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FILE COPY
Surname:
Murphy
Allen
Kilgard
Sellen
Selfridge
Fishman

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

FEB - 1 1956

Mr. Harald Hepper, et al.
1660 Hoyt Street
Denver 15, Colorado

Re: Docket No. DMEA-4025 (Uranium)
Lucky Strike Claims
Clear Creek County, Colorado

Gentlemen:

Reference is made to your application for Government aid in an exploration project on the above-named claims.

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 uranium mineralization on your property, indicates to us that the possibility of disclosing significant ore reserves is not sufficiently promising to justify Government participation in an exploration project. We regret to advise you that, under these circumstances, 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,

G. O. Mittendorf

Administrator

FMMurphy/izm 1-31-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

K.G.

Docket Copy

700 Murphy Ellis

JANUARY 31, 1956

SUMMARY OF PROPOSED PROJECT

Object: Denial of application for exploration aid.

Docket No.: DMEA-4025

Commodity: Uranium

Applicant: Harold Hopper,* Ira L. Scott and Lawrence Groves
*Mailing address: 1660 Hoyt Street
Denver 15, Colorado

Property: Owner of unpatented claims, Lucky Strike Nos. 1, 2, and 3, situated in Section 11, T. 4 S., R. 72 W., 6 P.M., Clear Creek County, Colorado.

Date of Application: October 10, 1955

Referred to Field Team: November 3, 1955

Field Team Report Received: January 16, 1956

Amount of Application: $7,143.00

Work Proposed and Costs:

225 drifting @ $25.00/ft.	$5,625.00	
Access roads, bulldozer, 24 hrs. @ $12/hr.	288.00	
Supervision and Consultants	1,500.00	
Total		$7,413.00

Excerpts from Field Team Report:

The property is underlain by Precambrian metamorphic rocks of the Idaho Springs formation composed of granite gneiss, hornblende gneiss, pegmatite, and schist. The Applicants have excavated one small pit on Lucky Strike No. 1 claim. In this pit very minor amounts of autinite and tobernite are associated either with a minor fracture in the country rock or with a pegmatitic zone in the metamorphic series.

Minor low grade concentrations of primary uranium minerals are not uncommon in the pegmatitic members of the Idaho Springs formation, but without exception those seen to date have been economically insignificant. It appears that the secondary uranium minerals in the subject deposit were precipitated from surface waters moving along the joint after having dissolved minor amounts of uranium from primary uranium minerals dispersed in the pegmatite.

Samples taken across the width of the mineralized joint zone (about 1 foot) indicate a U_3O_8 content of 0.12 to 0.14 % U_3O_8. However, extensions of the zone were not indicated by a scintillometer survey of the area adjacent to the pit.

The Field Team recommends denial of the application.

Commodity Members' Comments:

USGS, N. E. Nelson, January 23, 1956:

Summarizes the field examiners findings and concurs in the denial recommended by the examiners and the Field Team.

USBM, J. E. Crawford, January 27, 1956:

Concurs in the Field Team's recommendation to deny the subject application.

Rare & Miscellaneous Metals Division, F. M. Murphy, January 31, 1956:

As no significant target exists for the proposed drift work, this Division concurs in the Field Team's recommendation to deny the subject application.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

1/30/56 gla

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

RECEIVED
JAN 30 1956

January 27, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 4025, Harold Hopper et al., Lucky Strike claims, Clear Creek County, Colo.

I have reviewed the report of examination of DMEA Docket 4025, dated January 13, 1956, and received in this office January 24. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

As a result of a field examination, the DMEA representatives found only insignificant amounts of uranium mineralization along a fracture in a pegmatite formation on the Lucky Strike No. 1 claim.

The applicants' request to explore the prospect by 225 feet of drifting at an estimated cost of $7,413 was not found a sound proposal by the field team and they have recommended denial.

We agree with the recommendation of the field team that assistance be denied Harold Hopper, et al.

The report is being forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E Crawford
John E. Crawford

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

RECEIVED
JAN 30 1956

January 27, 1956

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John E. Crawford

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

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January 27, 1956

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We agree with the recommendation of the field team that assistance be denied Harold Hopper, et al.

The report is being forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E. Crawford

1-24-56 cbzm

IN REPLY REFER TO:

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

RECEIVED
JAN 24 1956

January 23, 1956

Re: DMEA 4025
Harold Hopper, et al.
Lucky Strike claims
Clear Creek County, Colorado
$7,413.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The applicants requested assistance in exploring by 225 feet of drifting a narrow uranium-bearing slip or joint which, as shown in a 6x6x6-foot pit, cuts pegmatite and biotite schist of the Idaho Springs formation. The secondary uranium in and adjoining the slip where it cuts pegmatite are taken to be precipitates from surface water moving along the joint after having dissolved minor amounts of uranium from primary uranium minerals dispersed in the pegmatite. As noted no uranium minerals are in the joint where it cuts the schist.

A sample cut across one foot of the radioactive zone in the pit assayed 0.14% U_3O_8 and a selected sample from the ore pile assayed 0.12% U_3O_8.

Scintillator traverses beyond the limits of the pit failed to extend the radioactive zone.

The one small showing of secondary uranium minerals, autunite and torbernite, does not warrant the work proposed by the applicants and the examiners and Field Team recommend denial of the application.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
JAN 24 1956

January 23, 1956

Re: DMEA 4025
Harold Hopper, et al.
Lucky Strike claims
Clear Creek County, Colorado
$7,413.00 - Uranium

Memorandum

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I concur with that recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-1/23/56
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

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

RECEIVED
JAN 24 1956

January 23, 1956

Re: DMEA 4025
Harold Hopper, et al.
Lucky Strike claims
Clear Creek County, Colorado
$7,413.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

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I concur with that recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-1/23/56
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

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

RECEIVED
JAN 24 1956

January 23, 1956

Re: DMEA 4025
Harold Hogger, et al.
Lucky Strike claims
Clear Creek County, Colorado
$7,413.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

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Scintillator traverses beyond the limits of the pit failed to extend the radioactive zone.

The one small showing of secondary uranium minerals, autunite and torbernite, does not warrant the work proposed by the applicants and the examiners and Field Team recommend denial of the application.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-1/23/56
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

1-23-56 Lzm

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

RECEIVED
JAN 16 1956

January 13, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4025 (Uranium), Harold Hopper et al., Lucky Strike claims, Clear Creek County, Colorado

Enclosed are the original and three copies of a Joint Report of Examination on the subject property.

The field examiners concur that there is little probability that exploration will result in the discovery of significant uranium deposits on the property and denial of the application is recommended. We concur in this recommendation.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
1-20-56
(date)

RECEIVED
JAN 16 1956

DMEA
Date Rec'd
JAN 12 1956
BUREAU OF MINES
Denver, Colorado

Region III

Building 20
Denver Federal Center
Denver 2, Colorado
January 11, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

TRANSMITTED
JAN 13 1956

From: E. N. Harshman
John F. Shaw

Subject: DMEA Docket 4025 (Uranium) Harold Hopper, et al., Lucky Strike claims, Clear Creek County, Colorado

Enclosed are the original and 9 copies of a joint engineering and geologic report by C. M. Harrer, Bureau of Mines and E. N. Harshman, Geological Survey, covering their examination of the subject property.

The applicants propose to explore for uranium by 225 feet of drifting on the Lucky Strike No. 1 claim at an estimated total cost of $7,413.00.

The examiners found minor amounts of autunite and torbernite localized along a fracture in a Precambrian pegmatite. Significant anomolus radioactivity could not be detected beyond the confines of a small pit on the Lucky Strike No. 1 claim.

There is little probability that exploration will result in the discovery of significant uranium deposits on the property and denial of the application for exploration assistance (DMEA Docket 4025) is recommended.

