DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3753

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Cys to USBM and USGS.
This document has been recorded as

Exploration

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Routing Slip

To:	700	Date	4/5/55
To:	Oper Com	Date	5-3-55
To:	Oper Com	Date	7-14-55
To:	Oper. Com.	Date	10-26-55
To:	Oper Com	Date	1-3-56
To:	Mr. Mittendorf	Date	1-11-56
To:	Mr. Mittendorf	Date	2-17-56
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
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DO NOT DETACH

CONTROLLED DOCUMENT

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REFERENCE REQUEST—FEDERAL RECORDS CENTERS

NOTE: Use a separate form for each request.

SECTION I—TO BE COMPLETED BY REQUESTING AGENCY

RECORD GROUP NO.	ACCESSION NO.	AGENCY BOX NUMBER	RECORDS CENTER LOCATION NUMBER
320	64A-709	70 OF	14/52:15-3

DESCRIPTION OF RECORD(S) OR INFORMATION REQUESTED *(Include file number and title.)*

Container 19 ~~docket 1782 Geo. Wilmot, Tungston King Claim~~
" 22 " ~~1964 Marsham Enterprizes, T-Bone Tungston~~
" 26 " ~~2209 Warfield Inc., Giant Tongue~~
" 27 " ~~2279 Kenneth W. Rogers, New Moose~~
" ~~36~~ " ~~2609 Warfield Inc., Giant Tongue~~
" 70 " ~~3715 Lucky Stone or Eldorado, or Lucky Strike, Eldorado, Lander Co., Wyo.~~ ?
" 70 " 3753 Lucky Strike, Eldorado, Lander Co., Wyo. ?

REMARKS

What we want from each of these dockets, is a folder titled "Final Geological Report" or "Final Report." If it is permissible to pull these folders only, this is the information we want specifically. We are uncertain of the title information in the last 2 dockets, so go by the docket number. Enclosed are xerox copies for each of the docket requests.

NATURE OF SERVICE

☐ FURNISH COPY OF RECORD(S) ONLY ☐ PERMANENT WITHDRAWAL ☒ TEMPORARY LOAN OF RECORD(S) ☐ REVIEW ☐ OTHER *(Specify)*

NAME OF REQUESTER	TELEPHONE NO. ☒ FTS	DATE
J. W. Hasler, Chief, Office	776-5607	7-7-88

NAME AND ADDRESS OF AGENCY *(Include street address, building, room no. and ZIP Code)*

of Minerals Exploration
U.S. Geological Survey
Box 25046 MS 922
Denver Federal Center
Denver, CO 80225
(In Washington, D.C. area also include STOP number)

RECEIPT OF RECORDS

Requester please sign, date and return this form, for file item(s) listed above, *ONLY* if the block to right has been checked by the Records Center. ☐

SIGNATURE DATE

SECTION II—FOR USE BY RECORDS CENTER

☐ RECORDS NOT IN CENTER CUSTODY ☐ RECORDS DESTROYED

☐ WRONG BOX NUMBER—PLEASE RECHECK

☐ ADDITIONAL INFORMATION REQUIRED TO IDENTIFY RECORDS REQUESTED

☐ MISSING *(Neither record(s), information nor charge card found in container(s) specified)*

☐ RECORDS PREVIOUSLY CHARGED OUT TO *(Name, agency and date):*

REMARKS

DATE	SERVICE	TIME REQUIRED	SEARCHER'S INITIALS
7-12			JH

SECTION III—TO BE COMPLETED BY REQUESTING AGENCY

TO

General Services Administration
Federal Records Center NARS

~~J.W. Hasler, Chief, Office of Minerals Exploration~~
U.S. Geological Survey MS 922
~~Box 25046 Denver Federal Center~~
Denver, CO 80225
(City) *(State)* *(Zip Code)*

NOTE: In Washington, D.C. area send to STOP 386

Surname copy

700

Murphy
Ellis

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

FEB 17 1956

Messrs. George S. Young, J. Chester Young,
and Theodore K. Young
Big Smoky Uranium Company
Austin, Nevada

Re: Docket No. DMEA-3753 (Uranium)
Lucky Stone, et al., claims
Lander County, Nevada

Gentlemen:

Reference is made to our letter dated January 11, 1956, in which we stated that the subject docket would be considered closed unless certain information required to process the captioned application had reached this office within thirty days from the date of that letter. No answer to our communication having been received, we therefore inform you that the subject docket is considered closed as of February 11, 1956.

This is without prejudice to the merits of your proposed project. We regret the necessity of this action and express appreciation for your interest in the exploration program during the period your application has been under consideration.

Sincerely yours,

G. O. Mitzendorf

Administrator

FMMurphy/gla
2-17-56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700, Mr. Murphy
DMEA Field Team, Region II (2)

RCK.

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

January 11, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3715 (Uranium)
Eldorado Uranium Corporation
Eldorado, et al., groups of claims
and
Docket No. DMEA-3753 (Uranium)
Big Smoky Uranium Company
Lucky Stone, et al., claims
Both in Lander County, Nevada

Reference is made to your letter of January 4, 1955 regarding closure of subject dockets.

You probably have my letter of January 3, 1955 in which I recommended that the dockets be closed without prejudice. If you have not received my letter please advise me and I will forward a copy. Otherwise I will consider the subject concluded.

S. Ricker

SRicker:gh
cc: R. M. Smith
File

700

FILE COPY
Surname:
Murphy
Ellis
Mathewson

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

JAN 11 1956

Messrs. George S. Young, J. Chester Young,
and Theodore K. Young
Big Smoky Uranium Company
Austin, Nevada

Re: Docket No. DMEA-3753 (Uranium)
Lucky Stone, et al., claims
Lander County, Nevada

Gentlemen:

Reference is made to our letter of April 26, 1955, which requested additional information necessary to process the captioned application, and to Mr. Theodore K. Young's response of May 2, requesting that the subject application be held in abeyance until the information could be submitted.

Inasmuch as we have received no further word from you, we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data have not been received within thirty days from the date of this letter, we will then consider the docket closed.

Sincerely yours,

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy/gla/izm 1-11-56

cc to: Docket
Code 700
Admr.'s Reading File
Mr. Murphy
DMEA Field Team, Region III (2)
Messrs, JECrawford, 3641 - THKiilsgaard, 5224 - JOHosted, 3210, GSA

R.4.

