten

Memorandum

To: W. S. Martin
Defense Minerals Exploration Administration

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

Subject: Concurrence with Field Team recommendation for denial

The Field Team report, based on the re-examination of the Dewey prospect, recommends the applicant's proposal be denied.

The limited and spotty nature of the tungsten mineralization indicates a significant deposit is unlikely to be found by the proposed work. Also the apparent uncooperative attitude of the applicant shows a lack of interest in DMEA exploration assistance.

I concur with the Field Team and recommend this application be denied.

E. L. Newcomb

E. L. Newcomb

Docket
Surname

Hopkins
Gerkan
Newcomb

August 2, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $14,000.00
Docket No. DMEA 3209 - Tungsten
Boise Dredging Company
Dewey Property
Custer County, Idaho

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

The applicant proposed to explore the Dewey property with four 100-foot tunnels (adits). Following a field examination, the Field Team recommended that 4 diamond drill holes be substituted for the adits at an estimated cost of $7,975.00.

The area is underlain by rocks of Ordivician age (Phi Kappa formation) that have been intruded by a quartz monzonite.

The quartz monzonite is a dike-like body which cuts across the beds of the enclosing Phi Kappa formation. The southwest border of the quartz monzonite strikes S. 40° E. and dips 45° to the northeast. The Phi Kappa formation, which is composed of quartzites argillites and thin beds of limestone strike approximately north and dips about 22° to the east.

Scheelite is found along the igneous - sedimentary contact and appears to favor points where the limy beds of the Phi Kappa formation are in direct contact with the monzonite. Evidence that mineralization is so restricted cannot be regarded as conclusive, but "lamping" along the contact indicates that the deposit is of very limited extent and somewhat spotty.

The only working on the property is an irregular open-cut on a steep hillside that measures 16 feet along the southwest contact of the quartz monzonite and the Phi Kappa formation. The sedimentary footwall in the cut is exposed for an average depth of 2 feet while the face of the cut that penetrates the igneous rock for 6 feet is 12 feet high.

R.C.H.

Production from this cut is reported to have been 7,760 pounds of ore assaying 3.38 percent WO_3.

Four samples were taken in the open-cut by the examining engineer and gave the following results:

No.	Description	Percent WO_3
1.	Chip sample across 6' of monzonite	1.55
2.	Chip sample vertically across monzonite 6' from floor	0.28
3.	Chip sample vertically across monzonite 12' from floor	0.15
4.	Chip sample 4' cut on sedimentary footwall	0.94

The property was re-examined by the Field Team at the request of the Washington office.

During this re-examination, work was confined to the vicinity of the pit.

Detailed examination of the pit showed that where scheelite is found, the quartz monzonite is in contact with a narrow limy argillite bed in the Phi Kappa formation, the scheelite occurring on the quartz monzonite side of the contact.

The examining geologist concludes that if the thesis that the scheelite is confined to a fairly narrow limy bed on its contact with the monzonite is correct, the expense of an exploration project directed toward such a small target does not appear to be justified under the DMEA Program.

The Field Team, therefore, recommends that the application be denied.

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

JHopkins:foc 8-2-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.

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

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

August 2, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $14,000.00
Docket No. DMEA 3209 - Tungsten
Boise Dredging Company
Dewey Property
Custer County, Idaho

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

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The area is underlain by rocks of Ordivician age (Phi Kappa formation) that have been intruded by a quartz monzonite.

The quartz monzonite is a dike-like body which cuts across the beds of the enclosing Phi Kappa formation. The southwest border of the quartz monzonite strikes S. 40° E. and dips 45° to the northeast. The Phi Kappa formation, which is composed of quartzites, argillites, and thin beds of limestone strikes approximately north and dips about 22° to the east.

Scheelite is found along the igneous - sedimentary contact and appears to favor points where the limy beds of the Phi Kappa formation are in direct contact with the monzonite. Evidence that mineralization is so restricted cannot be regarded as conclusive, but "lamping" along the contact indicates that the deposit is of very limited extent and somewhat spotty.

The only working on the property is an irregular open-cut on a steep hillside that measures 16 feet along the southwest contact of the quartz monzonite and the Phi Kappa formation. The sedimentary footwall in the cut is exposed for an average depth of 2 feet while the face of the cut that penetrates the igneous rock for 6 feet is 12 feet high.

Production from this cut is reported to have been 7,760 pounds of ore assaying 3.38 percent WO_3.

Four samples were taken in the open-cut by the examining engineer and gave the following results:

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4.	Chip sample 4' cut on sedimentary footwall	0.94

The property was re-examined by the Field Team at the request of the Washington office.

During this re-examination, work was confined to the vicinity of the pit.

Detailed examination of the pit showed that where scheelite is found, the quartz monzonite is in contact with a narrow limy argillite bed in the Phi Kappa formation, the scheelite occurring on the quartz monzonite side of the contact.

The examining geologist concludes that if the thesis that the scheelite is confined to a fairly narrow limy bed on its contact with the monzonite is correct, the expense of an exploration project directed toward such a small target does not appear to be justified under the DMEA Program.

The Field Team, therefore, recommends that the application be denied.

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

W S Martin

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

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

July 6, 1954

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

WBM

Re: Docket No. DMEA-3209 (Tungsten)
Boise Dredging Company
Dewey Property
Custer County, Idaho

Dear Mr. Selfridge:

Attached is a memorandum by Howard B. Nickelson reporting on the re-examination of the Dewey property of the Boise Dredging Company, Custer County, Idaho. This re-examination was made in response to your letter of May 6, 1954. On the re-examination Nickelson recommends a denial of the application.

There are some good showings of scheelite on the property, but it is Nickelson's thesis that they are probably restricted to the vicinity of the contact of a lime bed in the Phi Kappa formation with the quartz monzonite intrusive. Exposures are not good, so this evidence cannot be regarded as conclusive; nevertheless, it is fairly obvious that the deposit is of very limited extent and somewhat spotty nature; furthermore, it is in a remote locality. In addition, the applicant has shown very little interest in the application and has not answered our request to obtain an Owner's Consent to Lien. We have heard from other sources that there is a possible dispute as to the ownership of the property; although we have not confirmed this, it might explain why the Owner's Consent to Lien has not been forthcoming. In view of these factors, the Field Team, while recognizing that there is some tungsten on the property, has reconsidered the previous favorable recommendation and now recommends denial of the application.

By Field Team, Region II

Reviewed by
DMEA OPERATING COMMITTEE
7-30-54
(date)

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

~~Thomas E. Howard~~
~~for:~~ Wing G. Agnew, Member
(U. S. Bureau of Mines)

Enclosure
cc: USBM(2); Nickelson

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

June 30, 1954

Memorandum

To: DMEA Field Team, Region II

From: Howard B. Nickelson, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA 3209 (tungsten), Re-examination, Boise Dredging Company, Dewey Property, Custer County, Idaho

The property was re-examined on June 19, 1954, in response to a request in Mr. Selfridge's letter of May 6, 1954. The quartz monzonite-Phi Kappa formation contact was mapped and possibilities for an exploration program were studied.

The quartz monzonite body is a dike-like body approximately 170 feet thick and with a visible length of about 400 to 500 feet, which cuts across the beds of the enclosing Phi Kappa formation. (See attached plan and section.) The southwest border of the quartz monzonite strikes S. 40° E. and dips 45° to the northeast. The Phi Kappa formation, which is composed of quartzites, argillites, and thin beds of limestone, strikes approximately north and dips about 22° to the east. The beds near the southeast end of the quartz monzonite body are somewhat crumpled and a strike and dip were difficult to find, but, in general, these beds appear to have the same attitude as those to the northwest.

Previous lamping of the contact northwest and southeast of the pit, by Bowsher of the Bureau of Mines and by the applicant, had shown that scheelite is not found everywhere along the contact, its occurrence appearing to be restricted to the vicinity of the pit shown on the attached sketch where some excellent tungsten assays were obtained. Because of this previous work and because the steep cliffs make it unsafe for one person to lamp alone at night, no attempt was made to thoroughly lamp the contact and the lamping was confined mostly to the vicinity of the pit. Detailed examination of the pit showed that where scheelite is found, the quartz monzonite is in contact with a limey argillite bed in the Phi Kappa formation, the scheelite occurring on the quartz monzonite side of the contact. The

Reviewed by
DMEA OPERATING COMMITTEE
7-30-54
(date)

evidence strongly suggests that the scheelite is found only at the intersection of the limey bed with the quartz monzonite. If the occurrence of scheelite is so restricted, the simple and relatively inexpensive drilling program previously recommended by the Field Team would not effectively explore the deposit, for it would be difficult to find drilling sites from which the intersection could be probed and almost certainly extensive bulldozing through the heavy talus cover would be necessary.

