IMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4593

Application (~~Denied~~
(Withdrawn ✓
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
Certificate of Audit (Final)
Interim Audit(s)
Report of Review
Termination Notice or Agreement
Recision Notice
Assignment of Contract
Contract Amendments (latest on top)
Contract with all exhibits and annexes
Owner's Consent to Lien
Subordination Agreement
Leases and assignments of leases
Application and attachments ✓
(3) Envelope for maps

Right Side

Project summary
Work completed analysis
All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report (Tab)
Operator's Final Report
(2R) Interim Reports
(2R) Operator's monthly reports and all attachments (latest on top)
✓ On-site Exam Report(s) (Tab)
(4) Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order) Interim Summary Reports by W. O. Engineers

Right Side

Operator's Semi-Annual Report for Certified Project, Field Team Interim Reports, Operator's Monthly Report with transmittal, narrative, maps, and Field Team review.

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

9775

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 29 1957
DATE | INITIALS | CODE

C
O
P
Y

Monticello, Utah
June 21, 1954.

Standard Uranium Corporation
Moab, Utah

Gentlemen:

On December 1, 1953, the undersigned entered into an Agreement with W. R. McCormick and Charles A. Steen for the sale and purchase of what are known as the "Big Buck" group of mining claims, consisting of 15 unpatented mining claims, all as described in said Agreement, and which Agreement has been assigned by McCormick and Steen to Standard Uranium Corporation. The undersigned now desire to amend paragraph 4 of said Agreement to read as follows:

"4. Terms and Manner of Exercising Option: The option to purchase herein granted may be exercised by Second Parties at any time between the date of this Agreement to and including the 5th day of June, 1954. The option shall be exercised by Second Parties depositing in the First National Bank of Moab, in Moab, Utah to the account of First Parties the sum of $450,000.00. On such exercise of the option the sum of $50,000.00 heretofore paid shall likewise be credited and applied upon the said purchase price. The balance of the purchase price of $2,000,000.00 shall be paid in yearly installments in the amount of $500,000.00, to be likewise deposited to the account of First Parties at said bank, and to be paid in each succeeding year on or before the anniversary date of such original payment of $450,000.00. No interest will be charged on the unpaid balance."

If this amendment meets with your approval will you sign two copies of this letter of amendment of Agreement, retain one executed copy and return the other to us, and the same shall constitute an amendment of said paragraph 4 of said Agreement of December 1, 1953.

Very truly yours,

/s/ Daniel L. Hayes
Daniel L. Hayes

/s/ Pauline Hayes
Pauline Hayes

/s/ Joseph W. Adams
Joseph W. Adams

/s/ Dora B. Adams
Dora B. Adams

/s/ Edward Saul
Edward Saul

/s/ Bernice Virginia Saul
Bernice Virginia Saul

/s/ Donald T. Adams
Donald T. Adams

/s/ Dorothy Adams
Dorothy Adams

Approved and Accepted

STANDARD URANIUM CORPORATION

By /s/ Joseph W. Frazer
President

C
O
P
Y

ASSIGNMENT

THIS ASSIGNMENT, made as of the 25th day of January, 1954, by W. R. McCORMICK and EMMA McCORMICK, his wife, and CHARLES A. STEEN and MINNIE LEE STEEN, his wife, ASSIGNORS, to STANDARD URANIUM CORPORATION, a Delaware corporation, duly qualified to do business in Utah, ASSIGNEE,

W I T N E S S E T H :

RECITALS:

Under date of December 1, 1953, an Agreement was entered into between DANIEL L. HAYES and PAULINE HAYES, his wife, JOSEPH W. ADAMS and DORA B. ADAMS, his wife, EDWARD SAUL and BERNICE VIRGINIA SAUL, his wife, and DONALD T. ADAMS and DOROTHY ADAMS, his wife, as "First Parties," and W. R. McCORMICK and CHARLES A. STEEN, as "Second Parties", whereunder "Second Parties" were granted an option to purchase the following mining claims in San Juan County, Utah, to-wit:

NAME OF CLAIM	NOTICE OF LOCATION RECORDED IN BOOK	AT PAGE
Big Buck No. 4-A	R-1	531
Big Buck No. 5	R-1	531
Big Buck No. 6	R-1	531
Big Buck No. 7	R-1	532
Big Buck No. 8	R-1	532
Big Buck No. 8-A	R-1	532
Big Buck No. 9	R-1	533
Big Buck No. 9-A	R-1	533
Big Buck No. 10	R-1	533
Big Buck No. 10-A	R-1	534
Big Buck No. 11	R-1	534
Big Buck No. 12	R-1	535
Big Buck No. 12-A	R-1	535
Idle Day	R-4	38
Big Buck No. 11-A	R-1	534

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 29 1957
DATE | INITIALS | CODE

By a letter agreement dated February 22, 1954, between said "First Parties" and said "Second Parties", said Agreement of December 1, 1953 was modified and amended to extend to August 1, 1954, the time for the exercise of said option.