DMEA
1-6-56 [illegible]

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

1605 Evans Avenue
Reno, Nevada

January 3, 1956

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3715 (Uranium)
Eldorado Uranium Corporation
Eldorado, et al., groups of claims

and

Docket No. DMEA-3753 (Uranium)
Big Smoky Uranium Company
Lucky Stone, et al., claims
Both in Lander County, Nevada

Reference is made to your letter of October 31, 1955 requesting information on the status of subject properties.

Titles are in dispute and I understand that a lawsuit between Mr. Theodore K. Young and the Apex Uranium Company is pending. The conflict is regarding overlapping of claims and staking ground illegally.

I would suggest that the dockets be closed without prejudice to the area involved. The AEC representative here advises that the most attractive ground is the portion of the Apex Uranium which is not in dispute.

S. Ricker

BUREAU OF MINES
WASHINGTON, D. C.

JAN 6 10 20 AM '56

700

FILE COPY
Surname:
Murphy
Kilsgaard

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

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
U. S. Bureau of Mines
Rare and Precious Metals Experiment Station
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-3715 (Uranium)
Eldorado Uranium Corporation
Eldorado, et al., groups of claims
and
Docket No. DMEA-3753 (Uranium)
Big Smoky Uranium Company
Lucky Stone, et al., claims
Both in Lander County, Nevada

Dear Mr. Ricker:

Please refer to our letter of October 31, 1955 and previous correspondence relating to the above-docketed applications.

If you have not obtained the additional data mentioned in your memorandum of July 25, 1955, we believe the subject dockets should be closed in the usual manner. Kindly advise this Office in regard to your opinion on this matter so that we can initiate the action indicated.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

/s/ Robert W. Geehan
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

FMMurphy/izm 12-30-55
cc to: Admr.'s Reading File
Operating Committee
Docket DMEA-3715 & DMEA-3753
Code 700
Mr. Murphy
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

Surname copy 700

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

Murphy
Ellis
Selfridge

OCT 31 1955

Mr. Spangler Richer
Executive Officer
DMEA Field Team, Region II
U. S. Bureau of Mines
Rare and Precious Metals Experiment Station
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-3715 (Uranium)
Eldorado Uranium Corporation
Eldorado, et al., groups of claims
and
Docket No. DMEA-3753 (Uranium)
Big Smoky Uranium Company
Lucky Stone, et al., claims,
Both in Lander County, Nevada

Dear Mr. Richer:

Reference is made to your memorandum of July 25, 1955, which was in response to our inquiry of July 18, concerning the captioned dockets.

You stated it was your understanding that title was in dispute; further, that AEC personnel in your building indicated there was some moderate interest in the area south of the property. Accordingly, it was your suggestion that these dockets be held open for a reasonable time.

In the interim, we have received no replies from the Applicants to our letters of March 22 (DMEA-3715) and April 26 (DMEA-3753), nor have we communicated with these companies concerning their interest in pursuing the processing of these applications. Any additional information you may supply in this connection will be appreciated.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

FMurphy/gla 10-26-55

APPROVED:

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

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

cc to: Admr.'s Reading File
Operating Committee
Docket DMEA-3715
" DMEA-3753
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JCHosted, Rm. 3210, GSA

Code 700
Mr. Murphy

G.C.S.

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

RECEIVED
JUL 28 1955

1605 Evans Avenue
Reno, Nevada

July 25, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3715 (Uranium)
Eldorado Uranium Corporation
Eldorado, et al., groups of claims,
and; Docket No. DMEA-3753 (Uranium)
Big Smoky Uranium Company
Lucky Stone, et al., claims, both in
Lander County, Nevada

Reference is made to your letter of July 18, 1955 concerning status of subject dockets.

These two docketed properties lie about five miles southwest of Austin and we understand that title is currently in dispute. We believe, as suggested in your letter, that they should be held open for a reasonable time, as according to the A. E. C. personnel here in the building, the area south of the property is of moderate interest at this time.

We will endeavor to get more data on the area when we have personnel available.

S. Ricker

SRicker:gh
cc: R. M. Smith
File

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

RECEIVED
JUL 28 1955

1605 Evans Avenue
Reno, Nevada

July 25, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3715 (Uranium)
Eldorado Uranium Corporation
Eldorado, et al., groups of claims,
and; Docket No. DMEA-3753 (Uranium)
Big Smoky Uranium Company
Lucky Stone, et al., claims, both in
Lander County, Nevada

Reference is made to your letter of July 18, 1955 concerning status of subject dockets.

These two docketed properties lie about five miles southwest of Austin and we understand that title is currently in dispute. We believe, as suggested in your letter, that they should be held open for a reasonable time, as according to the A. E. C. personnel here in the building, the area south of the property is of moderate interest at this time.

We will endeavor to get more data on the area when we have personnel available.

S. Ricker

SRicker:gh
cc: R. M. Smith
File

700

Surname DMEA-3753

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

Selfridge
JE Fraser
Mitterdorf

Code 700
Mr. Murphy

Messrs. J.E.Crawford,Rm.3641
T.H.Kiilsgaard,Rm.5222
J.O.Hosted,Rm.3210,GSA

Docket-3715
3753
3713

Admr. Reading File
Operating Committee

PMurphy:am
7-14-55
cc to:

Mr. Frangler Picker
Executive Officer
Field Exp., Region II
Fuels and Precious Metals
Experiment Station
1605 Evans Avenue
Reno, Nevada

JUL 18 1955

Re: Docket No. DMEA-3715 (Uranium)
Eldorado Uranium Corporation
Eldorado, et al., Groups of claims,
and; Docket No. DMEA-3753 (Uranium)
Big Smoky Uranium Company
Lucky Lone, et al., claims, both in
Esmeralda County, Nevada

Dear Mr. Picker:

We refer to our letter, dated July 5, 1955, which referred Docket No. DMEA-3713 (Uranium), R. Tessmar and E. F. Alba Corte, d/b/a Alert Uranium, to Region II for a field examination and recommendation.

In this letter we suggested that if the information obtained during the examination suggested the desirability of examining the captioned Applicants' properties, to proceed accordingly.

The Field Exam report, transmitted July 1, 1955, recommending that the application under Docket No. DMEA-3713 be denied, has been received. However, no mention was made of the other two applications.

We have written both applicants, with copies to your office, requesting additional information. The Big Smoky Uranium Company replied, requesting additional time to compile the requested information. Inadvertently copies of their letter were not forwarded to your office when received; however, we now enclose two copies. We have had no reply from the Eldorado Uranium Corporation to our letter, dated March 22, 1955.

If you concur, we shall continue to hold Dockets-3715 and 3753 open for a reasonable length of time, as it is possible the applicants might do some preliminary work on their properties in order to secure the information requested in our letters. We would appreciate your comments.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JB)

R.C.H.