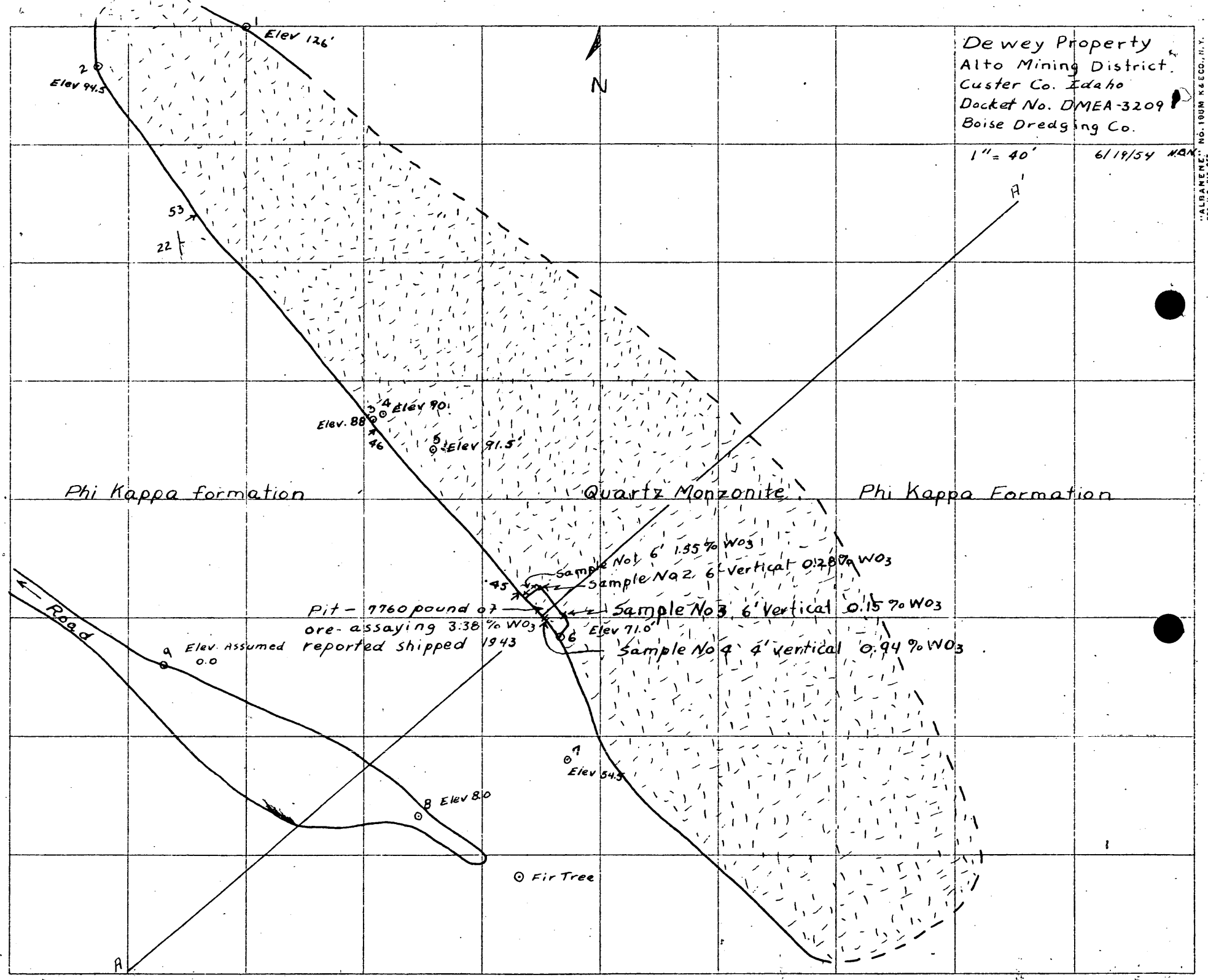
Probably a better way to explore the deposit would be to sink an inclined shaft from the bottom of the pit through the limey bed or until the tungsten values disappeared; then follow the footwall of the bed to the northwest by an inclined drift, exploring the quartz monzonite adjacent to the bed. A short crosscut to the surface would facilitate removal of the spoil from the advance. If the thesis that the scheelite is confined to a fairly narrow bed is correct, the drift might well exhaust most of the ore reserves; consequently, the expense of driving it does not appear to be justified under the DMEA program.

In further reply to Mr. Selfridge's letter, we presume that this is the same locality described by Fred Farwell in an unpublished USGS report. Farwell, however, reports the scheelite in the Phi Kappa formation rather than in the quartz monzonite, and it is possible that Farwell looked at a different deposit, although we believe it is the same.

The applicant has not submitted Consent to Lien Agreement forms, as requested by Thor Kiilsgaard in a letter dated April 14, 1954.

Enclosures (2)

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Nickelson


Dewey Property
Alto Mining District
Custer Co. Idaho
Docket No. DMEA-3209
Boise Dredging Co.
1" = 40'
6/19/54 H.A.N.
N
Elev 126'
Elev 94.5
53
22
Elev 90
Elev. 88
46
Elev 91.5'
Phi Kappa formation
Quartz Monzonite
Phi Kappa Formation
Sample No 1 6' 1.35 % WO3
Sample No 2 6' vertical 0.78 % WO3
Sample No 3 6' vertical 0.15 % WO3
Sample No 4 4' vertical 0.94 % WO3
Pit - 7760 pound of ore - assaying 3.38 % WO3 reported shipped 1943
Elev 71.0'
Road
Elev. Assumed 0.0
Elev 8.0
Elev 54.5
Fir Tree
A
A'

402

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

[illegible] Howard Street
[illegible], Washington

[illegible] 1954

Mr. [illegible], Chairman
Operating Committee, [illegible]
Department of the Interior
Washington 25, D. C.

Re: Dental [illegible]-1220, Elevator,
Boise Mining Company
Lemhi County
Custer County, Idaho

Dear Mr. Chairman:

Attached is a memorandum by Merrill [illegible] reporting on the re-examination of the [illegible] property of the Boise Mining Company, Custer County, Idaho. This re-examination was made in response to your letter of [illegible] 6, 1954. [illegible] re-examination [illegible] recommendations [illegible] of the application.

There are no good openings or exposures on the property, but it is [illegible]'s thesis that they are [illegible] restricted to the vicinity of the contact of a limestone [illegible] formation with the quartz monzonite intrusive. Assuming [illegible], so this evidence can [illegible] be regarded as [illegible] give; nevertheless, it is [illegible] that the deposit is of [illegible] and [illegible] nature; furthermore, it is [illegible]. In addition, the applicant has shown very little interest in the application and has not answered our request to [illegible] answers [illegible]. We have [illegible] from other sources that there is a possible dispute as to the ownership of the property; although we have not confirmed this, it might be advisable for the Bureau to [illegible] not been [illegible]. In view of these factors, the [illegible], while recognizing that there is [illegible] in the property, has recommended the [illegible] of [illegible] and now recommends denial of the application.

[illegible], Director

Reviewed by
DMEA OPERATING COMMITTEE

7-30-54
(date)

[illegible], Director
[illegible]

[illegible]
[illegible]

[illegible]
[illegible]

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

June 30, 1954

8/6/54

Memorandum

To: DMEA Field Team, Region II

From: Howard B. Nickelson, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA 3209 (tungsten), Re-examination, Boise Dredging Company, Dewey Property, Custer County, Idaho

The property was re-examined on June 19, 1954, in response to a request in Mr. Selfridge's letter of May 6, 1954. The quartz monzonite-Phi Kappa formation contact was mapped and possibilities for an exploration program were studied.

The quartz monzonite body is a dike-like body approximately 170 feet thick and with a visible length of about 400 to 500 feet, which cuts across the beds of the enclosing Phi Kappa formation. (See attached plan and section.) The southwest border of the quartz monzonite strikes S. 40° E. and dips 45° to the northeast. The Phi Kappa formation, which is composed of quartzites, argillites, and thin beds of limestone, strikes approximately north and dips about 22° to the east. The beds near the southeast end of the quartz monzonite body are somewhat crumpled and a strike and dip were difficult to find, but, in general, these beds appear to have the same attitude as those to the northwest.

Previous lamping of the contact northwest and southeast of the pit, by Bowsher of the Bureau of Mines and by the applicant, had shown that scheelite is not found everywhere along the contact, its occurrence appearing to be restricted to the vicinity of the pit shown on the attached sketch where some excellent tungsten assays were obtained. Because of this previous work and because the steep cliffs make it unsafe for one person to lamp alone at night, no attempt was made to thoroughly lamp the contact and the lamping was confined mostly to the vicinity of the pit. Detailed examination of the pit showed that where scheelite is found, the quartz monzonite is in contact with a limey argillite bed in the Phi Kappa formation, the scheelite occurring on the quartz monzonite side of the contact. The

Reviewed by
DMEA OPERATING COMMITTEE
7-30-54
(date)

evidence strongly suggests that the scheelite is found only at the intersection of the limey bed with the quartz monzonite. If the occurrence of scheelite is so restricted, the simple and relatively inexpensive drilling program previously recommended by the Field Team would not effectively explore the deposit, for it would be difficult to find drilling sites from which the intersection could be probed and almost certainly extensive bulldozing through the heavy talus cover would be necessary.

