700

FILE COPY
Surname
Murphy
Lamb
Edmonds
Ledgerwood

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

Walkeng Mining Company
2180 Milvia Street
Berkeley 4, California

OCT 15 1956

Re: Docket No. DMEA-4410 (Uranium)
Rough Rider or Lapidaire Group
Washington County, Utah

Gentlemen:

Your application for aid in an exploration project and other information available to us in Washington concerning the above-named property have been reviewed.

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

Careful study of all our information, although noting some uranium mineralization on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. 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 Exploration Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

FMMurphy/izm 10-12-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
DMEA Field Tea, Reg. III (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

Docket

700

Murphy
Ellis

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-4410

Commodity: Uranium

Applicant: Walkeng Mining Company
2180 Milvia Street
Berkeley, California

Property: Rough Rider or Lapidaire group. Lessee of 5 patented claims and owner of 4 unpatented claims situated in secs. 19 and 30, T. 41 S., R. 13 W., SLBM, Washington County, Utah.

Date of Application: July 23, 1956. Note: This is the second application for aid in the same area as DMEA-3913.

Amount of Application: $24,799.00

Referred to Region III: August 23, 1956

Field Examination made: September 11, 1956

Field Team Report received: October 1, 1956

Work Proposed:

20 drill holes varying in depth from 200 to 300 feet, totaling an estimated 5,000 feet of drilling.

Excerpts from Field Team Report:

The first application, DMEA-3913, dated July 18, 1955, involved underground work and diamond drilling costing an estimated $119,548.88. In November 1955, the Applicant submitted a revision of the project proposals. The modified program consisted of 9,900 feet of diamond drilling estimated to cost $42,570.00. The application was denied February 1, 1956.

Sixty-nine holes had been drilled by the company and 5 by the AEC in the proposed project area when the first examination was made by DMEA on September 16, 1955. Company drilling in progress at that time was reported to have been stopped about October 1, 1955 and that no further exploratory has been done on the property.

The drilling completed to date has encountered no minable ore bodies, or indicated an improvement at depth. No uranium has been shipped from the property and none is exposed in accessable parts of the old silver workings.

The present application to explore the area at depth is based on assumptions essentially the same as in the first application. No important new evidence is submitted or could be found by the field examiners to justify the presently proposed exploration.

The field examiners and Field Team recommend denial of application DMEA-4410.

Note: An excerpt of the geology in the claim area may be found in Docket DMEA-3913, "Summary of Proposed Project," dated January 30, 1956.

Commodity Members' Comments:

USGS, W. P. Williams, October 9, 1956:

Mr. Williams notes that the examining team appears to have ample justification for recommending denial of the application, and agrees with their recommendation.

USBM, J. E. Crawford, October 10, 1956:

Mr. Crawford concurs in the Field Team's recommendation to deny the application.

Rare & Miscellaneous Metals Div., F. M. Murphy, October 12, 1956:

The field examiners note that the supposed favorable fracture zones which are implied by the company to represent targets for drilling cannot be shown in the field to have any connection with mineralized areas. Also, there is a well developed set of joints trending about north which are best exposed in an area of poor mineralization.

Conclusion and Recommendation:

This division agrees with the field examiners that no new evidence has been presented which would warrant a change of opinion in regard to the possibilities of the subject property and therefore we concur in the recommendation to deny the application.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

OCT 11 1956

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

RECEIVED
OCT 11 1956

Date 10/10/56

DMEA Docket No. 4410
DMEA Contract No.
Commodity Uranium
Name of applicant Walkeng Mining Company
Name of property Rough Rider or Lapidaire Group
Location of property Washington Co., Utah
Estimated cost of project $24,799

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee
From: John E. Crawford, Bureau of Min es Member
Uranium Commodity Committee
Subject: Review of Field Team Report
(Application, Field Team Report, etc.)

1. Date of subject document: 9/25/56. 2. Date received by reviewer: 10/2/56.

3. Prior reports on this property known to reviewer: Yes [ ], No [x].

4. Prior reports on nearby properties known to reviewer: Yes [ ], No [x].

5. Information available on past production: Yes [ ], No [x].

6. Other pertinent factors known to reviewer: Yes [ ], No [x].

7. Explain items marked yes above:

8. Factors needing special consideration:
   a. Location [ ]
   b. Ownership [ ]
   c. Evidence of mineralization [ ]
   d. Geology [ ]
   e. Proposed exploration method [ ]
   f. Alternate exploration method [ ]
   g. Costs [ ]
   h. _____ [ ]

9. Action advised:
   a. Obtain information from applicant [ ]
   b. Refer to Field Team [ ]
   c. Denial [x] ✓
   d. Agree with Field Team [x]
   e. Disagree with Field Team [ ]
   f. Suggest alternate plan [ ]
   g. Request another examination [ ]
   h. Approval [ ]
   i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary)

Mr. J. O. Hosted, Washington representative of the Atomic Energy Commission, assisted in the review.

OCT 11 1956 gla
IN REPLY REFER TO

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

RECEIVED
OCT 11 1956

October 9, 1956

Memorandum

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

From: W. P. Williams, U. S. Geological Survey

Subject: Review of field examination report, DMEA 4410, Walkeng Mining Company, Rough Rider claims, Washington County, Utah, (uranium).

The examining team reports that the property described in the subject application was previously submitted under DMEA 3913. DMEA 3913 was denied.

Seventy-four holes have been drilled on the property without finding ore. No geologic or structural reasons are present that indicate the presence, or even the possibility, of hidden ore deposits.

The examining team appears to have ample justification for recommending denial of the application, and I agree with their recommendation.

W. P. Williams

W. P. Williams

10/4/56 gla

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

RECEIVED
OCT - 1 1956

224 New Customhouse
Denver 2, Colorado

September 27, 1956

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Report of Examination DMEA Docket 4410 (Uranium) Walkeng Mining Company (Rough Rider or Lapidaire Group) Washington County, Utah

Enclosed are the original and three copies of an engineering and geologic report of examination on the subject property.

The field examiners concluded that there is little possibility of finding significant amounts of uranium ore in the area covered by the Applicant's claims. They recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Reviewed by
DMEA OPERATING COMMITTEE
10-3-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 12, UTAH

TRANSMITTED
SEP 27 1956

DMEA
DEPARTMENT OF THE INTERIOR
SEP 27 1956
REGION III
DENVER, COLORADO
RECEIVED
OCT - 1 1956

September 25, 1956

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-4410 (Uranium), Walkeng Mining Co. (Rough Rider or Lapidaire group), Washington County, Utah

Enclosed are the original and 10 copies of a memorandum report prepared by M. M. Gilkey. The report recommends denial of a request by Walkeng Mining Co. for DMEA assistance in a diamond drilling project on thd subject property.

