DMA Form 1

DEFENSE MINERALS ADMINISTRATION
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CONTROLLED DOCUMENT

DMA Docket No. 3271

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Exploration Assistance

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1 set each to USBM, USGS

Routing Slip

To:	700	Date	3/9/54
To:	Open Com	Date	3-17-54
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6/14/54 gla

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

June 3, 1954

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

Re: Docket No. DMEA-3271 (platinum-gold)
Harold R. Hogan
North Star Mine
Broadwater County, Montana

Dear Mr. Selfridge:

Enclosed are four copies of the field examination report on the cited property. The examiner, Mr. R. A. Weeks, Geological Survey, recommends denial of the application on the grounds that assays of ore from the property fail to show the presence of platinum, and that the property is essentially a gold mine. Mr. Weeks also recommends that an adjoining property, the North Star Extension, also owned by the same applicant, be denied a contract if an application is received on this property. Mr. Weeks notes that the vein on the North Star Extension property is so small and the ore pods within the vein so sparse that further exploration does not appear to be warranted.

The Field Team concurs with Mr. Weeks and recommends the cited application be denied.

By Field Team, Region II

King G. Agnew, Acting Executive Officer
U. S. Bureau of Mines

Thor H. Kiilsgaard, Acting Member
U. S. Geological Survey

Enclosure
cc: USBM (2)
Weeks

Reviewed by
DMEA OPERATING COMMITTEE
6-11-54
(date)

Bay 51

OFFICIAL FILE COPY
O. M. E.
RECEIVED DEC 29 1958

DATE	INITIALS	CODE
12/29	C	220
		325

3271

1201 N. Division St.
Spokane 2, Washington

December 16, 1958

Mr. Tom Entwisle
6955 S. W. 92nd
Portland 23, Oregon

Dear Mr. Entwisle:

This is in reply to your letter of December 3, 1958 concerning development of the North Star No. 1 and 2 claims in the Beaver Creek Mining District, Broadwater County, Montana.

These claims were the subject of an application for Government aid in exploration for platinum but since the values consisted primarily of gold and silver, which do not qualify for exploration aid, the application was denied.

We have no other information in our files regarding the claims.

Sincerely yours,

Wing G. Agnew
Acting Exec. Officer
OME Field Team, Region I

cc: OME (2) (Re: Docket No. DMEA-3271)
USGS (2)

7/19/54 vgla

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

July 12, 1954

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

Re: Docket No. DMEA-3271 (Platinum-Gold)
Harold R. Hogan
North Star Mine
Broadwater County, Montana

Dear Mr. Selfridge:

In a memorandum by R. A. Weeks on the subject application dated June 1, 1954, and forwarded under cover of a Field Team letter of June 3, 1954, Mr. Weeks gave the assay results for platinum from specimens from the property submitted to Union Assay Office in Salt Lake City, Utah, and the Bureau of Mines Experiment Station in Reno, Nevada. Mr. Weeks stated that samples were also sent for spectrographic analysis to the Geological Survey, but that the results had not been received at the time of the preparation of the memorandum.

Attached is a copy of the results of the spectrographic analysis performed by the Geological Survey, which confirms the negative results of the two previous analyses. The Field Team has already recommended denial of the application. The attached results confirm this denial.

By Field Team, Region II

A. E. Weissenborn

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

Thomas E. Howard

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

Enclosure
cc: USBM(2)
Weeks

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

[illegible] No. 157 [illegible] Street
[illegible], [illegible]

[illegible] 14, [illegible]

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

Re: Docket No. [illegible]-2271 ([illegible])
[illegible]
[illegible]
[illegible] County, [illegible]

Dear Dr. [illegible]:

In a memorandum by [illegible] on the subject application dated June [illegible], and forwarded under cover of a [illegible] letter of June [illegible], Mr. [illegible] gave the assay results for platinum from specimens from the property submitted to Union Assay Office in [illegible] City, Utah, and the Bureau of Mines Experiment Station in [illegible], Nevada. Mr. [illegible] stated that samples were also sent for spectrographic analysis to the Geological Survey, but that the results had not been received at the time of the preparation of the memorandum.

Attached is a copy of the results of the spectrographic analysis performed by the Geological Survey, which confirms the negative results of the two previous analyses. [illegible] already recommended denial of the application. The attached results confirm this denial.

[illegible], [illegible]

[illegible], [illegible]
U. S. Geological Survey

[illegible]
For: [illegible], [illegible]
[illegible] Bureau of Mines

Enclosure
[illegible]
[illegible]

9-011

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Report No. IDS-84 For A. B. Weissenborn Date June 9, 1954

Requested by R. A. Weeks

Lot No. SIR-1391

Two (2) samples from North Star Mine, Winston District, Broadwater County, Montana.

Lab. No.	Field No.	Description
54-587S	NS #1	Sulphide samples from vein south drift
~~54-588S~~	~~NS #2~~	~~Random dump sample~~

Plates No. II-S,-75 and 78

Lab. No.	Field No.	Pt	Au	Ag	As	Cu	Zn	Sb	Pb
		(in oz per ton)			(in percents)				
54-587S	NS #1	0	1.50	0.18	0	.x	.ox	0	.ox
54-588S	NS #2	0	1.02	3.38	.x	.x-	.x	0	x.-

1) Au and Ag determined by fire assay, D. L. Skinner, analyst.

2) Pt determined by combined fire and spectrographic assay, D. L. Skinner and P. R. Barnett, analyst.

The sensitivity of this combined method is at least lower than 0.02 ounces per ton. As shown above no platinum was detected.

3) As, Cu, Zn, Sb, Pb: determined by semi-quantitative spectrographic method, P. R. Barnett, analyst.

Notation: 0 = looked for but not detected
x = gives decimal place occupied

Theoretical ranges: .x = .21 to .46%
.x- = .1 to .21% (.0x+ = .0464 to .1%)
.ox = .0215 to .0464%, etc.

RECEIVED
JUN 23 1954
U.S. B.M. SEC. WASH.

LBRiley:lmf
copy to: Weissenborn Riley
Weeks Barnett
Naeser Schlecht
Niles

By Analysts: D. L. Skinner, P. R. Barnett

Leonard B. Riley
Denver Coordinator
Geochemistry and Petrology Branch

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

Elks
Hedges
Field
Selfridge
Johnson

JUL 12 1954

Mr. Harold F. Hogan
8 West Fulton
Seattle 99, Washington

Re: Docket No. DMEA-3271 (Platinum-gold)
North Star Mine
Broadwater County, Montana

Dear Mr. Hogan:

Your application for aid for an exploration project and other information available to us in Washington concerning your 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 a small amount of platinum, gold, and silver mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FLKnouse/gla
7-9-54
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. James E. Bell, Rm. 3043
Benjamin Gildersleeve, Rm. 5221
Code 700
F. L. Knouse
DMEA Field Team, Region II (2)

R.C.h.

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

July 9, 1954

SUMMARY OF PROPOSED PROJECT

Docket No. DMEA-3271

Applicant: Harold R. Hogan
8 West Fulton
Seattle 99, Washington

Subject: Denial of application

Commodity: Platinum-gold

Location of property: North Star Mine,
Broadwater County, Montana Region II

Amount of application: $9,020.00

Date of application: January 17, 1954

Outline of project: The Applicant requests assistance to explore the East Pacific vein by crosscutting and drifting from the south drift of the North Star mine.

Field Team report: By Robert A. Weeks, Geologist, USGS, dated June 1, 1954, transmitted by memorandum of Field Team, Region II, dated June 3, 1954.

Assays of ore from the property fail to show the presence of platinum, although the mine contains interesting amounts of gold, but the relatively thin vein will make mining costs rather high. Recommends denial of the application.

Commodity Members' comments:

Bureau of Mines: James E. Bell, dated July 1, 1954

Concurs in view of the Field Team that this property has no possibilities for platinum production, and that the applicatinn should be denied.

Geological Survey: E. L. Newcomb, July 1, 1954.

Recommends that the proposed work be denied.

Rare & Misc. Metals Division Engineer: F. L. Knouse

Denial letter prepared on basis of Field Team report and comments of Commodity Members, USGS and USBM.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

7/7/54 gla

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

Department of the Interior
Defense Minerals Administration
RECEIVED
JUL 7 - 1954

July 1, 1954

Memorandum

To: E. Wm. Ellis, DMEA

Through: H. D. Keiser HDK

From: James E. Bell, Rare and Precious Metals Branch

Subject: Docket No. DMEA-3271 (Platinum), North Star Mine, Broadwater County, Montana

Referring to the Field Team report dated June 1, 1954 on the subject property, I concur with the view of the Team that this property has no possibilities for platinum production, and that the application should be denied.

James E. Bell

James E. Bell

7/1/54 gla

IN REPLY REFER TO:

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

July 1, 1954

Memorandum

Re: DMEA-3271
North Star Mine
Broadwater County, Mont.
$9020
Platinum

To: Mr. E. Wm. Ellis, DMEA

From: E. L. Newcomb, USGS

Subject: Concurrence with field team denial

The field team recommends this application for the North Star mine be denied. They also state that any future application for the North Star Extension property be denied on the basis of their field team examination.

