UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

[redacted]
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
MAR 19 1956

March 14, 1956

Mr. Glenn W. Bedley
Northwest Mining Company
P. O. Box 1309
Medford, Oregon

WSM

Re: Docket No. DMEA-4011 (Tungsten)
Lucky Strike-Planet Prospect
Jackson County, Oregon

Dear Mr. Bedley:

Reference is made to your letter of February 29. The Field Team report was mailed to Washington early in February so you should be hearing from them within a short time; it usually takes about six weeks.

Sincerely yours,

Verne G. Frykland, Jr.
for: Wing G. Agnew
Acting Executive Officer, DMEA
Field Team, Region I, NW Dist.

cc: DMEA (2)
USBM (2)

Denied preferred
3/8/56 see 4012
Approved 3/1

400

1956

Northwest Mining Company
P. O. Box 1309
Medford, Oregon

Re: Docket No. DMEA-4011, Tungsten
Lucky Strike Prospect and
Blue Star Prospect
Jackson County, Oregon

Gentlemen:

Your application for aid for an exploration project and other data available to us in Washington relative to the above-referenced property have been carefully 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 our information indicates that, although tungsten mineralization occurs on the property, the probability of disclosing significant tungsten ore reserves is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied. Such denial, however, is made without prejudice to the property. In the event further work on your part discloses new and more favorable evidence of ore deposition thereon, we shall be pleased to consider a new application, amply supported by geological mapping, sampling, and assaying.

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

Sincerely yours,

[illegible]

Administrator

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
T. Kiilsgaard, USGS
R. W. Holliday, USBM
FT, Reg. I-NW

SPHolt/ls
3/8/56

March 8, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in unstated amount
Docket No. DMEA 4011 - Tungsten
Northwest Mining Company
Lucky Strike Prospect and
Blue Star Prospect
Jackson County, Oregon

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

(1) The applicant, Northwest Mining Company, a partnership comprising Glenn W. Badley, Charles R. Jackson, Ivan W. Lanham, and William D. Rhea, P. O. Box 1309, Medford, Oregon, requested exploration assistance in an unstated amount for trenching, tunneling, and shaft sinking on the Lucky Strike and Blue Star Prospects.

(2) The applicants are the owners of:

The SW. ¼ of the SW. ¼, sec. 13, and the SE. ¼ of the SE. ¼, sec. 14, T. 37 S., R. 4 W., W. M. M., and the following unpatented lode mining claims:

Lucky Strike Nos. 1, 2, and 3,
Planet Nos. 1, 2, 3, and 4,

located in sections 13 and 14, T. 17 S., R. 4 W., W. W. M., about 3½ miles southeast of the village of Rogue River along U. S. Highway 99, thence about 6 miles south along a graded country road, in Jackson County, Oregon.

(3) The proposed program is to explore the property by stripping, tunneling, shaft sinking and test-pitting on the Lucky Strike and Blue Star prospects.

(4) In the area of the Lucky Strike and Blue Star prospects scattered tungsten mineralization occurs in lime-silicate and altered volcanic rocks, in or near contact zones with plutonic igneous rocks. At several points tungsten minerals occur in

concentrations of ore grade material, but excavation of over 2,000 feet of bulldozer trenches, several test pits, and a large open cut from which nearly 4,400 tons of material was mined and milled, probably at a loss, disclosed no significant reserves of tungsten ore.

(5) The Field Team concludes that no target zone or area where mineralization is sufficiently concentrated to justify DMEA participation is at present de-limited in the Lucky Star-Planet (Blue Star) property; that even if such a zone were de-limited, it has not been demonstrated that ore bodies within the zone are of commercial grade and size; and therefore recommends denial of the application. The Commodity Divisions of the Bureau of Mines and the Geological Survey concur in this recommendation.

The Field Team adds to its conclusions that the regional setting and known geological details of the property are favorable to the occurrence of tungsten deposits and that it is more than just a possibility that additional work on the property may eventually yield sufficient information to justify participation by the DMEA in its exploration.

(6) If the applicant by further prospecting discloses more favorable indications for ore, a new application for exploration assistance should be considered.

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

SPHolt/ls
3/8/56

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File

407

IN REPLY REFER TO:

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

RECEIVED
MAR - 2 1956

March 1, 1956

Re: DMEA 4011
Northwest Mining Co.
Lucky Strike-Planet property
Jackson County, Oregon
Tungsten

Memorandum

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

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

Subject: Review of Field Team report.

The applicant requested Government participation in an undefined work program, looking to the exploration of a tactite zone in which are numerous occurrences of scheelite.

The applicant had done considerable work prospecting the zone and had opened a shovel pit from which 3,300 tons of material assaying 0.038% WO_3 had been taken and milled. The relatively large-scale mining had affected the dilution of ore grade material.

The ore shipped is presumed by the examiners to have come from a tabular, flat-lying body of ore-grade material 85 feet long, 3 feet thick and 24 feet wide containing 535 tons. The scheelite occurred in an altered volcanic and lime-silicate inclusion in the hornblende diorite. Apparently the places, in the pit, sampled give little hint as to the existence of possible sizable extensions of the ore-grade material. Instead the small mass appears to have been practically mined out and no similar body can be inferred to exist at the other spots where tungsten-bearing material occurs.

The examiners conclude that no place offers a definite target for exploratory work and recommend that the application be denied, but say, " . . . the regional setting and known geological details of the property are favorable to the occurrence of tungsten deposits and it is within the realm of more than just a possibility that additional work on the property may eventually yield sufficient information to justify participation of the DMEA program in its exploration."

The conclusions of the examiners are well taken. I concur with the recommendation that the application be denied.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-3/1/56

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. Holliday, 3513

400

February 21, 1956

Copy [illegible] 400

Memorandum

To: Chief, Iron & Ferroalloys Division-DMEA
Through: Acting Chief,
Branch of Ferrous Metals & Ferroalloys

From: Commodity Specialist-Tungsten

Subject: Review of Field Examination Report - DMEA 4011

The field examination report indicates that the applicants mined and milled more than 4,000 tons of "tungsten bearing material" with a total recovery of 45 short ton units.

The application contains no definite objective but appears to be more nearly a proposal to prospect.

The Cordero Mining Company, which is still interested in the tungsten industry, leased the property for a short time in 1951, but did not retain its lease.

I concur with the recommendation of the field team that the application be denied.

R. W. Holliday

400

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

So. 157 Howard Street
Spokane 4, Washington

RECEIVED
DEC 27 1955

December 21, 1955

Mr. Glenn W. Badley
Northwest Mining Company
Post Office Box 1309
Medford, Oregon

Re: Docket No. DMEA-4011 (Tungsten)
Lucky Strike & Blue Star Prospect
Jackson County, Oregon

Dear Mr. Badley:

Thank you for your letter of December 16. We hope to have a geologist visit your property shortly after the first of the year, as Mr. Kellum told you when he talked with you over the phone December 19. We will contact you to arrange a definite date, and to find out if the property is accessible.

Sincerely yours,

Verne C. Fryklund, Jr.
for: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

cc: DMEA (2)
USBM (2)
Kellum

Copy retained 400

400

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

November 21, 1955

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

Re: Docket No. DMEA-4011 (scheelite-tungsten)
Northwest Mining Company, A Partnership
Lucky Strike & Blue Star Prospect
Jackson County, Oregon

Dear Mr. Selfridge:

Examination of the property had been scheduled for November 9, 10 and 11, 1955. Mr. Alvord and Mr. Kellum, however, started the examination of the Oreco Gas and Oil (Jordon mine - Docket No. DMEA-4050) property on November 8 and just returned to Spokane November 21 without visiting other properties. The Jordon mine examination was much more time consuming than anticipated and the general storm that struck this area prolonged the examination.

Unfortunately the Northwest Mining Company examination could not be made and a reschedule will not be made until the mercury report is completed.

Sincerely yours,

Verne C. Fryklund, Jr.
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

cc: USBM (2)
Kellum
Alvord

RECEIVED
NOV 23 1955

OCT 31 1955

Mr. A. K. Weissenborn, Executive Officer
DMEA Field Team - Region X Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 4011 - Tungsten
Northwest Mining Company
Lucky Strike Prospect and Nine
Star Prospect
Jackson County, Oregon

Dear Mr. Weissenborn:

Reference is made to the subject docket and to your letter of October 3, 1955, which states that a field examination of the Lucky Strike and Nine Star Prospects will be scheduled within two or three weeks.

We will, therefore, hold this application in abeyance until the report and recommendations of the Field Team are received.