The present application is the second submitted by the Walkeng Mining Co. to cover property in Washington County, Utah. The initial application under docket No. DMEA-3913 was denied February 1, 1956. The program proposed in the present application is based on assumptions essentially the same as those in the first application. No significant new evidence is submitted to justify the proposed exploration in the second application. The examining engineer recommends that the application for DMEA assistance submitted by Walkeng Mining Co. be denied. I am in accord with the engineer's recommendation.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: W. H. King
J. B. Clemmer

Reviewed by
DMEA OPERATING COMMITTEE
10-3-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 12, UTAH

TRANSMITTED
SEP 21 1956

September 25, 1956

RECEIVED
OCT - 1 1956

Memorandum

To: S. R. Wilson

From: M. M. Gilkey

Subject: Docket No. DMEA-4410, Walkeng Mining Co. (Uranium), Rough Rider mine, Washington County, Utah. Application for DMEA loan

The above-referenced application, dated July 23, 1956, is the second request submitted by the Walkeng Mining Co. for DMEA assistance in a diamond drilling project on the Rough Rider silver-uranium property, Washington County, Utah.

The first application, docket No. DMEA-3913, dated July 18, 1955, involved underground work and diamond drilling costing an estimated $119,548.88. In November 1955, the applicant submitted a revision of the project proposals. The modified program consisted of 9,900 feet of diamond drilling estimated to cost $42,570. The application was denied February 1, 1956.

A field team report pertaining to the first application was transmitted to Washington January 3, 1956.

Seventy-four diamond drill holes, 69 of which were drilled by the company and 5 by the AEC, had already been completed in the proposed project area, at the time of the first examination by DMEA personnel September 16, 1955. It is reported that company drilling in progress at the time was stopped about October 1, 1955, and that there has been no further exploratory work accomplished on the property. The drilling completed to date has encountered no minable ore bodies, or evidence of improvement in grade with depth. No distinct structural features have been observed which may serve as reliable guides to hidden ore bodies. No uranium ore has been shipped from the property and none is exposed in accessible parts of the old silver workings.

In the present application the applicant proposes 5,000 feet of diamond drilling in 20 holes at an estimated cost of $24,799. The proposed program is based on assumptions essentially the same as in the first application; no important new evidence is submitted to justify the presently proposed exploration.

Reviewed by
DMEA OPERATING COMMITTEE
10-3-56
(date)

It is recommended that the request for Government aid be denied.

M. M. Gilkey

M. M. Gilkey

IN REPLY REFER TO:
DMEA
DEPARTMENT OF THE INTERIOR
SEP 19 1956
REGION III
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

TRANSMITTED
SEP 27 1956

September 18, 1956

RECEIVED
OCT - 1 1956
Ec 11/H

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. N. Harshman

From: F. B. Moore

Subject: DMEA Docket 4410 (Uranium), Walkeng Mining Company, (Rough Rider or Lapidaire claim group), Washington County, Utah

On July 23, 1956, the Walkeng Mining Company submitted an application for exploration assistance, DMEA Docket 4410, on the Rough Rider or Lapidaire group of claims in Washington County, Utah. They propose to drill 20 holes ranging from 200 to 300 feet in depth in five areas on the claim group. The estimated cost of the project is $24,799.

This application is the second submitted by the company on the same area; fewer claims are included in this application than in DMEA 3913.

The property was examined on September 11, 1956 by F. B. Moore, U. S. Geological Survey, and M. M. Gilkey, U. S. Bureau of Mines, in company with Mr. Alden H. Hughes, company representative. During the examination no new information was found that would change in any way a previous denial as written by R. W. Osterstock and M. M. Gilkey regarding DMEA application 3913 for the same property.

Reviewed by
DMEA OPERATING COMMITTEE
10-3-56
(date)

Mr. Hughes, vice-president in charge of local operations for the Walkeng Mining Company, was only vaguely familiar with the property. He was not sure that any new holes had been drilled since the last application and could furnish the examining team with no information. A Mr. Edwin J. Poehlman, St. George, Utah, is the geologist who did the recent work for the company leading to the new application. Mr. Hughes apparently had made no effort to have Poehlman present at the time of the examination. An attempt was made to contact Mr. Poehlman in St. George for the purpose of gaining any new information. Mr. Poehlman was out of town.

At least 74 holes have been drilled on the Rough Rider or Lapidaire group by the company and the AEC with no minable ore discovered. Some of the proposed new holes would cut the favorable horizon at greater depths than most of the previously drilled holes which would make mining costs greater than for presently known mineralized areas. There is no reason to believe that the mineralization will improve with depth. The supposed favorable fracture zones which are implied by the company to represent targets for drilling cannot be shown in the field to have any connection with mineralized areas. In fact, there is a well developed set of joints trending about north which are best exposed on the Nevada and northern part of the Rough Rider claims, an area of poor mineralization. The fracture zones are believed to be especially prominent joints. As these joints are spaced about 5 to 10 feet apart, the fracture zones (?) shown on

figure 2 of the brochure are apparently joints conveniently chosen for their location. The others were ignored.

Mr. Dudley Davis of the Atomic Energy Commission, Salt Lake City, was consulted regarding the property. Mr. Davis agrees with the examining team that there is little possibility of finding significant amounts of uranium ore in the area covered by the Rough Rider group of claims.

It is recommended that the application for aid to explore the Rough Rider or Lapidaire group of claims, Washington County, Utah, DMEA Docket 4410, be denied.

F. B. Moore

F. B. Moore

FBMoore:arh

RECEIVED
SEP - 4 1956

DMEA
DEPARTMENT OF THE INTERIOR
AUG 31 1956
REGION III
DENVER, COLORADO

August 30, 1956

Memorandum

To: S. N. Wilson

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4410, Walkeng Mining Company (Uranium) (Rough Rider or Lapidaire group), Washington County, Utah

Enclosed please find the application for Walkeng Mining Company, DMEA 4410, in the amount of $24,799.00.

A field examination and suitable report are required. The completed report should be forwarded directly to the Executive Officer with a copy of the memorandum of transmittal to this office.

W. H. KING
W. H. King

Enclosure

cc: W. M. Traver (3)
E. N. Karshman (2)
Sec. Op. Com. (2)

8/31/56

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

August 28, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4410 (Uranium) Walkeng Mining Company (Rough Rider or Lapidaire group) Washington County, Utah

Your letter dated August 23, 1956 on the subject docket stated that an extra copy of the application was being enclosed for use by this office. This is to advise that the extra copy of the application did not accompany your letter and as yet we have not received it.

W. M. Traver

The extra copy sent - 8-31-56.

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

August 28, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. F. Shaw (2) (With brochure)
E. N. Marshman

From: Field Team, Region III

Subject: Docket DMEA 4410 (Uranium) Walkeng Mining Company (Rough Rider or Lapidaire group) Washington County, Utah

Enclosed is the subject application in the amount of $24,799.00. Also attached for your information is a copy of a letter from the Chairman of the Operating Committee dated August 23, 1956 with memoranda of review of the application by James Paone and N. E. Nelson.

The Chairman's letter notes that there are fewer mining claims involved in this application than in the Walkeng Mining Company's application, DMEA 3913 in which the Canary Bird claims and the John Doe lode claims were also included.

If after the field examination a possible contract is indicated, will you please advise so that we may obtain the required Owner's Consent to Lien.

Will you please return the application with the Report of Examination.

DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

Enclosure
EMC:ab
cc: Sec. Op. Comm. (2)
Docket 4410
Chron.