Results of four assays of typical material from the property indicate that platinum is not present in detectable amounts. I recommend the proposed work be denied.

E. L. Newcomb

E. L. Newcomb
Geologist

IN REPLY REFER TO:

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

July 1, 1954

Memorandum

Re: IMEA-3271
North Star Mine
Broadwater County, Mont.
$9020
Platinum

To: Mr. E. Wm. Ellis, IMEA

From: E. L. Newcomb, USGS

Subject: Concurrence with field team denial

The field team recommends this application for the North Star mine be denied. They also state that any future application for the North Star Extension property be denied on the basis of their field team examination.

Results of four assays of typical material from the property indicate that platinum is not present in detectable amounts. I recommend the proposed work be denied.

E. L. Newcomb
Geologist

IN REPLY REFER TO:

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

July 1, 1954

Memorandum

Re: IMFA-3271
North Star Mine
Broadwater County, Mont.
9020
Platinum

To: Mr. E. Wm. Ellis, IMFA

From: E. L. Newcomb, USGS

Subject: Concurrence with field team denial

The field team recommends this application for the North Star mine be denied. They also state that any future application for the North Star Extension property be denied on the basis of their field team examination.

Results of four assays of typical material from the property indicate that platinum is not present in detectable amounts. I recommend the proposed work be denied.

E. L. Newcomb
Geologist

IN REPLY REFER TO:

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

July 1, 1954

Memorandum

Re: DMEA-3271
North Star Mine
Broadwater County, Mont.
9020
Platinum

To: Mr. E. Wm. Ellis, DMEA

From: T. L. Newcomb, USGS

Subject: Concurrence with field team denial

The field team recommends this application for the North Star mine be denied. They also state that any future application for the North Star Extension property be denied on the basis of their field team examination.

Results of four assays of typical material from the property indicate that platinum is not present in detectable amounts. I recommend the proposed work be denied.

T. L. Newcomb
Geologist

6/7/54 gla

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

June 3, 1954

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

Re: Docket No. DMEA-3271 (platinum-gold)
Harold R. Hogan
North Star Mine
Broadwater County, Montana

Dear Mr. Selfridge:

Enclosed are four copies of the field examination report on the cited property. The examiner, Mr. R. A. Weeks, Geological Survey, recommends denial of the application on the grounds that assays of ore from the property fail to show the presence of platinum, and that the property is essentially a gold mine. Mr. Weeks also recommends that an adjoining property, the North Star Extension, also owned by the same applicant, be denied a contract if an application is received on this property. Mr. Weeks notes that the vein on the North Star Extension property is so small and the ore pods within the vein so sparse that further exploration does not appear to be warranted.

The Field Team concurs with Mr. Weeks and recommends the cited application be denied.

By Field Team, Region II

Wing G. Agnew, Acting Executive Officer
U. S. Bureau of Mines

Thor H. Kiilsgaard, Acting Member
U. S. Geological Survey

Enclosure
cc: USBM (2)
Weeks

Reviewed by
DMEA OPERATING COMMITTEE
6-11-54
(date)

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

June 1, 1954

Memorandum

To: DMEA Field Team, Region II

From: Robert A. Weeks, Geologist, U. S. Geological Survey Raw.

Subject: Docket No. DMEA-3271 (platinum and gold), Recommended denial, Harold R. Hogan, North Star Mine, Broadwater County, Montana, and Pre-application examination, North Star Extension (lead-zinc), Broadwater County, Montana.

The subject mine was visited on May 4 with the applicant, Harold R. Hogan. The mine was mapped and sampled.

Country rock in the vicinity of the mine is a series of andesitic tuffs and flows, moderately recrystallized by several intrusive stocks of diorite and quartz monzonite. Heavy tourmaline coatings are present on many joints and other joints are coated with epidote.

The mine consists of an inclined shaft on a vein, with two short drifts and appended stopes as shown on the accompanying map. The vein comprises up to 18 inches of altered andesite with from 2 to 10 inches of quartz, arsenopyrite, pyrite and sparse galena and sphalerite. The altered andesites are sericitic and kaolinitic near the quartz-sulfide stringers and grade outward into bleached argillic rock. Abundant limonite-staining masks most of the vein.

Samples reported by Hogan in his original application contain from 0.4 to 12.97 ounces per ton in gold, from 0.1 to 3.3 ounces per ton silver, up to 1.4 percent lead, and on the three samples tested for platinum, from 0.005 to 0.06 ounces per ton platinum.

Because of the unusual nature of the reported platinum occurrence, we requested samples from the applicant in March in order to verify the presence of platinum. The two samples he furnished and the two samples collected during my visit were assayed by Union Assay Office, Inc., Salt Lake City, and showed the following:

Reviewed by
DMEA OPERATING COMMITTEE
6-11-54
(date)

Sample No.	Au	Ag	Pb	Zn	Cu	Pt	Location
803	1.65	0.2	None	0.1	None	None	South drift
804	3.180	0.6	None	Tr.	None	None	Dump
805	2.000	0.1	None	None	None	None	South drift
806	0.710	0.1	None	None	None	None	Stope in South drift

To further verify the presence or absence of platinum, splits of Sample Nos. 803 and 804 were sent for spectrographic analysis to Geochemistry and Petrology Branch, U. S. Geological Survey, and splits of Sample Nos. 805 and 806 were sent to the Rare and Precious Metals Experiment Station, U. S. Bureau of Mines, Reno, Nevada. As yet, spectrographic results have not been received. The attached letter from J. B. Zadra states that no platinum was found in Sample Nos. 805 and 806.

In view of these results, it appears conclusive that there is either no platinum content or so little platinum that it would not be commercially feasible to recover it. I suspect the assay results reported by Mr. Hogan are in error.

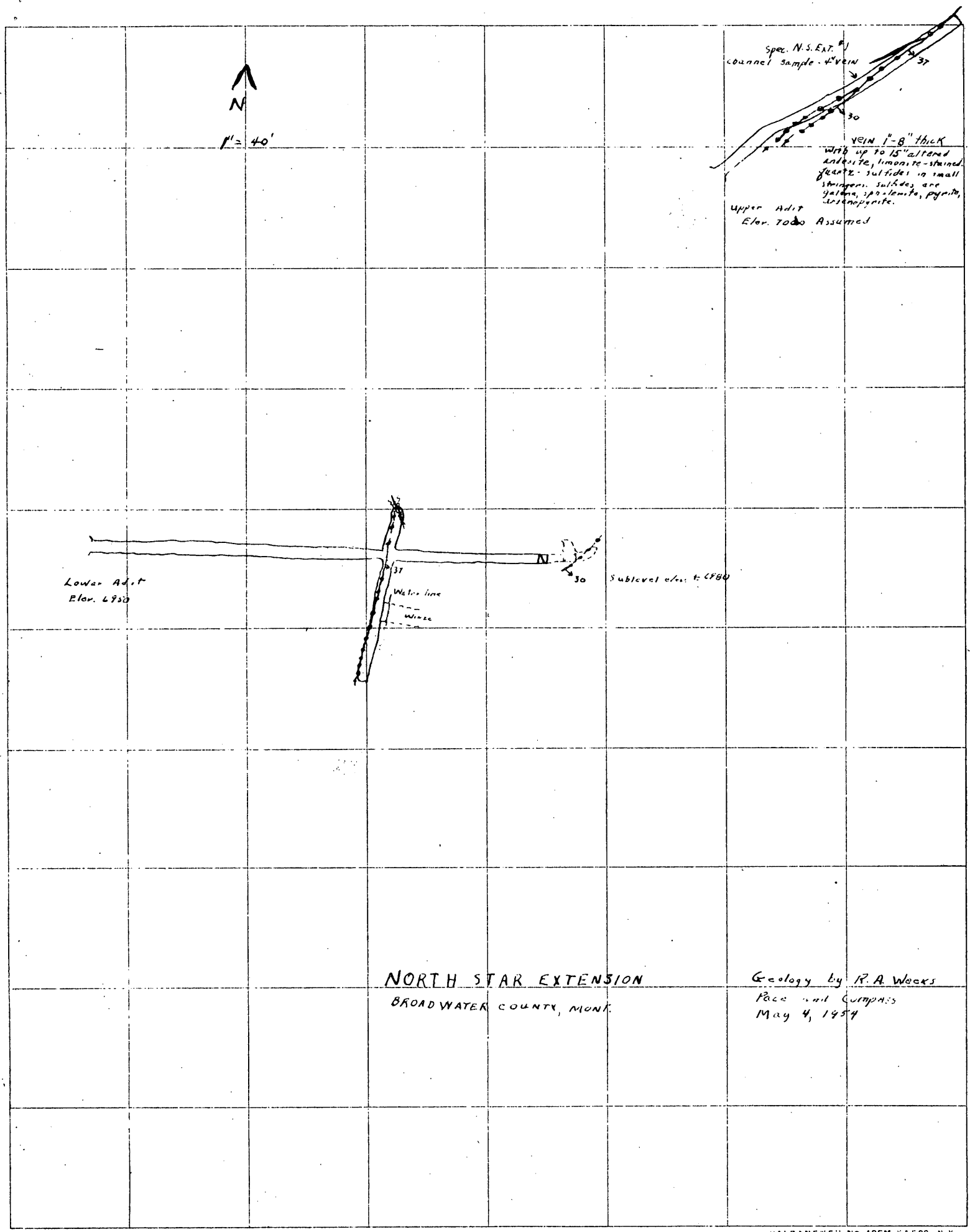
I recommend that the application be denied. The mine contains interesting amounts of gold, but the relatively thin vein will make mining costs rather high.