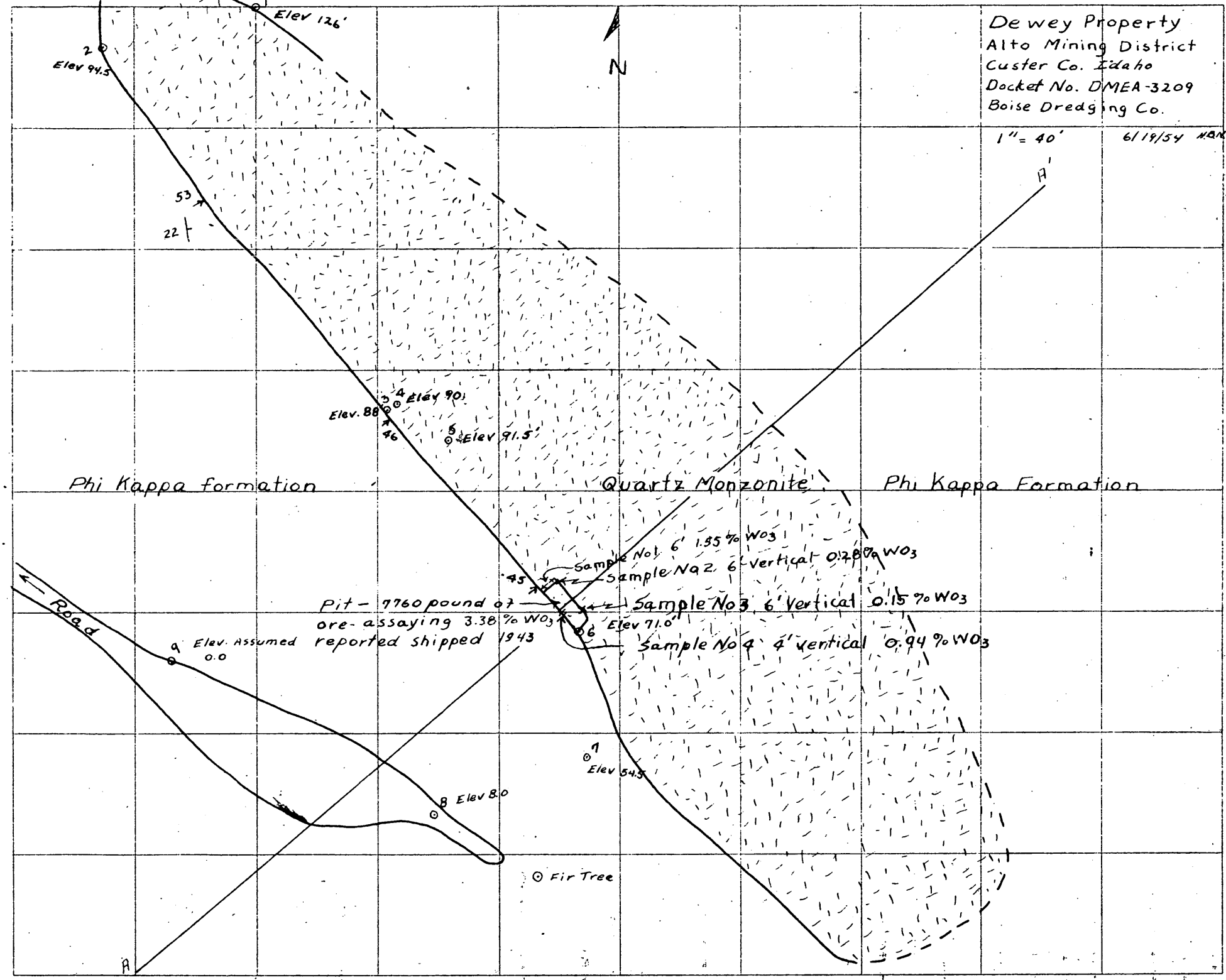
Probably a better way to explore the deposit would be to sink an inclined shaft from the bottom of the pit through the limey bed or until the tungsten values disappeared; then follow the footwall of the bed to the northwest by an inclined drift, exploring the quartz monzonite adjacent to the bed. A short crosscut to the surface would facilitate removal of the spoil from the advance. If the thesis that the scheelite is confined to a fairly narrow bed is correct, the drift might well exhaust most of the ore reserves; consequently, the expense of driving it does not appear to be justified under the DMEA program.

In further reply to Mr. Selfridge's letter, we presume that this is the same locality described by Fred Farwell in an unpublished USGS report. Farwell, however, reports the scheelite in the Phi Kappa formation rather than in the quartz monzonite, and it is possible that Farwell looked at a different deposit, although we believe it is the same.

The applicant has not submitted Consent to Lien Agreement forms, as requested by Thor Killingsard in a letter dated April 14, 1954.

Enclosures (2)

Distribution:
DMEA (Orig. & 3)
USBM (2)
Doskat
Nicholson


Dewey Property
Alto Mining District
Custer Co. Idaho
Docket No. DMEA-3209
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Phi Kappa formation
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Sample No 1 6' 1.55 % WO3
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Sample No 4 4' vertical 0.94 % WO3
Road
9 Elev. Assumed 0.0
7
Elev 54.5
8 Elev 8.0
Fir Tree

400

Docket

Rutledge
Martin
Selfridge
Johnson
Weissenborn

MAY 2 3 1954

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

Re: Docket No. DMEA 3209-Tungsten
Boise Dredging Company
Dewey Property
Custer County, Idaho

Dear Mr. Weissenborn:

This will acknowledge your letter of May 13, 1954, responding to our request for a re-examination of the subject property.

We appreciate your supplementary comments on the recommended project, but believe that the deposit warrants further consideration before any project may be approved. The referenced docket, therefore, will be held in abeyance until the property is re-examined and the Field Team's report and recommendations are received.

Sincerely yours,

George C. Selfridge (By ESF)

Chairman, Operating Committee

APPROVED:

J. H. Hedges (By ESF)

Member, Bureau of Mines

D. M. Barrabee (By ESF)

Member, Geological Survey

cc: DOCKET
FIELD TEAM, REG. II
CODE 400
OPER. COMM.
ADM. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS

FARutledge/ls
5/20/54

R.C.H.

DOCKET

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

May 13, 1954

WSay

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

Re: Docket No. DMEA-3209 (tungsten)
Boise Dredging Company
Dewey Property
Custer County, Idaho

Dear Mr. Selfridge:

Reference is made to your letter of May 6, wherein you request a re-examination of the cited application. We will conduct an examination as soon as possible; however, owing to heavy snow conditions and to the high altitude of the property, it will probably be late in June before the property will be accessible.

With regard to your reasons for a re-examination, we wish to say that we realized the proposal submitted from the field was sketchy, as to the target of the proposed work, and as to where it was to be located, but we, nevertheless, submitted it in that manner as we believed that a contract might be negotiated which could be worked during the short season normal in that area. We thought that if a contract was approved, drilling could be started in the most favorable target with subsequent drill sites to be selected after we had closely examined the outcrop and also appraised the results of initial drilling. Our location of four drill sites on the map was merely for diagrammatic purposes. Some of those drill sites might be moved if the property was re-examined; however, there would be an even greater chance they would be moved once the results of the initial hole under the favorable outcrop location had been evaluated. For these reasons, we believe the definite location of drill sites at this time is impracticable.

Our field examiner has informed us that he does not believe any horizontal standpiping will be necessary for the proposed work. If the holes are located at the base of the cliff below the contact they would collar in bedrock. Further, if they were drilled from the road cut no trouble is anticipated as it is believed the road cut is almost to solid rock. The talus, while covering the slope, is not believed to be too deep.

Copy retained 400

We doubt if further surface prospecting will be too practical. Such work will have to be done by hand as the steep, cliff-like hillside will not permit bulldozing. To the south, the contact could be tested by dozing but this is well beyond the tungsten outcrop.

We cannot prove that the property described by Fred Farwell, in his memorandum attached to your letter, is the same property now held by the Boise Dredging Company; although, from a casual study of available reports, it would appear to be one and the same.

By Field Team, Region II

A. E. Weissenborn

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

Wing G. Agnew

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

cc: USBM (2)
Kiilsgaard

Docket
Surname
Rutledge
Martin
Selfridge
McSpadden
McGandorf

MAY 6 - 1954

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

Re: Docket No. DMEA 3209 - Tungsten
Boise Dredging Company
Denny Property
Custer County, Idaho

Dear Mr. Weissenborn:

The subject application for exploration assistance is being referred to you for a reexamination for the following reasons:

1. Horizontal stand-piping (driving casing) is an extremely costly and impractical method of approach in this case.

2. Diamond drilling is not recommended for exploring a spotty, high-grade, contact tungsten deposit.

3. Only one of the four drill holes is located to explore the downward extension of known tungsten occurrences. The drill hole to the southeast will be under an outcrop indicated by lamping to be barren of tungsten, and the surface above the two drill holes to the northeast apparently was not tested by lamping.

4. Further surface prospecting should be considered before underground exploration is recommended.

We are enclosing a copy of a report of examination on a Florence claim, Alta Mining District, Custer County, Idaho, made by Fred W. Farwell, Associate Geologist, U. S. Geological Survey, in 1943. If the referenced property is the same as that covered by the subject application, it is apparent that the deposit has little merit.

A related memorandum of April 27, 1954, by Robert W. Geehan, Bureau of Mines, is enclosed for your information.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

Enclosure

APPROVED:

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

Philip W. Guild
Member, Geological Survey (JHB)

FARutledge:foc
5-4-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg. 2
R. W. Geehan, USBM
T. P. Thayer, USGS

CROSS REFERENCE SHEET 20438

File folder: Custer County Idaho

Subject: Florence and Cornelia Claims, western Custer Co.

Extract: "This report (dated 6/14/43) amends and supersedes the brief memorandum on the same claim which I submitted on April 22. At that time I was uncertain that the property was the 'Florence Mine' referred to in Mr. Cannon's letter of April 15, even though the claim is the only recorded 'Florence' near the head of Big Lost River. For reasons hich I thought were politic I have refrained from making any inquiry of the owners. However, the occurrence of scheelite on the property corroborates the location.

"We took three samples from the mineralized outcrop, but we are holding them here pending further instructions from you. The predictable tonnages are so negligible that assays hardly seem worthwhile.

"My remarks on general geology pertain also to the contiguous Cornelia claim, which may be pertinent to the case because of overlapping ownership. We inadvertently traversed a large portion of the Cornelia ground before locating the Florence lode. We did find two of the Florence corner stakes and the discovery stake, and more than covered the claim despite our inability to locate the other corners. Except for some veins of milky quartz, we found no mineralization on the Cornelia claim.

"I cannot recommend any further Survey or Bureau work on these properties. Perhaps after the war, or sooner if other properties warrent, a study of the Alta district as a whole would be an interesting project."

Source: Farwell letter to Nolan, from Mackay.

Date: June 14, 1943.
Filed: Metals Section Geologists files (Farwell folder), Acc. 4212.