700

FILE COPY
Surname:
Murphy
Selfridge
Williams

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

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

Re: Docket No. DMEA-4410 (Uranium)
Walkeng Mining Company
Rough Rider or Lapidaire Group
Washington County, Utah

Dear Mr. Traver:

The captioned application is referred to Region III Field Team for investigation, a field examination if deemed advisable, and recommendation.

Enclosed are copies of memoranda dated August 14 and 15, 1956, by James Paone, USBM, and N. E. Nelson, USGS, respectively, relating to the subject application.

In accordance with recent arrangements on "Washington-processed" applications, we are enclosing an extra copy of the application for the use of your office.

You will note that there are fewer mining claims involved in this application than in the Walkeng Mining Company's application DMEA-3913, in which the Canary Bird claims and the John Doe Lode claim were also included.

In the event the Field Team recommends an exploration project, it should advise the Applicant that we will require six copies of the Owners' Consent to Lien on Rough Rider No. 2, Utah, Arizona, Nevada, and Maude lode mining claims, signed by Harry Lapidaire, Gertrude Geta, and Sadie Alexander.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JB)

Enclosures

APPROVED:

FRANK D. LAMB (JB)
Member, Bureau of Mines

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

FMMurphy/izm 8-20-56
Copy to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

700

FILE COPY
Surname:
Murphy
Lamb
Williams
Stoudge
Francis

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

AUG 28 1956

Walkeng Mining Company
2180 Milvia Street
Berkeley 4, California

Re: Docket No. DMEA-4410 (Uranium)
Rough Rider or Lapidaire Group
Washington County, Utah

Gentlemen:

The application for assistance in exploring your property, 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:

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

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

Sincerely yours,
G. O. Mittendorf

Administrator

FMMurphy/zim 8-20-56
cc to: Docket
Code 7 0
Mr. Murphy
Admr.'s Reading File
DMEA Field Team, Reg. III (2)

8/17/56

IN REPLY REFER TO:

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

RECEIVED
AUG 17 1956

August 15, 1956

Re: DMEA 4410
Walkeng Mining Co.
Roughrider mine
Washington Co., Utah
$24,799.00 - Uranium

Memorandum

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

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

Subject: Review of application.

This application is the second request for assistance in exploring, by drilling, members of the Chinle formation which sampling in old silver mine workings and drilling have shown to be uranium-bearing.

Application 3913 first requested assistance in an underground work and drilling program estimated to cost $119,548.88. A revised program to cost $42,570 was substituted. The application was denied February 1, 1956.

Ten drill holes appear to have been drilled in the Arizona-Maud section in the meantime. The present application for assistance on a smaller drilling program is supported by the same information as was used in justification of the former application and a cross section showing in elevation the location, in old and new drill holes, of the mineralization encountered. Of the mineralization encountered in 18 holes in the Arizona-Maud section none is labelled ore and no measure of the mineralization is given. Ten of the 18 holes are new, and 8 are old holes. The present application proposes 9 holes for the Arizona-Maud section. None had been proposed for that section in application DMEA 3913.

The new drilling would seem to have been prompted by surface sampling of outcrops and old cuts on the Arizona and Maud claims and holes of the old series. Three surface samples indicate the presence of ore grade material but, as said above, the drilling probably found no ore as none is mentioned.

Drilling, 11 holes, is again proposed for the Roughrider section much as originally proposed. Close drilling had failed to show minable concentrations of uranium in the down dip extension

of a bed in which silver mining had been done.

In the opinion of the examiners"....no geologic evidence is present on the property of the Walkeng Mining Co., to indicate that significant uranium deposits will be found by the proposed exploration". And "Known uranium mineralization on the Walkeng property as disclosed on the outcrops or in drill holes appears to be very spotty and low grade. Because of the lack of known ore controls no planned exploration program appears possible. The program as proposed by the applicants must therefore be considered prospecting". Field examiners' reports, transmitted January 3, 1956.

The meagre new data submitted would seem to confirm the opinion quoted above, but referral to the Field Team for a reappraisal is recommended.

N. E. Nelson

N. E. Nelson

8/15/56

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

August 14, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: James Paone, Bureau of Mines Alternate Member
Uranium Commodity Committee

Subject: Application for Assistance, Docket DMEA 4410, Walkeng Mining Company, Washington County, Utah

I have reviewed the attached application Docket DMEA 4410, Walkeng Mining Company, Washington County, Utah, dated July 23 and received in this office August 10, 1956. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant is desirous of exploring for uranium with Federal participation in a program consisting of 5,000 feet of drilling at a total estimated cost of $24,799.

It is recommended that the application be referred to the field team for appropriate action; perhaps the field may have some pertinent information regarding the subject area. Consultation by the field team with A. E. Granger, Manager, Salt Lake Area Office, Atomic Energy Commission, Salt Lake City, Utah, is also recommended.

James Paone

James Paone

Attachment

RECEIVED
AUG 15 1956

August 6, 1956

Walkeng Mining Co.
2180 Milvia Street
Berkeley, California

Subject: DMEA-4410
Re: Exploration Assistance
Rough Rider or Lapidaire
Group

Gentlemen

The receipt of your application dated July 23, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4410 and referred to the Rare & Misc. 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

August 6, 1956

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
-4410 Walkeng Mining Co.
Rough Rider or Lapidaire Group

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
AUG - 3 1956

July 31, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Application for DMEA Aid (Uranium) Walkeng Mining Company (Babylon Claims Nos. 1-4), Washington County, Utah

Enclosed are three copies of the subject application in the amount of $24,799.00. One copy is being retained in our file.

No assay returns accompanied the application. It is noted that the Applicant intends to perform his own drilling and has submitted no competitive bids.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

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

July 31, 1956

224 New Customhouse
Denver 2, Colorado

Mr. Ray B. Wiser, President
Walkeng Mining Company
2180 Milvia Street
Berkeley 4, California

Re: Application for DMEA Aid (Uranium)
(Babylon Claims Nos. 1-4) Washington
County, Utah

Dear Mr. Wiser:

This will acknowledge receipt of your letter dated July 23, 1956 and four copies of the captioned application.

Your application is being forwarded the Washington Office, DMEA, for further processing and should additional information be required, you will be advised.

Very truly yours,

W. M. TRAVER,

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

HMC:ab

cc: Sec. Op. Comm. (2)
Harshman
Docket
Chron.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
AUG - 3 1956

Date Rec'd.
JUL 31 1956
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. 4410.
Metal or Mineral Uranium
Date Received 8-3-56
Estimated Cost $24,799.00
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: Walkeng Mining Company
2180 Milvia Street
Berkeley, California

(*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. See page 1 of attachment.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. See page 1 of attachment

(*d*) If a partnership, add to the above statement the names and addresses of all partners. Not applicable.

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 See page 2 of attachment.

(*b*) State any mine name by which the property is known. Rough Rider group or Lapidaire group.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee.
Lessee of 5 patented claims, owner of 4 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. Copy of Lease Agreement is attached, appendix #1.

(*e*) If you own the land, describe any liens or encumbrances on it Not applicable.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See page 2 of attachment.

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 appendix #2.

(*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 minerals.

(*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 appendix #2.

(*c*) The work will start within 30 days and be completed within 6 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See appendix #2.

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 Appendix #3.

(*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)? Yes.