During the same visit, the applicant's adjoining claim, the North Star Extension, was examined and discussed regarding a possible DMEA lead-zinc exploration program. The workings on the North Star Extension consist of two adits and several pits and caved shafts on one or more veins that are subparallel to the North Star vein. Mineralization in these veins is megascopically similar to the North Star vein, but the ratio of sulfide minerals is different. Galena and sphalerite are locally much more abundant, and arsenopyrite is less abundant. Hogan reported some production of lead-silver ore had been made from these workings, probably in the 1880's or 1890's. The head of one stope, now mostly under water, was seen, and undoubtedly small additional production may be expected. Recent work, probably in the 1940's, has been done by the operators of the East Pacific mine, which lies east of and contiguous to the North Star Extension. I do not believe the vein or veins on the North Star Extension are extensions of the East Pacific veins for those veins were nearly east-west, and dipped nearly vertically. The vein in the upper adit was sampled in one place, and the results of assay showed 0.070 oz. per ton gold, 0.9 oz. per ton silver, 1.2 percent lead, 0.8 percent zinc and no copper.

The ore minerals were observed in lenses and pods, most of which were from zero to 2 inches thick and a few inches to a foot in length. The one stope observed was about 15 feet in length and about 30 inches to 5 feet in stoping width. It was watered, so that total depth is not known, but probably not over a few tens of feet. Where seen, the vein in this stope contained a maximum width of about 8 inches of quartz and sulfides in altered andesite.

In view of the small width of the vein and the sparsity of ore pods in the observed part of the vein, Mr. Hogan should be advised that no exploration program appears feasible at this time.

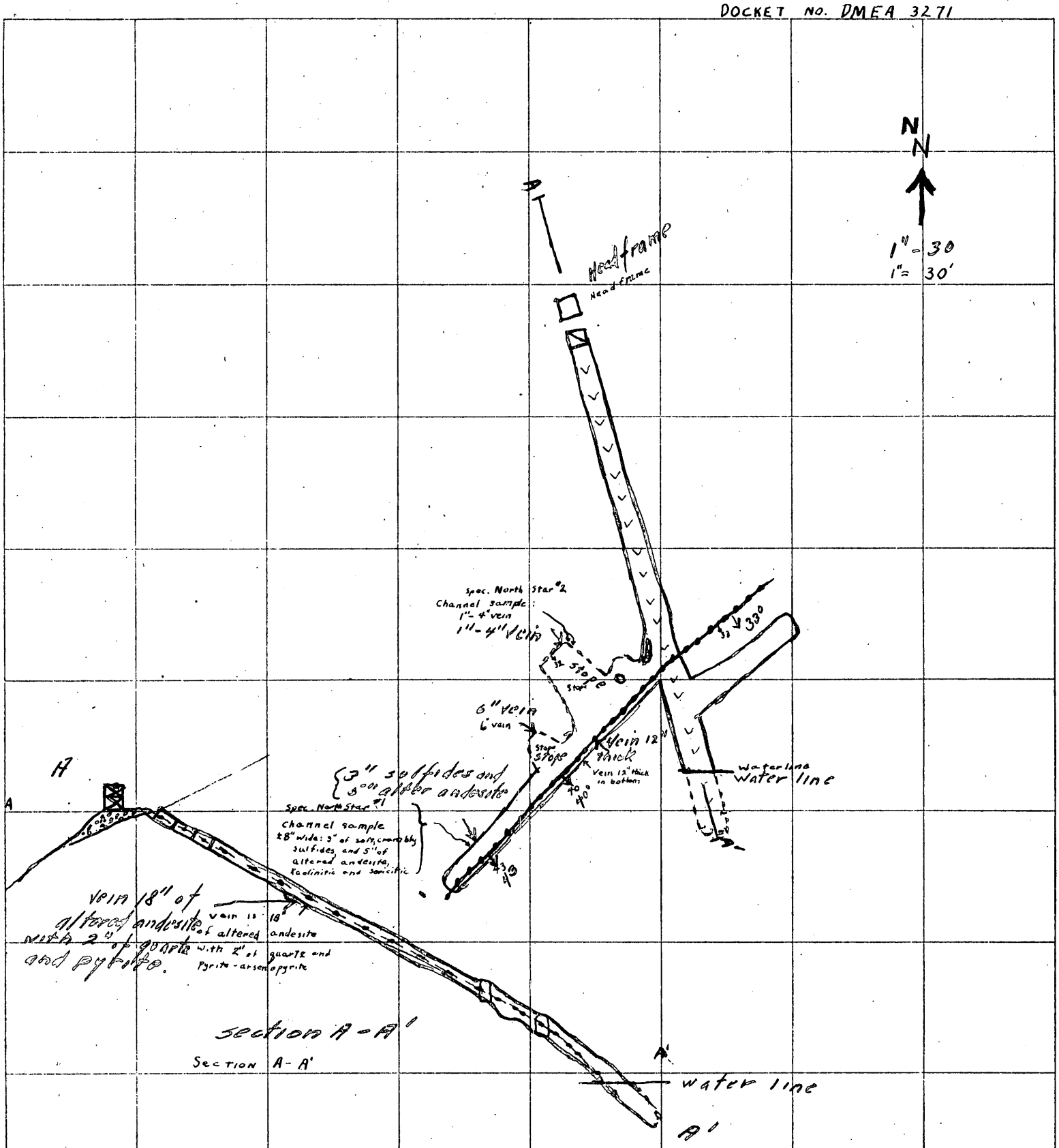
Enclosures 2
Distribution:
DMEA (Orig. & 3)
USBM (2)
USGS (SRO)
Docket
Weeks



"ALBANENE" NO. 195M K&E CO., N.Y.

Docket No DMEA-3271

DOCKET NO. DMEA 3271



North STAR MINE

NORTH STAR MINE

BROADWATER COUNTY MONT.

Bredwater County, Mont.

Geology mapped by R.A. Weeks
MAY 4, 1954
Assisted by Harold Hogan

Geology mapped by R.A. Weeks assisted by Harold Hogan.

"ALBANENE" No. 195M K&E CO., N.Y.
REG. U.S. PAT. OFF.

TELEPHONE 3-3302

Hand Sample Serial 83792-93

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
A. C. SELBY, Vice-Pres. & Treas.
A. C. SELBY, JR., Secretary

Salt Lake City 10, Utah

Mine U.S. Department of Interior - Geological Survey
South 157 Howard Street
Spokane 4, Washington - Robert A. Weeks - Geologist

RESULTS PER TON OF 2000 POUNDS

March 19, 1954

NO.	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent	VALUE GOLD
										Pt Test by fire assay		
803	1.650	0.2	None	None		0.1				None		
804	3.180	0.6	None	None		Trace				None		

Split sent for spec analysis.

Remarks

Charges $ 13.00

4/2/54 gla

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

Defense Minerals Administration
RECEIVED
APR 2 1954

March 25, 1954

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

Re: Docket No. DMEA-3271 (platinum)
Harold Robert Hogan, Ed Pohl, and
Victor H. White
North Star Mine
Beaver Creek Mining District
Broadwater County, Montana

Dear Mr. Selfridge:

This will acknowledge your letter of March 18 regarding the subject application.

We also have been somewhat dubious about the platinum in the ore and before making examination we requested the applicant to furnish us some specimens of the ore. This he recently did and we have just received two assays made by Union Assay Office, Inc. of Salt Lake City. A copy of this assay report is attached. On the basis of these samples the property shows considerable promise as a gold mine, but no promise whatsoever as a producer of platinum; however, as this property is in the area of one of the active Geological Survey projects, and we are interested for scientific reasons in running down the possibility of platinum, even in small amounts, we plan to have one of the Survey geologists from the Boulder batholith project visit the property in the near future and take a few more samples. If, as we anticipate, these do not show commercial amounts of platinum, no further examination will be made.

Sincerely yours,

A. E. Weissenborn

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

Enclosure
cc: USBM (2)
Weeks

3/19/54 gla

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

March 15, 1954

Mr. Harold Hogan
8 West Fulton
Seattle 99, Washington

Re: Docket No. DMEA-3271 (Platinum & Gold)
North Star Mine
Broadwater County, Montana

Dear Mr. Hogan:

Reference is made to your letters of March 9 and 11, the latter of which arrived at this office on the same day as did two samples forwarded from your brother, Art Hogan, Winston, Montana.