June 14, 1943

4670

REPORT ON EXAMINATION

Florence Claim
Alta Mining District
Custer County
Idaho

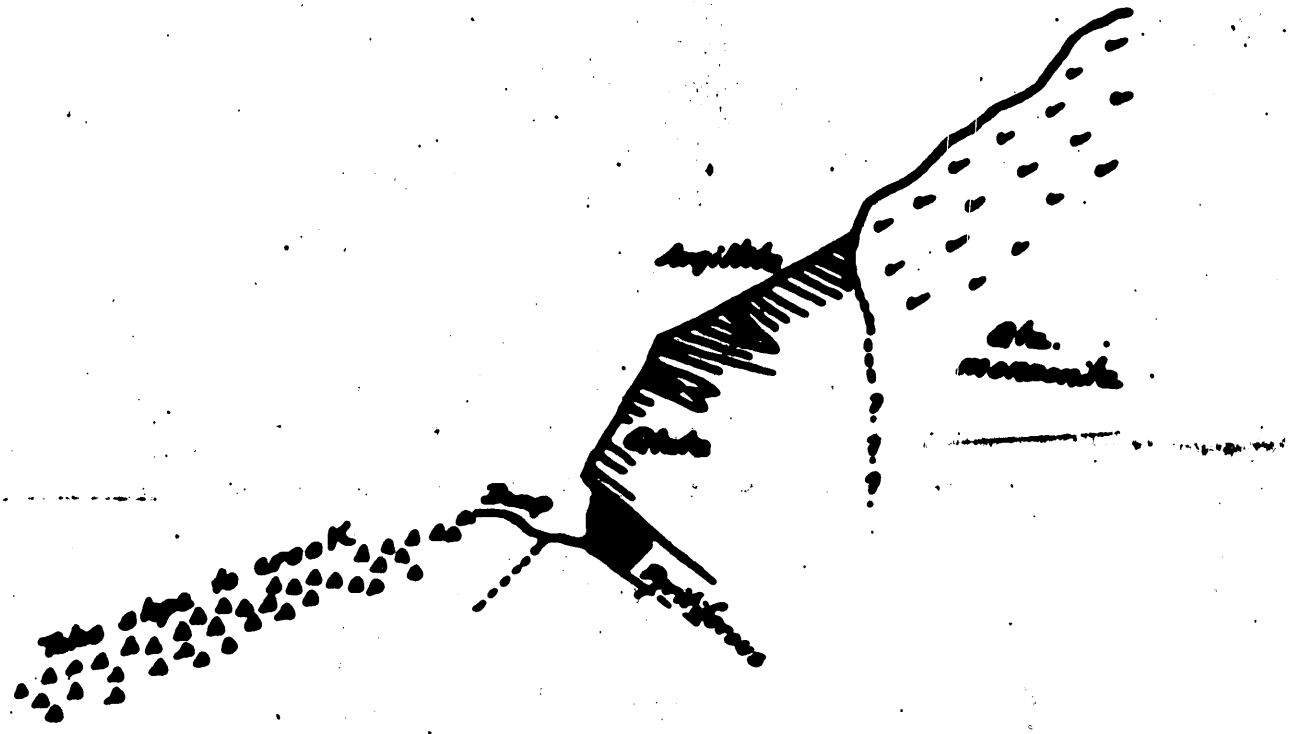
The Florence Claim is located near the mouth of Little Falls Creek, a tributary to Summit Creek in western Custer County. It lies partway up the northeast wall of Little Falls valley, at elevations above 7600 feet. Higher up the slope it is adjoined by the parallel Cornelia claim. By road the property is roughly 45 miles from Mackay and 15 miles from Ketchum, the nearest railheads. A dirt road follows Little Falls Creek for several miles, but there is no roadway onto the Florence Claim.

The claim was located by R. L. McConnell, E. H. Dewey (deceased), W. C. Dewey, O. G. McConnell, and W. J. Scales, and presumably the locaters are also the owners. On May 20, 1943 the Cornelia claim was located by R. L. McConnell and W. C. Dewey immediately northeast of the Florence Claim.

The country rock is chiefly a black argillite series with some quartzite members and occasional lenses of limestone. The beds are involved in minor folds but no major folds were observed. This sedimentary series forms the roof of a quartz monzonite stock which crops out in the creek bed below and on the valley wall farther upstream and downstream. Dikes of fine-grained quartz monzonite cut the argillites, producing narrow haloes of hornfels. Narrower dikes of andesite porphyry with east to northeast strikes also intrude the sedimentary rocks. Veins of milky quartz with no great persistence along the strike and from two inches to two feet in width traverse the argillites both parallel to and oblique to the bedding.

At least sixty percent of the Florence claim is covered with heavy talus descending to the creek bottom from argillite cliffs on and above the Cornelia claim. The talus slopes are as steep as 34°, and for considerable part are treeless or nearly so. The thickness of the talus may reach ten feet or more along the west side line. The southeastern portion of the Florence is covered by morainal material. Only in the northeast and center are there any outcrops.

The bold central outcrop is approximately 300 feet long by 100 feet wide at its greatest width, and its upper and lower limits have a difference in elevation of about 70 feet. It is completely isolated within the talus. At the base are some banded fine-grained quartzites striking N 10 W to N 25 W and dipping northeast at low angles. Above lies a quartz monzonite dike which occupies most of the outcrop. The igneous contact is very irregular but seems in general to dip steeply to the northeast. The structure is shown in the cross section on the following page.



Section through discovery looking north

Section line N 74 E. Scale. 1" = 20'

Near the base of the quartzite is a lenticular body six feet thick containing disseminated scheelite. The body has a strike length of 38 feet roughly parallel to the strike of the quartzites. The body tapers out to the south but to the north it either ends abruptly or bends beneath the rising talus. The discovery pit which is the only workings on the property is located at the greatest width of this lens. The lower four and one-half feet of the body consist of pyrite, quartz, muscovite, chalcopyrite, and scheelite in that approximate order of abundance. The upper foot and one-half consists of a white silicate rock containing quartz, muscovite or phlogopite, pyrite, scheelite, and possibly some garnet. The lens dips 34° to the northeast. Narrow veinlets of pyrite and chalcopyrite are found in the adjacent quartzite parallel to the bedding. The scheelite is generally fine-grained and seems to carry 0.1% of $CaWO_4$.

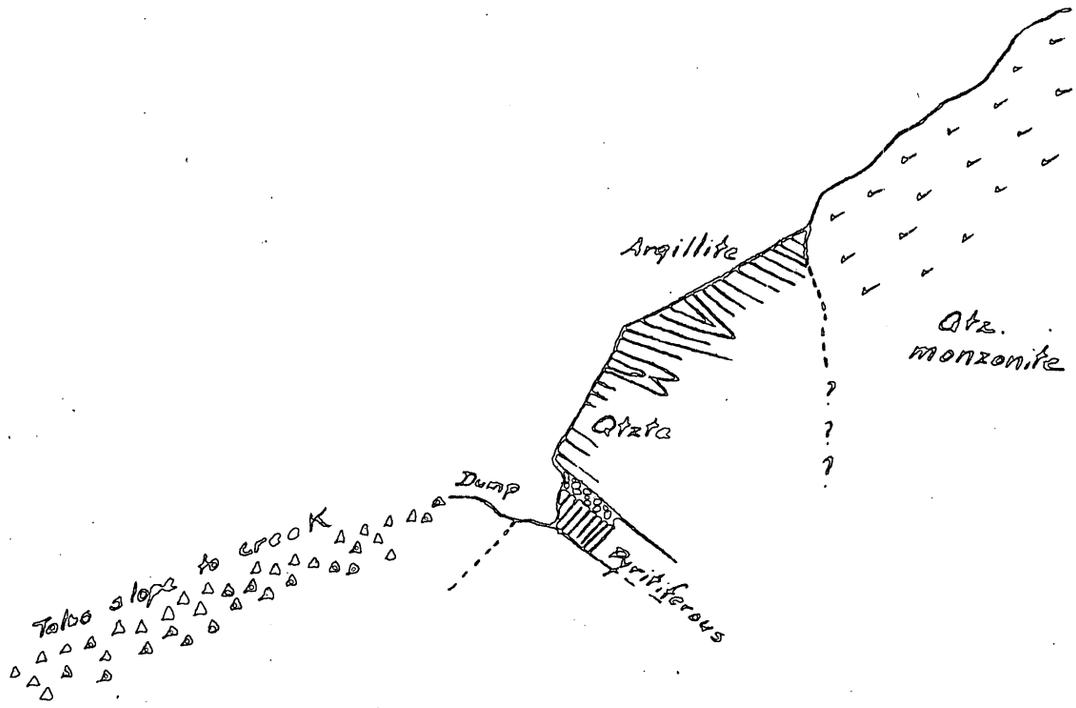
Probably twenty tons or more can be broken from this face without any further development, but there is a serious question of the continuity of this body down the dip. Undoubtedly

the mineralization is genetically related to the quartz monzonite stock. It may stem directly from the nearby dike, which is not far removed from the main body of igneous rock. The mineralization may represent the replacement of a more calcareous portion of the sedimentary series. A nearby lens of limestone of smaller dimensions shows a narrow halo effect containing a small amount of scheelite. There is no scheelite along the contact of the quartz monzonite and the quartzite or argillite.

In view of the limited exposure of the mineralization and the time elapsed since the original inquiry about the deposit, this report is being submitted without assays or comment on the grade. If necessary, assay returns can be furnished later.

Respectfully submitted,

Fred W. Barwell
Associate Geologist


Argillite
Qtz.
monzonite
Qtzte
Dump
Talus slope to creek
Pyritiferous

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

April 27, 1954

Memorandum

WSM

To: W. S. Martin, DMEA

From: Robert W. Geehan

Subject: DMEA 3209 - Tungsten
Boise Dredging Company
Dewey Property
Custer County, Idaho

The applicant proposed 4 drifts (adits); the Field Team report has substituted 4 diamond drill holes. The latter are estimated to cost $7,975; the Government participation is estimated at $5,981.25. The Field Team have secured approval of the applicant for the change to drilling and, on this basis, they recommend approval.

The tungsten mineralization is reported to be at an igneous-sedimentary contact. Reports of shipments and 4 samples confirm the presence of tungsten. Much pertinent information is lacking. The report does not mention surface trenching; there is an implication that a "cliff" is at or near the contact. In fact, horizontal diamond drill holes are proposed from surface stations. The examining engineer was unable to locate tungsten minerals "at the base of the outcrop" southeast of the open-cut. There is no reference to an attempt to locate an extension of tungsten mineralization north of the open cut.