Copies of memoranda dated October 12 and October 26, 1955, by M. K. Nelson, Geological Survey and R. W. Halliday, Bureau of Mines, respectively, relating to the project, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosure

APPROVED:

/s/ Robert W. Gechen

Member, Bureau of Mines

W. P. Williams

Member, Geological Survey

ADMcMahon/foc 10/28/55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. I - NW Dist.
Messrs. Halliday, USBM
Kiilsgaard, USGS

400

OCT 31 1955

Northwest Mining Company
P. O. Box 1389
Medford, Oregon

Re: Docket No. DMEA 4011 - Tungsten
Lucky Strike Prospect and Blue
Star Prospect
Jackson County, Oregon

Gentlemen:

The above docketed application for exploration assistance 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 I - Northwest District, South 157 Howard Street, Spokane 4, Washington for a field examination of the property.

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

Sincerely yours,

Frank E. Johnson

Acting Administrator

ABMcMahon/foc
10-27-55
cc to: Docket
Code 400
Admr. Read. File
Operating Comm.
FT. Reg. I - NW DIST.
Messrs. Holliday, USBM
Killsgaard, USGS

COPY COPY

FILE COPY
Surname: 400

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

October 26, 1955

MEMORANDUM

To: Chief, Iron and Ferroalloys Division - DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys

From: Commodity Specialist

Subject: Docket No. DMEA 4011 - Tungsten
Northwest Mining Company
Blue Star and Lucky Strike prospects
Jackson County, Oregon
Application for exploration assistance

It is recommended that a referral to the field team be made.

/s/ R. W. Holliday

R. W. Holliday

Copy to: Ferrous Metals
Division of Minerals
Files

IN REPLY REFER TO:

400

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

RECEIVED
OCT 13 1955

October 12, 1955

Re: DMEA 4011
Northwest Mining Co.
Blue Star and Lucky Strike prospects
Jackson Co., Oregon
Tungsten

Memorandum

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

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

Subject: Review of application.

No work program is outlined in the application and no estimate made of the probable cost.

Apparently a long contact (tactite) zone crosses the two groups of claims. Within the zone scheelite has been found but in what amounts we are not informed. An open pit 75 feet deep, 30 feet wide and 100 feet long has been dug but we are not told if it is a rock cut.

The excerpt from the Preliminary Report on Tungsten in Oregon makes no mention of sampling and not an assay is given.

In the circumstances a field examination is needed and a report which will translate some of the general terms into "feet % WO_3".

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-10/12/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. Holliday, 3513

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

RECEIVED
MAR 19 1956

March 14, 1956

Mr. Glenn W. Badley
Northwest Mining Company
P. O. Box 1309
Medford, Oregon

Re: Docket No. DMEA-4011 (Tungsten)
Lucky Strike-Planet Prospect
Jackson County, Oregon

Dear Mr. Badley:

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Sincerely yours,

Verne C. Frykland, Jr.
for: Wing G. Agnew
Acting Executive Officer, DMEA
Field Team, Region I, NW Dist.

cc: DMEA (2)
USBM (2)

DOCKET

400

Holt
Martin
Kiilsgaard
Gehan
Selfridge
Johnson

MAR 1956

Northwest Mining Company
P. O. Box 1309
Medford, Oregon

Re: Docket No. DMEA-4011, Tungsten
Lucky Strike Prospect and
Blue Star Prospect
Jackson County, Oregon

Gentlemen:

Your application for aid for an exploration project and other data available to us in Washington relative to the above-referenced property have been carefully 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 our information indicates that, although tungsten mineralization occurs on the property, the probability of disclosing significant tungsten ore reserves is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied. Such denial, however, is made without prejudice to the property. In the event further work on your part discloses new and more favorable evidence of ore deposition thereon, we shall be pleased to consider a new application, amply supported by geological mapping, sampling, and assaying.

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

Sincerely yours,

R. D. Mattenden

Administrator

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
T. Kiilsgaard, USGS
R. W. Holliday, USBM
FT, Reg. I-NW

SPHolt/ls
3/8/56

R.G.K.

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

March 8, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in unstated amount
Docket No. DMEA 4011 - Tungsten
Northwest Mining Company
Lucky Strike Prospect and
Blue Star Prospect
Jackson County, Oregon

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

(1) The applicant, Northwest Mining Company, a partnership comprising Glenn W. Badley, Charles R. Jackson, Ivan W. Lanham, and William D. Rhea, P. O. Box 1309, Medford, Oregon, requested exploration assistance in an unstated amount for trenching, tunneling, and shaft sinking on the Lucky Strike and Blue Star Prospects.

(2) The applicants are the owners of:

The SW. $\frac{1}{4}$ of the SW. $\frac{1}{4}$, sec. 13, and the SE. $\frac{1}{4}$ of the SE. $\frac{1}{4}$, sec. 14, T. 37 S., R. 4 W., W. M. M., and the following unpatented lode mining claims:

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Planet Nos. 1, 2, 3, and 4,

located in sections 13 and 14, T. 17 S., R. 4 W., W. W. M., about $3\frac{1}{2}$ miles southeast of the village of Rogue River along U. S. Highway 99, thence about 6 miles south along a graded country road, in Jackson County, Oregon.

(3) The proposed program is to explore the property by stripping, tunneling, shaft sinking and test-pitting on the Lucky Strike and Blue Star prospects.

(4) In the area of the Lucky Strike and Blue Star prospects scattered tungsten mineralization occurs in lime-silicate and altered volcanic rocks, in or near contact zones with plutonic igneous rocks. At several points tungsten minerals occur in

concentrations of ore grade material, but excavation of over 2,000 feet of bulldozer trenches, several test pits, and a large open cut from which nearly 4,400 tons of material was mined and milled, probably at a loss, disclosed no significant reserves of tungsten ore.

(5) The Field Team concludes that no target zone or area where mineralization is sufficiently concentrated to justify DMEA participation is at present de-limited in the Lucky Star-Planet (Blue Star) property; that even if such a zone were de-limited, it has not been demonstrated that ore bodies within the zone are of commercial grade and size; and therefore recommends denial of the application. The Commodity Divisions of the Bureau of Mines and the Geological Survey concur in this recommendation.

The Field Team adds to its conclusions that the regional setting and known geological details of the property are favorable to the occurrence of tungsten deposits and that it is more than just a possibility that additional work on the property may eventually yield sufficient information to justify participation by the DMEA in its exploration.

(6) If the applicant by further prospecting discloses more favorable indications for ore, a new application for exploration assistance should be considered.

W S Martin

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

Docket
Holt
Martin

March 8, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in unstated amount
Docket No. DMEA 4011 - Tungsten
Northwest Mining Company
Lucky Strike Prospect and
Blue Star Prospect
Jackson County, Oregon

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

SPHolt/ls
3/8/56

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File

Docket

IN REPLY REFER TO:

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

RECEIVED
MAR - 2 1956

Copy retained 400

March 1, 1956

Re: DMEA 4011
Northwest Mining Co.
Lucky Strike-Planet property
Jackson County, Oregon
Tungsten

Memorandum

W34

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

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

Subject: Review of Field Team report.

The applicant requested Government participation in an undefined work program, looking to the exploration of a tactite zone in which are numerous occurrences of scheelite.

The applicant had done considerable work prospecting the zone and had opened a shovel pit from which 3,300 tons of material assaying 0.038% WO_3 had been taken and milled. The relatively large-scale mining had effected the dilution of ore grade material.

The ore shipped is presumed by the examiners to have come from a tabular, flat-lying body of ore-grade material 85 feet long, 3 feet thick and 24 feet wide containing 535 tons. The scheelite occurred in an altered volcanic and lime-silicate inclusion in the hornblende diorite. Apparently the places, in the pit, sampled give little hint as to the existence of possible sizable extensions of the ore-grade material. Instead the small mass appears to have been practically mined out and no similar body can be inferred to exist at the other spots where tungsten-bearing material occurs.

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The conclusions of the examiners are well taken. I concur with the recommendation that the application be denied.

N. E. Nelson

N. E. Nelson

Docketed

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

February 21, 1956

Memorandum

Copy referred to

To: Chief, Iron & Ferroalloys Division-DMEA
Through: Acting Chief,
Branch of Ferrous Metals & Ferroalloys

From: Commodity Specialist-Tungsten

Subject: Review of Field Examination Report - DMEA 4011 Northwest Mining Co. Oregon Jackson Cty.,

The field examination report indicates that the applicants mined and milled more than 4,000 tons of "tungsten bearing material" with a total recovery of 45 short ton units.

The application contains no definite objective but appears to be more nearly a proposal to prospect.

The Cordero Mining Company, which is still interested in the tungsten industry, leased the property for a short time in 1951, but did not retain its lease.

I concur with the recommendation of the field team that the application be denied.