We are forwarding the above-mentioned samples this date to a commercial assayer for analysis of gold, silver, lead, zinc, copper, and platinum. Information enclosed with the samples notes that one sample was taken from the dump and the other from the south drift. Although we realize these are selected samples, and may not be representative of the over-all value of mine ore, we shall give you the sample data that we obtain. This data should be of interest from a qualitative standpoint.

We shall examine the property as soon as snow conditions permit. If sample data indicates appreciable quantities of platinum we shall make a detailed examination and will at that time appreciate having someone familiar with the property available to accompany our examiners.

Sincerely yours,

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

cc: Art Hogan
$ January Mine
Winston, Montana

DMEA (2)
USBM (2)
Weeks

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

March 15, 1954

Mr. Harold Hagan
8 West Fulton
Seattle 99, Washington

Re: Docket No. DMEA-3271 (Platinum & Gold)
North Star Mine
Broadwater County, Montana

Dear Mr. Hagan:

Reference is made to your letters of March 9 and 11, the latter of which arrived at this office on the same day as did two samples forwarded from your brother, Art Hagan, Winston, Montana.

We are forwarding the above-mentioned samples this date to a commercial assayer for analysis of gold, silver, lead, zinc, copper, and platinum. Information enclosed with the samples notes that one sample was taken from the dump and the other from the south drift. Although we realize these are selected samples, and may not be representative of the over-all value of mine ore, we shall give you the sample data that we obtain. This data should be of interest from a qualitative standpoint.

We shall examine the property as soon as snow conditions permit. If sample data indicates appreciable quantities of platinum we shall make a detailed examination and will at that time appreciate having someone familiar with the property available to accompany our examiners.

Sincerely yours,

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

cc: Art Hagan
5 January Mine
Winston, Montana

DMEA (2)
USBM (2)
Weeks

700

DOCKET
SURNAME

Knouse

MAR 18 1954

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

Re: Docket No. DMEA-3271 (Platinum)
Harold Robert Hogan, Ed Pohl,
and Victor H. White
North Star Mine
Beaver Creek Mining District
Broadwater County, Montana

Dear Mr. Weissenborn:

This is with reference to your letter of March 4, that transmitted the subject application, in which you state an examination of the property will be scheduled as soon as it is determined that the property is accessible.

The information contained in the application indicates the mineral value is chiefly gold, with minor quantities of platinum. Unless the Applicant can present additional analyses which prove a higher grade of platinum distributed over more area of the deposit, we see no justification for a field examination of this property. If the Applicant cannot supply this additional information the application should be denied.

Please let us have your comments in this matter.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

APPROVED:

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

Philip W. Guild (JHB)
Member, Geological Survey

FLKnouse/foc 3-16-54
cc to: Adm. Reading File
Operating Comm.
Docket
Messrs. James E. Bell, Rm. 1349
A. R. Kinkel, B-242A GSA
F. L. Knouse
Code 700
DMEA Field Team, Region II

3-18-54

3/11/54 gla

IN REPLY REFER TO:

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

March 11, 1954

Memorandum

To: Mr. E. Wm. Ellis

From: E. L. Newcomb

Subject: Review of application

Re: DMEA-3271
North Star Claim
Beaver Creek District
Broadwater County, Mont.
$9,020
Platinum-gold

The applicant requests assistance to explore the East Pacific vein by crosscutting and drifting from the south drift of the North Star mine.

Mineralization in the area is reported to be primarily in quartz veins containing arsenopyrite, gold and very small amounts of platinum. The applicant states that the amount of platinum appears to increase as the gold values increase. However, assay certificates have not been submitted with the application.

The field team plans to make an examination as soon as winter conditions will permit access to the property.

We are returning the application to your office, but will further consider the operator's proposal after we receive a field team examination report.

E. L. Newcomb
E. L. Newcomb
Geologist

IN REPLY REFER TO:

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

March 11, 1954

Memorandum

To: Mr. E. Wm. Ellis

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We are returning the application to your office, but will further consider the operator's proposal after we receive a field team examination report.

E. L. Newcomb
Geologist

3/12/54 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 11 1954

March 10, 1954

Memorandum

To: E. Wm. Ellis, DMEA
Through: M. H. Kline MHK

From: James E. Bell, Rare and Precious Metals Branch

Subject: Docket 3271, Platinum, North Star Mine, Broadwater County, Montana

The data submitted appear to portray a property that merits exploration as a promising gold prospect. The values for platinum cited, however, are too low to ascribe to the property any potentiality as a producer of platinum-group metals in significant amounts. In my opinion, denial of the application is in order.

James E. Bell

James E. Bell

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. 3271
Metal or Mineral Platinum-Gold
Date Received
Estimated Cost $9,020
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: HAROLD ROBERT HOGAN, Partnership; Ed Pohl, 8 West Fulton Seattle, 99, Washington and, 105 Harvard N. Seattle, Wn Victor H. White, 1616 3rd. N. Seattle, Wn.

(*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. (Refer to above, 1(a))

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 North Star, unpatented claim; North Star and North Star No. 1 claims. Beaver Creek Mining District, Broadwater County, Montana--joined on the North-East by the East Pacific patented mining claims, 7 miles South-West of Winston, Montana.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owner-- I own 65% of the mine.

(*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. I am legally owner and manager.

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Recorded at Townsend, Montana-- Book 21, Page 74; Book 21, page 141-142. (Refer to enclosure, page 1 and on)

4. *Physical description.*—(*a*) Describe the actual 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.

5. *The exploration project.*—(*a*) State [redacted] mineral or minerals for which you wish to [redacted]ore Platinum & Gold.

(*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. Refer to sketch enclosure.

(*c*) The work will start within 10 days and be completed within 4-5 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. Refer to outline page 6

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.). page 6-8

(*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)? refer to outline page 8

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

[x] Money [x] Use of equipment owned by you [x] 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 January 17, 1954, 1954

Harold R. Hogan
(Applicant)

By Harold R. Hogan

8 West Fulton,

Seattle, 99, Washington

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

ENCLOSURE

DEPARTMENT OF THE INTERIOR
Bureau of Land Management
RECEIVED
JUN 8 - 1954

APPLICATION FOR GOVERNMENT LOAN

on

THE NORTH STAR MINE
Broadwater County
Montana

4. Physical Description:

(a)--- The North Star vein was opened up 75 to 100 years ago for the purpose of mining the vein for its' gold ore. A camp was established, a wagon road built, and an incline shaft was sunk by hand methods to a depth of approximately 150 feet. The shaft was sunk on the vein, which has about a 30 degree dip. The vein is an arsenical pyrite quartz lead that fills between andesite walls, with an average of two to four feet of ore. The ore is sometimes permeated with an altered andesite. The high grade gold portion of the vein is (as discovered so far) on the hanging wall portion of the vein, and is contained in the quartz which is banded by a small amount of calcite. In the vein, usually next to the quartz, is a foot wide or more of porphyry, (which might be described as an enriched but sometimes bleached andesite).

At 100 feet deep a drift was driven in a south-westerly direction on the vein for about 75 feet. It is in ore all the way. At 125 feet deep a drift was driven on the vein in a north-easterly direction. It is also in ore to the face. There is a small amount of stoping done by the original locators above the South Drift, commencing at the shaft, and involving perhaps 100 tons of ore. /Samples

(b)--- of the vein taken over a foot of width at 'grass roots', which is the portal of the shaft average close to an ounce in gold, and .40 in silver. The gold content of the vein averages (from about 40 samples, taken over widths of a foot to three feet wide) about

1.52 in gold. There are numerous lenses of ore, however, not included in this average that yield 15 ounces. A.U. There are favorable indications of extremely high grade portions of the vein that could be discovered with further exploration. Since the platinum content of the ore seems to be related in ratin to the gold content, the above facts are stated concerning the gold-bearing ore. That is, from the few platinum tests made it seems probably that the higher grade the gold content of the ore is, the higher grade the platinum content is.

The writer and a miner spent the summers of 1952 and 1953 exploring the mine. It was not until a week before closing the mine in September of 1953 that is was decided to submit a specimen of the ore to the Butte chemists, Lewis & Walker, for a test of platinum. The ore is extremely 'free gold', and on panning it many times the writer has observed occasional white specks or flakes of white metal which 'stayed' with the gold. Consequentlya sample was submitted to the chemists from a point about fifty feet south in the bottom of the South Drift. This sample assayed: .40 silver, 1.78 gold, and .06 platinum. This was the first indication the writer had of there being significant quantities of platinum in the mine. In January, 1954, the writer (being in Seattle, and not having access to a more liberal sampling of the mine) submitted two samples of ore which he had on hand from the top of the stope, and some oxidized material from about the 50 foot level of the shaft. No.1 sample, which was from the top of the stope, assayed 1.31gold, .025 platinum. No. 2 sample, taken from a point 50 feet deep in the shaft, assayed .93 gold, .005 in platinum. /These results would seem to indicate that the platinum content greatly increases in direct rationto the richness of the gold content. It is probable that lenses of gold ore

(c)---

assaying 15 ounces in gold would have a proportionate much greater platinum value. However, at the present writing the author does not have on hand high grade samples of the ore, so that this theory cannot be proved until he returns to the mine or without further exploration. It seems apparent, though, from information concerning other platinum gold mines, particularly in the Ural Mountains of Russia, that the gold content of the ore is a dependable ratio by which, by and large, the platinum content of the mine can relatively be determined.