The use of diamond drill holes to extend knowledge regarding this deposit is of questionable value. There are few facts to indicate the nature of the mineralization. The letter of April 14 says scheelite is "reported to be quite continuous along the outcrop." There is nothing in the report to indicate any knowledge whatsoever about the horizontal extent. This would seem to imply that the Field Team has data not included in the Bowsher report.

Recommendations:

It is recommended that a letter be sent to the Field Team requesting an opinion regarding the use of surface trenches or test pits prior to diamond drilling.

As the report now stands, I would favor a re-examination prior to approval.

Robert W. Geehan

Robert W. Geehan

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

Docket

April 14, 1954

WSM

Mr. Jack L. Bailey
Boise Dredging Company
222½ Broadway
Boise, Idaho

Re: Docket No. DMEA-3209 (Tungsten)
Boise Dredging Company
Custer County, Idaho

Dear Mr. Bailey:

During a recent visit to Boise, I discussed with you and with Mr. Roy Mires your application for a DMEA tungsten contract on your Little Falls Creek property, Custer County, Idaho. Mr. Mires and I discussed a proposed diamond drilling program to serve in lieu of the four short tunnels you requested in your application. Mr. Mires stated that diamond drilling would be acceptable to the applicant and that this drilling would be immediately undertaken if a contract is granted.

Upon my return to this office, I found that although you had submitted a copy of your lease and option agreement there were no Owner's Consent to Lien forms attached. Therefore, I am enclosing six copies of this Consent to Lien agreement which must be signed by Mr. W. C. Dewey and his wife and returned to this office before a contract can be negotiated. Upon receipt of the signed agreement, it will be forwarded to Washington, D. C., for consideration by our legal staff. As your application will not receive further attention until you have submitted this agreement, it will behoove you to take prompt action in this matter.

Sincerely yours,

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: DMEA (2)
USBM (2)
Geologist

"Spectographic analyses"
Drilling for Tungsten not too effective
Nickels all "Nil"
Both USGS & USBM should give us memos.

Docket

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

April 14, 1954

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

WSM

Re: Docket No. DMEA-3209 (Tungsten)
Boise Dredging Company
Dewey Property
Custer County, Idaho

Reviewed by
DMEA OPERATING COMMITTEE
4-23-54
(date)

Dear Mr. Selfridge:

Enclosed are four copies of a memorandum report on the subject docket by John A. Bowsher, U. S. Bureau of Mines. Also enclosed is a copy of the applicant's lease agreement. No Owner's Consent to Lien agreement has been presented as yet but we are writing the applicant asking that he forward signed copies of this agreement to us as soon as possible.

Mr. Bowsher recommends a more modest exploration program than submitted by the applicant by substituting diamond drilling for the proposed tunnel work. Since Mr. Bowsher's report was prepared, Mr. Roy Mires, acting for the applicant, has been contacted and questioned regarding his views on the alternative diamond drilling program. He stated that the applicant favored the drilling program and that if they received a contract they would commence such work as soon as weather permitted.

The Field Team realizes that only a limited amount of information has been collected on the Dewey property but it is believed that information gathered indicates that the property warrants further exploration. Scheelite is reported to be quite continuous along the outcrop and the small shipment that has been made has been of good grade. In addition to this shipment we are informed that a recent mill test batch of 100 pounds, collected by the applicants and ran at the Bunker Hill mill, assayed 1.49% WO_3. A more definite exploration program could probably be presented but this would involve additional field examination. As the area is currently overlain by snow and will be until late in May, it is believed more practicable to lay out only a tentative program at this time in order that work may commence this season. If we wait until May or June to re-examine the property and then prepare the

Cleared OC - 4-23-54

Field Team report it might be so late in the season before a contract was granted that the applicant would not be able to complete the program before snowfall.

The Field Team concurs with Mr. Bowsher and recommends that a unit cost contract be granted the applicant, the costs to be based along the lines recommended by Bowsher.

By Field Team, Region II

A. E. Weissenborn

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

Wing G. Agnew

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

Enclosures

cc: USBM (2)

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

1201 N. Division St.
Spokane 2, Washington
March 24, 1954

gcf
5/5/54

Reviewed by
DMEA OPERATING COMMITTEE
4-23-54
(date)

MEMORANDUM

To: DMEA Field Team, Region II

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Field examination of the W. C. Dewey Property, Alta District, Custer County, Idaho, Docket No. DMEA 3209 (tungsten), applicant: Boise Dredging Company, Boise, Idaho

INTRODUCTION

The Dewey property was examined as a possible tungsten-nickel exploration project on November 9 and 10, 1953, by John A. Bowsher, Mining Engineer, U. S. Bureau of Mines, in company with Messrs. Paul Wise and Ray Miers, Boise Dredging Company, 222 Broadway, Boise, Idaho, lessee and applicant. The property was visited again, and sampled, the following day, November 11, by John A. Bowsher. Approximately twelve hours were spent on the property.

RECOMMENDATIONS

The examining engineer recommends a diamond drilling exploration project to test the igneous-sedimentary contact, with a unit cost contract to be awarded on the basis of Bureau of Mines cost estimates.

LOCATION AND ACCESSIBILITY

The Dewey property consists of 8 unpatented lode mining claims located in sec. 14, T. 6 N., R. 19 E., Boise Meridian, Alta Mining District, Custer County, Idaho. The property is on Little Falls Creek near its junction with Summit Creek, Summit Pass, about 15 miles northeast of Ketchum, Idaho.

Access to the property is via the graveled Trail Creek Highway from Ketchum to Hackay. Road log: with speedometer reading 0.0 at the Texaco Station, Ketchum, turn right at next street intersection north, Sun Valley Lodge road, thence over Summit Pass, and at speedometer reading 14.9 turn left (north) on dirt road up Little Falls Creek canyon, thence 0.6 mile to the small ore bin and sorting shed on the east side of the canyon.

Snowfall in the region is heavy, and the road from Ketchum is not kept open during the winter.

PRODUCTION

The only evidence of an attempt to exploit the scheelite occurrence is a small open-cut in the quartz monzonite outcrop, at the igneous-sedimentary contact, on the Florence claim. This cut in a cliff, about 50 feet above the ore bin, was the work of a former lessee. The applicant's production information is inconsistent because the MF-103 states that 4 tons, averaging 4.5 percent WO_3, was shipped in 1943 while its accompanying map shows that 7,760 pounds, assaying 3.38 percent WO_3, was shipped in 1943; no information is given regarding the number of shipments, i.e., one, two, or more.

Messrs. Wise and Miller identified about 5 tons of similar dike material on a vacant lot in Bailey, Idaho, as being mined from the open-cut; however, this information was not verified.

The irregular open-cut, N. 30° W. strike, measures 16 feet along the southwest contact of the quartz monzonite and the upturned Phi Kappa formation and penetrates the igneous rock for 6 feet, forming a NE face 12 feet high. The sedimentary footwall is exposed for an average depth of 2 feet on the dip, which is 49° to the NE.

The surface facilities on the Florence claim consist of a 15-ton bin, sorting shed, and truck-loading slide.

On page 207 of Bulletin 814 there is an account of other prospects on Little Falls Creek, but it pertains only to the occurrence of base metals; a search of the bulletin does not disclose any data on tungsten.

EXAMINATION

The property was first visited very late the afternoon of November 9 to determine the most important areas that would possibly reveal the presence of scheelite under a mineral light. The first determined objective for langing was the open-cut and the contents of the ore bin; secondarily was the accessible area of the probable igneous-sedimentary contact southeast of the open-cut and toward the Trail Creek highway.

Approximately 200 pounds of the monzonite from the open-cut was in the orebin and showed fair scheelite under the light, but most of the crystals were small, 1/16-inch maximum in size, and not clustered.

The open-cut faces exhibited the monzonite as white, sugary in texture and grain, and having a blocky structure with minute incipient fracturing. The sedimentary footwall was black in color, blocky fracturing and crumbling, probably from long exposure. All of the

monzonite faces and the sedimentary footwall revealed the presence of scheelite under the mineral light; the best showing was on the NW face (monzonite) near the contact and mainly confined to the fractures in the monzonite. The scheelite crystals were tiny, probably less than 1/16-inch.

The igneous-sedimentary contact was not exposed southeast of the open-cut; however, this area at the base of the monzonite outcrop was the most accessible after dark for using a mineral light. The base of the outcrop, lasted for a length of about 500 feet, showed no scheelite. Fluorescent minerals were detected sporadically distributed in the monzonite and were tentatively identified as of calcareous origin.

SAMPLING

Four samples were taken in the open-cut the morning of November 11. The analyses of the samples are as follows:

Sample No.	Spectrographic														Chemical	
	Al	Be	Ca	Cu	Mg	Fe	Mn	Ni	Si	Ti	V	Mo	Na	W	WO_3%	Ni
1	A	E	D-	E	E	B	E	F	A	E	E	E-	C	C/	1.55	N.D.
2	A	E	D	E	E	B	E	F	A	E	E	E-	C	C	0.28	N.D.
3	A	E	D-	E	E	B	E	E	A	E	E		C	D/	0.15	N.D.
4	A	E	D	E	D	A	E	E	A	E	E	E/	C	C	0.94	N.D.

A - over 10%; B - 5 to 10%; C - 1 to 5%; D - 0.1 to 1%; E - 0.01 to 0.1%; F - 0.001 to 0.01%

Sample No. 1 was taken from the NW face of the open-cut. It was a chip sample cut horizontally 4 feet above the floor, and measured 6 feet across the monzonite, from the contact to the NE corner of the open-cut.

Sample No. 2 was taken from the NE face of the open-cut. It was a chip sample cut vertically 6 feet from the NE corner, and measured 6 feet from the floor up the monzonite face.