R W Holliday

R. W. Holliday

February 21, 1956

Memorandum

To: Chief, Iron & Ferroalloys Division-DMEA
Through: Acting Chief,
Branch of Ferrous Metals & Ferroalloys

From: Commodity Specialist-Tungsten

Subject: Review of Field Examination Report - DMEA 4011

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R. W. Holliday

February 21, 1956

Memorandum

To: Chief, Iron & Ferroalloys Division-DMEA
Through: Acting Chief,
Branch of Ferrous Metals & Ferroalloys

From: Commodity Specialist-Tungsten

Subject: Review of Field Examination Report- DMEA 4011

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R. W. Holliday

DOCKET

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

RECEIVED
FEB 13 1956

February 9, 1956

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

WSay

Re: Docket No. DMEA-4011 (Tungsten)
Northwest Mining Company
Lucky Strike-Planet property
Jackson County, Oregon

Dear Mr. Selfridge:

Enclosed are four copies of a memorandum by D. C. Alvord and D. F. Kellum, Geological Survey, recommending denial of the Northwest Mining Company application.

There appear to be no known targets for exploration at the property. One small block of material that probably averaged 0.3 percent WO_3 has been mined, probably at a loss. Based on present exposures there is no reason to believe that higher grade blocks are present nor that there is any extensive amount of low-grade material. Exposures are scarce and additional prospecting might be done by the applicant.

Sincerely yours,

A. E. Weissenborn

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

Concurred in by
U. S. Bureau of Mines

Thomas E. Howard
Thomas E. Howard

Enclosures

cc: USBM (2)
Alvord
Kellum

Reviewed by
DMEA OPERATING COMMITTEE
2-17-56
(date)

RECEIVED
FEB 13 1956

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

February 7, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: D. C. Alvord and D. F. Kellum, Geologists, U. S. Geological Survey

Subject: Field Examination Report, Docket No. DMEA-4011 (Tungsten), Northwest Mining Company, Lucky Strike-Planet property, Jackson County, Oregon

INTRODUCTION

We examined the property on the 14th, the afternoon and evening of the 18th, and the 19th of January, 1956. Messrs. G. W. Badley, W. D. Rhea, I. W. Lanham, and C. R. Jackson, assisted during a part of the examination.

RECOMMENDATION

We recommend that the application be denied.

APPLICANT

The Northwest Mining Company, a partnership comprising

Glenn W. Badley	527 Barnes, Medford, Oregon
Charles R. Jackson	P. O. Box 1309, Medford, Oregon
Ivan W. Lanham	Box 487, Gold Hill, Oregon
William D. Rhea	Box 775, Central Point, Oregon

Messrs. Badley and Jackson are experienced operators of moderate-sized lumbering operations but without previous experience in mining. Messrs. Lanham and Rhea have each had several years practical mining and prospecting experience in base metals. All members are without previous experience in tungsten mining.

LOCATION

The Northwest Mining Company Lucky Strike-Planet property is in secs. 13 and 14, T. 37 S., R. 4 W., Jackson County, Oregon. It is about 3½ miles southeast of the village of Rogue River along U. S. Highway 99, thence about 6 miles south by a graded county road to the property.

Reviewed by
DMEA OPERATING COMMITTEE
2-17-56
(date)

PROPERTY RIGHTS

The Lucky Strike-Planet property consists of the southwest 1/16 section of sec. 13 and southeast 1/16 section of sec. 14, T. 37 S., R. 4 W., together with 7 unpatented claims running northward from the southeast 1/16 section of sec. 14 to the northern edge of sec. 14 (fig. 1). The partnership owns the lode claims which are recorded in the mining records of Jackson County as follows:

Lucky Strike Nos. 1, 2 and 3 in volume 54, pages 342 to 347, inclusive

Planet No. 1 as instrument No. 388016

Planet No. 2 in volume 61, page 202

Planet No. 3 (amended) as document No. 388015

Planet No. 4 is in the process of being recorded

The 1/16 sections are held by the applicant in fee simple. According to the applicant, the Lucky Strike-Planet property is entirely free of liens or other encumbrances.

DESCRIPTION OF THE PROPERTY

The property is on a ridge between the Middle and Right forks of Foots Creek and roughly encompasses a northwest-trending saddle which crosses the ridge between these forks. The altitude of the property ranges from about 1,600 feet to slightly more than 2,000 feet on gentle to moderately-steep slopes. The area is covered with a dense growth of trees and shrubs. Precipitation is 18-20 inches a year, most of which falls as rain during the winter months. Year-round operations could be maintained with but little difficulty.

HISTORY AND WORKINGS

Scheelite was first observed in the vicinity of the property during placer operations on Foots Creek in 1906. The area now covered by the Planet claims was first located as the Blue Star group in December 1950; the Lucky Strike group was located in March 1951. From 1951 to 1953 the property was prospected intermittently by hand-dug pits, shallow shafts and dozer trenches. The dozer trenching was done by the Cordero Mining Company who leased the property for a short time during the spring of 1951. There was little activity on the property during 1954 and through the first half of 1955 until the Northwest Mining Company purchased the property July 29, 1955. The Northwest Mining Company did some dozer trenching in July, before

purchase of the property, and early in August began a production cut on the Planet No. 4 claim with a power shovel. During the period August 9 to September 23, 1955, over 4,000 short tons of scheelite-bearing rock was shipped from this cut to a mill at Eagle Point, Oregon. There had been no exploration activity on the property from the end of September 1955 to the time of our examination.

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PAST PRODUCTION

Between August 9 and September 23, 1955 the Northwest Mining Company produced 4,377 short tons of scheelite-bearing material from their production pit. Less than 15 percent of this material was scheelite-bearing rock of ore grade; the remainder consisted of essentially barren rock mixed with the ore material through the operator's use of the power shovel with little regard to selection.

This material was shipped to a mill at Eagle Point, Oregon, owned by the Laughlin Alloy Steel Company of Medford, Oregon. The mill was designed for gravity concentration of banded chromite ore and consisted essentially of a jaw crusher, a ball mill, a drag classifier, jigs and Wilfley tables.

About 3,300 tons of rock averaging about 0.038 percent WO_3 were run through this mill to produce 15 tons of concentrates averaging 3.0 percent WO_3 and tailings having an average grade of 0.025 percent WO_3. Assuming the millman was competent, these results clearly indicate that Lucky Strike-Planet ore, diluted to such a low grade, is not amenable to beneficiation by ordinary gravity methods and that in any economic evaluation of the property both the need for an appropriate selective mining method and for a mill that includes flotation machines to handle fines would have to be considered.

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GEOLOGIC SETTING

The Lucky Strike-Planet property is in the northeast quarter of the Grants Pass Quadrangle within an area underlain by an assemblage of regionally-metamorphosed volcanic and sedimentary rocks of the Applegate Group of probably Upper Triassic age (Wells, F. G., Hotz, P. E., and Cates, F. W., 1949, Preliminary description of the geology of the Kerby Quadrangle, Oregon: State of Oregon, Department of Geology and Mineral Industries, Bull. No. 40). These beds strike prevailingly north-northeasterly and usually dip steeply to the southeast. In this area the lens-shaped interbedded metasediments make up from 10 to 20 percent of the Applegate group. Locally the metasediments are highly contorted. The relatively complex structure of this rock group has not as yet been solved although some sort of tight folding is likely the situation.

Small discordant bodies of quartz diorite and related rocks intruded the area during Late Jurassic or Early Cretaceous time. These plutons seldom exceed about two square miles areal extent. They are very irregular in shape, and in detail their margins form a complex intertonguing with the contacted metarocks. They are erratically distributed in a northeast-trending pattern conformable with the structural trend of the area.

The scheelite occurrences so far known in southwestern Oregon are limited to the Applegate group of rocks and are chiefly confined to the more strongly metamorphosed zones of these rocks, more or less marginal to igneous plutons. A few occurrences are in gold-bearing quartz veins and in shear zones, all within the Applegate group.

GEOLOGY OF THE LUCKY STRIKE-PLANET PROPERTY

The applicant's property is dominantly underlain by altered gray-green andesitic or basaltic lavas interbedded with minor amounts of gray to black argillites. A white bed of marble was found on the land to the east of the property; this apparently strikes southwestward onto the Planet No. 3 claim but was not observed there.

The contact of the Applegate group with a small irregularly shaped pluton of hornblende diorite roughly follows the western edge of the property from the northernmost boundary southward for a distance of about 3/4 of a mile. A tonguelike portion of this mass extends eastward across the north central part of the property and thence veers southward, along the east property line, for about 1/4 mile (fig. 1). The contact is extremely irregular - apophyses of hornblende diorite complexly intertongue with, and occasionally extend several hundred feet into, the Applegate complex. According to Wolfe and White, blocks of lime-silicate rock occur well within the margins of the intrusive. Exposures in the production trench (fig. 2) exemplify the erratic nature of this contact.