Enclosures

APPROVED:

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

Thor H. Kiilsgaard (JB)
Member, Geological Survey

5/6/55 gla

DEPARTMENT OF THE INT
Defense Minerals Administrat
RECEIVED
MAY 5 - 1955

Austin, Nevada
Rt. # 2, Box 5
May 2, 1955

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division
Defense Minerals Exploration Ad.
Washington 25, D. C.

Re: Docket No.DMEA-3753
(Uranium) Lucky Stone,
et al., claims
Lander County,Nevada

Dear Sir:

Will you please hold this subject application in abeyance untill we can submit the additional information which you have ask for in you letter of April 26, 1955.

We will get this into you as soon as we possible can.

Sincerely yours

Big Smoky Uranium Company

Theodore K. Young

Theodore K. Young, Sec.

700

File in Docket DMEA-3753
Big Smoky Uranium Co.

Mangly
Ellis

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

MAY - 5 1955

Mr. Spangler Bickar
Executive Officer
DMEA Field Team, Region II
Rare and Precious Metals Experiment Station
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-3713 (Uranium)
T. Asecher and J. A. Albamonte
d/b/a Hart Uranium
Hart group of claims
Lander (or Nye) County, Nevada

Dear Mr. Bickar:

The subject application is referred to Region II Field Team for a field examination and recommendations. A copy of the application was retained by your office.

Enclosed are copies of memoranda from E. D. Grace, dated March 15, and J. E. Crawford, dated March 17, 1955, members of the Uranium Commodity Committee. You will note that both Commodity Committee Members recommended that additional information be requested from the Applicant. Our letter of March 22 failed to produce all the information requested. The sketch supplied with your letter of April 7 probably gives us all the data we can expect from the Applicant; accordingly, this field referral.

Although the captioned application lacks the information which we require before requesting a field examination, we agree with your recommendation, dated April 7, that it is probably the best procedure.

The claims owned by the Colorado Uranium Corp., Docket No. DMEA-3715, and the Big Smoky Uranium Co., Docket No. DMEA-3753, appear to be located near the captioned property. If possible, the field examiners should contact the owners of the above-named companies in regard to their applications. See our letters requesting additional information, copies of which were forwarded to you. The claims described in the two above-mentioned applications appear to be contiguous, and also, that they are owned by the same group of men. It is possible that if projects are considered warranted on the two properties the work should be under one contract only. If the information obtained suggests the advisability of making examinations of these last two groups of claims immediately, please proceed accordingly.

R.C.J.

The data submitted with all three applications indicate that uranium mineralization has been found on these properties. However, it appears that the Applicants have done very little preliminary work on their claims to establish specific target areas for exploration.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (S/B)

Enclosures

APPROVED:

M. E. Volin (S/B)
Member, Bureau of Mines

(S/ R. D. Trace (S/B)
Member, Geological Survey

F M Murphy/gla
4-28-55
cc to: Admr.'s Reading File
Operating Committee
Docket DMEA-3713
" DMEA-3715
" DMEA-3753
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Mr. Murphy

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

APR 26 1955

Big Smoky Uranium Company
Austin, Nevada

Re: Docket No. DMEA-3753 (Uranium)
Lucky Stone, et al., claims
Lander County, Nevada

Gentlemen:

The captioned application for Federal assistance in an exploration project has been reviewed by this Division.

We note that the "Geologic and Claim Map" submitted with your application is similar in some respects to the one shown in the Eldorado Uranium Corporation's "Offering Circular," dated October 10, 1954. The location of the claims shown on your map and the ones shown in the "Offering Circular," indicate that your respective properties are contiguous and also that some of the claims shown appear to be in conflict. These apparent conflicts should be clarified.

Your application for aid in an exploration contract estimated to cost $49,200 proposes, in part, the drilling of 24 holes, road work, and bulldozer stripping. However, with the exception of the seven (7) proposed drilling locations shown on the map submitted with the application, the location of the other work is not given.

Lacking specific targets that have been justified by geologic data the subject proposal might be termed prospecting, a method of searching for ore deposits not contemplated under our program.

It is possible that you may desire to do a certain amount of preliminary prospecting to deliniate favorable target areas. If such work is done and you wish to submit the results of this work together with a proposal for definite work items, the proposed new work should be justified by specific geological data. It is suggested that if additional information is submitted the following data should be included:

1. A map or sketch, somewhat larger than the one submitted with the application, showing the following:

a) Location and names of individual claims.

b) Location and extent of any trenches, sample pits, and/or other exploratory openings on the property, supporting your statements regarding uranium mineralization on the property.

R.C.L.

c) Outline of the metasediments, quartz monzonite, basic dikes, and fissures, also showing the dips of these formations.

d) Location and value of any samples procured from the property.

e) Tentative location of each proposed drill hole and trench, also, the location of the proposed road.

The supporting narrative should contain a listing of each individual drill hole giving estimated depth, direction, and inclination of each hole.

Will you kindly advise this office if you wish the subject application to be held in abeyance for the time required to secure and submit the above-suggested additional information.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy:am
4-21-55
cc to: Admr. Reading File
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region II(2)

4/19/55 gla

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

April 18, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3753, Big Smoky Uranium Company,
Austin, Nevada

I have reviewed the attached application of the Big Smoky Uranium Company, DMEA Docket 3753, and have discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

We suggest that the applicant be requested to furnish additional substantiating information about the uranium mineralization on the claims. The company should provide analyses of sample material from the mineralized zone, and a more accurate map showing location of the claims, mineralized areas, the proposed drilling pattern and other pertinent data.

John E. Crawford
John E. Crawford

Attachment

Copy to: Division of Minerals
Branch of Rare & Precious Metals
J. O. Hosted (2)
J. E. Crawford (2)

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

April 18, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3753, Big Smoky Uranium Company,
Austin, Nevada

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John E. Crawford

Attachment

Copy to: Division of Minerals
Branch of Rare & Precious Metals
J. O. Hosted (2)
J. E. Crawford (2)

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

April 18, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3753, Big Smoky Uranium Company,
Austin, Nevada

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We suggest that the applicant be requested to furnish additional substantiating information about the uranium mineralization on the claims. The company should provide analyses of sample material from the mineralized zone, and a more accurate map showing location of the claims, mineralized areas, the proposed drilling pattern and other pertinent data.