Sample No. 3 was identical to No. 2 except that it was cut 12 feet from the NE corner.

Sample No. 4 was taken from the sedimentary footwall exposed as the SW face of the open-cut. It was a chip sample cut vertically 9 feet from the NW corner, and measured 4 feet, on the dip, from the floor to the rim.

PROPOSAL

The applicant proposes to explore the monzonite by "four (4) 100-foot tunnels or horizontal drifts into the face (?) of the deposits at various points, as shown on the accompanying sketch. We believe these tunnels going in for a distance of 100 feet would explore and prove the horizontal depth of the property and at the same time would develop a considerable body of ore." The total cost of the proposal was estimated to be $14,000.00 and the Government's share $11,500.00.

COMPETENCE OF APPLICANT

The Boise Dredging Company is a partnership consisting of Messrs. Paul W. Wise, Roy Mires and Jack L. Bailey, P. O. Box 267, Boise, Idaho. Paul W. Wise is the president and Jack L. Bailey the office manager for J. H. Wise & Son, Inc., 222 Broadway, Boise, Idaho, a contracting and construction firm affiliated with the Morris-Knudsen Company, Inc. Roy Mires has had considerable experience in mining operations, particularly gold dredging.

Paul W. Wise participated as the Operator on Contract Idm-8213, Docket No. DMEA 76 (antimony).

Equipment for exploration use on the property is available through the firm facilities of J. H. Wise & Son, Inc.

CONCLUSIONS

The analyses of the Bureau of Mines samples Nos. 1 and 4 indicate that exploration of the igneous-sedimentary contact is warranted.

The applicant's proposal of exploration in the monzonite dike by four 100-foot drifts would not satisfactorily explore the igneous-sedimentary contact, the most favorable zone of the tungsten occurrence.

The examining engineer recommends the following exploration program in lieu of that proposed by the applicant:

Explore the contact zone from the footwall side by 1,000 feet of horizontal core drill holes, the holes to be drilled normal to the strike of the contact from locations along the base of the cliff or from the road (see attached map). These holes would test the downward projection of the contact over a strike length of about 500 feet. Drill holes would be spaced 100 to 125 feet apart and only at locations approved by DMEA field examiners. Samples of the drill core should be taken in mineralized areas as well as further sampling of the outcrop at sites approved by field examiners.

Since the field examination was made, Mr. Miron, acting for the applicant, has been contacted and asked about his views concerning the proposed diamond drilling. He stated that the applicant was in agreement with the proposed drilling program. Furthermore, he agreed that any additional exploration of the deposit should be dependent upon the results of the diamond drilling. Mr. Miron also agreed that all diamond drill holes should be approved by the Government prior to drilling.

A unit cost contract, based on the following estimated costs, is recommended.

ESTIMATED COSTS OF PROJECT
*Maximum allowable

Time - 0 to 3 months

Agreed Unit Costs

Diamond drilling (AX)

Moving in equipment	$ 175.00
1000 feet @ $5.50/ft.*	5,500.00
Driving pipe, 50 feet @ $5.00/ft.*	250.00
Reaming and casing, 100 feet @ $4.50/ft.*	450.00
Cementing, 200 feet @ $4.00/ft.*	800.00
Bulldozing sites, 24 hours @ $12.50/hr.*	300.00
20 core boxes and sample supplies	100.00*
50 tungsten analyses @ $3.00/ea.	150.00*
1 Engineer, 10 days @ $25.00/day	250.00*
Total cost of project	$7,975.00
Government participation - 75%	$5,981.25

Orig. & 3 cys - Wash. ✓
USGS (2)
DMEA
M/D
Engr

Docket

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

1201 N. Division St.
Spokane 2, Washington
March 25, 1954

WSM

Boise Dredging Company
P. O. Box 267
Boise, Idaho

Re: Docket No. DMEA 3209 (tungsten)
Boise Dredging Company
Gray Crown et al. claims
Custer County, Idaho

Gentlemen:

Reference is made to your inquiry dated March 17, 1954 concerning the status of the subject application.

The examining engineer's report has been forwarded to the Washington, D.C. office of DMEA, and no doubt you will soon be informed of the action taken on your application.

Sincerely yours,

Wing G. Agnew
Acting Executive Officer
DMEA Field Team, Region II

cc: DMEA, Wash. (2)
USGS (2)

Docket

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

[illegible]
[illegible] Tower Street
[illegible], Washington

[illegible] 19, 1953

[illegible]
[illegible]
[illegible], Idaho

WSM

Attention: Mr. Jack L. [illegible]

Re: Application for DMA contract

Gentlemen:

Reference is made to your application for a DMA contract to explore a surface property on Little Lake Creek, Custer County, Idaho.

As you know, Mr. John Bowsher, U. S. Bureau of Mines, examined your property for DMA on November [illegible], 1953 accompanied by two officials of your concern. Mr. Bowsher reports that part of the time spent on the property was devoted to taking samples due to inaccessibility with the company officials various ways of further testing the property. The interpretations concerning were necessary because at no place in your DMA application was there a specific description of the proposed work to be done, or of the proposed costs, time necessary to complete the work, etc.

Mr. Bowsher has informed me that he requested the accompanying company officials to supply DMA with a more specific description of the work to be done. We should like to confirm this request and to further request that an description of proposed exploration be supplied with such data as type of work to be done, the estimated costs of the work, time needed to complete the project, necessary all supplied details, etc. In order to further process your application, we must have some of the information requested under items 9 and 10 of the application form.

Your cooperation to these requests will be appreciated.

Cordially yours,

Thor H. Kleinkopf
Acting Director, DMA
Field Div., Region II

cc: DMEA (2)
USBM (2)

FILE COPY
SURNAME:
400

Rutledge
Hamilton
Selfridge
Fitzsimmons

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

NOV 17 1953

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

Re: Docket No. DMEA 3209 - Tungsten
Boise Dredging Company
Gray Crown et al. claims
Little Falls Creek
Custer County, Idaho

Dear Mr. Weissenborn:

Reference is made to the subject docket and your letter of November 10, 1953, which stated that a field examination of the property had been scheduled.

We will, therefore, hold this application in abeyance until the report and recommendations by the Field Team are received. It will be appreciated if the Field Team will obtain from the Applicant a specific description of the proposed project with full details of costs.

Sincerely yours,

George C. Selfridge (GCS)
Chairman, Operating Committee

APPROVED:

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

A. R. Kinkel, Jr. (ARK)
Member, Geological Survey

FARutledge:foc
11-16-53
cc: Docket
Code 400
FT. Reg. II
Operating Comm.
Admr. Reading File
R.W. Geehan, USBM
T. P. Thayer, USGS

R.C.S. 11-17-53

FILE COPY
SURNAME:
400

Rutledge
Martin
Lundell
Hedges
Rutledge
Jackson

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

NOV 17 1953

Boise Dredging Company
P. O. Box 267
Boise, Idaho

Re: Docket No. DMEA 3209 - Tungsten
Gray Crown et al. claims
Little Falls Creek
Custer County, Idaho

Gentlemen:

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

The Regional Office will contact you at an early date with regard to an examination of your property. Any assistance that you can render the members of the Field Team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

FARutledge:foc
11-16-53
cc: Docket
Code 400
FT. Reg. II
R. W. Geehan, USBM
T. P. Thayer, USGS
Admr. Reading File
Operating Committee

R.C.G.
11-18-53

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

BOISE DREDGING COMPANY
Post Office Box 267
Boise, Idaho

November 13, 1953
Subject: DMEA-3209
Re: Exploration Assistance

Gentlemen:

The receipt of your application dated October 27, 1953, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3209 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-3209 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operations Control
and Statistics Division

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

November 13, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number DMEA-3209

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

DMEA - 3209 Boise Dredging Company

ROBERT E. ADAMS

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 13 1953

November 10, 1953

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

Dear Mr. Selfridge:

Enclosed are three copies of an application submitted by the Boise Dredging Company, P. O. Box 267, Boise, Idaho. This application concerns a tungsten property on Little Falls Creek, Custer County, Idaho.

We have at this office some information on the Little Falls tungsten property, but not enough to be used in preparing a DMEA field report on the subject application. Therefore, as the property is at a high altitude and will soon be covered with snow, we have instructed Mr. John Bowsher, U. S. Bureau of Mines, to contact the applicant and arrange an immediate examination. Mr. Bowsher planned to visit the property on November 9, 1953.

A field report by Mr. Bowsher will be forwarded to your office as soon as it is completed.

Sincerely yours,

Thor H. Kiilsgaard
Acting Member, DMEA
Field Team, Region II

Enclosure

cc: USBM (2)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 13 1953

November 10, 1953

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

Dear Mr. Selfridge:

Enclosed are three copies of an application submitted by the Boise Dredging Company, P. O. Box 247, Boise, Idaho. This application concerns a tungsten property on Little Falls Creek, Custer County, Idaho.

We have at this office some information on the Little Falls tungsten property, but not enough to be used in preparing a DMEA field report on the subject application. Therefore, as the property is at a high altitude and will soon be covered with snow, we have instructed Mr. John Bowsher, U. S. Bureau of Mines, to contact the applicant and arrange an immediate examination. Mr. Bowsher planned to visit the property on November 9, 1953.

A field report by Mr. Bowsher will be forwarded to your office as soon as it is completed.

Sincerely yours,

Elmer H. Killegrant
Acting Member, DMEA
Field Team, Region II

Enclosure

cc: USBM (2)

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

NOV 13 1953

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

Not to be filled in by applicant

Docket No. DMEA-3209
Metal or Mineral
Date Received 11-13-53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Boise Dredging Co. - P. O. Box 267 - Boise, Idaho.