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Most of the workings on the property seem to have explored the Applegate rocks, predominantly the metavolcanics, near the contacts of the pluton. It seems apparent that the scheelite occurrences are confined to Applegate rocks near the pluton and that any effective exploration program would therefore be dependent upon a reasonably detailed understanding of the hornblende diorite-Applegate complex contact beforehand. The mapping of the contact in sufficient detail over the entire property is presently impossible without the aid of new dozer trenches. Elsewhere than the production cut, slump and wash material conceal most of the remaining man-made exposures. Moderately dense vegetation and soil cover prohibit detailed mapping elsewhere.

DEPOSITS

At locality No. 1 (fig. 1) the dump around a tightly lagged shaft shows that lime-silicate rock bearing sparsely disseminated scheelite was explored.

At locality No. 2 a short adit and a vertical shaft explore altered volcanics containing disseminated fine grains and stringers of scheelite along northwest-striking fractures or bedding plane partings in the rock. Hornblende diorite crops out at several points near the workings and it seems probable that these occurrences are in a block of volcanics within the pluton.

At locality No. 3 the dump around a shallow, water-filled shaft was made up dominantly of altered volcanics and a few chunks of lime silicate rock. Wolfe and White reported scheelite occurring as scattered grains as large as ½ inch in diameter at this locality.

The production trench located on the Planet No. 4 claim (figs. 1 and 2) exposes complex intertongues of hornblende diorite with altered volcanics and minor quantities of lime silicates of the Applegate group. The contacts are, in part, gradational and difficult to define; portions of areas shown as hornblende diorite contain zones of probable former volcanics or sediments that have been nearly completely replaced to form rock closely resembling the intrusive hornblende diorite.

The conspicuous northwest trend of the tongues and other structural elements is essentially normal to the regional trend. This anomaly is presumed attributable to a general rotation of the Applegate rock mass in this area or at least in the immediate vicinity of the production trench and locality No. 2.

All of the scheelite-bearing rock found in the production trench is north of the hanging wall of the east-striking north-dipping fault shown in figure 2. There is little evidence upon which to infer an extension of this scheelite zone beyond the present limits of the production trench. From the Operator's description the scheelite probably occurred as disseminated scheelite crystals in an altered volcanic and lime-silicate inclusion in the hornblende diorite. This rock mass may have been a limb-like component of the altered volcanic mass shown at the north end of the trench. The scheelite-rich shoot was apparently flat lying, tabular, and ranged from 1 foot to 4 or more feet in thickness. It had a width roughly defined by the trench outline, and plunged gently northward. Samples 242-B to 245-B were taken from what is probably the distal end of this shoot. The scheelite crystals at these points averaged 1 or 2 millimeters in diameter but occasionally reached dimensions approaching 1/2 to 1 centimeter. When these scheelite-rich rocks were sampled flour-like clouds of scheelite dust frequently formed after each blow of the hammer. As noted in this report, under Past Production, this tendency to form fines on crushing presents a considerable milling problem.

The samples taken of the occurrences shown on figure 2 do little more than demonstrate the fact that ore-grade concentrations of scheelite occur in the volcanics of the production trench area. Samples 243-B (8 feet, 0.15 percent WO_3) and 244-B (11 feet, 0.85 percent WO_3), in the production trench, were taken from zones of disseminated scheelite that ranged from 2 to 6 inches in width that seemingly plunged with the volcanics to the northeast. Samples 242-B (2 feet, 0.49 percent WO_3), 245-B (2 feet, 1.40 percent WO_3), in the production trench, and 246-B (grab, 1.54 percent WO_3), 150 feet north of the trench, were cut from irregularly shaped pocket-like occurrences a foot or two in outcrop diameter but which had no discernable directional trend or major axes. Sample 247-B (4 feet, 0.48 percent WO_3), 100 feet north of the trench, was cut from two points of a narrow four-foot long lens.

In all probability only two or three tons of hand-sorted ore could have been produced from localities 1, 2, and 3.

The size and grade of the scheelite deposit at the production trench can be estimated from the Operator's description of the deposit, and the production and mill data. Assuming an average thickness of 3 feet, a length of 85 feet, and a width of 24 feet the ore block would contain 535 tons, all of which is north of the east-striking fault. In addition to this ore block, 3,842 tons of essentially barren rock was mined and brought to the mill. Of the 4,377 tons of rock brought to the mill about 3,300 tons were actually milled. The mill product was 15 tons of 3 percent WO_3; the mill tailings contain 0.025 percent WO_3. Using these figures, the ore block of 535 tons contained about 0.31 percent WO_3.

On the basis of our mapping and sampling we do not believe that any significant volume of rock of the same grade remains in the pit area.

APPLICANT'S PROPOSAL

In the applicant's MF-103 "further stripping, tunneling, shafting and pit exploration on present contacts, further exploration to determine additional contacts" are proposed. During the examination, however, the partnership made it clear that they are open to suggestion and willing to go along with any program of exploration DMEA will back.

EVALUATION OF APPLICANT'S PROPOSAL

No target zone or area sufficiently localized to justify DMEA participation is at present delimited on the Lucky Strike-Planet property. Even if such a zone were delimited, it has not been demonstrated that ore bodies within the zone are likely to be of sufficient grade and size or density of occurrence to make an economic operation. There is, therefore, no point in discussing the applicant's proposal. ?

CONCLUSIONS

A contact zone near which scheelite deposits occur is present on the property. The trace of this zone and the pattern of the scheelite deposits in relation to this zone are at present too poorly understood to afford a target area that could be explored with reasonable expectation of encountering ore in commercial amounts. Furthermore, the largest deposit found on the property to date could only have been mined economically as a 2- or 3-man dogholing operation, and then only if a custom mill was located nearby.

However, the regional setting and known geological details of the property are favorable to the occurrence of tungsten deposits and it is within the realm of more than just a possibility that

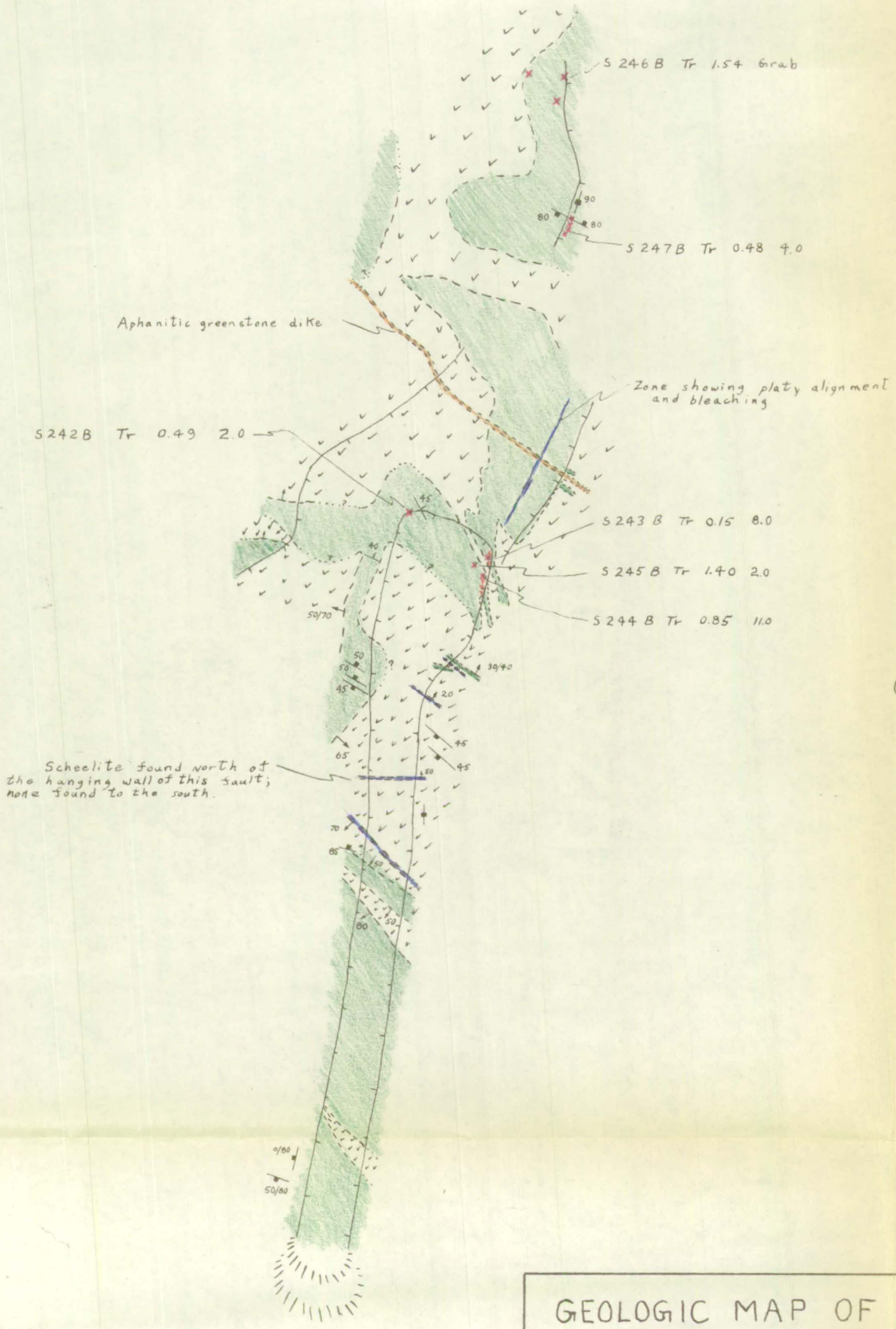
additional work on the property may eventually yield sufficient information to justify participation of the DMEA program in its exploration.