John B. Crawford

Attachment

Copy to: Division of Minerals
Branch of Rare & Precious Metals
J. O. Hosted (2)
J. B. Crawford (2)

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Crawford
APR - 4 1955

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

Not to be filled in by applicant

Docket No. 3753
Metal or Mineral Uranium, Vanadium
Date Received 3/29/55 4-4-55
Estimated Cost $49,200
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: BIG SHORT URANIUM COMPANY, Austin, Nevada

(*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. The claims to be explored are in Section 1 and 2 T. 18 N., Range 43 East. Sections 35 and 36 in T.19 N., Range 43 East. Reese River mining district, Lander County, Nevada.

(*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

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. None

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Given in supplement 3, (f).

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. Given in supplement #4 (a)

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. None only samples

(*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. Given in supplement map # 4 (c).

(*d*) Give the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. Given in supplement 4 (d)

(*e*) State the availability of manpower, materials, supplies, equipment, water and power. Manpower is available; Materials and supplies will have to be purchased and hauled in. We own trucks which can be used for this purpose. We have a RD 7 Caterpillar with Dozer blade, and have an option on a Diamond Drill, other equipment will have to be purchased, and water is available but power will have to be provided.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium, Vanadium ~~Uranium, Vanadium~~ and other 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 supplement # 5, (b).

(*c*) The work will start within 30 days and be completed within six 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 supplement 5, (d).

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.). See supplement # 6, (a).

(*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. See supplement # 6 from (e) to (h).

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

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

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

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

[X] Money [X] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated 17th of March, 1955

David B. Berger
Helen R. Cleveland
Wm. R. Young
B. Rigby Young

Big Smoky Uranium Company
(Applicant)

By Geo. S. Young
J. Lorenzo Young
Theodore K. Young

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

Supplement 1 (d)

DEPARTMENT OF THE INTERIOR
Minerals Administration
RECEIVED
APR - 4 1955

Theodore K. Young,		Austin, Nevada
B. Rigby Young,		Fillmore, Utah
Heber K. Cleveland,	646 So. 9th East,	Salt Lake City, Utah
David B. Darger,	1574 So. 5th East,	Salt Lake City, Utah
William R. Young,	1510 Indian Hills Dr.,	Salt Lake City, Utah
George S. Young,		Milford, Utah
J. Chester Young,		Milford, Utah

Supplement # 3 (f)

Lucky Stone # 1	Recorded	in	Book	K	page	311,	Lander	County,	Nevada
Lucky Stone # 2	"	"	"	K	"	311,	"	"	"
Lucky Stone # 3	"	"	"	K	"	312,	"	"	"
Yellow Sand # 1	"	"	"	K	"	274,	"	"	"
Yellow Sand # 2	"	"	"	K	"	275,	"	"	"
Nola # 1	"	"	"	K	"	313,	"	"	"
Nola # 2	"	"	"	K	"	324,	"	"	"
Campsite	"	"	"	K	"	306,	"	"	"
Campsite # 1	"	"	"	K	"	307,	"	"	"
Campsite # 2	"	"	"	K	"	307,	"	"	"
Richter # 1	"	"	"	K	"	313,	"	"	"
Richter # 2	"	"	"	K	"	314,	"	"	"
Richter # 3	"	"	"	K	"	193,	"	"	"
Richter # 4	"	"	"	K	"	325,	"	"	"
Kayleen # 6	"	"	"	K	"	157,	"	"	"
Kayleen # 7									

SUPPLEMENT SHEET # 4 (a).

(a). Location work was done with Caterpillar and blade in the form of cutting and stripping. A road was built from the mouth of the canyon up through the claims. This road is now open and passable.

Considerable prospecting and surface exploring was done showing several good uranium bearing fissures.

The road has been opened and is now passable for a examination of the property.

SUPPLEMENT SHEET # 4 (c)

Is map and geologic report.

SUPPLEMENT # 4 (d)

(d). There is a county gravoled road with in one mile of this property and the distance to Battle Mountain the nearest Railroad point is one-hundred (100) miles, ninety-five of this is oiled hiway.

Some roads will have to be constructed in order for drilling equipment to get to the drilling locations as described on map in geology report.

There are residences available in the town of Austin, Nevada about five (5) miles away.

SUPPLEMENT # 5 (d)

(d). The men who will be overseeing the operations have had extensive experience in corporation management and in the supervision of men and machinery, also considerable mining work and experience.

The man who will have direct charge of operations has had much experience in Geology, Mining and Milling. He has spent thirty (30) years in mining operations and is an expert mechanic on mining machinery.

Our Geological work has been done by Norman C. Williams, of Geoprofessional Services Inc., Salt Lake City, Utah. We have planned the drilling program under his supervision.

Supplement # 6.(a) to (h)

(a). Independent Contracts: Drilling twenty-four (24) holes average depth of three-hundred (300) feet, at $5.00 per foot. Total cost thirty-six thousand dollars($36,000.00).

Road work and stripping, RD 7 Caterpillar with 12' X 36" blade ($12.50) per hour, four-hundred (400) hours, total ($5,000.00) five-thousand dolars.

(b). Labor, supervision, consultants: Supervising Foreman, three dollars ($3.00) per hour, total 500 hours, fifteen-hundred dollars ($1,500.00).

(c). Operating materials and supplies: Overall fuel costs, five-hundred dollars, ($500.00); car mileage allowed for supervisors, fifteen-hundred dollars, ($1,500.00).

(d). Operating equipement: One Dodge four by four rental price one-dollar ($1.00) per hour, total five-hundred dollars ($500.00). Compressor and Jack hammer rental price one dollar and fifty-cents ($1.50) per hour, total five-hundred dollars ($500.00).

(e). Rehabilitation and repairs: Purchase of Trailer House, two-thousand dollars ($2,000.00). Pipe for water system, six-hundred dollars ($600.00). Trenching and Reservoirs six-hundred dollars ($600.00).

(h). Contingencies: Five-hundred dollars ($500.00).

Grand Total:- Forty-nine thousand two-hundred dollars ($49,200.00).

Supplement # (c)

REPORT OF URANIUM INVESTIGATION

VEETCHES CANYON AREA, LANDER COUNTY, NEVADA

Norman C. Williams

Salt Lake City, Utah

March 12, 1954

The investigation upon which this report is based was conducted on a group of claims in the Toiyabe Range approximately three miles south of Austin, Nevada. The area, known as Veetches Canyon, was examined during the 4th, 5th, 6th and 7th of March, 1954. The investigation was made on behalf of Dr. William R. Young and associates for the purpose of appraising the area for possible uranium deposits and to advise the claim owners of the most advantageous areas for exploratory work and for further prospecting.