(*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. See appendix #4.

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 July 23, 1956

Walkers Mining Company
(Applicant)

By Ray B. Wiser
President

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

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Attachment to:
Application for Aid in an Exploration Project
Pursuant to DMEA Order 1.

Item 1, (b). Walkeng Mining Company is a corporation organized under the laws of the State of California, and authorized to do business in the States of California and Utah.

(c) The titles, names and addresses of the officers are as follows:

President, Mr. Ray B. Wiser
2180 Milvia Street
Berkeley, California

Vice Pres., Mr. Alden H. Hughes
2180 Milvia Street
Berkeley, California

Treasurer, Mr. Emerson E. Wiser
2180 Milvia Street
Berkeley, California

Secretary, Mr. Edson Abel
2180 Milvia Street,
Berkeley, California

Walkeng Mining Company
2180 Milva Street
Berkeley, California

Attachment to:
Application for Aid in an Exploration Project
Pursuant to DMEA Order 1.

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Item 3, (a). The property with which this application is concerned consists of 5 patented mining claims and 4 unpatented mining claims.

The 5 patented claims were patented under Mineral Survey No. 6849 and are described as the Utah, Rough Rider No. 2, Airzona, Nevada and Maud Lodes, located in the Harrisburg Mining District, in Washington County, Utah; and further, lie almost wholly in the SE¼ of Section 19 and the N½ of Section 30, T 41 S, R 13 W, SLB & M. Date of Patent is December 31, 1925.

The 4 unpatented claims were located on July 10, 1955 and are known as the Babylon mining claims, numbered from 1 to 4 inclusive. The claims lie adjacent to the patented claims. Arizona, Maud and Utah, in the Harrisburg Mining District, in Washington County, Utah; and further, are located in the center of Section 30, T 41 S, R 13 W SLB & M.

(f). The 4 unpatented claims described above were recorded at the Washington County Court House in St. George, Utah, on September 9, 1955.

The names and book and page numbers are listed as follows:

Babylon No. 1	Book X-36, page 119.
Babylon No. 2	Book X-36, page 120.
Babylon No. 3	Book X-36, page 121.
Babylon No. 4	Book X-36, page 122.

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Appendix #1

COPY OF LEASE AGREEMENT

LEASE AGREEMENT

This lease, made the 6th day of December 1954, by and between HARRY LAPIDAIRE, GERTRUDE GETZ and SADIE ALEXANDER, all of the City and County of San Francisco, California, parties of the First Part, herein called lessors, and WALKENG MINING COMPANY, a California corporation, party of the Second Part, herein called lessee,

WITNESSETH:

That lessors, for and in consideration of the rents, royalties, covenants and agreements hereinafter reserved, and by lessee to be paid, kept and performed, have let, and by these presents, do let unto the said lessee, all of the following described patented lode mining claims, situated in the HARRISBURG MINING DISTRICT, County of Washington, State of Utah, to wit:

Rough Rider No. 2 Lode Claim
Utah Lode Claim
Arizona Lode Claim
Nevada Lode Claim
Maude Lode Claim

all in Sections 19 and 30, Township 41 South, Range 13 West Salt Lake Base and Meridian, all embraced in Mineral Survey No. 6849, and comprising 101.081 acres, more or less, together with all appurtenances.

To have and to hold unto said lessee for the term of ten (10) years from the date hereof and so long thereafter as commercial mining operations are conducted in and upon said premises; provided, however, that if lessee shall fail for a period of six months to conduct mining operations upon the said property and such failure shall not be excused under the provisions of Paragraph 3 of this lease, such failure shall constitute conclusive evidence that commercial mining operations are not conducted upon said mining promises, and shall entitle lessor on thirty days written notice to terminate this lease and recover possession of said premises.

COVENANTS OF LESSEE

1. In consideration of the said lease, the said lessee does covenant and agree with lessors as follows:

(a) Within six months from date hereof to enter upon said premises and commence active mining operations thereon; within one year from date hereof to expend in actual mining operations conducted upon the said premises, exclusive of any general administrative and overhead expense, a sum of not less than Five Thousand Dollars. Thereafter and at all times during the term of this lease, lessee will diligently conduct and continue mining operations

upon the said property. It will conduct all such operations in a good and miner-like manner according to approved practices prevailing in like mining operations so as to remove the maximum quantity of ore and minerals from the said premises with due regard to the safety, development and preservation of the property as a workable mining enterprise.

(b) To well and sufficiently timber all workings within said premises at all points where proper and to keep the same in good repair.

(c) To allow lessors and their agents to enter upon and into all parts of said premises for the purposes of inspection and the removal of samples of ore and minerals.

(d) To occupy and hold all cross or parallel lodes, dips, spurs, feeders, crevices or mineral deposits of any kind which may be discovered under this lease in the name of lessors, with privilege to lessee of working any such discoveries as an appurtenance of said demised premises during the term of this lease; and to not locate or record the name or allow the name to be located or recorded except in the names of lessors.

(e) To keep at all times the drifts, shafts, tunnels and other passages and workings of said demised premises thoroughly drained and clear of loose rock and rubbish at all times.

(f) To keep true and accurate books of account showing the amount of ore and the minerals extracted from said premises and the amount of ore and minerals shipped, sold, or treated and the amount of money received from the sale of such ores and minerals or the values extracted therefrom; from and out of the moneys received from the ores and and minerals so extracted, and which may be found in, upon, or around said premises, and reduced, treated, sold or shipped, lessee will pay lessors, divided in equal amounts to each, ten (10) percent of the gross proceeds thereof; provided, that lessee will first pay said ten (10) percent of all moneys so received in accordance with the terms of a certain agreement, entered into between lessors, dated the 14th day of October, 1954, copy of which is attached hereto until the term of said agreement shall have been satisfied. Said books of account shall be open at all reason-

able times to lessors and their representatives. Gross proceeds shall mean all moneys received or payable to lessee arising from the sale or other disposition of any ore or minerals including to the extent allowed by law, any and all bonuses, allowances, or premiums paid by the Atomic Energy Commission or any purchaser of said ores or minerals, after deducting, however, (a) any haulage allowance paid or allowed by said Commission or any such purchaser, and (b) the usual and normal cost of sampling, smelting, and treatment charges; but not deducting any expense of haulage paid or incurred by lessee over and above the amount of any such haulage allowance. All money due lessors hereunder shall be paid within ten days after received by lessee.

(g) To comply with the provisions of the Workman's Compensation Act of the State of Utah and the Federal Social Security Act and all other legislation federal and state applicable to the working and operation of the said mining premises; and to make all payments, returns, and reports required by such acts, and at all times protect

and save harmless and said premises and lessors of and from any and all claims, actions, suits, liabilities for damage or compensation for any matter or thing arising out of the work and operations conducted in and upon said premises.

(h) To not assign this lease or any interest thereunder, and to not sublet the said premises or any part thereof without the written consent of lessors first had and obtained and to not allow any person or persons except lessee to take or hold possession of said premises or any part thereof under any pretense whatever.

(i) To pay promptly for all labor performed and materials furnished and used in connection with any operations upon said premises and to not allow any claim or lien for any such labor or materials to be effectively made or asserted against said premises or against lessors, and to keep said premises at all times posted with notices to protect the same against liens in accordance with the statutes of the State of Utah.