Enclosures

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

Figure 2

Docket No. DMEA 401



Explanation

Hornblende diorite

Altered volcanics

Shear zone or fault
(Granitic gouge, Sp. to Ab. Fe stain
Locally laced with Qz veins)

Contact, showing dip
(Dotted where indefinite or concealed.)

Strike and dip of beds
(somewhat doubtful)

Strike and dip of joints

Visible scheelite occurrence

Wall of trench or cut

20°

1 inch = 40 feet

Sample No	Au (ounce)	WO_3 (percent)	Length (feet)
S 242-B	Tr	0.49	2.0

GEOLOGIC MAP OF PRODUCTION TRENCH
NORTHWEST MINING CO. PROPERTY
Jackson County, Oregon

Geology by D. F. Kellum and D. C. Alvord, Jan., 1956

RECEIVED
FEB 13 1956

400

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

No. 157 Howard Street
Spokane 4, Washington

RECEIVED
FEB 13 1956

February 9, 1956

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

Re: Docket No. DMEA-4011 (Tungsten)
Northwest Mining Company
Lucky Strike-Planet property
Jackson County, Oregon

Dear Mr. Selfridge:

Enclosed are four copies of a memorandum by D. C. Alvord and D. F. Kellum, Geological Survey, recommending denial of the Northwest Mining Company application.

There appear to be no known targets for exploration at the property. One small block of material that probably averaged 0.3 percent WO_3 has been mined, probably at a loss. Based on present exposures there is no reason to believe that higher grade blocks are present nor that there is any extensive amount of low-grade material. Exposures are scarce and additional prospecting might be done by the applicant.

Sincerely yours,

A. K. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

Concurred in by
U. S. Bureau of Mines

Thomas E. Howard

Enclosures

cc: DMEA (2)
Alvord
Kellum

Reviewed by
DMEA OPERATING COMMITTEE

(date)

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

RECEIVED
FEB 13 1956

February 7, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District.

From: D. C. Alvord and D. F. Kellum, Geologists, U. S. Geological Survey

Subject: Field Examination Report, Docket No. DMEA-4011 (Tungsten), Northwest Mining Company, Lucky Strike-Planet property, Jackson County, Oregon

INTRODUCTION

We examined the property on the 14th, the afternoon and evening of the 18th, and the 19th of January, 1956. Messrs. G. W. Badley, W. D. Rhea, I. W. Lanham, and C. R. Jackson, assisted during a part of the examination.

RECOMMENDATION

We recommend that the application be denied.

APPLICANT

The Northwest Mining Company, a partnership comprising

Glenn W. Badley	527 Barns, Medford, Oregon
Charles R. Jackson	P. O. Box 1309, Medford, Oregon
Ivan W. Lanham	Box 487, Gold Hill, Oregon
William D. Rhea	Box 775, Central Point, Oregon

Messrs. Badley and Jackson are experienced operators of moderate-sized lumbering operations but without previous experience in mining. Messrs. Lanham and Rhea have each had several years practical mining and prospecting experience in base metals. All members are without previous experience in tungsten mining.

LOCATION

The Northwest Mining Company Lucky Strike-Planet property is in secs. 13 and 14, T. 37 S., R. 4 W., Jackson County, Oregon. It is about 3½ miles southeast of the village of Rogue River along U. S. Highway 99, thence about 6 miles south by a graded county road to the property.

Reviewed by
DMEA OPERATING COMMITTEE

PROPERTY RIGHTS

The Lucky Strike-Planet property consists of the southwest 1/16 section of sec. 13 and southeast 1/16 section of sec. 14, T. 37 S., R. 4 W., together with 7 unpatented claims running northward from the southeast 1/16 section of sec. 14 to the northern edge of sec. 14 (fig. 1). The partnership owns the lode claims which are recorded in the mining records of Jackson County as follows:

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However, the regional setting and known geological details of the property are favorable to the occurrence of tungsten deposits and it is within the realm of more than just a possibility that

additional work on the property may eventually yield sufficient information to justify participation of the DMEA program in its exploration.

Enclosures

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

Docket

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

So. 157 Howard Street
Spokane 4, Washington

RECEIVED
DEC 27 1955

December 21, 1955

Copy retained 400

Mr. Glenn W. Badley
Northwest Mining Company
Post Office Box 1309
Medford, Oregon

Re: Docket No. DMEA-4011 (Tungsten)
Lucky Strike & Blue Star Prospect
Jackson County, Oregon

Dear Mr. Badley:

Thank you for your letter of December 16. We hope to have a geologist visit your property shortly after the first of the year, as Mr. Kellum told you when he talked with you over the phone December 19. We will contact you to arrange a definite date, and to find out if the property is accessible.

Sincerely yours,

Verne C. Fryklund, Jr.
for: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

cc: DMEA (2)
USBM (2)
Kellum

Docket

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

November 21, 1955

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

Copy retained 400

WSM

Re: Docket No. DMEA-4011 (scheelite-tungsten)
Northwest Mining Company, A Partnership
Lucky Strike & Blue Star Prospect
Jackson County, Oregon

Dear Mr. Selfridge:

Examination of the property had been scheduled for November 9, 10 and 11, 1955. Mr. Alvord and Mr. Kellum, however, started the examination of the Oroco Gas and Oil (Jordon mine - Docket No. DMEA-4050) property on November 4 and just returned to Spokane November 21 without visiting other properties. The Jordon mine examination was much more time consuming than anticipated and the general storm that struck this area prolonged the examination.

Unfortunately the Northwest Mining Company examination could not be made and a reschedule will not be made until the mercury report is completed.

Sincerely yours,

Verne C. Fryklund Jr.

Verne C. Fryklund, Jr.
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

Copy retained 400

cc: USBM (2)
Kellum
Alvord

RECEIVED
NOV 25 1955

DOCKET
SURNAME
McMahon
Martin
Selfridge
Johnson

400

OCT 31 1955

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

Re: Docket No. DMEA 4011 - Tungsten
Northwest Mining Company
Lucky Strike Prospect and Blue
Star Prospect
Jackson County, Oregon

Dear Mr. Weissenborn:

Reference is made to the subject docket and to your letter of October 3, 1955, which states that a field examination of the Lucky Strike and Blue Star Prospects will be scheduled within two or three weeks.

We will, therefore, hold this application in abeyance until the report and recommendations of the Field Team are received.

Copies of memoranda dated October 12 and October 26, 1955, by H. E. Malann, Geological Survey and R. W. Holliday, Bureau of Mines, respectively, relating to the project, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (S/B)

Enclosure

APPROVED:

/s/ Robert W. Geehon (S/B)
Member, Bureau of Mines

W. P. Williams (S/B)
Member, Geological Survey

ADMcMahon/foc 10/28/55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. I - NW Dist.
Messrs. Holliday, USBM
Kiilsgaard, USGS

P.C.K.

DOCKET
SURNAME
400 McMahon
Martin
Lechner
Williams
Selfridge

OCT 31 1955

Northwest Mining Company
P. O. Box 1309
Medford, Oregon

Re: Docket No. DMEA 4011 - Tungsten
Lucky Strike Prospect and Mine
Star Prospect
Jackson County, Oregon

Gentlemen:

The above docketed application for exploration assistance 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 I - Northwest District, South 157 Howard Street, Spokane 4, Washington for a field examination of the property.

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

Sincerely yours,

Frank E. Johnson

Acting Administrator

ADMcMahon/fec
10-27-55
cc to: Docket
Code 400
Admr. Read. File
Operating Comm.
FT. Reg. I - NW DIST.
Messrs. Holliday, USBM
Kiilsgaard, USGS

R.C.S.

Kirchel

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

October 26, 1955

Memorandum

To: Chief, Iron and Ferroalloys Division - DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys

From: Commodity Specialist

Subject: Docket No. DMEA 4011 - Tungsten
Northwest Mining Company
Blue Star and Lucky Strike prospects
Jackson County, Oregon
Application for exploration assistance.