E. N. Harshman
E. N. Harshman
Member Field Team

Scott W. Hazen Jr
for John F. Shaw
Supervising Mining Engineer

cc 9
ENHarshman
DMEA 4025
Chron
mw

1-20-56

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TRANSMITTED
JAN 1 3 1990

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

RECEIVED
JAN 16 1956

TRANSMITTED

JAN 13 1956

DMEA 4025

Harold Hopper, et al

Lucky Strike Claims

Clear Creek County, Colorado

Uranium

Joint Geologic and Engineering Report

by

E. N. Harshman, Geologist
Geological Survey

C. M. Harrer, Mining Engineer
Bureau of Mines

January 11, 1956

Reviewed by
DMEA OPERATING COMMITTEE
1-20-56
(Date)

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ILLUSTRATIONS

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2. Claim and exploration map, Harold Hopper, et al., Lucky Strike claims, Clear Creek County, Colorado. DMEA 4025	4

DMEA 4025

HAROLD HOPPER, ET AL

LUCKY STRIKE CLAIMS

CLEAR CREEK COUNTY, COLORADO

RECEIVED
JAN 16 1956

SUMMARY

Harold Hopper, Ira L. Scott, and Lawrence Groves, in partnership, have applied for Defense Minerals Exploration Administration assistance to explore their Lucky Strike group of lode claims for uranium at an over-all cost of $7,413.00.

They own the three standard lode claims Lucky Strike Nos. 1, 2, and 3 by right of location. The claims are in sec. 11, T. 4 S., R. 72 W., in the Floyd Hill Mining District. The property is about 29 miles northwest of Denver and 6 miles southeast of Idaho Springs, Colorado.

The claims were examined on November 28, 1955, in the company of the applicants, Harold Hopper and Ira L. Scott.

The property is underlain by Precambrian granite gneiss, hornblende gneiss, pegmatite, and schist. The applicants have excavated one small pit on the Lucky Strike No. 1 claim. In this pit very minor amounts of autunite and torbernite are associated either with a minor fracture in the country rock or with a pegmatitic zone in the metamorphic series.

It is improbable that the deposit exposed on the Lucky Strike No. 1 claim is significant, and it is recommended that the application be denied.

INTRODUCTION AND ACKNOWLEDGMENTS

Harold Hopper of 1660 Hoyt Street, Ira L. Scott of 2021 Quitman Street, Denver, Colorado, and Lawrence Groves of Idaho Springs own three standard lode claims, known as the Lucky Strike Nos. 1, 2, and 3, by right of location. They have applied for DMEA assistance to explore their claims with 225 feet of drift at an over-all cost of $7,413.00. Government participation at 75 percent would be $5,559.75. The examining team was accompanied by Harold Hopper and Ira L. Scott who served as guides over the property. Representatives of the Denver Exploration Branch of the Atomic Energy Commission have examined the property and were consulted on the results of their examination. They concur with the recommendations made in this report.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The applicants' property is on the southeast slope of Saddleback Mountain, in sec. 11, T. 4 S., R. 72 W., 6th meridian, in the Floyd Hill Mining District of Clear Creek County, Colorado (fig. 1). The property is in rough, foothill terrain typical of the Colorado Front Range. It is about 1 mile southwest of U. S. Highway 40 at the crest of Floyd Hill. The property is about 6 miles southeast of Idaho Springs and 29 miles northwest of Denver from which all types of supplies are obtainable. Winters are moderate.

Uranium ores from the Front Range area in Colorado are being shipped to the Salt Lake City, Utah, plant of the Vitro Uranium Co.,

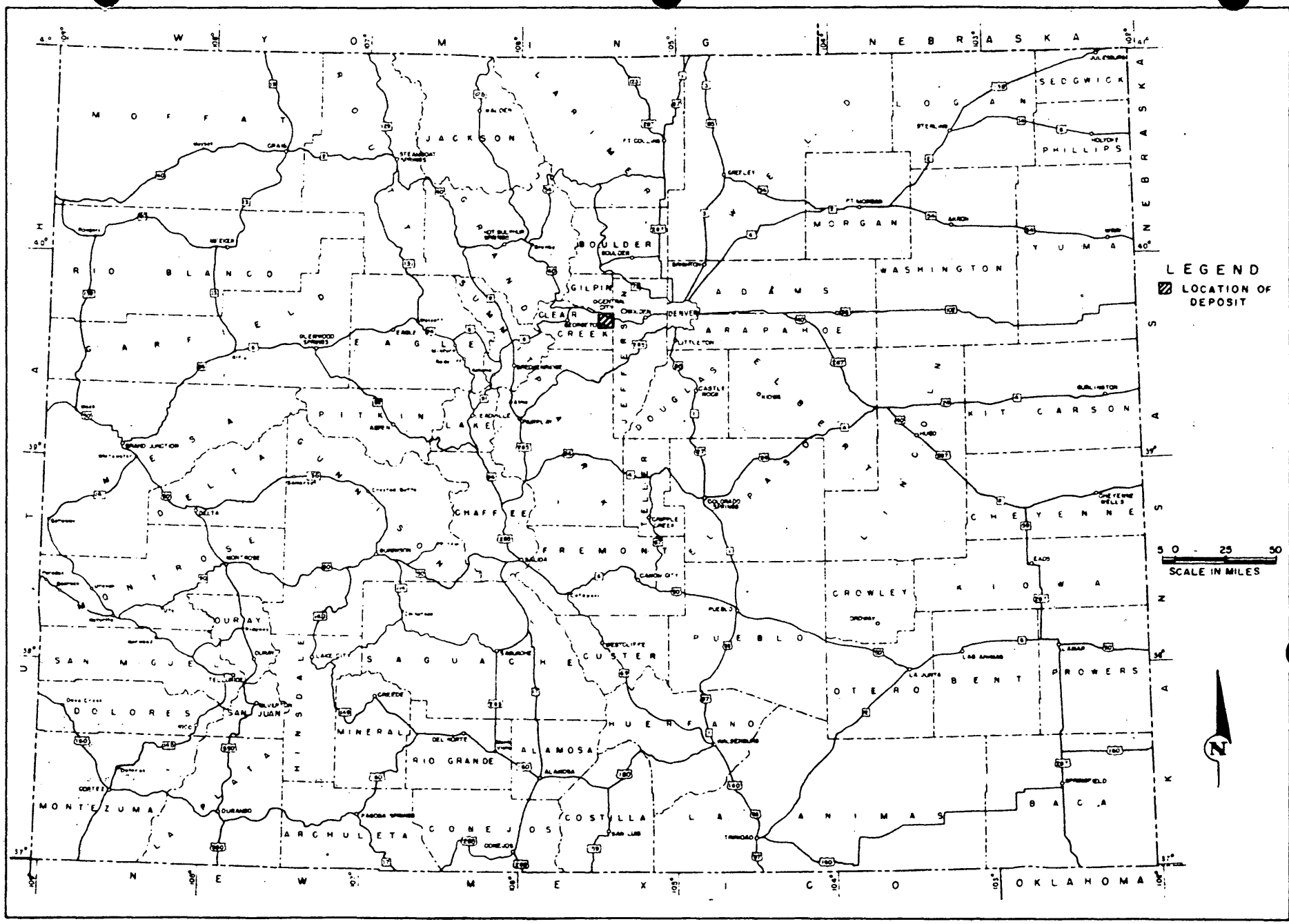

FIGURE 1 - LOCATION MAP, HAROLD HOPPER ET AL., LUCKY STRIKE CLAIMS, CLEAR CREEK COUNTY, COLO. DMEA 4025

operated for the Atomic Energy Commission. Ore with a minimum of 0.2 percent U_3O_8 in carload lots of 40 tons or more is currently being purchased by the Commission. Labor is readily available in the area for small operations.

HISTORY AND PRODUCTION

There has been no production of uranium from the property. It is essentially grazing land for cattle and sheep.

OWNERSHIP

The Lucky Strike claims Nos. 1, 2, and 3 are standard 600- by 1500-foot lode locations registered by Harold Hopper, Ira L. Scott, and Lawrence Groves under Clear Creek County Clerk's Office file numbers 5782, 5783, and 5784. The claims are on the Lawrence Groves ranch, and both surface and mineral rights are held by the partnership.