It seems to the writer that there is a somewhat parallel significance in the geological disposition of the platinum ores contained in the gold bearing ores of the Urals and that of the conditions exemplified in the geology of the rock adjacent upon the North Star Mine in Montana. The country rock has variously been described to the author as serpentine, blue diorite, and andesite. The serpentine contains phosphates, magnesium arsenic, celestite, traces of cobalt, chrome and nickel. The country rock has not been tested for platinum. The mine is located in the path of an old glacial flow. Thescheemical composition of the rock is of a similarity to that which is found in other platinum bearing ores that have produced commercial quantities of platinum ores. And the substantial and commercial amounts of gold distributed in the ore strongly increase the merits of working the mine as a platinum-gold producer. The gold present in the ore would make it more commercially feasible to operate, until such time as it is proven by development that a large body of commercial grade platinum ore does exist.

There exists in considering the possibilities of the mine, an important feature that should not be overlooked. The North Star vein is by survey approximately fifty feet from a contact with the

old East Pacific lead-gold vein. This contact could be established by driving or extending the South drift in the North Star shaft to a point about fifty feet in a south-westerly direction. The platinum content of the ore seems to be imporving in this direction, as will be noted by the assay returns. The North Star claims adjoin the East Pacific claims, and the western extension of the East Pacific vein is on the North Star property. The East Pacific produced six to seven million (according to reports), mostly in high grade gold ore. Its platinum contact is unknnwn, and it is now inactive. However, it is the belief of the writer, that at the point of contact of the two veins, (which can be secured by further development) that the gold (and consequently the platinum values of the North Star vein) will be greatly enhanced by the contact. From all reports on the working of the East Pacific vein a contact by the East Pacific vein with iron veins lying in a north-south strata has produced all of the richest gold ores. The writer, therefore, believes that this important contact, which can be achieved by extending the South Drift of the North Star mine, will produce valuable virgin ores of both platinum and gold content.

It is therefore suggested that, by the help of a DMEA Loan, the South Drift can be driven to the point of contact and an additional 50 to 100 feet of drift be driven to explore this contact. Such development would open up a good deal of ore.

It is further suggested that about a week (or six days) of bulldozing should be done in initial exploration work to uncover the two leads on the surface, and other exploration.

The length of the North Star vein is unknown as there has been no surface exploration work to determine its length. However, similiar

veins in this area have been 2000 to 4000 feet long. The East. Pacific vein which adjoins the North Star is perhaps a mile ore more in length.

The overburden on the entire hill on the strike of the North Star vein for 800 feet in length, and over a considerable width, pans free gold. This dirt has not been tested for platinum. But the indications are that it will ablso contain platinum.

The writer has in his possession and on the premises of the property: a 65 H.P. Buda gas engine, 200 feet of 2" pipe, assorted and miscellaneous hand tools, also a Dodge 4 by 4 truck in good condition for transporting men and supplies. During the summers of 1952 and 1953 the writer rented a compressor, jackhammer, and stoper to do exploration work. Work consisted of cleaning out areas where some rock had sluffed, putting in a few stulls, building an A frame to hoist ore out of the shaft, building slides in the shaft, exploring the vein with short cuts into the lead at various points, etc. etc. Also considerable work was done improving the road to the mine by bulldozing.

(d)----- There is a good access truck road directly to the portal of the mine, which is approximately six miles from the town of Winston. Winston is situated on the highway, about 23 miles east of Helena.

(e)--- Water is available from Beaver Creek, about a mile from the mine, there is also a spring six hundred feet below the shaft, where the original locators built their camp some one hundred years ago. There is a railroad through Winston.

Manpower is readily available at Butte, Townsend, and Winston, Montana. Compressors and drilling equipment can be purchased or rented either in Helena or Butte.

5. The Exploration Project:

(a) Platinum and gold.

(b) (Refer to map enclosure)

(c) The work will start within 10 days, and be completed within 4-5 months from the date of an exploration project contract.

(d) The applicant wishes to state the following qualifications with regard to his ablility to carry out this exploration project: As a yound man he assisted his father William D. Hogan, who was a mine owner, and a mining engineer in the central Idaho gold mining district. Work consisted of the operation of a 100 ton mill, exploration of the mine through tunnels, crosscuts, shafts, and raises. Following this was a period of 12 years practical experience in various mines in Idaho, Washington, and Montana, where:

The applicant was employed as a miner at the Ghone Mine in Idaho,

The applicant was employed as a miner in the Morning Mine in the Couer d'Alenes,

The applicant was employed as a miner in the Messenger Mine in the Helena District,

He was employed as a lead man on the grizzly crews in the Howe Sound Mine of the Cascades in Washington,

He was a shaft miner in the Gold King Mine of the Beaver Creek Mining near Helena, Montana,

He was miner at the Vospburg Mine in the same district,

And he was assistant foreman of the January Mine in the same district, now active, where he is part owner.

The applicant also has directed the exploration of the North Star Mine, for which this loan application is intended.

6. Estimation of Costs:

(a) (Independent Contracts) None, except bulldozing contract, at about $10.00 per hours. Estimate total, about 40 hours.

(b) (Labor, Supervision, Consultants)

Miners' wages, (prevailing): approximately $91.00 per week (Six Days)

Supervisiors' wages, (applicant), $110.00 per week, (Full time).

Engineering Consultants (Gov't engineers for exploration work)

(c) & (d) (Operating Materials and Supplies) Estimated prices:
(Operating Equipment) To be rented or purchased, not owned now:

200 to 300 feet of standard air pipe, valves, etc	$85.00
400 to 500 feet of rails, bolts, fishplates, etc	$50.00
Motor Oil	$15.00
Ore Car (used)	$60.00
Drilling Equipment (Maintenance)	$50.00
Assaying	$50.00
Accounting Service	$75.00
Miscellaneous Tools	$100.00
Truck Maintenance	$100.00
Tool Shed	$200.00
Bulldozing	$400.00
Drifter and Steel	$400.00
Workmens, Employers, Compensation	$500.00
Gas	$500.00
Contingencies	$250.00
Compressor, four months	$700.00
Dynamite Caps & Fuses	$275.00
Hoist and Cable	$450.00
Wages for 2 Miners for 4 months	$2950.00
Applicants Wages for Supervisory, 4 months	$1800.00
TOTAL	$9020.00

Time involved, approximately four months, including:
1 month of preparation (clearing drift, shaft) 3 months driving shaft.

(d) (cont.) My Equipment, and the purchase price, or value:

200 feet of 2.5" air pipe.....$ 50.00

Shovels, picks, saws, drill steel, misc. tools...$300.00

Buda Gas Motor.....$410.00

Dodge 4 by 4 Truck.....$1000.00

$1760.00

(e) (Rehabilitation and Repairs) None.

(f) One tool Shed with space for utility..... $200.00

(g) (Miscellaneous)

Truck Maintenance for 4 months (approx)..... $100.00

Drilling Equipment Maintenance (approx).....$ 50.00

Assaying (approx).....$ 50.00

Accounting.....$ 75.00

Workmens Compensation.....

Employers Liability Insurance.....$500.00

Payroll Taxes.....

(h) Emergencies.....$250.00

7. (a) Yes

(b) I will furnish my share of the costs in the following manner:

Hoist & Cable.....$450.00
Compressor Rental, 1 month.....$175.00
Gas for Truck and Compressor....$125.00
Truck & Equip, Timbers, & Hauling..$331.00
Wages for three miners & including applicant.....$1192.00

My Total Expenditures.....$2272.00

The Total Cost of the Project will be.....$9020.00

My Share Will be (used in above manner).....$2272.50

Government DMEA Loan will be.....$6747.50

The applicant will work with two miners cleaning out shaft and South Drift, replacing old timbers, and laying track in South Drift. This will be preparatory to expending South Drift.

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

March 4, 1954

Mr. Harold Robert Hogan
8 West Fulton
Seattle, Washington

Re: Application for DMEA loan

Dear Mr. Hogan:

This is to inform you that your application for assistance in exploring your North Star mine in Broadwater County, Montana, has been forwarded to Washington, D. C., for their consideration. We will schedule an examination of your property as soon as we determine if the mine is accessible.

Enclosed are the original assay returns and map submitted with your application and which you requested be returned to you. We have retained copies of these instruments for our files and have forwarded copies to Washington.

Sincerely yours,

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

Enclosures

cc: DMEA (2)
USBM (2)
Weeks

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

March 4, 1954

Mr. Harold Robert Hogan
8 West Fulton
Seattle, Washington

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Sincerely yours,

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

Enclosures

cc: DMEA (2)
UEBM (2)
Weeks

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

March 1, 1954

Mr. Art Hogan
c/o Jannary Mine
Winston, Montana

Re: Application for DMEA loan
The North Star Mine
Broadwater County, Montana

Dear Mr. Hogan:

We have received an application from Mr. Harold R. Hogan for a DMEA contract at the North Star mine and have been informed that you can advise about road conditions, etc. We would appreciate hearing from you whether the mine is now accessible. Also, before we schedule an examination, we would like to obtain a sample or two from the shaft and south drift so that we can have them assayed for platinum before making an examination. This will help us determine the number of samples that we should take during the examination that we will make of the property. Would you be able to obtain these samples for us?