It is recommended that a referral to the field team be made.

R. W. Holliday

R. W. Holliday

Copy To: Ferrous Metals
Division of Minerals
Files

Copy retained 400

IN REPLY REFER TO:

Docket

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

RECEIVED
OCT 13 1955

October 12, 1955

Re: DMEA 4011
Northwest Mining Co.
Blue Star and Lucky Strike prospects
Jackson Co., Oregon
Tungsten

WSM

Memorandum

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

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

Subject: Review of application.

No work program is outlined in the application and no estimate made of the probable cost.

Apparently a long contact (tactite) zone crosses the two groups of claims. Within the zone scheelite has been found but in what amounts we are not informed. An open pit 75 feet deep, 30 feet wide and 100 feet long has been dug but we are not told if it is a rock cut.

The exerpt from the Preliminary Report on Tungsten in Oregon makes no mention of sampling and not an assay is given.

In the circumstances a field examination is needed and a report which will translate some of the general terms into "feet % WO_3".

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

Copy retained 400

October 11, 1955

strike

Subject: DMEA 4011
Re: Exploration Assistance
Lucky Strick and
Blue Star Prospect

Northwest Mining Company
P. O. Box 1309
Medford, Oregon

Gentlemen:

The receipt of your application dated September 27, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 4011 and referred to the Iron & Ferro Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

October 11, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region I N. W. District

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 I. N. W. District.

DMEA - 4011 Northwest Mining Company

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

RECEIVED
OCT 10 1955

October 3, 1955

OCT 5 1955

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

Re: Transmittal of Application for Aid
in an Exploration Project
Northwest Mining Co., A partnership
Lucky Strike and Blue Star Prospect
Jackson County, Oregon

Dear Mr. Selfridge:

Enclosed are three copies of an application submitted by Mr. Glenn Badley of Medford, Oregon, for the Northwest Mining Co., a partnership.

We will schedule an examination, but the geologist who handles most of the Oregon work will not be able to leave the office for about two weeks as he is preparing other urgent reports.

Sincerely yours,

Verne C. Frykland
for A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

Enclosures
cc: USBM(2)
Kellum

MF-103
(Revised April 1952)

RECEIVED
BUREAU OF MI
SEP 2
SPOKANE

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Appr
Budget Bu

RECEIVED
OCT 10 1955

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 4011
Metal or Mineral Tungsten
Date Received 10-10-55
Estimated Cost Not given
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: NORTHWEST MINING CO., P. O. Box 1309, Medford, Oregon (a partnership in the State of Oregon)

(*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. see attached list.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract the E½, E½ of the Sec. 14, T 37 S, R 4 W. W. M., and the SW¼, SW¼ of Sec. 13, T 37 S, R 4 W. W. M.,

(*b*) State any mine name by which the property is known. Lucky Strike Prospect & Blue Star Prospect.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise park owner and load claims

(*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. none

(*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. see attached list.

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

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

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

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

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

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

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

(*c*) The work will start within 7 to 10 days and be completed within to be determined months from the date of an exploration project contract.

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

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 [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 September 27, 1955

NORTHWEST MINING CO.,
(Applicant)

By Glenn W. Bailey

Ivan W. Lanham

Robert Jackson

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

"EXHIBIT A"

RECEIVED
OCT 10 1955

The following is a report from the State of Oregon, Department of Geology and Mineral Industries 702 Woodlark Building Portland 5, Oregon. This report has been prepared by Harold D. Wolfe Geologist and David J. White Geologist under the heading "G. M. I. SHORT PAPER NO. 22" "PRELIMINARY REPORT ON TUNGSTEN IN OREGON".

"BLUE STAR PROSPECT (5)

General

The Blue Star tungsten prospect is located on a ridge between the Middle and Right forks of Foots Creek in Jackson County. The property consists of 3 lode claims located in the SE¼ Sec 14, T. 37 S, R 4 W. The claims were located in December 1950 by C. B. Harrison, H. A. Harrison, and Leo Thompson, Gold Hill, Oregon. The principal occurrences are at about 1,900 feet elevation.

Scheelite was detected in drainages of the area in the fall of 1950 by the owners, who later succeeded in locating several widely dispersed scheelite occurrences mainly by "pocket hunting" prospecting methods. A shaft 20 feet deep was sunk in addition to several pits.

The property was leased for a short time early in 1951 by the Cordero Mining Company who did about 2,000 lineal feet of trenching with a bulldozer.

Geology

The scheelite occurrences are in rocks of the Applegate group, predominantly metavolcanies, marginal to granitic intrusive. This intrusive, which has been mapped as quartz diorite by Wells and others (1940), is half a mile in diameter and apparently has a very irregular contact. In places blocks of pale lime-sidicate rocks occur well within the margins of the intrusive.

Scheelite in metavolcanic rocks occurring near the contact with the granitic intrusive has been noted at one point on the Blue Star No. 1 claim. These metavolcanics may represent either an inclusion or a small body which projects into the granitic intrusive along the contact. The occurrence has been explored by surface pits and a 20-foot location shaft. Decomposed granitic rock is exposed in cuts within 50 to 100 feet to the east, south, and west of the location shaft. The rocks exposed in the shaft consist of gray metamorphosed basaltic or andesitic lavas dontainin a considerable amount of calcite. Scheelite occurs as scattered grains as large as half an inch in diameter in the more altered portions of the metavolcanics. The zone has been traced by surface panning for possibly 20 to 3- feet to the northeast.

One point of scheelite mineralization has been noted on the Blue Star No. 2 claim about 500 feet south of the location shaft on the Blue Star No. 1 claim. This is exposed in one shallow surface cut only.

The Blue Star No. 3 claim contains several discontinuous points of scheelite mineralization in the contact zone along the east margin of the granitic intrusive. These have been exposed in shallow trenches and bulldozer cuts. The most southerly of these points is at the location cut and in a bulldozer cut a few feet to the south. Scheelite occurs here in a dense, gray-green, very siliceous contact rock, presumably a line-silicate rock, which might properly be termed a tactite. Megascopically, garnet is the only mineral easily identifed. Scheelite occurs as small indistinct "spots" or areas in the more dense, siliceous contact rocks. The extent or nature of this zone cannot be determined from the present limited development work.

Approximately 200 feet north of the location cut, three points of mineralization are exposed in the two bulldozer cuts and one small trench. The most northerly of these points has been explored by a broad east-west bulldozer cut which exposes the contact between the intrusive on the west and rocks of the Applegate group, presumably metavolcanics, on the east. On the south side of this cut the contact rocks consist of several feet of a dense, fine-grained, white rock, possibly lime-silicate. Outward from the contact this white rock grades into dense, dark gray, siliceous material. Scheelite occurs as disseminated grains and as narrow stringers in parts of the latter zone. Scheelite mineralization extends to the northeast from the south side of the cut for about 10 feet. The exact width of the scheelite-bearing zone cannot be determined from present exposures but is reported to range from 2 to 4 feet. In the upper portion of the cut a very high-grade "pocket" of scheelite was encountered.

Several hundred feet to the southeast of the location cut on Blue Star No. 3, scheelite has been reported from a contact zone exposed on Moore Gulch. A zone of tactite composed largely of was noted immediately east of the Blue Star No. 2 claim on private land. This zone, which is exposed in an irrigation ditch, appears to be several feet in width but no scheelite was found.

(CONTINUED ON BACK)

(CONTINUED FROM FRONT PAGE)

LUCKY STRIKE PROSPECT (6)

General

The Lucky Strike tungsten prospect is on a ridge between the Middle and Right forks of Foots Creek in Jackson County and immediately north of the Blue Star tungsten prospect. The property consists of three lode claims located in March 1951 in the NE¼ Sec. 14, T 37 S., R 4 W., by Stuart S. Hatch, Gordon L. Hatch and William C. Tingle, Rogue River, Oregon. The discovery shaft is at an elevation of about 1,650 feet.