GEOLOGY

The Lucky Strike claims are underlain by Precambrian metamorphic rocks of the Idaho Springs formation. They appear to lie on a rather broad, indefinite contact between a large area of granite gneiss on the south and an area of more basic biotite schist and hornblende gneiss on the north. The entire metamorphic sequence contains considerable silicious material in the form of pegmatitic zones and as lit-par-lit injections of quartz.

The strike and dip of the schistosity in the metamorphic rocks ranges from N. 40° W., 45° N. in the western part of the Lucky Strike No. 1 claim to N. 89° W., 55° N. in the eastern part of the claim.

According to the applicants, significant radioactivity has been noted only at one place on the claims. Here they excavated a small (6- by 6- by 6-foot) pit and exposed a pegmatitic zone in biotite schist (fig. 2). A small slip or joint, striking west and dipping 70° S., cuts both the pegmatite and schist exposed in the pit. There is no hydrothermal alteration or displacement along the structure, and it appears to be a joint opened somewhat by surface creep. Torbernite and autunite were noted in the pegmatite but not in the schist. The uranium minerals are found in a zone parallel to and extending 6 to 8 inches on either side of the open joint.

Minor low grade concentrations of primary uranium minerals are not uncommon in the pegmatitic members of the Idaho Springs formation but without exception those seen to date have been economically insignificant. It appears that the secondary uranium minerals in this deposit were precipitated from surface water moving along the joint after having dissolved minor amounts of uranium from primary uranium minerals dispersed in the pegmatite.

Two samples of the deposit were taken. H-819 was cut across 1 foot of the radioactive zone in the test pit on the Lucky Strike No. 1 claim. It contained 0.14 percent U_3O_8. H-820 was a hand picked sample of the high grade material in a very small stock pile of material taken from the pit. It contained 0.12 percent U_3O_8.

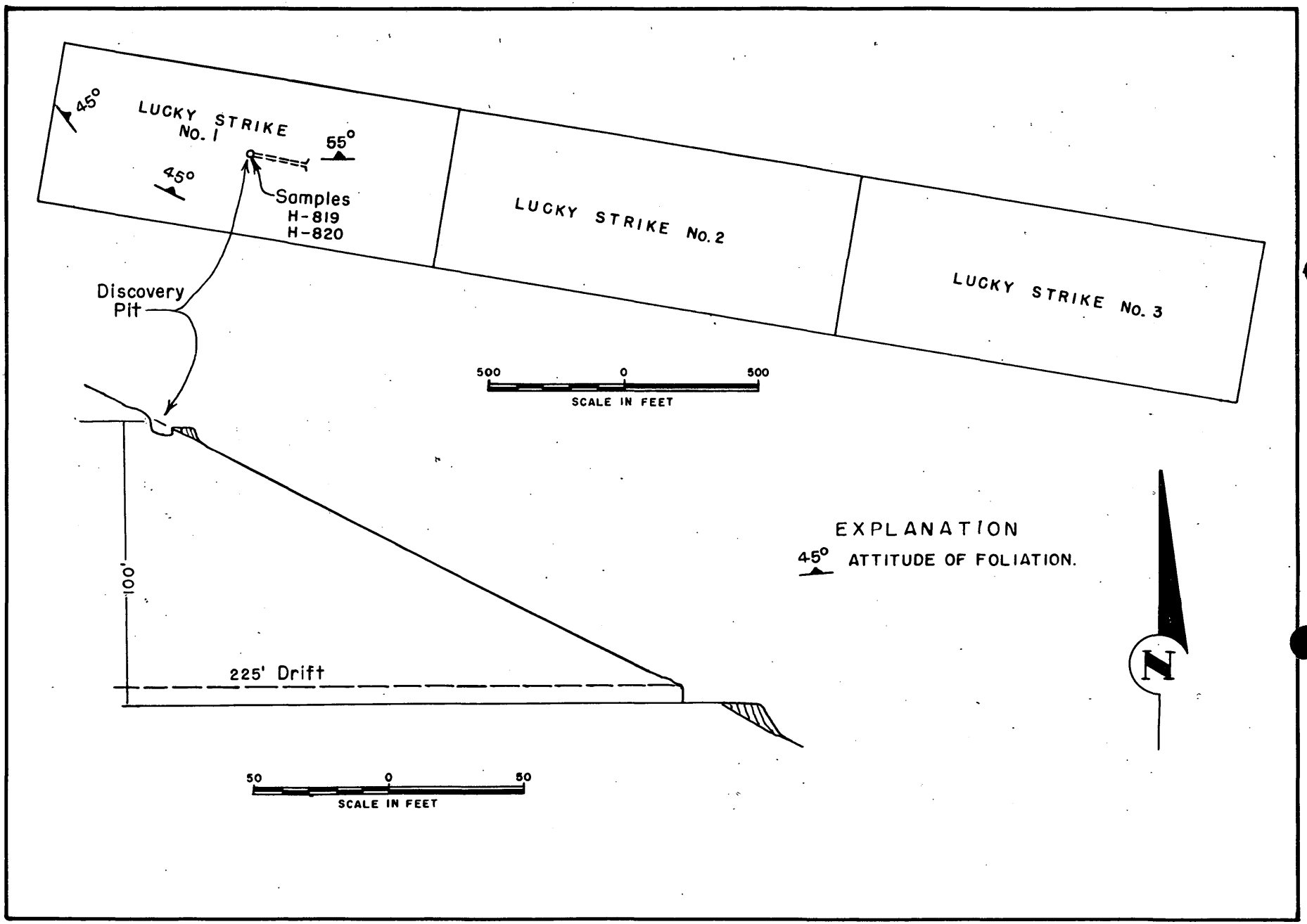

FIGURE 2 – CLAIM AND EXPLORATION MAP, HAROLD HOPPER ET. AL., LUCKY STRIKE CLAIMS, CLEAR CREEK COUNTY, COLO. DMEA 4025

Surface traverses were made with a scintillator in an attempt to extend the radioactive zone beyond the confines of the pit. With the exception of a 2-foot square area about 50 feet N. 45° W. of the pit, which showed an anomolous radioactivity of about 0.10 MR/hr, no anomonously radioactive zones were found.

The fault shown on the applicants' map traversing the three Lucky Strike claims is the same structure (probably a joint) exposed in the pit on the Lucky Strike No. 1 claim and cannot be traced beyond the confines of the pit.

ORE RESERVES

There is no basis on which to make an estimate of ore reserves.

PRESENT STATUS

Exploration and Development

The Lucky Strike No. 1 claim is developed with a 6- by 6-foot pit about 6 feet deep sunk at the location of the highest radiometric readings (fig. 2). Several small cuts have been made at various locations on the claims but they do little more than expose bedrock. Work accomplished by the applicants is only prospecting.

Mining, Milling, and other Facilities

There are no mining, milling or other facilities on the property, and any uranium ore found would be hand sorted and shipped on the instructions of the Atomic Energy Commission.

PROJECT PROPOSALS

The applicants propose to start an adit at a point about 200 feet east and 100 feet vertically below the pit on the Lucky Strike No. 1 claim (fig. 2). They hope to intersect the easterly extension of the mineralized zone exposed in the pit and to then drift on it to a point beneath the discovery pit. There is no evidence that the proposed work would find an eastward extension or a downward projection of the poorly defined, weakly mineralized zone exposed in the discovery pit.

Total cost of the project is estimated at $7,413.00 distributed as follows:

(a) one half mile of access road, estimated construction time of 24 hours at $12/hr.	$ 288.00
(b) 225 feet of 7- by 5-foot drift at $25/foot	5,625.00
(c) Supervision and consultants	1,500.00
	$7,413.00

CONCLUSIONS AND RECOMMENDATIONS

A narrow, poorly defined, weakly radioactive zone in pegmatite, apparently associated with a strong joint in bedrock, is exposed in a single pit on the Lucky Strike No. 1 claim. The uranium is present in the secondary minerals autunite and torbernite. Samples taken by the examining team indicate a U_3O_8 content of 0.12 to 0.14 percent across a width of 1 foot. A scintillometer survey was made in an attempt to extend the radioactive zone beyond the confines of the pit. Extensions of the zone could not be located.