(j) If the boundaries of said claims are not plainly marked with monuments upon the ground, to survey

Said premises and establish such boundaries with suitable and proper monuments.

(k) To keep accurate maps and geological information showing the location, extent and character of all underground working and geological information; to permit lessors at all reasonable times to examine all such maps and geological information and upon termination of this lease, to deliver all such maps, records, and information to lessors without cost.

PAYMENT OF TAXES

2. Lessee shall pay and discharge before dalinquency, all occupation taxes which are or may hereafter be levied or assessed upon or in connection with mining operations upon said premises under the provisions of Title 59, Utah Code Annotated 1953, or any amendment thereof, or which may hereafter be imposed or exacted upon the severance of any ore or minerals by the State of Utah. Lessee shall also pay and discharge before delinquency the amount of any general taxes which may be imposed upon any machinery, equipment or property owned or placed by it upon said premises, and shall protect and preserve lessors and said premises from the lien or imposition of any such taxes. Lessor shall pay

the general property taxes upon said mining premises based upon the net proceeds arising therefrom or determined as otherwise provided by law. Lessee shall keep and maintain all records necessary to determine any of such taxes, and, as required by law, shall make true and accurate returns to the State Tax Commission of Utah.

FORCE MAJEURE

3. Neither party hereto shall be liable to the other for the failure to perform any obligation hereunder, except an obligation to pay money, during such time as the failure to so perform is due to acts of God, war, strikes, governmental restrictions, or weather conditions making mining operations unfeasible.

TERMINATION IN THE EVENT OF DEFAULT

4. If lessee shall default for a period of thirty days in the payment of any money hereunder, whether the same be payable to lessors or third persons, lessors may forthwith terminate this lease. If lessee shall default in the performance of any convenant or condition of this lease other than for the payment of money and such default shall not be excused under the provisions of paragraph 3 above, and such default shall continue for a period of thirty days after lessors shall have notified lessee in writing of such default and required that the same be cured, then lessors may forthwith terminate this lease and recover immediate possession of said premises.

RIGHT OF LESSEE TO TERMINATE

Lessee shall have the right to terminate this lease at any time on thirty days notice to lessors. Upon such termination, lessee shall be relieved of all further obligations hereunder, except such obligations as may have accrued on the date of termination. Lessee shall have a period of two months after the date of termination in which to remove from said premises all tools, machinery, equipment and movable buildings placed by it thereon; but lessee shall not remove any ties, rails, pipes or timber in place below the surface or fixed parmanent improvements.

RECORDING

6. Lessee covenants not to record this lease. If lessee shall record in breach of this covenant, then lessors shall be entitled to terminate unless lessee shall on thirty days notice deliver to them a quitclaim deed, which lessors shall be entitled to place of record on any termination of this lease.

SUCCESSION

7. This lease and all of the terms and provisions thereof shall inure to the benefit of the successors and assigns of lessors, but only if assignment shall be consented to in writing by lessors shall the same be binding upon and inure to the benefit of the assigns of lessee.

NOTICES OF PAYMENTS

8. Any notice herein required shall be sufficiently given if transmitted by registered mail, and shall be directed, if to lessors, to Harry Lapidaire, 1924 Grove Street, San Francisco, California, and if to lessee, to Walkeng Mining Company, 2054 University Avenue, Berkeley, California. All payments herein required to be made shall be mailed to said Harry Lapidaire at the above address.

IN WITNESS WHEREOF, lessors have affixed their signatures to this agreement and lessee has caused the same to be executed by its officers thereunto duly authorized the day and year first above written.

s/ HARRY LAPIDAIRE

(SEAL)

(Duly Acknowledged)

s/ GERTRUDE GETZ

s/ SADIE ALEXANDER

LESSORS

WALKENG MINING COMPANY

(SEAL)

(Duly Acknowledged)

By s/ RAY B. WISER
Its President

and s/ EDSON ABEL
Its Secretary

LESSEE

Walkeng [illegible]ing Company
2180 Milvia Street
Berkeley, California

Appendix #2

PHYSICAL DESCRIPTION OF THE PROPERTY
&
THE EXPLORATION PROJECT

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Berkeley, California

Item 4 (a).

The Lapidaire group of claims were located first in 1875 when silver was first found and produced from the Silver Reef formation in the Harrisburg Mining District. Prospect holes are found every few feet along the strike of the outcrop. Five areas along the strike have been mined and these have been defined on the accompanying map, fig. 2. Some of the old workings are accessible and have been mapped. More recently the Walkeng Mining Company has conducted an exploratory drilling program on the property.

Information from the mapping of surface geology and accessible underground workings has been combined with the information gained from the drilling to propose certain well defined areas where it is expected that ore-grade material will be found.

Item 4 (b).

Past production cannot be estimated for this particular group of claims. The past production of the whole Silver Reef is estimated at $8,000,000 in silver values from 1869 to 1930. Recent production of uranium ores from the whole Silver Reef is estimated not to exceed 700 tons with grades averaging .30% U_3O_8, 4.0 ounces of silver, 1.8% V_2O_5, and 1 to 2 percent copper. No recent production has been made from the Lapidaire group.

Item 4 (c).

The Lapidaire group of claims is located on the east flank of the Virgin Anticline. The claims cover outcrops of the middle Triassic Chinle formation. The outcrops are locally known as the Leeds and Tecumseh sandstones, or combined, as the Silver Reef sandstone.

The Silver Reef sandstone outcrops around the nose and along the flanks of the Virgin Anticline throughout its entirety. The Northermost portion around the nose, and that part extending down each flank for about 2 miles has contained all the past major producers of silver ores. This same area today contains all the ore-grade uranium-silver mineralization that has been discovered. It is to be noted that the Lapidaire group of claims is within this apparently favored area.

The general distribution of the formation is shown on the accompanying index map, fig. 1. The mineral deposits are located

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Item 4 (e) cont.

on the nose and flanks of the north-plunging Virgin Anticline. The anticline has a strike of about N 40° E and a length of about 14 miles to the south where it opens into the Virgin River Basin.

Mineralization occurs in the various units of the Triassic Chinle formation. Formations exposed in the area range upward from the Triassic Moenkopi to the Jurassic Navajo. The Moenkopi shales are exposed in the eroded core of the anticline to the west of the clains. The Shinarump conglomerate and the Chinle sandstones and shales make up the tilted beds on the flanks of the anticline and the Navajo sandstone forms the jagged cliffs which rise to the east of the clains.

Locally the Chinle has been divided into seven members as follows:
(1) the Duffin shales,
(2) the Tecumseh sandstone,
(3) the Leeds sandstone,
(4) the Trail Hill shale,
(5) the Fire Clay Hill shale,
(6) the Hartley sandstone,
(7) the Hartley shale.

Mineralization has been found in the Leeds and Tecumseh sandstones, the two of which combined are called the Silver Reef sandstone which has produced all of the silver and uranium ore mined to date. The particular outcrop of Silver Reef sandstone which is covered by the Lapidaire group in part is locally called the East Reef.