Geology

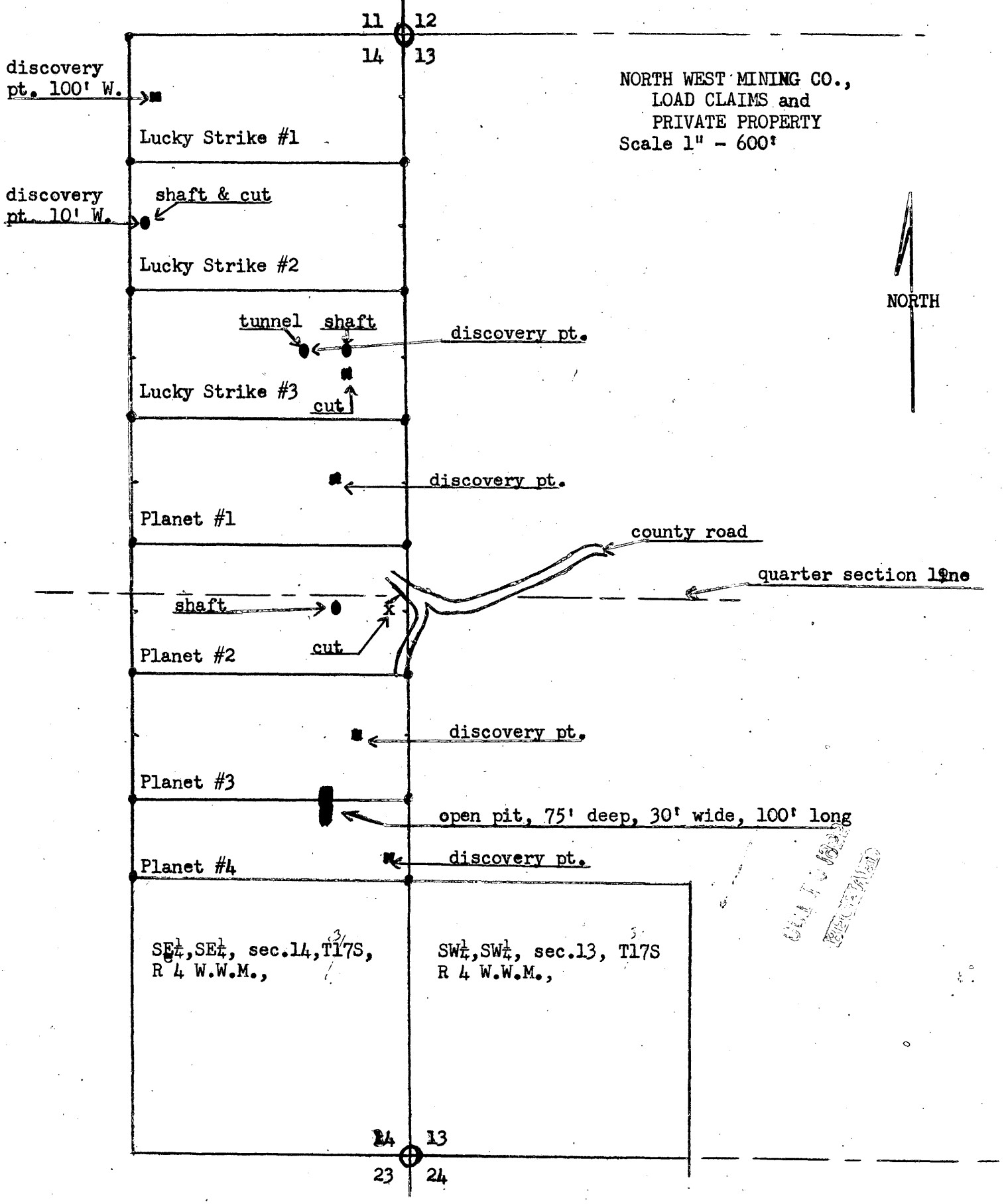
The geology is essentially the same asthe Blue Star prospect to the south. Scheelite occurrences are in rocks of the Applegate group along the north margin of the same small granitic intrusive which is responsible for the scheelite mineralization at the Blue Star prospect.

Principal occurrences thus far noted are on the Lucky Strike No. 3 claim and were found by "Pocket hunting" prospecting methods. Development work consists of a location shaft 10 feet in depth entirely in weathered contact rocks and several small cuts. Scheelite occurs as sparsely disseminated grains and small stringers on all four walls of the shaft. Granitic rocks crop out at several places in the immediate area. On the hillside a few hundred feet northeast of the shaft a second prospect has been exposed by a small cut. The cut exposes an 18 inch zone of weathered rock and clay containing disseminated scheelite adjacent to a limestone body. Intrusive granitic rocks are exposed to the north and east of the cut.

Scheelite is also reported to have been found in a quartz vein half a mile northwest of the Lucky Strike prospect.

EXHIBIT "B"

The following is a plat, showing discovery points on load claims, corner posts, end center stakes and section corners. Load claims are named and numbered, private property of the NORTHWEST MINING CO., is shaded red. Load claims named "PLANET" were formerly knowen as "BLUE STAR PROSPECT". All corner posts, end center stakes and discovery points are in place as shown on plat.



Northwest Mining Co.

GLENN W. BADLEY CHAS. R. JACKSON IVAN W. LANHAM WM. D. RHEA

POST OFFICE BOX 1309 TELEPHONE CENTRAL POINT NO 4-1241

MEDFORD, OREGON

RECEIVED OCT 10 1955

September 27, 1955

United States Department of the Interior
Bureau of Mines
1201 N. Division Street
Spokane 2, Washington

Gentlemen:

This is to notify you that we are making "APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED". This letter is to become a part of the application , along with your form MF-103, a report prepared by the State of Oregon Department of Geology and Mineral Industries, refered to as "EXHIBIT A" and a plat or map showing the purposed exploration area, refered to as "EXHIBIT B".

"EXHIBIT A" is not complete, as this report was prepared in 1951 and additional work has been done in this area since that date. "EXHIBIT B" has been completed, showing known location of pits, tunnels, shafts and cuts only. Additional striping and pit work has been done on this area, but not knowing the exact location within the area, these locations have not been included on this plat.

The following are the answers to the questions as per form MF-103.

No. 1A NORTHWEST MINING CO.,
1B a partnership in the State of Oregon
1C not a corporation
1D Glenn W. Badley 527 Barns, Medford, Oregon
Chas. R. Jackson P. O. Box 1309, Medford, Oregon
Ivan W. Lanham Box 487, Gold Hill, Oregon
Wm. D. Rhea Box 775, Central Point, Oregon

No. 3A The E½, E½ of S 14, T 37 S, R 4 W. W. M. and the SW¼, SW¼ of S 13, T 37 S, R 4 W. W. M.,
3B Lucky Strike Prospect
Planet (Blue Star Prospect)
3C SE¼, SE¼ of S 14, T 37 S, R 4 W. W. M. and the SW¼, SW¼ of S 13, T 37 S, R 4 W. W. M., Owners
E½, E½ of the NE¼ and the NE¼ of the SE¼ of S 14, T 37 S, R 4 W. W. M. Load Claims
3D Owners
3E None
3F Lucky Strike Nos. 1, 2 and 3 recorded in Vol. 54 of the mining records of Jackson County, Oregon at pages 342 to 347 inclusive.
Planet No. 1 recorded in the mining records of Jackson County, Oregon as instrument No. 388016
Planet No. 2 recorded in the mining records of Jackson County, Oregon ~~in~~ ~~xxxx

Northwest Mining Co.

GLENN W. BADLEY CHAS. R. JACKSON IVAN W. LANHAM WM. D. RHEA

POST OFFICE BOX 1309 TELEPHONE CENTRAL POINT NO 4-1241

MEDFORD, OREGON

No. 3F Planet No. 3 the amended notice of location being recorded in said records as document No. 388015.
Planet No. 4 is in the process of being recorded, Vol. and Page will be furnished at a later date.

No. 4A To date, open pit up to 75 feet in depth, 30 feet in width and 100 feet in length. One shaft approximately 35 feet deep and a tunnel approximately 35 feet in length, plus discovery points on each of the claims (seven total). Explorations are being continued and scheelite has been found at all contact and location points. Operations are being conducted under our supervision, equipment is being operated on a contract basis and mine workings are fully accessible year round for examination purposes. Our interest in this project is the owner.

No. 4B to date, exploration work only.

No. 4C refer to Exhibit "A" and "B".

No. 4D Fully accessible year round, county road thru property, U. S. Highway No. 99 located 4 miles north of property. Shipment for rail can be loaded at Rogue River, Oregon, some 8 miles from the ore body. Truck shipment can be made from mine year round.

No. 4E Availability of manpower, materials, supplies, equipment, water and power are unlimited.

No. 5A The exploration project, Scheelite (tungsten).

No. 5B further striping, tunneling, shafting and pit exploration on present contacts, further exploration to determine additional contacts. Refer to Exhibit "B"

No. 5C work will start within 7 to 10 days and completion date at this time not known.

No. 5D principals have had experience in pit, shaft and tunnel mining, assay experience and have been successful in other types of business ventures. To continue this exploration work, additional experts in this field will be brought in.

No. 6A None

No. 6B to be determined thru consulation with an engineer

No. 6C inconsequential

No. 6D one 2500 watt light plant, $500.00. Two mineral lights, $75.00 each. Small tools such as, picks, shovels, wheelbarrows, tool box and powder cache.

No. 6E equipment is fully maintained and operated under lease.

(CONTINUED NEXT PAGE)

Northwest Mining Co.