There is no geological reason to assume that the deposit will improve with increasing depth or that it will be extended laterally much beyond the confines of the pit.

Denial of the application for exploration assistance, DMEA Docket 4025, is recommended.

1-17-56 lgm

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

RECEIVED
JAN 16 1956

January 13, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4025 (Uranium), Harold Hopper et al., Lucky Strike claims, Clear Creek County, Colorado

Enclosed are the original and three copies of a Joint Report of Examination on the subject property.

The field examiners concur that there is little probability that exploration will result in the discovery of significant uranium deposits on the property and denial of the application is recommended. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE

1-20-56
(date)

DMEA
Date Rec'd
JAN 12 1956
BUREAU OF MINES
Denver, Colorado

RECEIVED
JAN 16 1956

Region III

Building 20
Denver Federal Center
Denver 2, Colorado
January 11, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman
John F. Shaw

TRANSMITTED
JAN 13 1956

Subject: DMEA Docket 4025 (Uranium) Harold Hopper, et al., Lucky Strike claims, Clear Creek County, Colorado

Enclosed are the original and 9 copies of a joint engineering and geologic report by C. M. Harrer, Bureau of Mines and E. N. Harshman, Geological Survey, covering their examination of the subject property.

The applicants propose to explore for uranium by 225 feet of drifting on the Lucky Strike No. 1 claim at an estimated total cost of $7,413.00.

The examiners found minor amounts of autunite and torbernite localized along a fracture in a Precambrian pegmatite. Significant anomalous radioactivity could not be detected beyond the confines of a small pit on the Lucky Strike No. 1 claim.

There is little probability that exploration will result in the discovery of significant uranium deposits on the property and denial of the application for exploration assistance (DMEA Docket 4025) is recommended.

E. N. Harshman
E. N. Harshman
Member Field Team

for Scott W. Hazen
John F. Shaw
Supervising Mining Engineer

cc 9
EWHarshman
DMEA 4025
Chron
MV

Referred to
DMEA Central Office
1-20-56

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

RECEIVED
JAN 16 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED
JAN 1 2 1956

DMEA 4025

Harold Hopper, et al

Lucky Strike Claims

Clear Creek County, Colorado

Uranium

Joint Geologic and Engineering Report

by

E. N. Harshman, Geologist
Geological Survey

C. M. Harrer, Mining Engineer
Bureau of Mines

January 11, 1956

Reviewed by
DMEA OPERATING COMMITTEE
1-20-56
(Date)

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INTRODUCTION AND ACKNOWLEDGMENTS

Harold Hopper of 1660 Hoyt Street, Ira L. Scott of 2021 Quitman Street, Denver, Colorado, and Lawrence Groves of Idaho Springs own three standard lode claims, known as the Lucky Strike Nos. 1, 2, and 3, by right of location. They have applied for DMEA assistance to explore their claims with 225 feet of drift at an over-all cost of $7,413.00. Government participation at 75 percent would be $5,559.75. The examining team was accompanied by Harold Hopper and Ira L. Scott who served as guides over the property. Representatives of the Denver Exploration Branch of the Atomic Energy Commission have examined the property and were consulted on the results of their examination. They concur with the recommendations made in this report.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The applicants' property is on the southeast slope of Saddleback Mountain, in sec. 11, T. 4 S., R. 72 W., 6th meridian, in the Floyd Hill Mining District of Clear Creek County, Colorado (fig. 1). The property is in rough, foothill terrain typical of the Colorado Front Range. It is about 1 mile southwest of U. S. Highway 40 at the crest of Floyd Hill. The property is about 6 miles southeast of Idaho Springs and 29 miles northwest of Denver from which all types of supplies are obtainable. Winters are moderate.

Uranium ores from the Front Range area in Colorado are being shipped to the Salt Lake City, Utah, plant of the Vitro Uranium Co.,

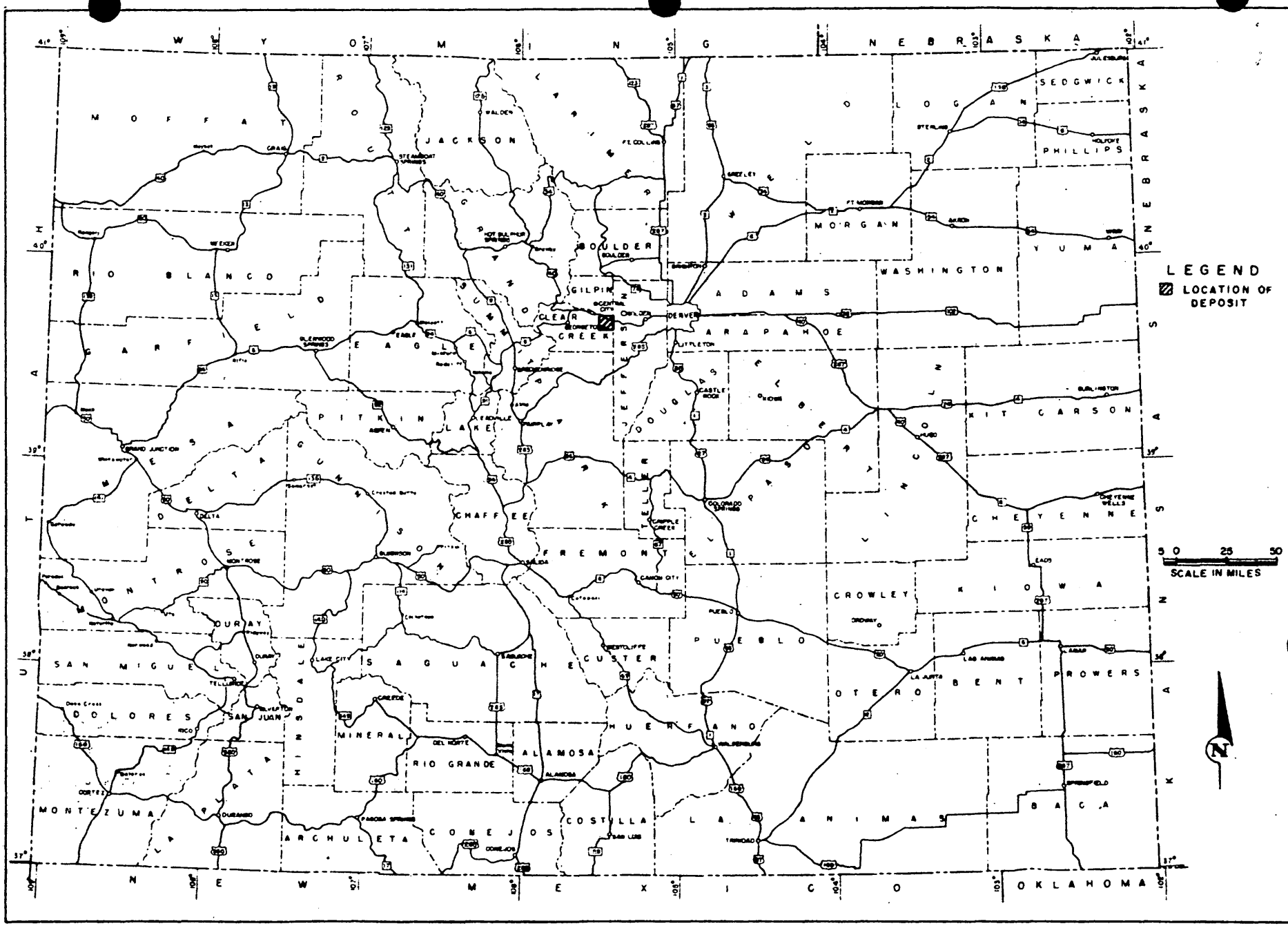

FIGURE 1 - LOCATION MAP, HAROLD HOPPER ET AL., LUCKY STRIKE CLAIMS, CLEAR CREEK COUNTY, COLO. DMEA 4025

operated for the Atomic Energy Commission. Ore with a minimum of 0.2 percent U_3O_8 in carload lots of 40 tons or more is currently being purchased by the Commission. Labor is readily available in the area for small operations.