The general geology of the area consists of a body of quartz diorite intruded into a series of metasediments, dominantly quartzites and silicified limestones. After emplacement, the intrusion and the host rock were fractured and possibly faulted along several zones, most of which t trend east. Such fracture zones range from three to fifty feet in width and may extend several hundred yards in length. The fracture zones or fissures later served as conduits for ascending mineral bearing solutions which carried, among other elements, a uranium content.

The iron present in the mineralizing solutions passing through the fissures served to change the color and gives to the fracture zones a rust colored appearance which contrasts with the adjacent unmineralized rock. Furthermore, in some fissures the deposition of iron has served to indurate andharden the fissures. Accordingly, they resist erosion more strenuously than the adjacent country rock and consequently stand out as bold outcrops.

As the mineral bearing solutions ascended into the upper, cooler

zones of the intrusion and adjacent host rock, some deposition of the uranium minerals occurred. An abnormal uranium content, as determined by Geiger counter, was found in several of the mineralized fissures in both the quartz diorite and in the metasediments, but the greatest concentration in the fissures occurs in close proximity to the actual quartz diorite-metasediment contact.

The processes of intrusion, fissuring and mineralization described in the foregoing paragraphs occurred while the area was deeply buried beneath a great thickness of superincumbent rocks which have subsequently been removed by erosional processes. It is by virtue of the deep erosion that processes that were operative at great depths are now revealed at the surface. Plate I attempts to depict this sequence of geological events schematic drawings.

As erosion progressed deeper and deeper, the mineralized fissures became in part exposed at the surface and were subjected to the chemical action of the atmosphere and weather. Certain of the minerals, uranium included, were formed into new minerals by these chemical processes. During the alteration process some minerals are rendered water soluble and are partially leached from the upper part of the exposed fissures. The primary uranium mineral in the fissures was most probably pitchblend, but by alteration torbernite was formed and torbernite is now the chief uranium mineral in evidence at the surface. In most areas of abnormal radioactivity the upper several inches of the ground surface is of relatively low count, but one to two feet beneath the surface the count may be much greater. It appears therefore that very nearly complete leaching of radioactive minerals has taken place in the upper few inches of the surface. Accordingly, proper prospecting will entail excavation of numerous shallow trenches and pits. At considerable depth it is to be expected that primary uranium minerals will be present. However, with the present status of exploration it is impossible to predict the depth at which such primary minerals will be encountered.

RECOMMENDATIONS

The geologic nature of the uranium occurrences in the Vectch Canyon area are sufficiently understood to serve to dictate the most advantageous prospecting methods. The prospecting program should be based upon four observable geologic conditions. (1) Uranium mineralization was restricted to the fissures. (2) Within the fissures the greastest uranium content is found in close proximity to the quartz diorite-metasediment contact both in the quartz diorite and in the metasediment. (3) Radioactive minerals have largely been leached from the fissures in the uppermost one two feet. (4). The chief uranium mineral present(torbernite) is a secondary products produced by the chemical action of surface waters and the atmosphere. A fifth factor, not at present demonstrable is that at some indeterminate depth below the reaches of percolating surface waters primary uranium minerals should be present.

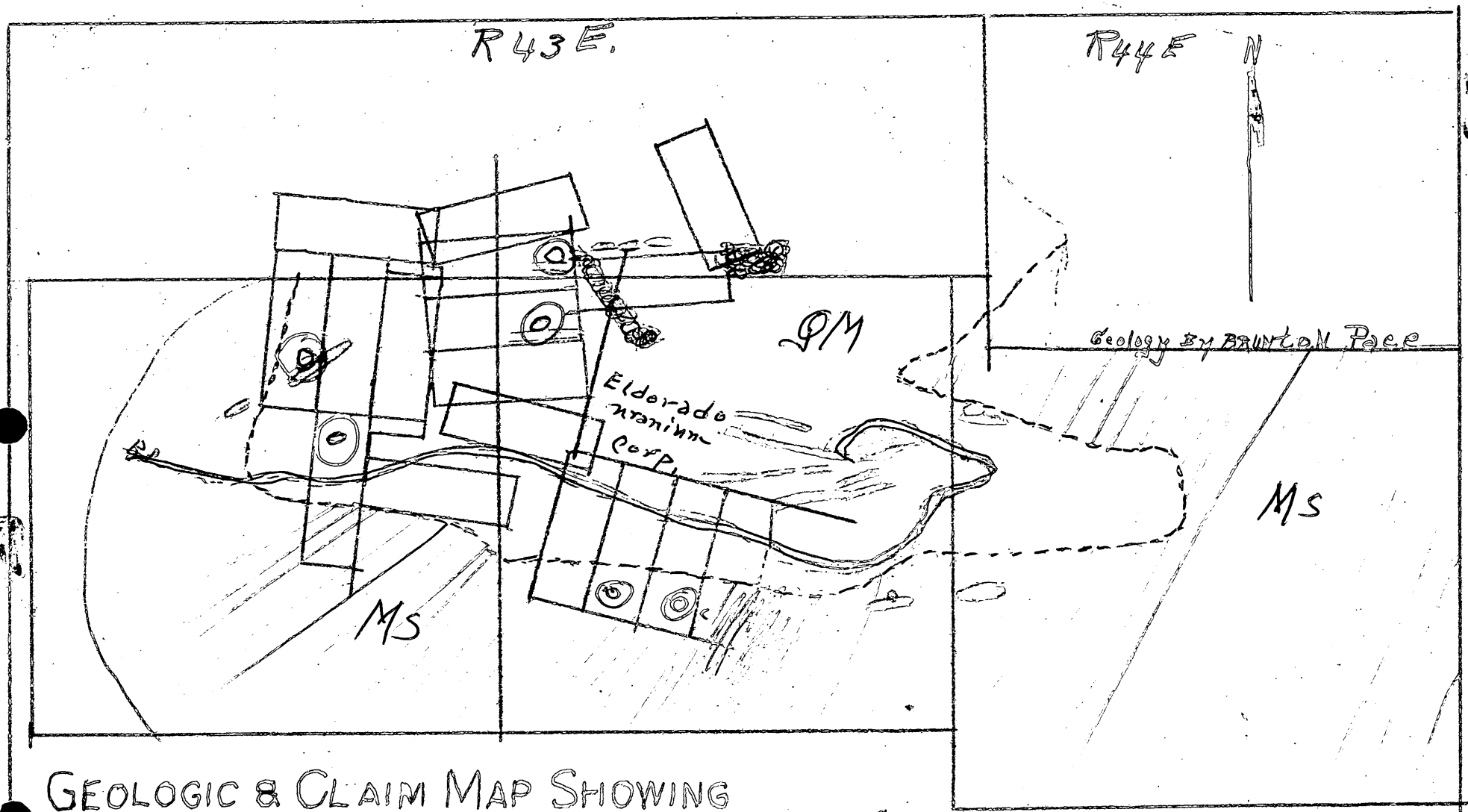
In accordance with the geologic conditions, recommendations for continued prospecting consist of (1) restricting all activity to the fissured zones. These are identified in the quartz diorite by their contrasting rust color and to a lesser extent by their often prominent outcrop. In the metasediments the fissured zones can not be detected by color difference butare characterized only by intense brecciation. (2) The fissure zones should be most carefully examined with the Geiger counter. Keeping in mind that the surface has been considerably leached, areas that show as much as 2x background count should be stripped to a depth of at least two feet to permit better appraisal of the radioactive count. The fissures will not be conspicuous in the metasediments and must be searched for with great care. (3) Places where the fissures transect the quartz diorite-metasediment contact should be searched for and given especially careful examination.