Sincerely yours,

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

cc: Harold R. Hogan
8 West Fulton
Seattle 99, Washington

USBM (2)
DMEA (2)
Weeks

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

March 1, 1954

Mr. Art Hogan
c/o January Mine
Winston, Montana

Re: Application for DMEA loan
The North Star Mine
Broadwater County, Montana

Dear Mr. Hogan:

We have received an application from Mr. Harold R. Hogan for a DMEA contract at the North Star mine and have been informed that you can advise about road conditions, etc. We would appreciate hearing from you whether the mine is now accessible. Also, before we schedule an examination, we would like to obtain a sample or two from the shaft and south drift so that we can have them assayed for platinum before making an examination. This will help us determine the number of samples that we should take during the examination that we will make of the property. Would you be able to obtain these samples for us?

Sincerely yours,

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

cc: Harold R. Hogan
8 West Fulton
Seattle 99, Washington

USBM (2)
DMEA (2)
Weeks

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

March 9, 1954
Subject: DMEA-3271
Re: Exploration Assistance
North Star

Mr. Harold R. Hogan, et al.
8 West Fulton
Seattle 99, Washington

Dear Sirs:

The receipt of your application dated January 17, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3271 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-3271 in any future correspondence relating to your application.

Sincerely yours,

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

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

March 9, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

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

DMEA - 3271 Harold R. Hogan, et al.

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

March 4, 1954

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

Re: Application for DMEA loan
North Star Mine
Broadwater County, Montana

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application submitted by Harold R. Hogan and Ed Pohl, a partnership, for the exploration of a platinum and gold property in Broadwater County, Montana. One copy of the application has been retained for the files of this office.

An examination of the property will be scheduled as soon as soon as it is determined if the property is now accessible.

Sincerely yours,

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

Enclosure

cc: USBM (2)
Weeks

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

March 4, 1954

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

Re: Application for DMEA loan
North Star Mine
Broadwater County, Montana

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application submitted by Harold R. Hogan and Ed Fohl, a partnership, for the exploration of a platinum and gold property in Broadwater County, Montana. One copy of the application has been retained for the files of this office.

An examination of the property will be scheduled as soon as soon as it is determined if the property is now accessible.

Sincerely yours,

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

Enclosure

cc: USBM (2)
Weeks

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. 3271
Metal or Mineral Platinum
Date Received
Estimated Cost $9,020
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: HAROLD ROBERT HOGAN, Partnership; Ed Pohl,
8 West Fulton 105 Harvard N. Seattle, Wn
Seattle, 99, Washington and, Victor H. White,
1616 3rd. N. Seattle, Wn.

(*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. (Refer to above, 1(a))

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 North Star, unpatented claim; North Star and North Star No. I claims. Beaver Creek Mining District, Broadwater County, Montana--joined on the North-East by the East Pacific patented mining claims, 7 miles South-West of Winston, Montana.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owner -- I own 65% of the mine.

(*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. I am legally owner and manager.

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Recorded at Townsend, Montana-- Book 21, Page 74; Book 21, page 141-142. (Refer to enclosure, page 1 and on)

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.

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

(*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. Refer to sketch enclosure.

(*c*) The work will start within 10 days and be completed within 4-5 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. Refer to outline page 6

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, page 6-8 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? refer to outline page 8

[X] Money [X] Use of equipment owned by you [X] 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 January 17, 1954, 1954

Harold R Hogan
(Applicant)

By Harold R. Hogan

6 West Fulton,

Seattle, 99, Washington

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

ENCLOSURE

APPLICATION FOR GOVERNMENT LOAN

on

THE NORTH STAR MINE
Broadwater County
Montana

4. Physical Description:

(a) The North Star vein was opened up 75 to 100 years ago for the purpose of mining the vein for its' gold ore. A camp was established, a wagon road built, and an incline shaft was sunk by hand methods to a depth of approximately 150 feet. The shaft was sunk on the vein, which has about a 30 degree dip. The vein is an arsenical pyrite quartz lead that fills between andesite walls, with an average of two to four feet of ore. The ore is sometimes permeated with an altered andesite. The high grade gold portion of the vein is (as discovered so far) on the hanging wall portion of the vein, and is contained in the quartz which is banded by a small amount of calcite. In the vein, usually next to the quartz, is a foot wide or more of porphyry, (which might be described as an enriched but sometimes bleached andesite).

At 100 feet deep a drift was driven in a south-westerly direction on the vein for about 75 feet. It is in ore all the way. At 125 feet deep a drift was driven on the vein in a north-easterly direction. It is also in ore to the face. There is a small amount of stoping done by the original locators above the South Drift, commencing at the shaft, and involving perhaps 100 tons of ore. Samples

(b) of the vein taken over a foot of width at 'grass roots', which is the portal of the shaft average close to an ounce in gold, and .40 in silver. The gold content of the vein averages (from about 40 samples, taken over widths of a foot to three feet wide) about

1.52 in gold. There are numerous lenses of ore, however, not included in this average that yield 15 ounces. A.U. There are favorable indications of extremely high grade portions of the vein that could be discovered with further exploration. Since the platinum content of the ore seems to be related in ratio to the gold content, the above facts are stated concerning the gold-bearing ore. That is, from the few platinum tests made it seems probably that the higher grade the gold content of the ore is, the higher grade the platinum content is.

The writer and a miner spent the summers of 1952 and 1953 exploring the mine. It was not until a week before closing the mine in September of 1953 that is was decided to submit a specimen of the ore to the Butte chemists, Lewis & Walker, for a test of platinum. The ore is extremely 'free gold', and on panning it many times the writer has observed occasional white specks or flakes of white metal which 'stayed' with the gold. Consequentlya sample was submitted to the chemists from a point about fifty feet south in the bottom of the South Drift. This sample assayed: .40 silver, 1.78 gold, and .06 platinum. This was the first indication the writer had of there being significant quantities of platinum in the mine. In January, 1954, the writer (being in Seattle, and not having access to a more liberal sampling of the mine) submitted two samples of ore which he had on hand from the top of the stope, and some oxidized material from about the 50 foot level of the shaft. No. 1 sample, which was from the top of the stope, assayed 1.31gold, .025 platinum. No. 2 sample, taken from a point 50 feet deep in the shaft, assayed .93 gold, .005 in platinum. (c) These results would seem to indicate that the platinum content greatly increases in direct rationto the richness of the gold content. It is probable that lenses of gold ore

assaying 15 ounces in gold would have a proportionate much greater platinum value. However, at the present writing the author does not have on hand high grade samples of the ore, so that this theory cannot be proved until he returns to the mine or without further exploration. It seems apparent, though, from informationconcerning other platinum gold mines, particularly in the Ural Mountains of Russia, that the gold content of the ore is a dependable ratio by which, by and large, the platinum content of the mine can relatively be determined.

It seems to the writer that there is a somewhat parallel significance in the geological disposition of the platinum ores contained in the gold bearing ores of the Urals and that of the conditions exemplified in the geology of the rock adjacent upon the North Star Mine in Montana. The country rock has variously been described to the author as serpentine, blue diorite, and andesite. The serpentine contains phosphates, magnesium, arsenic, celestite, traces of cobalt, chrome and nickel. The country rock has not been tested for platinum. The mine is located in the path of an old glacial flow. The chemical composition of the rock is of a similarity to that which is found in other platinum bearing ores that have produced commercial quantities of platinum ores. And the substantial and commercial amounts of gold distributed in the ore strangly increase the merits of working the mine as a platinum gold producer. The gold present in the ore would make it more commercially feasible to operate, until such time as it is proven by development that there a large body of commercial grade platinum ore does exist.

There exists in considering the possibilities of the mine, an important feature that should not be overlooked. The North Star vein is by survey approzimately fifty feet from a contact with the

old East Pacific lead-gold vein. This contact could be established by driving or extending the South drift in the North Star shaft to a point about fifty feet in a south-westerly direction. The platinum content of the ore seems to be imporving in this direction, as will be noted by the assay returns. The North Star claims adjoin the East Pacific claims, and the western extension of the East Pacific vein is on the North Star property. The East Pacific produced six to seven million (according to reports), mostly in high grade gold ore. Its platinum content is unknown, and it is now inactive. However, it is the belief of the writer, that at the point of contact of the two veins, (which can be secured by further development) that the gold (and consequently the platinum values of the North Star vein) will be greatly enhanced by the contact. From all reports on the working of the East Pacific vein a contact by the East Pacific vein with iron veins lying in a north-south strata has produced all of the richest gold ores. The writer, therefore, believes that this important contact, which can be achieved by extending the South Drift of the North Star mine, will produce valuable virgin ores of both platinum and gold content.

It is therefore suggested that, by the help of a DMEA Loan, the South Drift can be driven to the point of contact and an additional 50 to 100 feet of drift be driven to explore this contact. Such development would open up a good deal of ore.