HISTORY AND PRODUCTION

There has been no production of uranium from the property. It is essentially grazing land for cattle and sheep.

OWNERSHIP

The Lucky Strike claims Nos. 1, 2, and 3 are standard 600- by 1500-foot lode locations registered by Harold Hopper, Ira L. Scott, and Lawrence Groves under Clear Creek County Clerk's Office file numbers 5782, 5783, and 5784. The claims are on the Lawrence Groves ranch, and both surface and mineral rights are held by the partnership.

GEOLOGY

The Lucky Strike claims are underlain by Precambrian metamorphic rocks of the Idaho Springs formation. They appear to lie on a rather broad, indefinite contact between a large area of granite gneiss on the south and an area of more basic biotite schist and hornblende gneiss on the north. The entire metamorphic sequence contains considerable silicious material in the form of pegmatitic zones and as lit-par-lit injections of quartz.

The strike and dip of the schistosity in the metamorphic rocks ranges from N. 40° W., 45° N. in the western part of the Lucky Strike No. 1 claim to N. 89° W., 55° N. in the eastern part of the claim.

According to the applicants, significant radioactivity has been noted only at one place on the claims. Here they excavated a small (6- by 6- by 6-foot) pit and exposed a pegmatitic zone in biotite schist (fig. 2). A small slip or joint, striking west and dipping 70° S., cuts both the pegmatite and schist exposed in the pit. There is no hydrothermal alteration or displacement along the structure, and it appears to be a joint opened somewhat by surface creep. Torbernite and autunite were noted in the pegmatite but not in the schist. The uranium minerals are found in a zone parallel to and extending 6 to 8 inches on either side of the open joint.

Minor low grade concentrations of primary uranium minerals are not uncommon in the pegmatitic members of the Idaho Springs formation but without exception those seen to date have been economically insignificant. It appears that the secondary uranium minerals in this deposit were precipitated from surface water moving along the joint after having dissolved minor amounts of uranium from primary uranium minerals dispersed in the pegmatite.

Two samples of the deposit were taken. H-819 was cut across 1 foot of the radioactive zone in the test pit on the Lucky Strike No. 1 claim. It contained 0.14 percent U_3O_8. H-820 was a hand picked sample of the high grade material in a very small stock pile of material taken from the pit. It contained 0.12 percent U_3O_8.

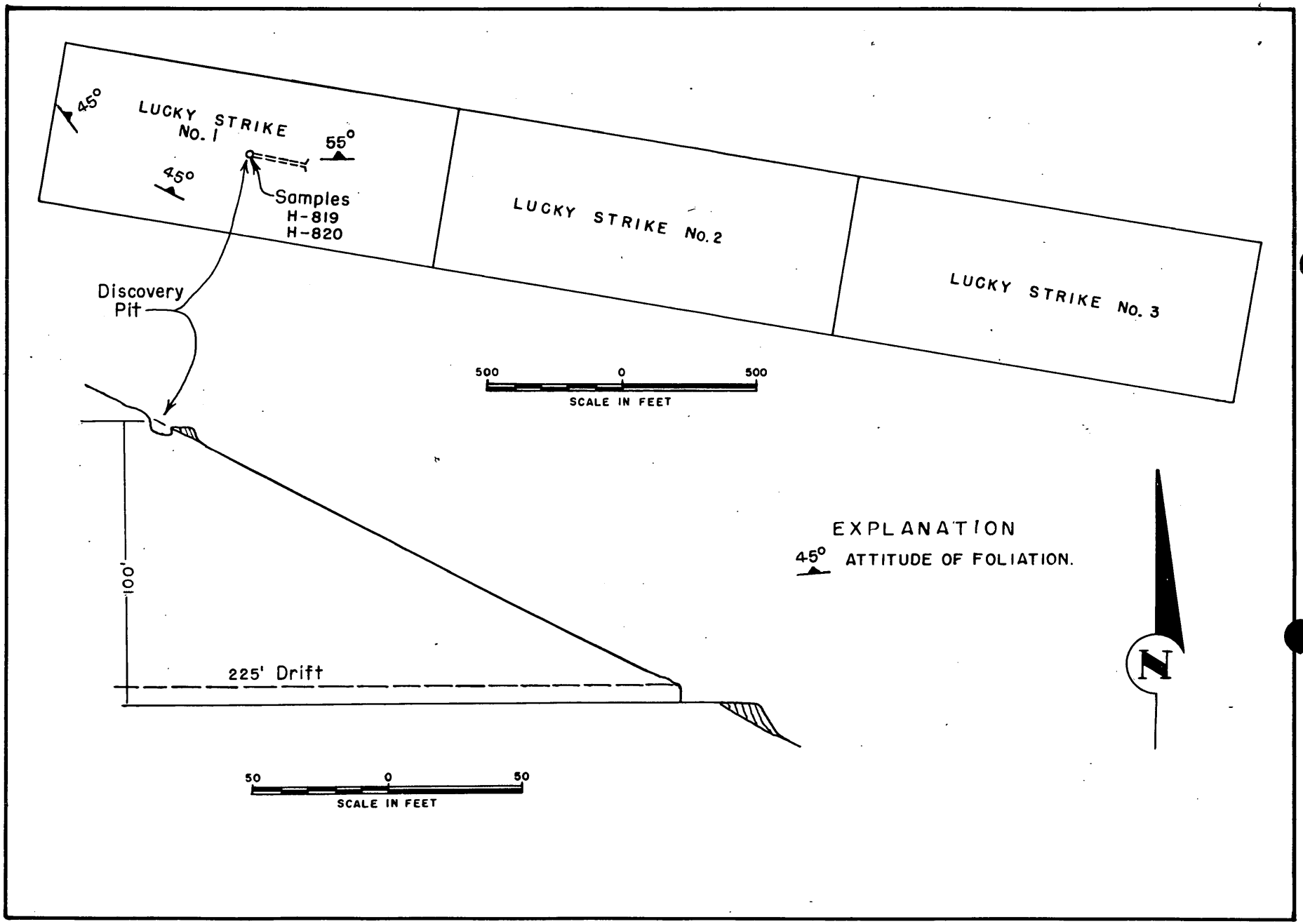

FIGURE 2 – CLAIM AND EXPLORATION MAP, HAROLD HOPPER ET. AL., LUCKY STRIKE CLAIMS, CLEAR CREEK COUNTY, COLO. DMEA 4025

Surface traverses were made with a scintillator in an attempt to extend the radioactive zone beyond the confines of the pit. With the exception of a 2-foot square area about 50 feet N. 45° W. of the pit, which showed an anomalous radioactivity of about 0.10 MR/hr, no anomonously radioactive zones were found.

The fault shown on the applicants' map traversing the three Lucky Strike claims is the same structure (probably a joint) exposed in the pit on the Lucky Strike No. 1 claim and cannot be traced beyond the confines of the pit.

ORE RESERVES

There is no basis on which to make an estimate of ore reserves.

PRESENT STATUS

Exploration and Development

The Lucky Strike No. 1 claim is developed with a 6- by 6-foot pit about 6 feet deep sunk at the location of the highest radiometric readings (fig. 2). Several small cuts have been made at various locations on the claims but they do little more than expose bedrock. Work accomplished by the applicants is only prospecting.

Mining, Milling, and other Facilities

There are no mining, milling or other facilities on the property, and any uranium ore found would be hand sorted and shipped on the instructions of the Atomic Energy Commission.