For the present it is considered adviseable to continue deepening the prospect now being worked. The next site for extensive exploration

is the westernmost prospect located north of the mouth of Veetch Canyon. When these are opened up, two or three more such areas should be located in accordance with the foregoing recommendations and similarly opened up. With four or five such prospects developed the operators, as they desire, would be in a stronger position to request federal aid for more extensive exploration.

In summary, the Veetch Canyon area is one of considerable interest from the standpoint of potential uranium production. It is a new and undeveloped area and accordingly many characteristics of the uranium mineralization and its extension in depth are unknown. Never theless, surface indications of uranium are sufficiently widespread and of high enough grade to justify continued exploratory activity. It is believed that if the operators follow the suggested program of exploration set forth in this report that the ultimate value of this property will be fairly assessed and the adviseablity of continued exploration can be judged.

The map accompanying this report is based upon compasspace traverse, and distances are subject to considerable error. However, the map shows the chief geologic relationships and is intended only to serve to illustrate the items discussed in the text of the report. It is hoped also that the map will serve to clarify the geology of the area for the operators.



GEOLOGIC & CLAIM MAP SHOWING
PROPERTY OF BIG SMOKY URANIUM CO
LANDER COUNTY NEVADA

SCALE

0 1/4 1/2 1 Mile

MS Metasediments

QM Quartz Monzonite

Basic Dikes

Fissures, Locally Uranigerous

Proposed drilling Locations

Supplement # 4 (d)

4/18/55 gla

IN REPLY REFER TO:

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

April 15, 1955

Re: DMEA-3753
Big Smoky Uranium Co.
(Big Smoky Property)
Lander Co., Nevada
$49,200 - Uranium

Memorandum

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

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

Subject: Review of application

The applicant has proposed a project consisting of 24 drill holes to an average depth of 300 feet to test possible uranium-bearing fissures in the Reese River district.

The locations of the claims are contiguous and possibly in conflict with property of the Eldorado Uranium Corp. (DMEA-3715). Our comments in the memorandum of March 16, 1955, with reference to DMEA-3715 are applicable to the Big Smoky application.

The report attached to the application by N. C. Williams indicates that further prospecting and geological study will be required before a feasible exploration program can be planned by the operator.

I recommend the applicant be requested to submit more complete data, i.e. geologic maps, sections, sample locations and assays, radiometric survey maps, etc. before further consideration is given to this application.

E. L. Newcomb
E. L. Newcomb

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E. L. Newcomb

ELNewcomb:hlm
G-4/15/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford

IN REPLY REFER TO:

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

April 15, 1955

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ELNewcomb:hlm
G-4/15/55

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GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

April 15, 1955

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(Big Smoky Property)
Lander Co., Nevada
$49,200 - Uranium

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E. L. Newcomb

ELNewcomb:hlm
G-4/15/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford

April 5, 1955
Subject: DMEA 3753
Re: Exploration Assistance
Lucky Stone, Yellow Sand,
Nola, Campsite, Richter,
and Kayleen claims

Big Smoky Uranium Company
Austin, Nevada

Gentlemen:

The receipt of your application dated March 17, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3753 and referred to the Rare and 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

April 5, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

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

DMEA - 3753 Big Smoky Uranium Company

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

DMEA

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

1605 Evans Avenue
Reno, Nevada

March 30, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application
Big Smoky Uranium Co.,
Geo. S. Young, et al
Austin, Nevada

Attached are three sets of MF-103, Application for Aid forms relative to above subject. The fourth set has been retained in our files.

S. Ricker

Attach.

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

APR - 4 1955

1605 Evans Avenue
Reno, Nevada

March 30, 1955

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From: Executive Officer, DMEA Field Team, Region II

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S. Ricker

Attach.

SRicker:gh
cc: H. C. Miller
R. M. Smith
File

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

APR 4 1955

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

Not to be filled in by applicant

Docket No. 3753
Metal or Mineral Uranium, Vanadium
Date Received 3/29/55 4-4-55
Estimated Cost $49,200
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: BIG SMOKY URANIUM COMPANY, Austin, Nevada

(*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 The claims to be explored are in Section 1 and 2 T, 18 N, Range 43 East: Sections 35 and 36 in T,19 N, Range 43 East. Reese River mining district, Lander County, Nevada.

(*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

(*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

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(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. Manpower is available; Materials and supplies will have to be purchased and hauled in, We own trucks which can be used for this purpose. We have a RD 7 Caterpillar with Dozer blade, and have an option on a Diamond Drill, other equipment will have to be purchased, and water is available but power will have to be provided.

16—66551-1

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(*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 supplement # 5, (b).

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(*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. See supplement # 6 from (a) to (h).

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

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

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

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

[X] Money [X] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated 17th, of March, 1955

Daniel B. Danger
Heber K. Cleveland
Sam R. Young
D. Pugh Young

Big Smoky Uranium Company
(Applicant)

By Geo. S. Young
J. Lechester Young
Theodore K. Young, Sec.