The Leeds is a light colored fine-grained sandstone, usually buff or white. Thickness varies up to 60 feet. The Tecumseh is a dark colored fine-grained sandstone, usually lavender, gray or red in color and up to 70 feet thick. Both units contain numerous beds of fossil wood trash and clay galls which form the host rock for the mineralized depositions. The Leeds is usually massive and trash beds are unconformable while the Tecumseh is more often think bedded and accumulations of trash may be conformable as well as not. The beds dip an average of 35° to the east.

Major faulting in the area strikes in a northeast direction. None of these appear to penetrate the Lapidaire group area and are not thought to be important in consideration of this group. Joints or small faults of little displacement strike in a north or northwest direction and have a strong control over deposition of ore.

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Item 4 (c) cont.

Apparently during Leeds time, the top of the formation was filled over with fossil wood trash and other debris. Some of this was later removed by meandering streams, leaving remnants standing high which were subsequently covered with the reworked Leeds and later the Tecumseh sands. From the many profiles made it is apparent that the orebodies and other mineralization have deposited in these trash filled "highs" where the Leeds sandstone is measured the thickest. This is borne out by the fact that the old silver mines are also concentrated in areas of thicker Leeds sandstone. For graphical confirmation of these ideas, please refer to figures 2 and 3. These illustrations were prepared from logs of a series of holes drilled on the Arizona and Maud claims and field observation of the outcrop and old mines on the whole group. The coincidence of mining and mineralization with the thickened Leeds sandstone is confirmed by both.

Mineralization occurs in beds of fossil trash from 1 to 20 feet thick. Orebodies are lenticular in shape, are flat but follow the dip of the beds, and are usually elongate in the direction of the major fracture systems. Most uranium mineralization occurs as Carnotite and Autunite which is deposited in the trash beds, in the fossil wood itself, in open fractures and as disseminations thru the surrounding porous sandstones.

Silver, vanadium and copper mineralization is also found in the beds. Vanadium and uranium minerals are found together, Sometimes the Silver is found with these two but often they are separate. Copper is usually found around the periphery of the zone of uranium-vanadium and silver mineralization.

It is to be noted that some of the orebodies in the Silver Reef formation have attained sizes up to 400 feet long and 200 feet wide, and that the deepest workings are 330 feet below the surface, extending in some cases 400 to 500 feet down the dip.

Along the East Reef the mines are on the average smaller than those on the west flank of the anticline. The Duffin is probably the largest but was mined to only about 180 feet in depth. It is not known whether this was due to lack of mineralization or difficulty of mining. The proposed drilling will vary in depth from 200 to 300 feet which is within the maximum depth mined in the formation.

It has been observed in many old mines and some recently discovered deposits of ore, that the orebodies tend to strike in a north or northwest direction. Coincident with this is the fact

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Item 4 (c) cont.

that most of the fracture and joint patterns strike in that same direction. In one recent mining operation, ore was definitely controlled by fracture planes crossing the trash beds. The fractures apparently acted as solution passageways and mineralization decreased in the direction away from the fracture. It is seemingly apparent then that intersections of thicker Leeds sandstone and strong systems of fracturing account for most of the ored deposits in the area. Although these two patterms are not exactly parallel, they are in some cases nearly so, especially in the Lapidaire group area. Unmined and unexplored projections of these zones then may be expected to favor the probability of discovery of new orebodies.

The strong patterns indicated above exist throughout the mining district and it is reasonable to assume that they may be projected down the dip of the formations to greater depths than have been mined in the past. For this reason certain areas have been defined in fig. 2 as areas which have the greatest probability for the finding of undiscovered orebodies. It is proposed that these areas be explored for mineralization because of their favorability.

Item 4 (d)

The project is easily accessible to all types of vehicles and equipment from U. S. Highway 91 by about 3 miles of good dirt road. The town of Leeds is on U. S. 91 3 miles north of the property. St. George is about 20 miles south of the property on U. S. 91. Uranium ores at present are shipped to Marysvale, Utah, 150 miles to the north. A reputable corporation is constructing a mill at Leeds to process the uranium-silver ores of the area. Completion is scheduled for the fall season of 1956 and ores from other producers will be accepted.

Item 4 (e)

The Walkeng Mining Company has adequate personnel, equipment and material available to undertake the project with ease. Water for drilling will be available from the adjacent Virgin River. Power if ever necessary may be obtained from sources approximately 2 miles distant.

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Item 5 (b)

The project will consist of 20 drill holes varying in depth from 200 to 300 feet. Total footage for the project is estimated at 5000 feet. The holes will be drilled in the areas defined on the accompanying fig. 2, and the number of holes designated for each area is shown thereon. The areas are defined by their relation with old mine workings, thicker Leeds sandstone and the local fracture system. All areas to be drilled are down dip from mined areas and will penetrate the Leeds and Tecumseh sandstones at depths greater than have been mined in the past.

Item 5 (d)

The Walkeng Mining Company has been engaged in mining operations since 1949 under its present management. The company has performed drilling and development operations in the Silver Reef area since 1954 and is familiar with the problems and characteristics of such operations.

Mr. Alden H. Hughes, the person in charge of local operations has had 15 years of experience in mining operations and has directed all of the company's operations in the Silver Reef area.

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Appendix #3

ESTIMATE OF COSTS

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Appendix #4

OPERATORS SHARE OF COST

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Item 6 (a) Independent contracts.

None

(b) Labor, supervision, consultants.

Drillers, 2 @ $16.00/day	$4,800.00
Misc. labor	400.00
Supervision	3,000.00
Geology and surveying, 50 days @ $40/day	2,000.00

(c) Operating materials and supplies

Core boxes, 20 @ $3.50/box	70.00
Surveying instruments, Geiger counter, and other misc. equipment, rental 6 mo.	200.00

(d) Operating equipment.

1 Winter-Weiss Porta-Drill, complete. Operating cost & rental per mo. $1483. 6 months @ $1483.00	8,900.00
1 D-7 Caterpillar Bulldozer, complete, operating cost & rental, 40 hrs @ $10/hr	400.00
1 water truck, operating cost and rental, 6 months at $125/mo.	750.00

(e) Rehabilitation and repairs.

None

(f) New buildings, improvements, installations.

None

(g) Miscellaneous.

10% of items (b) and (d).	2,025.00

(h) Contingencies.

10% of items 6 (b), (c), (d), (g).	2,254.00
TOTAL COST OF PROJECT	$24,799.00

Information above is based on past experience of the Company and considers drilling 5000 feet (20 holes) in 6 months.

Walkeng M[illegible]ing Company
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Item 7 (b). Proposal of the Company to furnish it's share of the cost of the project.