PROJECT PROPOSALS

The applicants propose to start an adit at a point about 200 feet east and 100 feet vertically below the pit on the Lucky Strike No. 1 claim (fig. 2). They hope to intersect the easterly extension of the mineralized zone exposed in the pit and to then drift on it to a point beneath the discovery pit. There is no evidence that the proposed work would find an eastward extension or a downward projection of the poorly defined, weakly mineralized zone exposed in the discovery pit.

Total cost of the project is estimated at $7,413.00 distributed as follows:

(a) one half mile of access road, estimated construction time of 24 hours at $12/hr.	$ 288.00
(b) 225 feet of 7- by 5-foot drift at $25/foot	5,625.00
(c) Supervision and consultants	1,500.00
	$7,413.00

CONCLUSIONS AND RECOMMENDATIONS

A narrow, poorly defined, weakly radioactive zone in pegmatite, apparently associated with a strong joint in bedrock, is exposed in a single pit on the Lucky Strike No. 1 claim. The uranium is present in the secondary minerals autunite and torbernite. Samples taken by the examining team indicate a U_3O_8 content of 0.12 to 0.14 percent across a width of 1 foot. A scintillometer survey was made in an attempt to extend the radioactive zone beyond the confines of the pit. Extensions of the zone could not be located.

There is no geological reason to assume that the deposit will improve with increasing depth or that it will be extended laterally much beyond the confines of the pit.

Denial of the application for exploration assistance, DMEA Docket 4025, is recommended.

RECEIVED
NOV 17 1955

November 10, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: Acting Supt., Denver Experiment Station, Reg. III

Subject: Docket DMEA 4025 (Uranium), Harold Hopper, et al., Lucky Strike claims, Clear Creek County, Colorado

The above brochure was received in this office on November 9, 1955.

An examination will be made and suitable report prepared by this office.

JOHN F. SHAW

John F. Shaw

cc: 2 w/orig.
E. N. Harshman
Sec. Op. Com. (2)

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E. N. Harshman

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

November 9, 1955

224 New Customhouse
Denver 2, Colorado

RECEIVED
NOV 14 1955

Memorandum

To: J. F. Shaw
E. N. Kareksman

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4085 (Uranium), Harold Hopper, et al., Lucky Strike claims, Clear Creek County, Colorado

Enclosed is the subject application in the amount of $7,413.00. Also enclosed is a copy of a letter from the Chairman of the Operating Committee dated November 3, 1955 and reviews of the application by John E. Crawford and Thor H. Kiilsgaard.

A field examination and suitable report are requested.

W. M. Traver

By M Townsend
/J. W. Townsend

Enclosures

HMC:ab
cc: Sec. Op. Comm. (2)

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

November 9, 1955

RECEIVED
NOV 14 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. F. Shaw
E. N. Harshman

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4025 (Uranium), Harold Hopper, et al., Lucky Strike claims, Clear Creek County, Colorado

Enclosed is the subject application in the amount of $7,413.00. Also enclosed is a copy of a letter from the Chairman of the Operating Committee dated November 3, 1955 and reviews of the application by John E. Crawford and Thor N. Kiilsgaard.

A field examination and suitable report are requested.

W. M. Traver

By J. W. Townsend

Enclosures

HMC:ab
cc: Sec. Op. Comm. (2)

Surname copy

Murphy 700
Ellis
Gechoan
Selfridge
Williams

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

NOV - 3 1955

Harold Hopper, et al.
1660 Hoyt Street
Denver 15, Colorado

Re: Docket No. DMEA-4025 (Uranium)
Lucky Strike claims
Clear Creek County, Colorado

Dear Mr. Hopper:

The application for assistance in exploring the subject property in Clear Creek County, Colorado, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to the Executive Officer of Region III at the following address:

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
22A New Customhouse Building
Denver 2, Colorado

The Regional Office will contact you in regard to your project if additional information is required.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

FMMurphy/gla
10-31-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region III

RCS.

Surname copy

700

Murphy
Ellis
Selfridge
Williams
Jefferson

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

Mr. W. M. Trewar
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

NOV - 3 1955

Re: Docket No. DMEA-4025 (Uranium)
Harold Hopper, et al.
Lucky Strike claims
Clear Creek County, Colorado

Dear Mr. Trewar:

The captioned application is referred to Region III for investigation, a field examination if deemed advisable, and recommendation. A copy of the application was retained by your office.

Enclosed are copies of memoranda, dated October 25, 1955, from Thor H. Kiilsgaard, USGS, and J. E. Crawford, USBM, relating to the subject application.

The assays submitted indicate that the vein contains material of about 0.06 percent U_3O_8 near the surface. With such meager showing, it is doubtful that the proposed 225-foot adit can be justified unless the history of the area indicates that veins of this type show increasing values with depth.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

/s/ Robert W. Geehan (RWG)
Member, Bureau of Mines

W. P. Williams (WPW)
Member, Geological Survey

FMMurphy/gla
10-31-55

cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Murphy

P.C.G.

10/27/55 gla

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

RECEIVED
OCT 26 1955

October 25, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Application for assistance, DMEA Docket 4025, Harold Hopper, Ira L. Scott, and Lawrence Groves, Lucky Strike claims, Clear Creek County, Colorado

I have reviewed the attached application dated October 20 of the Lucky Strike claims, DMEA Docket 4025; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission. I received the application October 24.

The applicant requested, on October 20, 1955, DMEA participation in a uranium exploration program in Clear Creek County, Colorado, which would consist of 225 feet of drifting and one-half mile of road building. The total estimated cost of the project is $7,413.00.

While the cost of drifting at $25.00 per foot seems lower than the average drifting cost of the area, the mining plan appears to be questionable, as no evidence was presented which would indicate that the suspected ore vein is perpendicular to the proposed drift at a point 225 feet from the entrance.

The grades of uranium as indicated on two attached assay reports were 0.068 and 0.063 percent respectively, both of which are below the grade of material purchased by the Atomic Energy Commission.

I doubt that a field examination is warranted, based on the information contained in the subject application; however, Mr. Hosted recommends that the application be referred to the Field Team and that they be requested to consult with D. L. Everhart, Acting Chief, Denver Exploration Branch, Atomic Energy Commission.

John E Crawford
John E. Crawford

Attachment

IN REPLY REFER TO:

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

RECEIVED
OCT 26 1955

October 25, 1955

Memorandum

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

From: Thor H. Kiilsgaard, U. S. Geological Survey

Subject: Review of application, DMEA Docket 4025, Lucky Strike property, Clear Creek County, Colorado.

The applicant proposes to explore the cited property by driving 225 feet of drift. Twenty-four hours of bulldozing also is proposed, this work presumably will be used to build a road from the prospect to U. S. Highway 40. Total cost of the project is estimated at $7,413.00.

It is impossible to determine from the application whether the property warrants exploration or whether the proposed work will be the best type of exploration. From the information presented and from other information on the Front Range uranium veins it would appear that the deposit is weak and does not warrant exploration. Rather than deny the application at this time, however, it is recommended that it be referred to the field for Field Team comments and for a possible examination, should they believe one is necessary.

The applicant might be asked for more information on his proposed work; however, judging from the data submitted, it would probably be expedient to have the Field Team attend to further processing of the application.

Thor H. Kiilsgaard

Thor H. Kiilsgaard

IN REPLY REFER TO:

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

RECEIVED
OCT 26 1955

October 25, 1955

Memorandum

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

From: Thor H. Kiilsgaard, U. S. Geological Survey

Subject: Review of application, DMEA Docket 4025, Lucky Strike property, Clear Creek County, Colorado.

The applicant proposes to explore the cited property by driving 325 feet of drift. Twenty-four hours of bulldozing also is proposed, this work presumably will be used to build a road from the prospect to U. S. Highway 40. Total cost of the project is estimated at $7,413.00.

It is impossible to determine from the application whether the property warrants exploration or whether the proposed work will be the best type of exploration. From the information presented and from other information on the Front Range uranium veins it would appear that the deposit is weak and does not warrant exploration. Rather than deny the application at this time, however, it is recommended that it be referred to the field for Field Team comments and for a possible examination, should they believe one is necessary.