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

Defense Minerals Administration
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Supplement 1 (d)

Theodore K. Young,		Austin, Nevada
B. Rigby Young,		Fillmore, Utah
Heber K. Cleveland,	646 So. 9th East,	Salt Lake City, Utah
David B. Darger,	1574 So. 5th East,	Salt Lake City, Utah
William R. Young,	1510 Indian Hills Dr.,	Salt Lake City, Utah
George S. Young,		Milford, Utah
J. Chester Young,		Milford, Utah

Supplement # 3 (f)

Lucky Stone # 1	Recorded	in	Book	K	page	311,	Lander	County,	Nevada
Lucky Stone # 2	"	"	"	K	"	311,	"	"	"
Lukky Stone # 3	"	"	"	K	"	312,	"	"	"
Yellow Sand # 1	"	"	"	K	"	274,	"	"	"
Yellow Sand # 2	"	"	"	K	"	275,	"	"	"
Nola # 1	"	"	"	K	"	313,	"	"	"
Nola # 2	"	"	"	K	"	324,	"	"	"
Campsite	"	"	"	K	"	306,	"	"	"
Campsite # 1	"	"	"	K	"	307,	"	"	"
Campsite # 2	"	"	"	K	"	307,	"	"	"
Richter # 1	"	"	"	K	"	313,	"	"	"
Richter # 2	"	"	"	K	"	314,	"	"	"
Richter # 3	"	"	"	K	"	193,	"	"	"
Richter # 4	"	"	"	K	"	325,	"	"	"
Kayleen # 6	"	"	"	K	"	157,	"	"	"
Kayleen # 7									

SUPPLEMENT SHEET # 4, (a).

(a), Location work was done with Caterpillar and blade in the form of cutting and stripping. A road was built from the mouth of the canyon up through the claims. This road is now open and passable.

Considerable prospecting and surface exploring was done showing several good uranium bearing fissures.

The road has been opened and is now passable for examination of the property.

Supplement # 4 (c).

claim conflict with 3715

Is map and geologic report inclosurer.

Supplement # 4 (d),

(d). There is a county graveled road with in one mile of this property and the distance to Battle Mountain the nearest Railroad point is one-hundred (100) miles, ninety-five of this is oiled hiway.

Some roads will have to be constructed in order for drilling equipement to get to the drilling locations as described on map in geology report.

There are residences available in the town of Austin, Nevada about five (5) miles away.

Supplement # 5 (d).

(d). The men who will be overseeing the operations have had extensive experience in corporation management and in the supervision of men and machinery, also considerable mining work and experience.

The man who will have direct charge of operations has had much experience in Geology, Mining and Milling. He has spent thirty (30) years in mining operations and is an expert mechanic on mining and milling machinery.

Our Geological work has been done by Norman C. Williams, of Geoprofessional Services Inc., Salt Lake City, Utah. We have planned the drilling program under his supervision.

Supplement # 6 (a) to (h).

see 3715

(a). Independent Contracts: Drilling twenty-four (24) holes average depth of three-hundred (300) feet, at $5.00 per foot. Total cost thirty-six thousand dollars ($36,000.00).

Road work and stripping, RD 7 caterpillar with 12' X 36" blade ($12.50) per hour, four-hundred hours, total ($5,000.00) five-thousand dollars.

(b). Labor, supervision, consultants: Supervising Foreman, three dollars ($3.00) per hour, total 500 hours, Fifteen-hundred dollars ($1,500.00).

(c). Operating materials and supplies: Overall fuel costs, five-hundred dollars, ($500.00); car mileage allowed for supervisors, fifteen-hundred dollars, ($1,500.00).

(d). Operating equipment: One Dodge four by four rental price one-dollar ($1.00) per hour, total five-hundred dollars ($500.00). Compressor and Jack hammer rental price one dollar and fifty-cents ($1.50) per hour, total five-hundred dollars ($500.00).

(e). Rehabilitation and repairs: Purchase of Trailer House, two-thousand dollars ($2,000.00). Pipe for water system six-hundred dollars ($600.00). Trenching and Reservoirs six-hundred dollars ($600.00).

(h). Contingencies: Five-hundred dollars ($500.00).

Grand Total: Forty-nine thousand two-hundred dollars ($49,200.00).

Supplement # 4 (c)

REPORT OF URANIUM INVESTIGATION

VEETCHES CANYON AREA, LANDER COUNTY, NEVADA

Norman C. Williams

Salt Lake City, Utah

March 12, 1954

APR - 4 1955

The investigation upon which this report is based was conducted on a group of claims in the Toiyabe Range approximately three miles south of Austin, Nevada. The area, known as Veetches Canyon, was examined during the 4th, 5th, 6th and 7th of March, 1954. The investigation was made on behalf of Dr. William R. Young and associates for the purpose of appraising the area for possible uranium deposits and to advise the claim owners of the most advantageous areas for exploratory work and for further prospecting.

The general geology of the area consists of a body of quartz diorite intruded into a series of metasediments, dominantly quartzites and silicified limestones. After emplacements, the intrusion and the host rock were fractured and possibly faulted along several zones, most of which t trend east. Such fracture zones range from three fo fifty feet in width and may extend several hundred yards in length. The fracture zones or fissures later served as conduits for ascending mineral bearing solutions which carried, among other elements, a uranium content.

The iron present in the mineralizing solutions passing through the fissures served to change the color and gives to the facture zones a rust colored appearance which contrasts with the adjacent unmineralized rock. Furthermore, in some fissures the deposition of iron has served to indurate andharden the fissures. Accordingly, they resist erosion more strenuously than the adjacent country rock and consequently stand out as bold outcrops.

As the mineral bearing solutions ascended into the upper, cooler

zones of the intrusion and adjacent host rock, some deposition of the uranium minerals occurred. An abnormal uranium content, as determined by Geiger counter, was found in several of the mineralized fissures in both the quartz diorite and in the metasediments, but the greatest concentration in the fissures occurs in close proximity to the actual quartz diorite-metasediment contact.

The processes of intrusion, fissuring and mineralization described in the foregoing paragraphs occurred while the area was deeply buried beneath a great thickness of superincumbent rocks which have subsequently been removed by erosional processes. It is by virtue of the deep erosion that processes that were operative at great depths are now revealed at the surface. Plate I attempts to depict this sequence of geological events schematic drawings.

As erosion progressed deeper and deeper, the mineralized fissures became in part exposed at the surface and were subjected to the chemical action of the atmosphere and weather. Certain of the minerals, uranium included, were formed into new minerals by these chemical processes. During the alteration process some minerals are rendered water soluble and are partially leached from the upper part of the exposed fissures. The primary uranium mineral in the fissures was most probably pitchblend, but by alteration torbernite was formed and torbernite is now the chief uranium mineral in evidence at the surface. In most areas of abnormal radioactivity the upper several inches of the ground surface is of relatively low count, but one to two feet beneath the surface the count may be much greater. It appears therefore that very nearly complete leaching of radioactive minerals has taken place in the upper few inches of the surface. Accordingly, proper prospecting will entail excavation of numerous shallow trenches and pits. At considerable depth it is to be expected that primary uranium minerals will be present. However, with the present status of exploration it is impossible to predict the depth at which such primary minerals will be encountered.