It is further suggested that about a week (or six days) of bulldozing should be done in initial exploration work to uncover the two leads on the surface, and other exploration.

The length of the North Star vein is unknown as there has been no surface exploration work to determine its length. However, similiar

veins in this area have been 2000 to 4000 feet long. The East. Pacific vein which adjoins the North Star is perhaps a mile ore more in length.

The overburden on the entire hill on the strike of the North Star vein for 800 feet in length, and over a considerable width, pans free gold. This dirt has not been tested for platinum. But the indications are that it will ablso contain platinum.

The writer has in his possession and on the premises of the property: a 65 H.P. Buda gas engine, 200 feet of 2" pipe, assorted and miscellaneous hand tools, also a Dodge 4 by 4 truck in good condition for transporting men and supplies. During the summers of 1952 and 1953 the writer rented a compressor, jackhammer, and stoper to do exploration work. Work consisted of cleaning out areas where some rock had sluffed, putting in a few stulls, building an A frame to hoist ore out of the shaft, building slides in the shaft, exploring the vein with short cuts into the lead at various points, etc. etc. Also considerable work was done improving the road to the mine by bulldozing.

(d)--- There is a good access truck road directly to the portal of the mine, which is approximately six miles from the town of Winston. Winston is situated on the highway, about 23 miles east of Helena.

(e)---Water is available from Beaver Creek, about a mile from the mine, there is also a spring six hundred feet below the shaft, where the original locators built their camp some one hundred years ago. There is a railroad through Winston.

Manpower is readily available at Butte, Townsend, and Winston, Montana. Compressors and drilling equipment can be purchased or rented either in Helena or Butte.

5. The Exploration Project:

(a) Platinum and gold.

(b) (Refer to map enclosure)

(c) The work will start within 10 days, and be completed within 4-5 months from the date of an exploration project contract.

(d) The applicant wishesto state the following qualifications with regard to his ablility to carry out this exploration project: As a yound man he assisted his father William D. Hogan, who was a mine owner, and a mining engineer in the central Idaho gold mining district. Work consisted of the operation of a 100 ton mill, exploration of the mine through tunnels, crosscits, shafts, and raises. Following this was a period of 12 years practical experience in various mines in Idaho, Washington, and Montana, where:

The applicant was employed as a miner at the Ghone Mine in Idaho,

The applicant was employed as a miner in the Morning Mine in the Couer d'Alenes,

The applicant was employed as a miner in the Messenger Mine in the Helena District,

He was employed as a lead man on the grizzly crews in the Howe Sound Mine of the Cascades in Washington,

He was a shaft miner in the Gold King Mine of the Beaver Creek Mining near Helena, Montana,

He was miner at the Vospburg Mine is the same district,

And he was assistant foreman of the January Mine in the same district, now active, where he is part owner.

The applicant also has directed the exploration of the North Star Mine, for which this loan application is intended.

6. Estimation of Costs:

(a) (Independent Contracts) None, except bulldozing contract, at about $10.00 per hours. Estimate total, about 40 hours.

(b) (Labor, Supervision, Consultants)

Miners' wages, (prevailing): approximately $91.00 per week (Six Days)

Supervisiors' wages, (applicant), $110.00 per week, (Full time).

Engineering Consultants (Gov't engineers for exploration work)

(c) & (d) (Operating Materials and Supplies) Estimated prices:
(Operating Equipment) To be rented or purchased, not owned now:

200 to 300 feet of standard air pipe, valves, etc.....	$85.00
400 to 500 feet of rails, bolts, fishplates, etc.....	$50.00
Motor Oil.....	$15.00
Ore Car(used).....	$60.00
Drilling Equipment (Maintenance).....	$50.00
Assaying.....	$50.00
Accounting Service.....	$75.00
Miscellaneous Tools.....	$100.00
Truck Maintenance.....	$100.00
Tool Shed.....	$200.00
Bulldozing.....	$400.00
Drifter and Steel.....	$400.00
Workmens, Employers, Compensation.....	$500.00
Gas.....	$500.00
Contingencies.....	$250.00
Compressor, four months.....	$700.00
Dynamite Caps & Fuses.....	$275.00
Hoist and Cable.....	$450.00
Wages for 2 Miners for 4 months.....	$2960.00
Applicants Wages for Supervisory, 4 months.....	$1800.00
TOTAL.....	$9020.00

Time involved, approximately four months, including:
1 month of preparation (clearing drift, shaft) 3 months driving shaft.

(d) (cont.) My Equipment, and the purchase price, or value:

200 feet of 2.5" air pipe	$ 50.00
Shovels, picks, saws, drill steel, misc. tools	$300.00
Buda Gas Motor	$410.00
Dodge 4 by 4 Truck	$1000.00
	$1760.00

(e) (Rehabilitation and Repairs) None.

(f) One tool Shed with space for utility..... $200.00

(g) (Miscellaneous)

Truck Maintenance for 4 months (approx)	$100.00
Drilling Equipment Maintenance (approx)	$ 50.00
Assaying (approx)	$ 50.00
Accounting	$ 75.00
Workmens Compensation	
Employers Liability Insurance	$500.00
Payroll Taxes	

(h) Emergencies.....$250.00

7. (a) Yes

(b) I will furnish my share of the costs in the following manner:

Hoist & Cable	$450.00
Compressor Rental, 1 month	$175.00
Gas for Truck and Compressor	$125.00
Truck & Equip, Timbers, & Hauling	$331.00
Wages for three miners & including applicant	$1192.00
My Total Expenditures	$2272.00

The Total Cost of the Project will be	$9020.00
My Share Will be (used in above manner)	$2272.50
Government DMEA Loan will be	$6747.50

The applicant will work with two miners cleaning out shaft and South Drift, replacing old timbers, and laying track in South Drift. This will be preparatory to extending South Drift.

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

Please Return

TEL. 628
P. O. BOX 537

NORTH STAR

Date OCT 7 - 1952

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: H. Hogan | Winston

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
I		2.00	0.2							70.18
II		2.76	0.4							96.76
		I	NORTH		WALL					
		II	SOUTH		STOPE		BACK			
		Not assayed for platinum								

Gold not deducted:.....

Charges $ 3.00

Copy - ~~Tot Pltd~~ [illegible]

GOODALL BROS.,

By A. V. Trent

NPCo. B-8912—Form 1

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

Please Return

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

NORTH-STAR

Date [illegible]

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: c/o ~~Homestake~~ Mine H. Hogan

MARKS: Winston, Montana

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
		12.97	1.2							[illegible]
				South Slope						
				Not assayed for Platinum						

Gold not deducted:.....

Charges $ 1.50

[redacted] H. Hogan
[redacted] Seattle

GOODALL BROS.

By A. V. Trent

NPCo. B-8912—Form 1

A. V. THENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

Please Return

TEL. 628
P. O. BOX 537

NORTH STAR

Date SEP 8 - 1972

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: [redacted] Harold Negaas Harvey Hotel MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
		7.24	0.4							7.28
		Not assayed for platinum								
		SENT WITH OUR 2 lot chips								

GOODALL BROS.

By G. Grant

Gold not deducted:

Charges $ No

NPCo. B-8912—Form 1

T. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

Please Return

TEL. 625
P. O. BOX 537

North Star Mines

Date Oct 14

UMPIRE ASSAY

CONTROL ASSAY

HAND SAMPLE

ASSAYED FOR Harold Hogan

Winston

MARKS

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
		1.18	0.2							19.68
2		0.90	0.2						31.68	19.68
3		0.50	0.1							19.68
	Sampling on shaft									
	Not assayed for platinum									

Gold not deducted:

Charges $ 1.50

GOODALL BROS.

By T. V. Trent

NPCO B8912—Form 1

[redacted] Platinum & Gold

JOHN S. ROACH

Phone 2-8131

LEWIS & WALKER

ASSAYERS AND CHEMISTS

SHIPPERS' REPRESENTATIVES

Drawer 1980

108 North Wyoming Street
BUTTE, MONTANA

Please return to Harold Hogan 8 West Fulton Seattle, Wn.

c/o Mr. Arthur Hogan for Harold Hogan North Star

Date Sept. 1, 1953

Your Sample Assayed as Follows:

North Star	OZS. PER TON		OZS. PER TON		VALUE PER TON AT $35 PER OZ.		%		%		%		%		%		%	
Jackpot Mine	SILVER		GOLD		GOLD $	CTS.	COPPER		Lead				SILICA		IRON		MANGANESE	
#1-	0.40		1.78						1.40		Oz Platinum per ton-0.06							
#2-	0.90		3.30				Not assayed for platinum											

Charges $

Respectfully Submitted

Lewis & Walker

J.A.R.

Platinum & Gold

JOHN S. ROACH

Phone 2-8131

LEWIS & WALKER

ASSAYERS AND CHEMISTS

SHIPPERS' REPRESENTATIVES

Drawer 1980

108 North Wyoming Street
BUTTE, MONTANA

Please return to Harold Hogan 8 West Fulton Seattle, 99, Wash.