The applicant might be asked for more information on his proposed work; however, judging from the data submitted, it would probably be expedient to have the Field Team attend to further processing of the application.

THKiilsgaard:iml
G-10/25/55

Thor H. Kiilsgaard

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

October 20, 1955

Subject: DMEA-4025
Re:

Harold Hopper, et al
1660 Hoyt St.,
Denver 15, Colorado

Gentlemen:

The receipt of your application dated October 10, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number and referred to the Rare & Miscellaneous Metals 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

60932

October 20, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

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 III.

DMEA 4025 Harold Hopper, 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.

RECEIVED
OCT 1 7 1955

October 17, 1955

4023

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Aid, (Uranium), Harold Hopper, Ira L. Scott, and Lawrence Groves, Lucky Strike claims, Clear Creek County, Colorado

Enclosed are three copies of the subject application in the amount of $7,413.00.

One copy of the application is being retained in our files.

W. M. Traver

W. M. Traver

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED OCT 20 1955 BUREAU OF MINES Denver, Colorado

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. 4025.
Metal or Mineral Uranium
Date Received 10-20-55
Estimated Cost 7,413.
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 Hopper 1660 Hoyt Street Denver 15 Colorado
Partnership: Ira L. Scott 2021 Quitman Street Denver, Colorado
Lawrence Groves Idaho Springs, Colorado

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Three unpatented claims, Lucky Strike No1, Lucky Strike No 2, Lucky Strike No 3, File numbers 5782, 5783, 5784. Located in Section 11, T4S, R72 W, 6Pm, Floyd Hill Mining District, Clear Creek County, Colorado.

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

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

(*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.

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 uranium

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☒ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Oct. 10, 1955

Harold Hopper
(Applicant)

By

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

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

4. (a) No mining had been done, exploration operations consist of, trenching and checking extent of veins with Scintillator, under my supervision, as a partner.

(b) none

(c) Idaho Springs Pre-Cambrian formation in a fault, showing Torbenite and good readings on Scintillator on veins and out-croppings entire length of three claims, also some copper, lead and ~~Zinc~~ Zinc.

(d) Two or three days may be required to build road one half mile to project from US 40, shipping point 20 miles, Golden, Colorado, supply and residence point 5 miles, Idaho Springs, Colorado, and 30 miles, Denver, Colorado.

(e) Man power available Idaho Springs, supplies Denver, Colorado water at claims, electric power one half mile north of claims.

5 (a) driving tunnel, shown on accompaning sketch

(d) Have had many years experience in engineering, have also done prospecting and mining. The past year have been prospecting the front range from Clear Creek to the Platte River, from Floyd Hill to foothills, locating faults and mineralized structures.

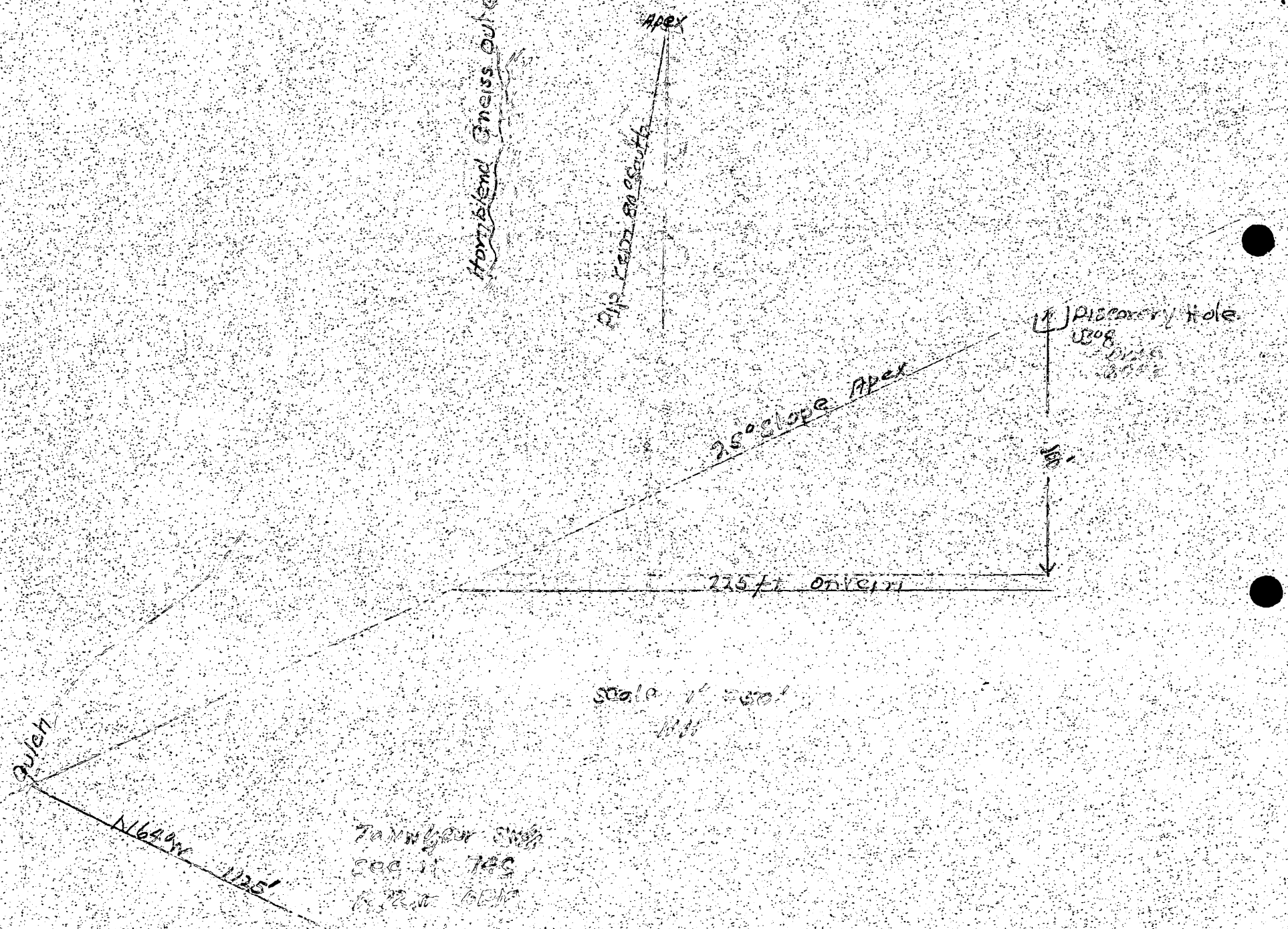
6 (a) Independent contracts. $25.00 per foot of drifting, 225 ft. $5625.00 $12.00 per hour bulldozer operation, 24 hours, 288.00

(b) 1500.00 supervision and engineering and geological consultants

$7413.00

(c)(d)(e)(f)(g)(h) none

7 (b) supervision


Hornblend Gneiss outcrop
Apex
Pin Lead 80 south
Discovery Hole
25° slope Apex
225 ft on vein
Quartz
N 64 W 1125'

Scale 1" = 500'

Top Flat Hill

VS 43

Lucky Strike

Lucky Strike

Lucky Strike

Lucky Strike

gulch

211 CURTIS STREET

TELEPHONE MAin 3-1852

[redacted]

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 5 COLORADO

"URANIUM CENTER"

Folio 6540

Date August 16, 1955.

I. L. Scott,
2021 Quitman,
Denver, Colo.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	URANIUM OXIDE U_3O_8	VANADIUM PENTOXIDE V_2O_5	LIME $CaCO_3$	RADIOMETRIC EQUIVALENT eU	THORIUM OXIDE ThO_2	TOTAL RARE EARTHS	COMBINED COLUMBIUM TANTALUM OXIDES
#1	0.068%						

PLEASE PAY FROM THIS INVOICE AS NO OTHER STATEMENT WILL BE MAILED. THANK YOU.

Charge $ paid.

CHARLES O. PARKER & CO.