GLENN W. BADLEY CHAS. R. JACKSON IVAN W. LANHAM WM. D. RHEA

POST OFFICE BOX 1309 TELEPHONE CENTRAL POINT NO 4-1241

MEDFORD, OREGON

No. 6F none existing

No. 6G to be determined

No. 6H none

No. 7A yes

No. 7B Money, yes. Use of equipment owned by Company and partners, yes. Other, accounting, bookkeeping and supervision.

Figure 1

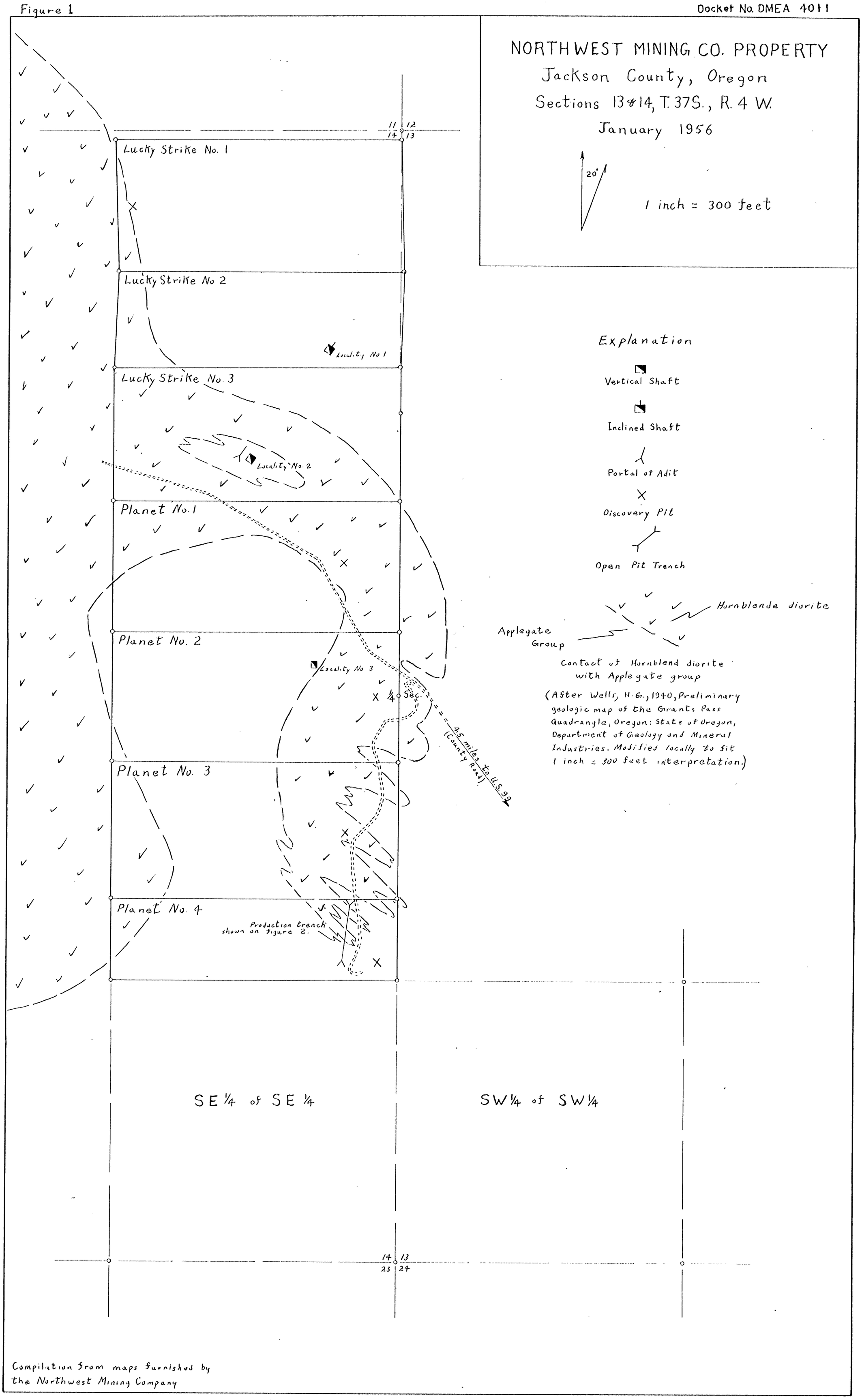
Docket No. DMEA 4011

NORTHWEST MINING CO. PROPERTY

Jackson County, Oregon

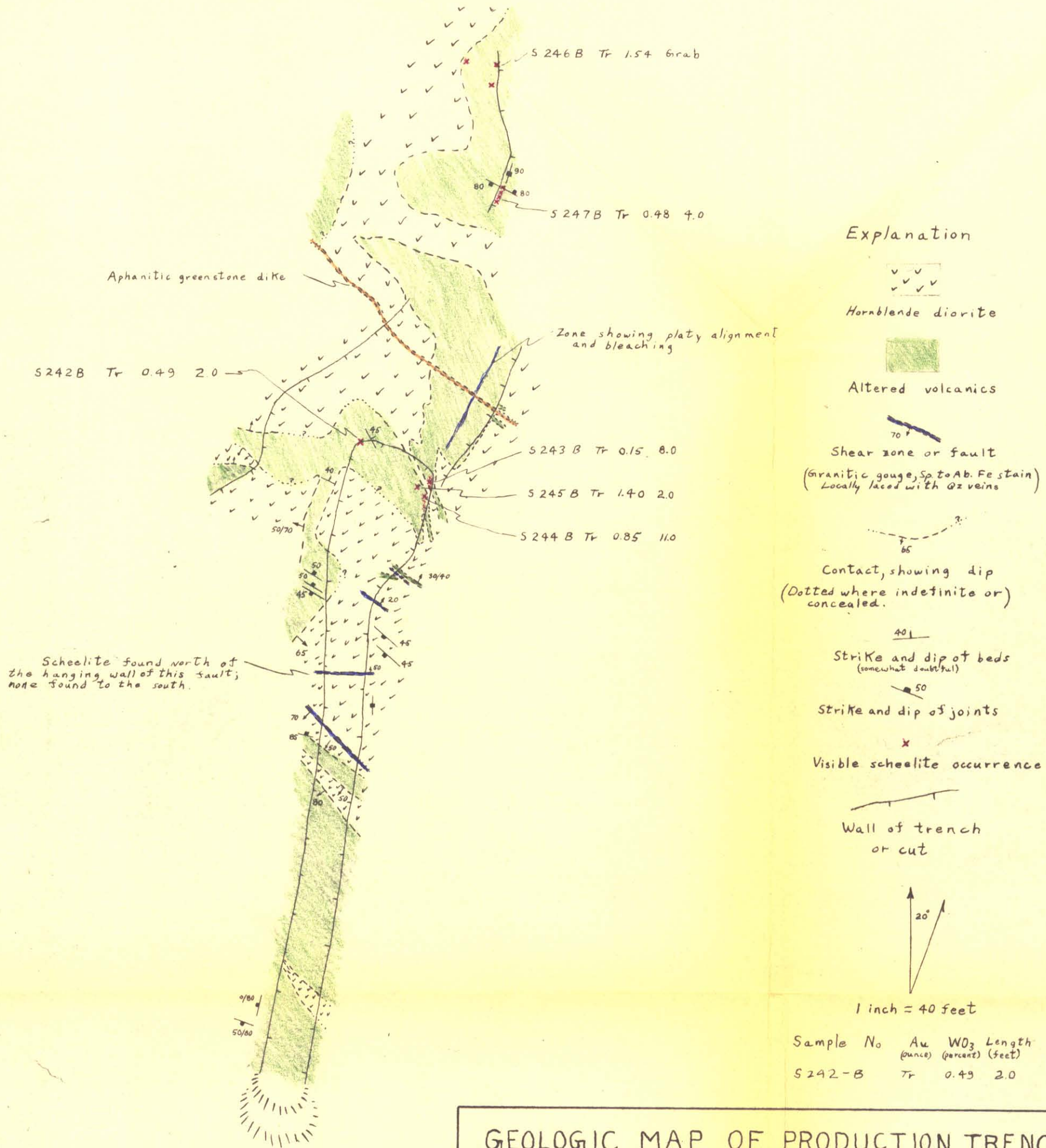
Sections 13 & 14, T. 37S., R. 4 W.

January 1956



Compilation from maps furnished by the Northwest Mining Company

Figure 2



Sample No	Au (ounce)	WO_3 (percent)	Length (feet)
S 242-B	Tr	0.49	2.0

GEOLOGIC MAP OF PRODUCTION TRENCH
NORTHWEST MINING CO. PROPERTY
Jackson County, Oregon

Geology by D. F. Kellum and D. C. Alvord, Jan., 1956