Date Feb 1, 1954

Mr. Harold M. Hogan

Your Sample Assayed as Follows:

	OZS. PER TON Platinum ~~SILVER~~	OZS. PER TON GOLD	VALUE PER TON AT $35 PER OZ. GOLD $ Cts.	% COPPER	% LEAD	% ZINC	% SILICA	% IRON	% MANGANESE	%
North Star #1-	0.025	1.31								
" " #2-	0.005	0.93								

Charges $13.00

Respectfully Submitted

Lewis & Walker
JMP

N. DIVISION STREET
SPOKANE 2, WASHINGTON

OFFICIAL BUSINESS

SPOKANE WA 9 PM 1964

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

DMEA-3271

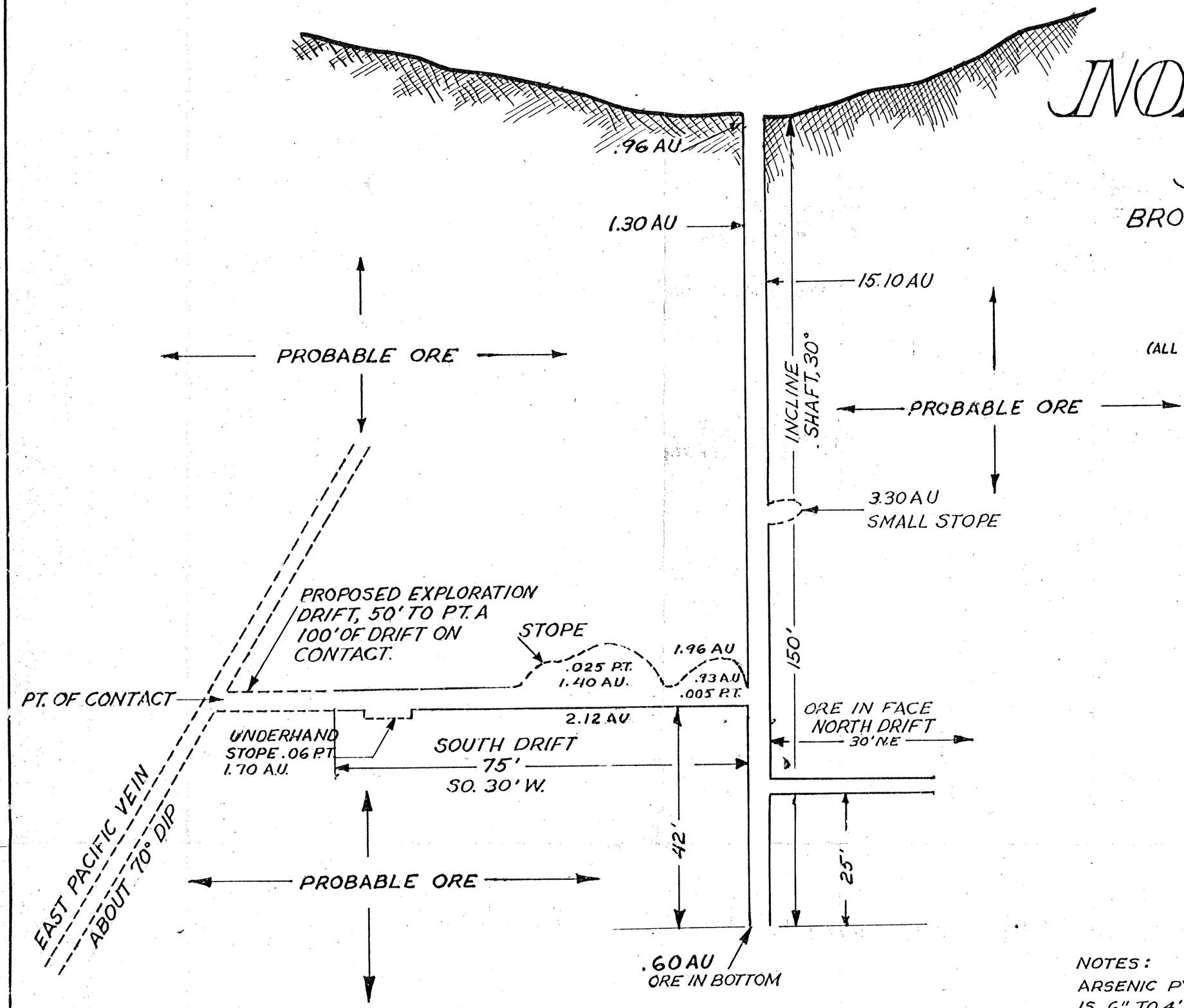
NORTH STAR MINE

BROADWATER COUNTY, MONT.

HAROLD HOGAN, OPERATOR

SCALE, 1/16" = 1'

(ALL MEASUREMENTS ARE APPROXIMATE)



NOTES:
ARSENIC PYRITE QUARTZ VEIN IS 6" TO 4' WIDE, WALLS ARE ALTERED ANDESITE.

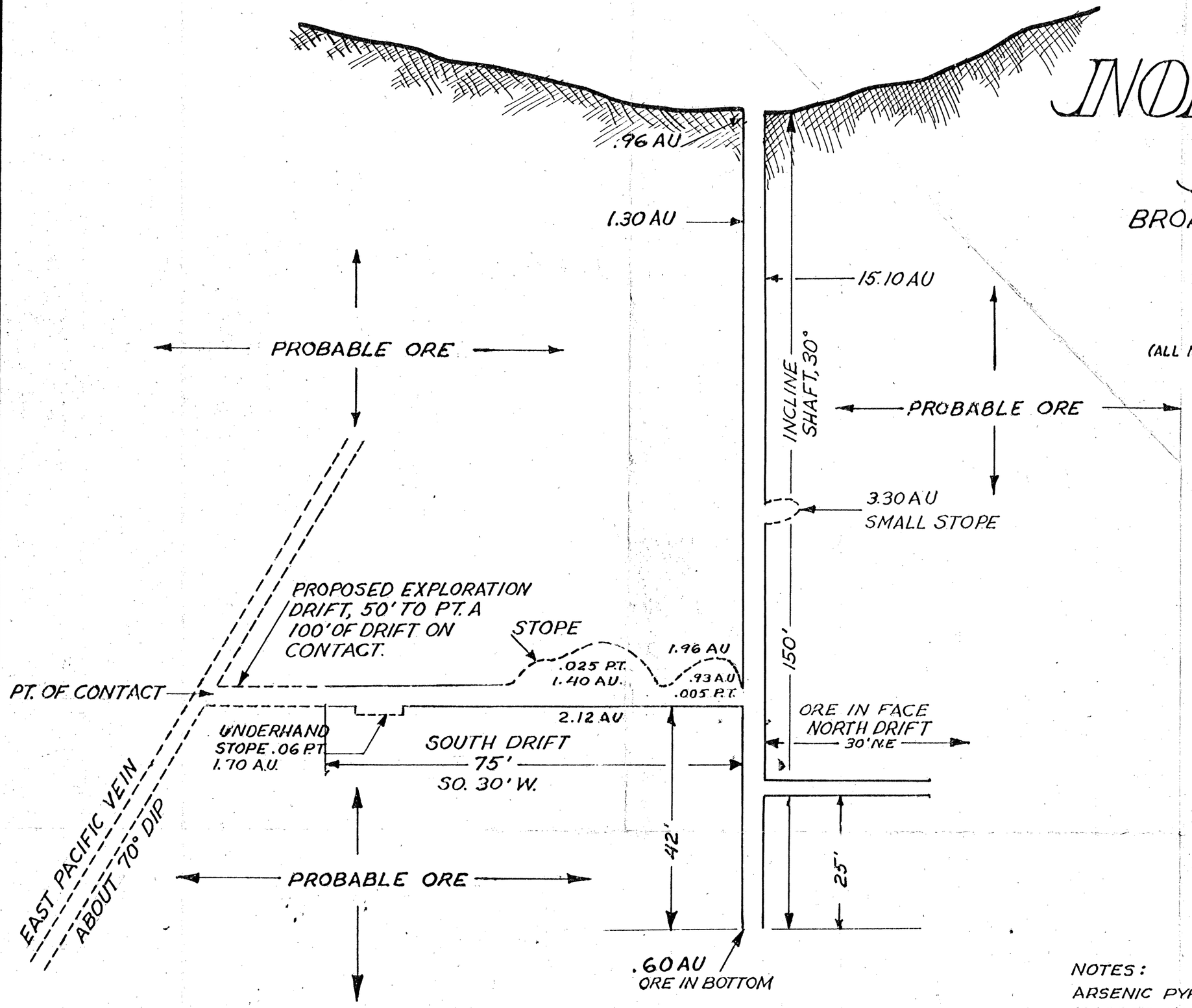
NORTH STAR MINE

BROADWATER COUNTY, MONT.

HAROLD HOGAN, OPERATOR

SCALE, 1/16" = 1'

(ALL MEASUREMENTS ARE APPROXIMATE)



NOTES:

ARSENIC PYRITE QUARTZ VEIN IS 6" TO 4' WIDE, WALLS ARE ALTERED ANDESITE.