RECOMMENDATIONS

The geologic nature of the uranium occurrences in the Veetch Canyon area are sufficiently understood to serve to dictate the most advantageous prospecting methods. The prospecting program should be based upon four observable geologic conditions. (1) Uranium mineralization was restricted to the fissures. (2) Within the fissures the greastest uranium content is found in close proximity to the quartz diorite-metasediment contact both in the quartz diorite and in the metasediment. (3) Radioactive minerals have largely been leached from the fissures in the uppermost one two feet. (4). The chief uranium mineral present(torbernite) is a secondary products produced by the chemical action of surface waters and the atmosphere. A fifth factor, not at present demonstrable is that at some indeterminate depth below the reaches of percolating surface waters primary uranium minerals should be present.

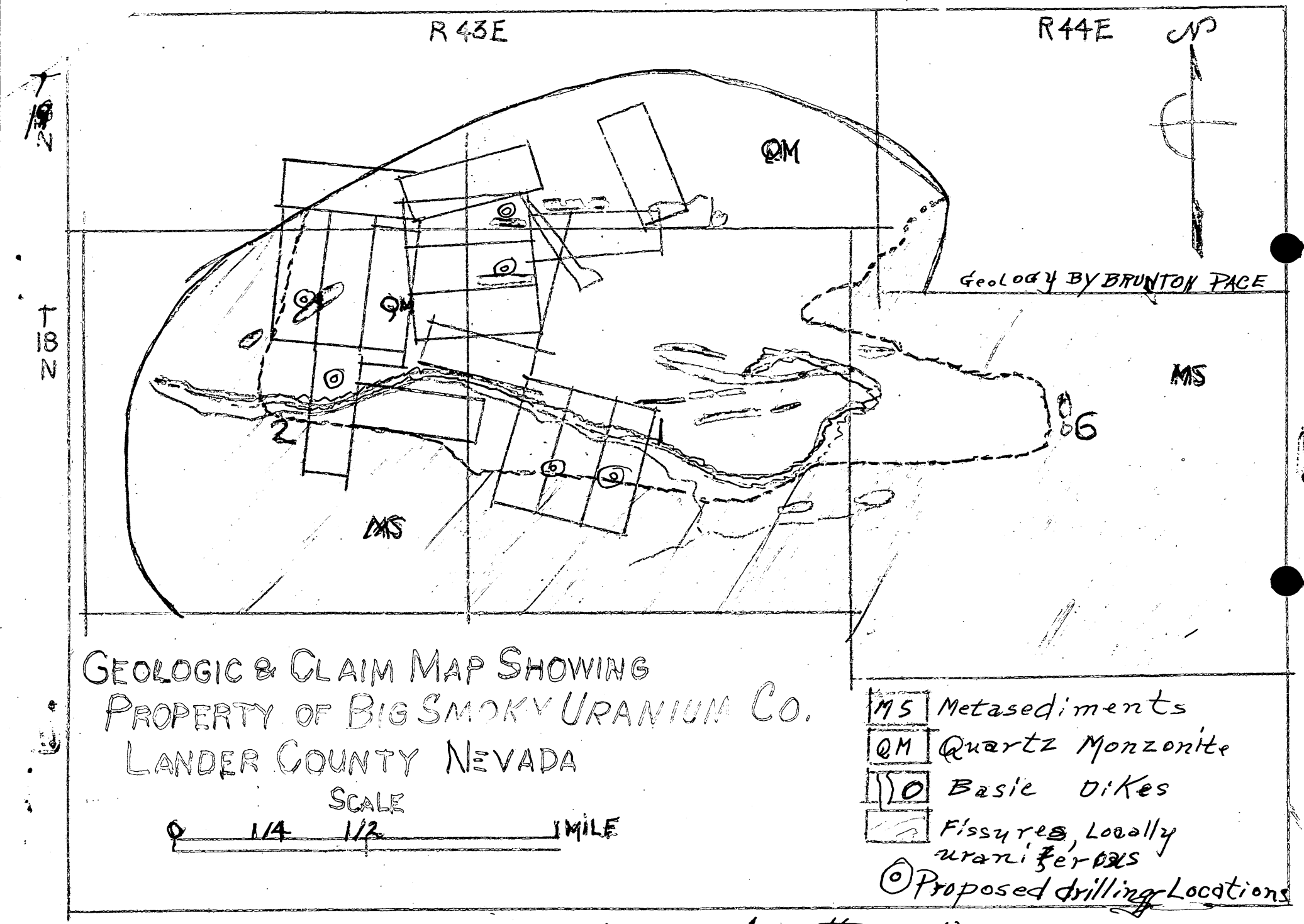
In accordance with the geologic conditions, recommendations for continued prospecting consist of (1) restricting all activity to the fissured zones. These are identified in the quartz diorite by their contrasting rust color and to a lesser extent by their often prominent outcrop. In the metasediments the fissured zones can not be detected by color difference butare characterized only by intense brecciation. (2) The fissure zones should be most carefully examined with the Geiger counter. Keeping in mind that the surface has been considerably leached, areas that show as much as 2x background count should be stripped to a depth of at least two feet to permit better appraisal of the radioactive count. The fissures will not be conspicuous in the metasediments and must be searched for with great care. (3) Places where the fissures transect the quartz diorite-metasediment contact should be searched for and given especially careful examination.

For the present it is considered adviseable to continue deepening the prospect now being worked. The next site for extensive exploration

is the westernmost prospect located north of the mouth of Veetch Canyon. When these are opened up, two or three more such areas should be located in accordance with the foregoing recommendations and similarly opened up. With four or five such prospects developed the operators, as they desire, would be in a stronger position to request federal aid for more extensive exploration.

In summary, the Veetch Canyon area is one of considerable interest from the standpoint of potential uranium production. It is a new and undeveloped area and accordingly many characteristics of the uranium mineralization and its extension in depth are unknown. Never theless, surface indications of uranium are sufficiently widespread and of high enough grade to justify continued exploratory activity. It is believed that if the operators follow the suggested program of exploration set forth in this report that the ultimate value of this property will be fairly assessed and the adviseablity of continued exploration can be judged.

The map accompanying this report is based upon compass pace traverse, and distances are subject to considerable error. However, the map shows the chief geologic relationships and is intended only to serve to illustrate the items discussed in the text of the report. It is hoped alos that the map will serve to clarify the geology of the area for the operators.



Supplement #4 (d)

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