(*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 Property held by W. C. Dewey, P. O. Box 308, Nampa, Idaho, under mining claims as follows: Gray Crown - Florence - Cornelia - Janice - Barbara - Berneal - Denver - Boston - all of which are in Alta District of Custer County, Idaho

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

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

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

(*e*) If you own the land, describe any liens or encumbrances on it Do not own land

(*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.

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

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

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

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

16—66551-1

BOISE DREDGING COMPANY
222 BROADWAY AVENUE
BOX 267 BOISE, IDAHO

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

(*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 ..... days and be completed within ..... months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money [X] 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 October 27, 1953

Boise Dredging Co.
(Applicant)

By Mark L. Bailey - Partner

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

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
NOV 13 1953

1. (b) Partnership - office located at Boise, Idaho
   (c) Not applicable
   (d) Paul W. Wise - P. O. Box 267 - Boise, Idaho
   Roy Mires " " " " " "
   Jack L. Bailey " " " " " "

3. (b) Answered under Item 3 (a)
   (d) Lease will be forwarded upon execution.
   (f) Land is unpatented. Book and page numbers of location notices will be forwarded. Recd + attached.

4. (a) Very minor exploration operations have been conducted by others. Mine easily accessible for examination at this time.
   (b) 4 Tons shipped in 1943 averaging 4.5% WO_3
   (c) Do not have any of this information at present, but expect to have same in near future.
   (d) Access road to property is open and nearest shipping and residence point is eleven miles away at Ketchum, Idaho.
   (e) All of these available.

5. (b) Will have maps showing where previous ore was shipped from in next few days.
   (c) Will start work immediately on whatever scale is necessary, and will continue work until completion.
   (d) Will employ experienced personnel.

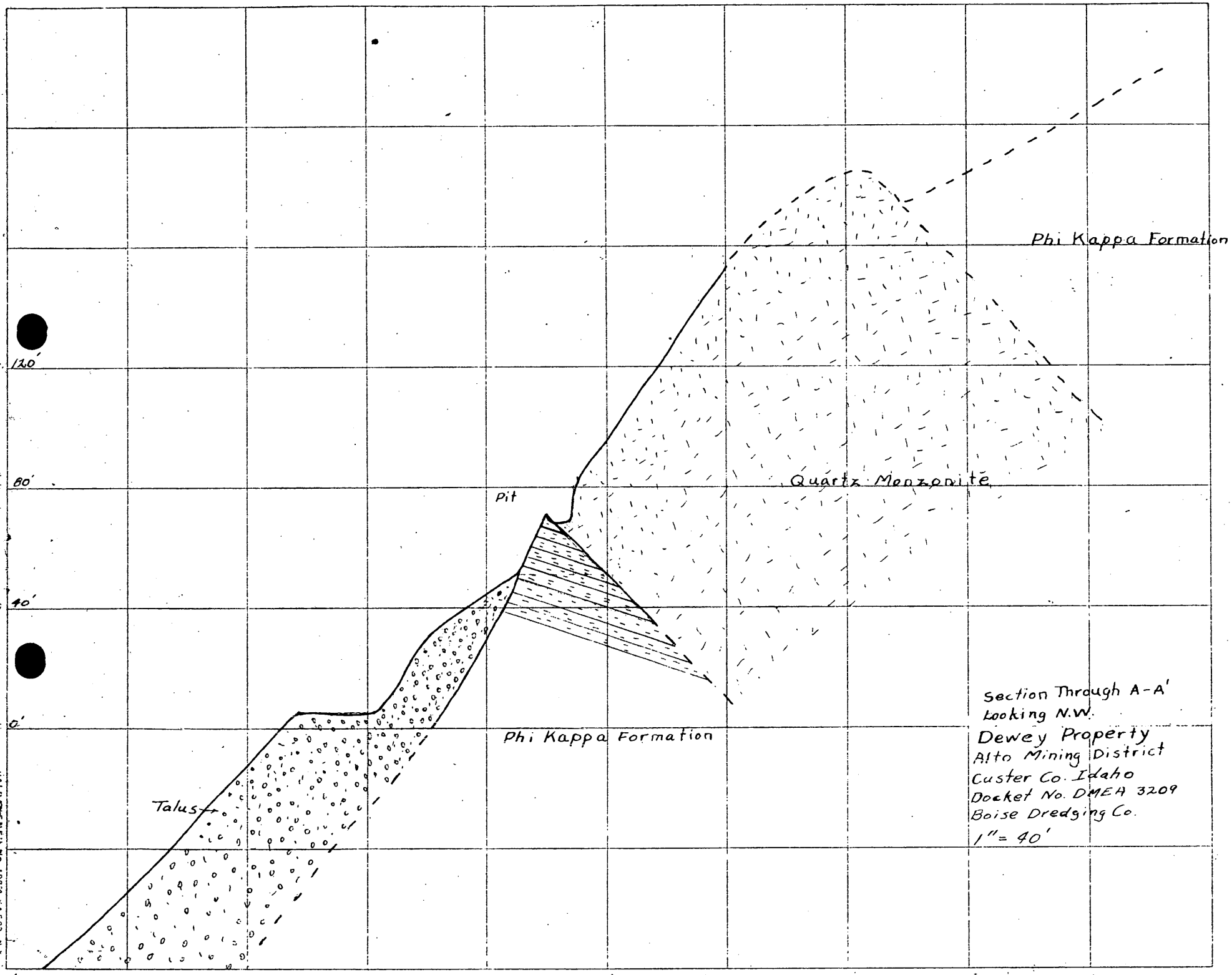
6. (a) None
   (b)
   (c)
   (d) We prefer to have a contract whereby we are paid an amount per foot of
   (e) tunneling or other specific items of work and we to furnish all equipment.
   (f)
   (g)
   (h)

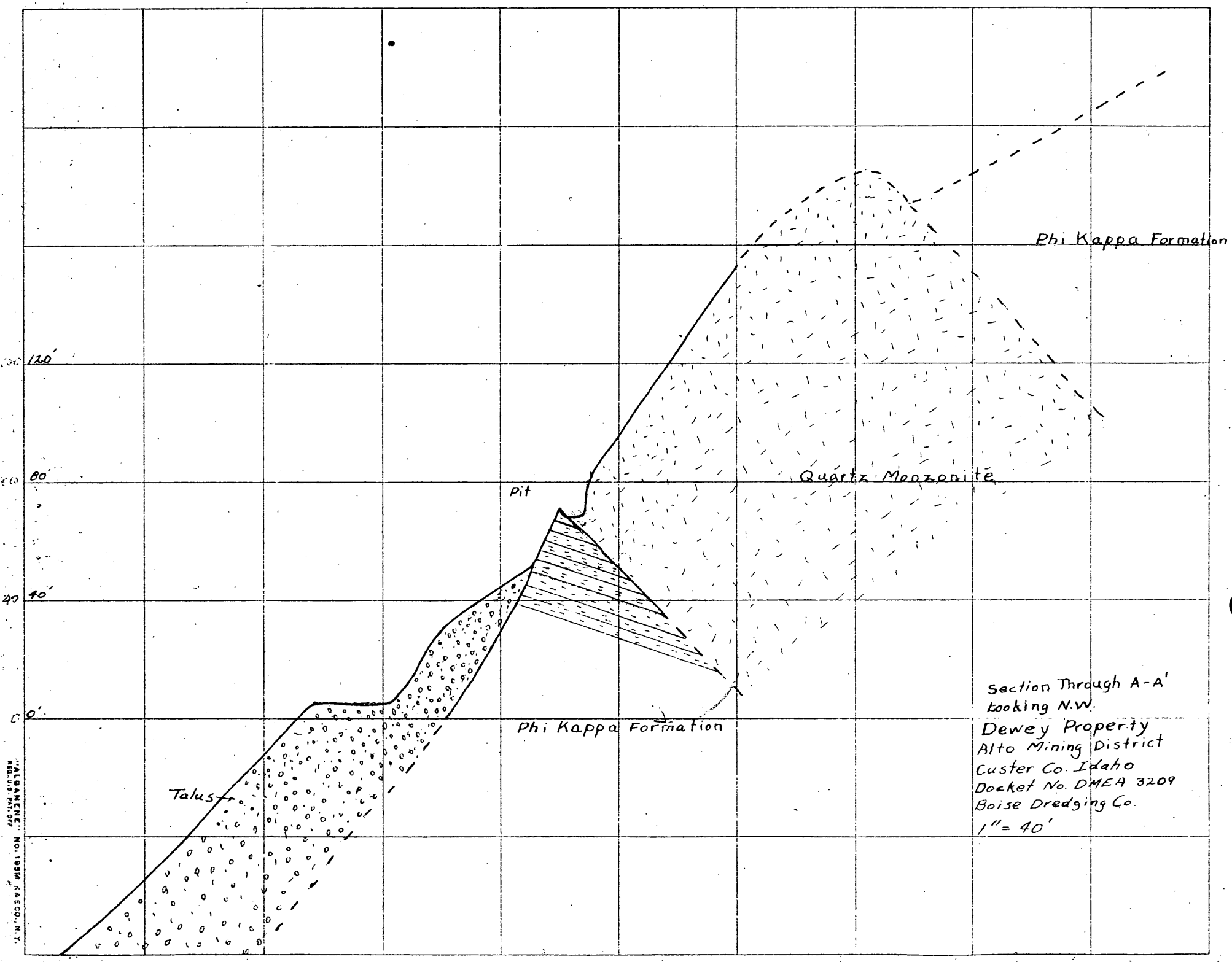
7. (a) Yes

BOISE DREDGING COMPANY
222 BROADWAY AVENUE
BOX 267 BOISE, IDAHO

Gray Crown (Amended)	Book	12	of	Quartz	Locations,	Page	533
Florence (Amended	"	"	"	"	"	"	532
Camelia	"	"	"	"	"	"	595
Janice	"	"	"	"	"	"	594
Barbara	"	"	"	"	"	"	601
Barneal	"	"	"	"	"	"	603
Denver	"	"	"	"	"	"	602
Boston	"	"	"	"	"	"	604