CHEMISTS, ASSAYERS and ENGINEERS

2114 CURTIS STREET

TELEPHONE MAin 3-1852

[redacted]

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 5 COLORADO

"URANIUM CENTER"

Folio 6592

Date Sept. 19, 1955.

I. L. Scott,
2021 Quitman,
Denver, Colo.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	URANIUM OXIDE U_3O_8	VANADIUM PENTOXIDE V_2O_5	LIME $CaCO_3$	RADIOMETRIC EQUIVALENT eU	THORIUM OXIDE ThO_2	TOTAL RARE EARTHS	COMBINED COLUMBIUM TANTALUM OXIDES
#2-	0.063%						

PLEASE PAY FROM THIS INVOICE AS NO OTHER STATEMENT WILL BE MAILED. THANK YOU.

Charge $ 5.00

CHARLES O. PARKER & CO.

CHEMISTS, ASSAYERS and ENGINEERS

Crawford

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

October 17, 1955

224 New Customhouse
Denver 2, Colorado

DMEA-4025

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Aid, (Uranium), Harold Hopper, Ira L. Scott, and Lawrence Groves, Lucky Strike claims, Clear Creek County, Colorado

Enclosed are three copies of the subject application in the amount of $7,413.00.

One copy of the application is being retained in our files.

W. M. Traver
W. M. Traver

Enclosures

F-103
(April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DMEA
Date Received
OCT 11 1955
RECEIVED
OCT 20 1955
BUREAU OF MINES
Denver, Colorado

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. 4025.
Metal or Mineral Uranium
Date Received 10-20-55
Estimated Cost ~~4,713.00~~ 741.300
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 Hopper 1660 Hoyt Street Denver 15, Colorado
Partnership; Ira L Scott 2021 Quitman Street Denver, Colorado
Lawrence Groves Idaho Springs, Colorado

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Three unpatented Claims, Lucky Strike Nol
Lucky Strike No 2, Lucky Strike No 3, File numbers 5782, 5783, 5784.
Located in Section 11, T4S, R72W, 6PM, Floyd Hill Mining District,
Clear Creek County, Colorado.

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

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

(*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.

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 uranium

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☒ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Oct. 10, 1955

Harold Hopper
(Applicant)

By

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

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

4. (a) No mining had been done, exploration operations consist of, trenching and checking extent of veins with Scintillator, under my supervision, as a partner.

(b) none

(c) Idaho Springs Pre-Cambrian formation in a fault, showing Torbenite and good readings on Scintillator on veins and out-croppings entire length of three claims, also some copper, lead and ~~lime~~ Zinc

(d) Two or three days may be required to build road one half mile to project from US 40, shipping point 20 miles, Golden, Colorado, supply and residence point 5 miles, Idaho Springs, Colorado, and 30 miles, Denver, Colorado.

(e) Man power available Idaho Springs, supplies Denver, Colorado water at claims, electric power one half mile north of claims.

5 (a) driving tunnel, shown on accompaning sketch

(d) Have had many years experience in engineering, have also done prospecting and mining. The past year have been prospecting the front range from Clear Creek to the Platte River, from Floyd Hill to foothills, locating faults and mineralized structures.

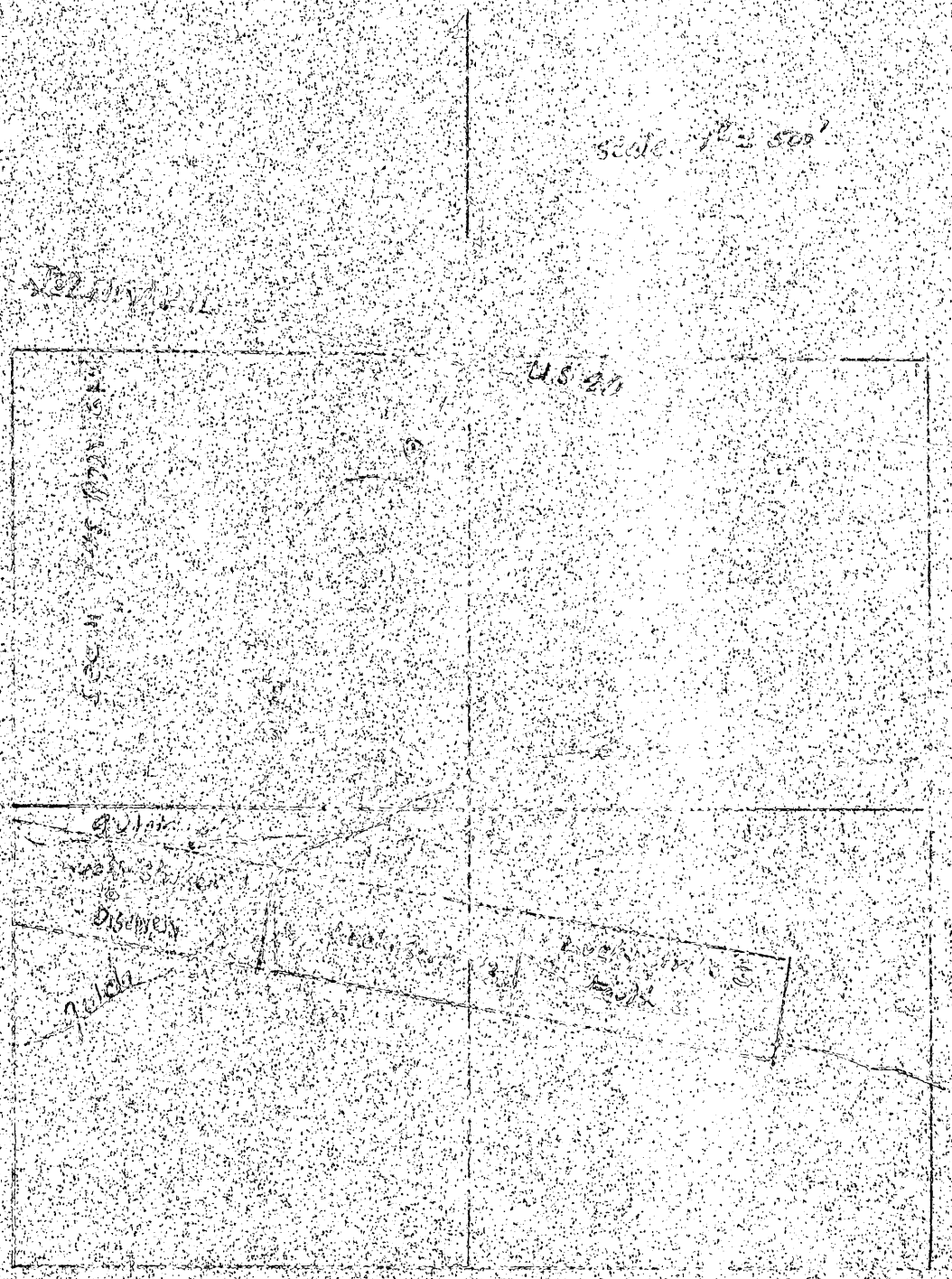
6 (a) Independent contracts. $25.00 per foot of drifting, 225 ft. $5625.00 $12.00 per hour bulldozer operation, 24 hours, 288.00

(b) 1500.00 supervision and engineering and geological consultants

$7413.00

(c)(d)(e)(f)(g)(h) none

7 (b) supervision


Scale 1" = 500'
U.S. 20
Quinn
Discovery
Nelda

Peak
0.066
0.063
25 ft
325 ft. crown
Scale 1" = 50 ft

2114 CURTIS STREET

TELEPHONE MAin 3-1852

[redacted]

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 5 COLORADO

"URANIUM CENTER"

Folio 6540

Date August 16, 1955.

I. L. Scott,
2021 Quitman,
Denver, Colo.

We hereby Certify, that the samples assayed for you gave the following results:

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#1-	0.068%						

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[redacted]

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 5 COLORADO

"URANIUM CENTER"

Folio 6592

Date Sept. 19, 1955.

I. L. Scott,
2021 Quitman,
Denver, Colo.

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