Total cost of the Project -	$24,799.00
Company's share of cost @ 25% of total -	6,200.00
Company will assume a rental and use-allowance in part amounting to $1,033.33 per month. 6 months @ 1,033.33/mo. -	6,200.00

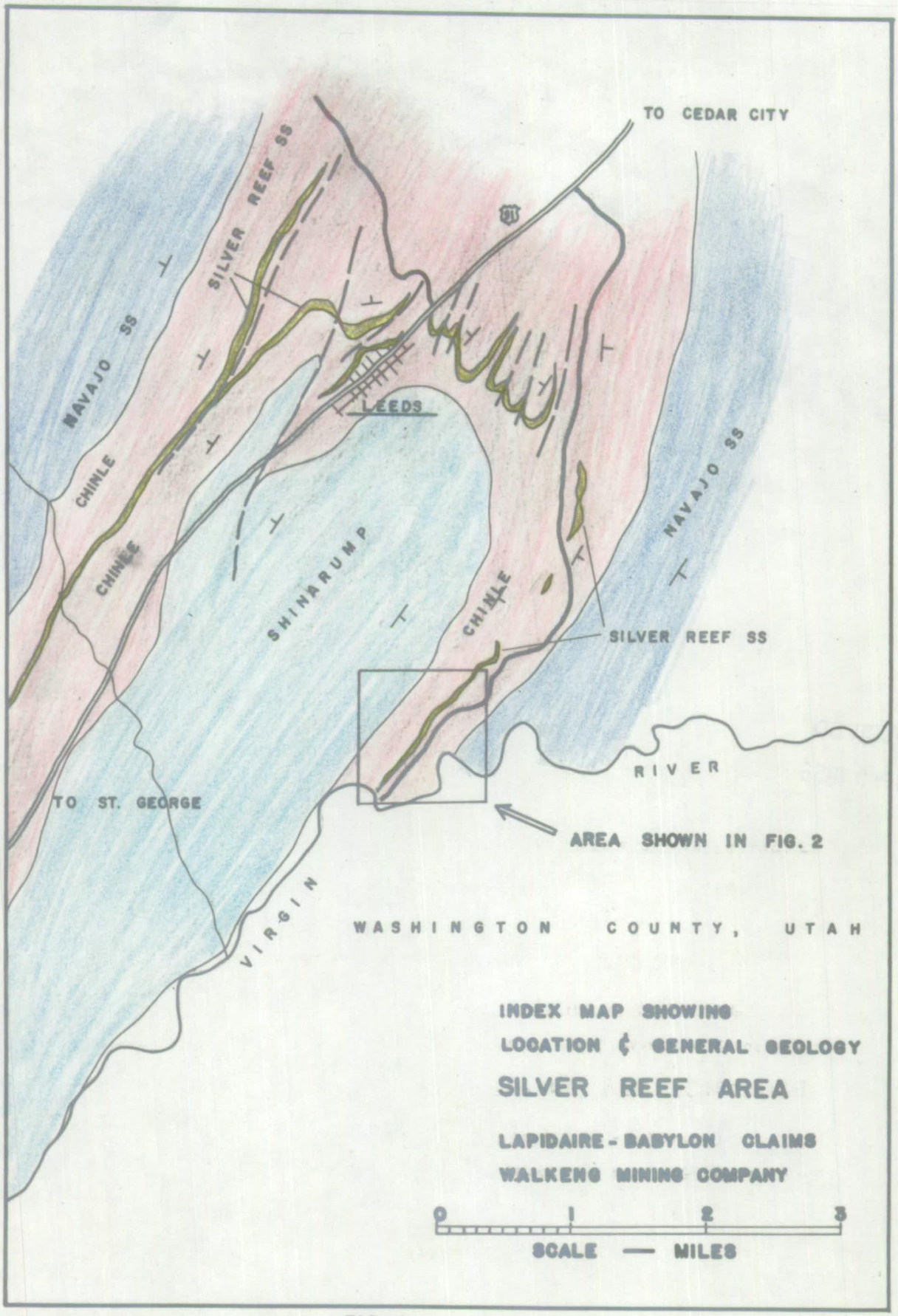
TO CEDAR CITY
SILVER REEF SS
NAVAJO SS
CHINLE
CHINLE
LEEDS
SHINARUMP
CHINLE
NAVAJO SS
SILVER REEF SS
RIVER
TO ST. GEORGE
AREA SHOWN IN FIG. 2
VIRGIN
WASHINGTON COUNTY, UTAH
INDEX MAP SHOWING
LOCATION & GENERAL GEOLOGY
SILVER REEF AREA
LAPIDAIRE - BABYLON CLAIMS
WALKENS MINING COMPANY
0 1 2 3
SCALE — MILES

FIG. 1

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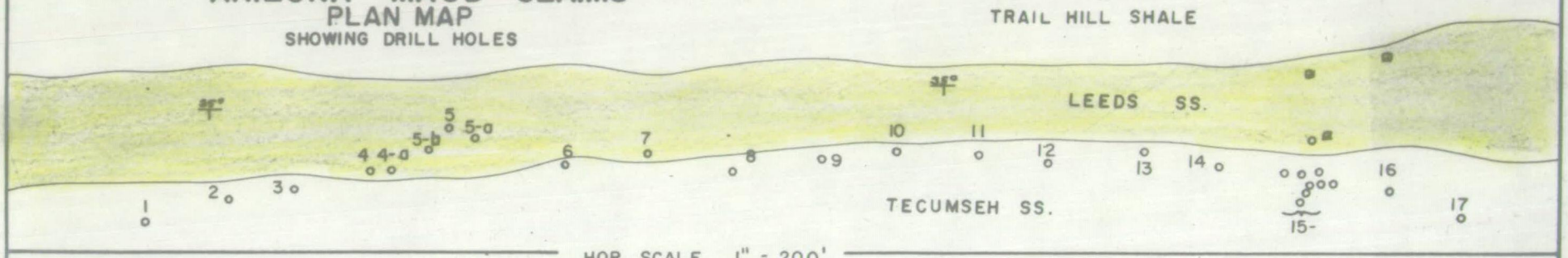
ARIZONA - MAUD CLAIMS
PLAN MAP
SHOWING DRILL HOLES



HOR. SCALE 1" = 200'
VERT. SCALE 1" = 40'