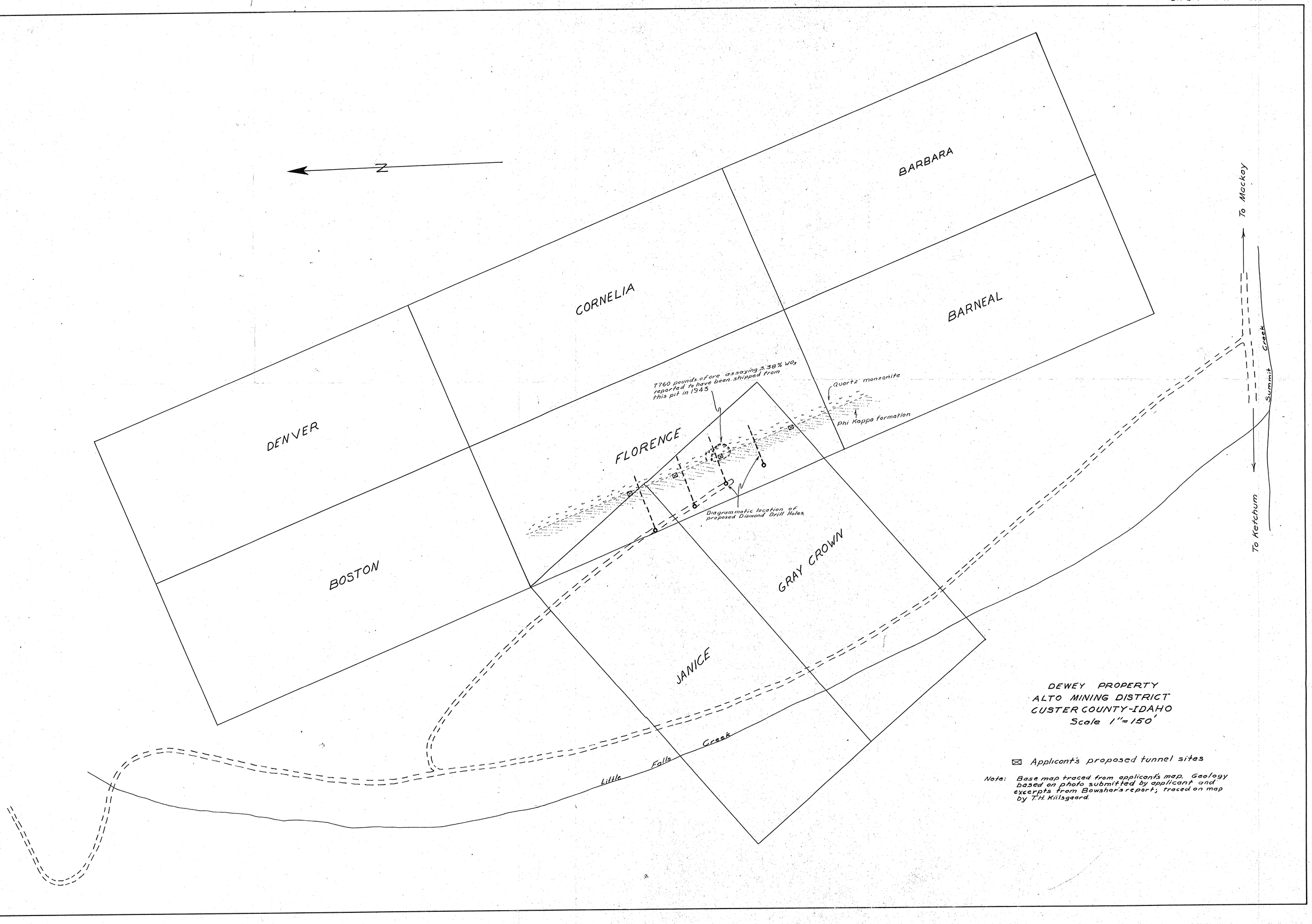
BOISE DREDGING COMPANY
222 BROADWAY AVENUE
BOX 267 BOISE, IDAHO

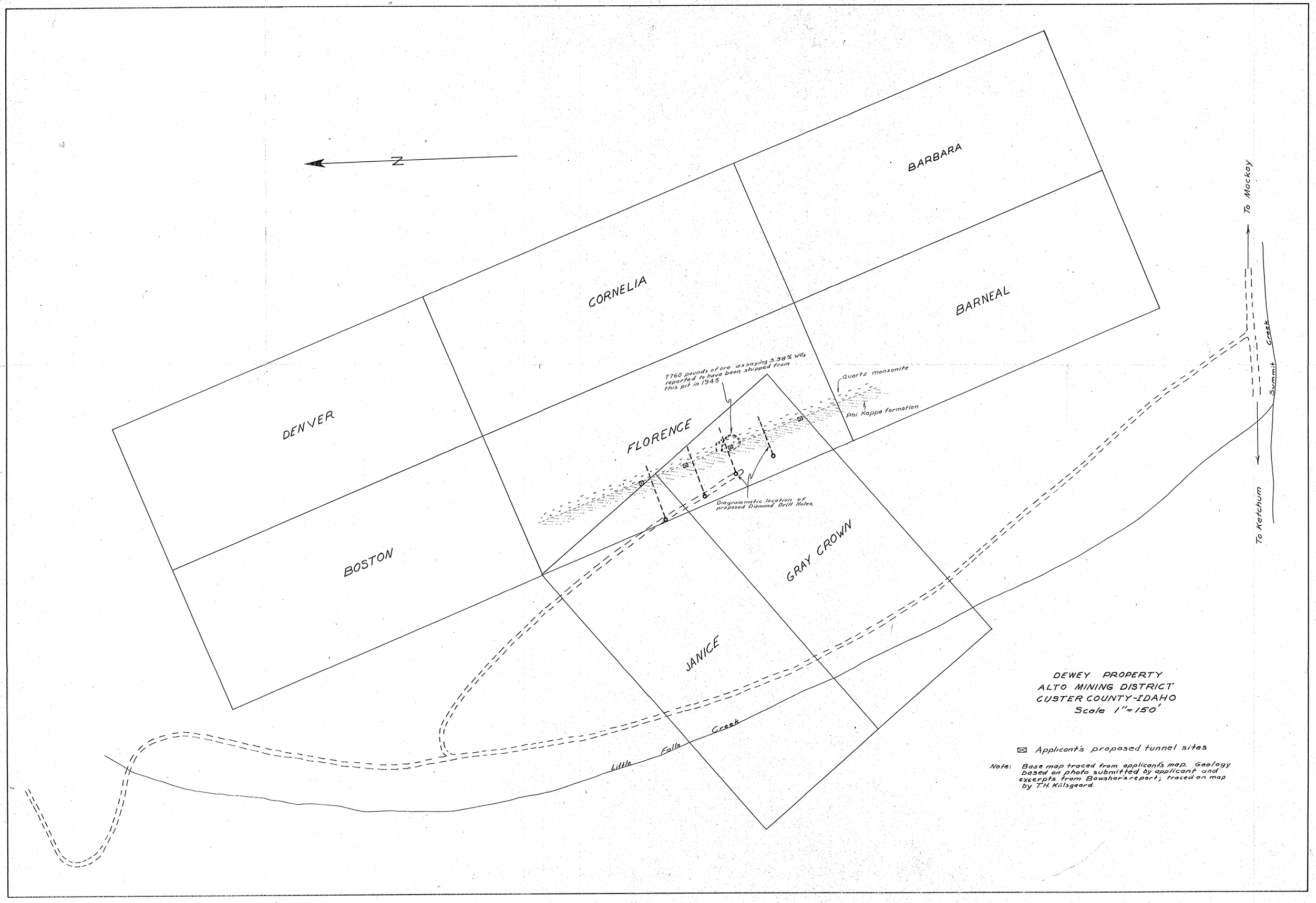

Phi Kappa Formation
120'
80'
40'
0'
Quartz Monzonite
Pit
Phi Kappa Formation
Talus
Section Through A-A'
Looking N.W.
Dewey Property
Alto Mining District
Custer Co. Idaho
Docket No. DMEA 3209
Boise Dredging Co.
1" = 40'



Section Through A-A'
Looking N.W.
Dewey Property
Alto Mining District
Custer Co. Idaho
Docket No. DMEA 3209
Boise Dredging Co.
1" = 40'

"ALBANENE" NO. 1988 AMERICAN CO. N.Y.


N
BARBARA
CORNELIA
BARNEAL
DENVER
FLORENCE
BOSTON
GRAY CROWN
JANICE
7760 pounds of ore assaying 3.38% WO_3 reported to have been shipped from this pit in 1943
Quartz monzonite
Phi Kappa formation
Diagrammatic location of proposed Diamond Drill Holes
To Mackay
To Ketchum
Summit Creek
Little Falls Creek
DEWEY PROPERTY
ALTO MINING DISTRICT
CUSTER COUNTY-IDAHO
Scale 1"=150'
Applicant's proposed tunnel sites
Note: Base map traced from applicant's map. Geology based on photo submitted by applicant and excerpts from Bowsher's report; traced on map by T.H. Kiilsgaard.


N
BARBARA
CORNELIA
BARNEAL
DENVER
FLORENCE
BOSTON
GRAY CROWN
JANICE
7760 pounds of ore assaying 3.38% WO3 reported to have been shipped from this pit in 1943
Quartz monzonite
Phi Kappa formation
Diagrammatic location of proposed Diamond Drill Holes
To Mackay
To Ketchum
Summit Creek
Little Falls Creek
DEWEY PROPERTY
ALTO MINING DISTRICT
CUSTER COUNTY-IDAHO
Scale 1"=150'
Applicant's proposed tunnel sites
Note: Base map traced from applicant's map. Geology based on photo submitted by applicant and excerpts from Bowsher's report; traced on map by T.H. Kiilsgaard.