VERTICAL SECTION
THRU DRILL HOLES SHOWN ABOVE

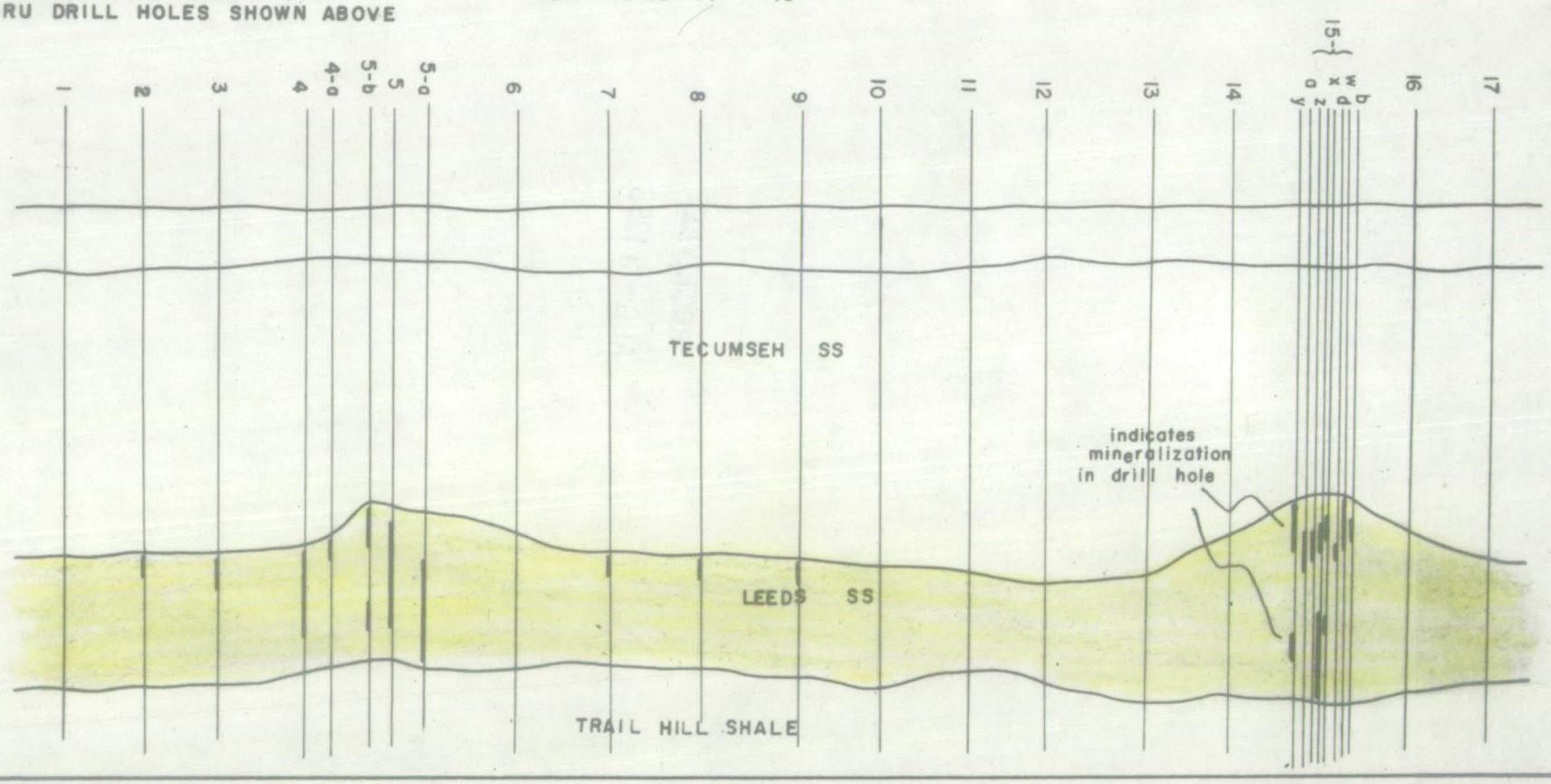


Fig. 3

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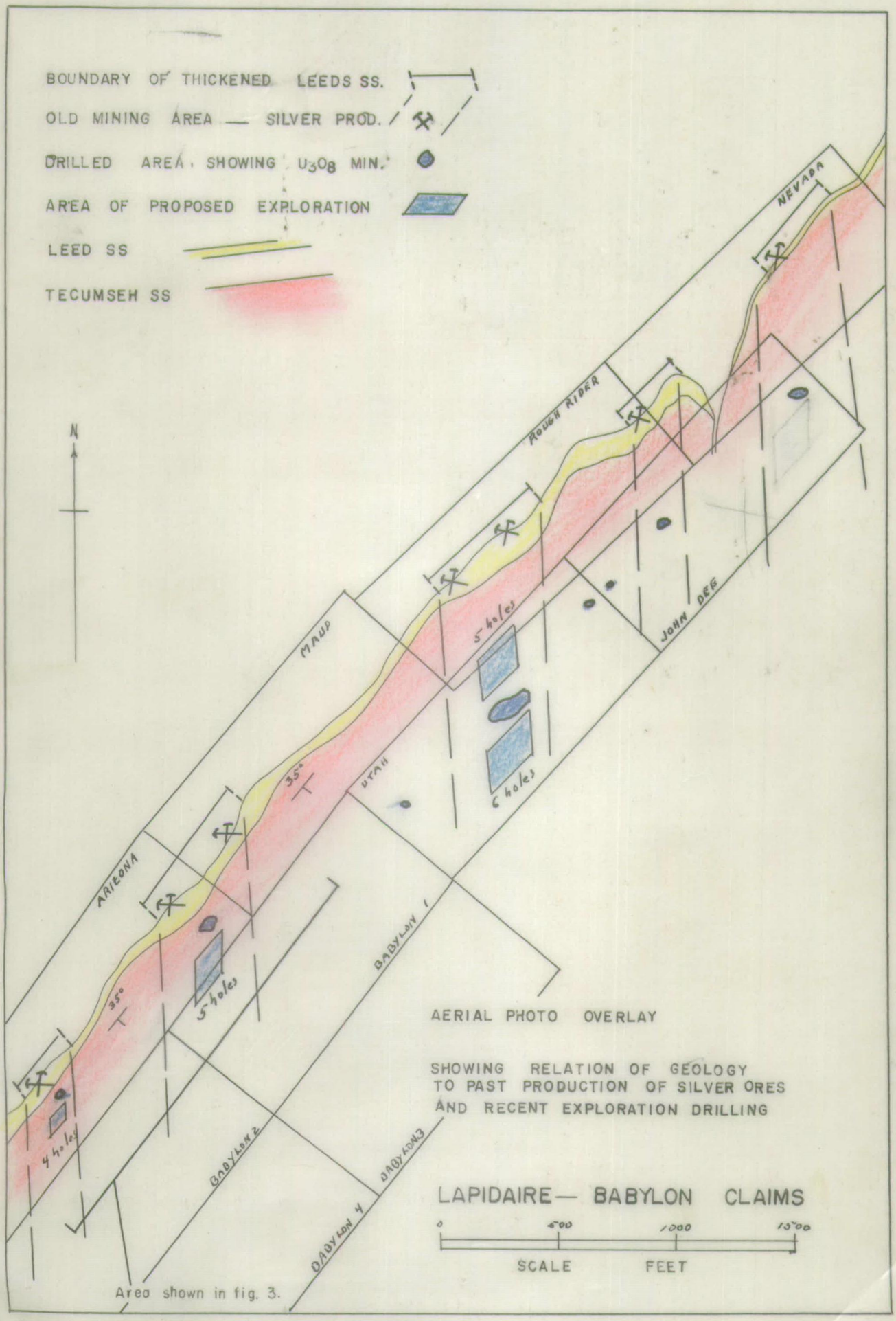
BOUNDARY OF THICKENED LEEDS SS.
OLD MINING AREA — SILVER PROD.
DRILLED AREA, SHOWING U_3O_8 MIN.
AREA OF PROPOSED EXPLORATION
LEED SS
TECUMSEH SS
N
NEVADA
ROUGH RIDER
MAUD
JOHN DEE
UTAH
ARIZONA
BABYLON 1
BABYLON 2
BABYLON 3
BABYLON 4
5 holes
6 holes
5 holes
4 holes
35°
35°
Area shown in fig. 3.
AERIAL PHOTO OVERLAY
SHOWING RELATION OF GEOLOGY
TO PAST PRODUCTION OF SILVER ORES
AND RECENT EXPLORATION DRILLING
LAPIDAIRE— BABYLON CLAIMS
0
500
1000
1500
SCALE
FEET

fig. 2

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