NOW, THEREFORE, in accordance with the Agreement of January 25, 1954, between the parties hereto, and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration, Assignors do hereby ASSIGN, GRANT, BARGAIN, SELL, CONVEY and TRANSFER to Assignee all the whatsoever the rights of Assignors in, to and under said above mentioned Agreement of December 1, 1953, as modified aforesaid.

Assignors covenant and warrant that they have not previously d or encumbered any rights or interests in, to or under said Agreemen

of December 1, 1953 [illegible] at they ow[illegible] ghts of the "Sec[illegible] Parties" therein, t[illegible] nd thereun[illegible]

IN WITNE[illegible] OF, these p[illegible] are executed this 25[illegible] day of June, 1954 [illegible] of the 25th [illegible] January, 1954.

/s [illegible] M[illegible]ick
W[illegible]ick

/s/ Emma C. Mc[illegible]
Emma McCo[illegible]

/s/ Charles A. Steen
Charles A. Steen

/s/ Minnie Lee Steen
Minnie Lee Steen

STATE OF UTAH)
: SS.
COUNTY OF GRAND)

On the 25th day of June, A.D. 1954, personally appeared before me W. R. McCORMICK and EMMA McCORMICK, his wife, and CHARLES A. STEEN and MINNIE LEE STEEN, his wife, the signers of the foregoing instrument, who duly acknowledged to me that they executed the same.

/s/ Mitchell Melich
Notary Public
Residing at:

My commission expires: 12-26-54

Entry No. J-7962 320
Recorded 9/8/54 at 1:12 M. Book 175 Page 321
Fee Paid - $4.40
Arvilla E. Warren, San Juan County Recorder
By E. H. Deputy

Amendments to DMEA Loan Application
Answers to Questions on Form MF-103:

1. Same as original

2. Same as original

3. Amend as follows:

   (a) That portion of Big Buck claims No. 10A, 11, 11A, and 12 described as follows:
   Starting at a point 334.27', S 6° 31' W of the common corner of sections 11, 12, 13 and 14, T. 30 S., R.24E., S.L.B.M., San Juan County, Utah
   Thence 300.00', S 25°00' E;
   Thence 600.00', S 8°30' E;
   Thence 453.13', S 22°30' E;
   Thence 1,319.63', N 52°46' E;
   Thence 625.80', N 20°43' W;
   Thence 620.98', N 22°18' W;
   Thence 602.22', N 32°17' W;
   Thence 605.58', N 29°27' W;
   Thence 1,361.03', S 52°46' W;
   Thence 215.34', S 48°43' E;
   Thence 120.00', S 36°51' E; and
   Thence 801.42', S 36°51' E to the point of beginning

   (b) Same as original

   (c) Same as original

   (d) Assignment attached

   (e) Not applicable

   (f) Listed on original

4. (a) Same as original

   (b) Same as original

   (c) Same as original

   (d) Same as original

   (e) Same as Original

5. (a) Same as original

   (b) Amend as follows: Proposal is to drill 21 holes as shown on Map D121. 16 holes lie on the indicated southeast extension

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 29 1957

DATE	INITIALS	CODE

of the ore zone on Big Buck 10A claim, 1 hole lies on Big Buck 11 claim above a mineralized exposure below the rim, and the remaining 4 holes lie on the Big Buck 11A claim to the east of an ore hole drilled on Standard-Col-U-Mex DMEA project. The average depth of these holes will be in the order of 325'

(c) Same as original

(d) Same as original

6. Estimates of Costs

(a) Independent contracts - See attached bids

(b) Same as original

(c) Same as original

(d) Same as original

(e) Same as original

(f) Same as original

(g) Same as original

(h) Same as original

7. (a) Same as original

(b) Same as original

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 29 1957

DATE	INITIALS	CODE

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

OFFICIAL FILE COPY
D M E A
RECEIVED JAN 4 1957

DATE	INITIALS	CODE
		700
January	2, 1957	

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium) Standard Uranium Corporation (Big Buck Mine) San Juan County, Utah

Enclosed are the original and one copy of the subject application in the amount of $23,556.00. One copy of the application is being forwarded the Grand Junction Office, DMEA for their review and recommendations. One copy of the application is being retained in our file.

Only one drilling bid has been submitted by the Applicant, and that bid from the the Moab Drilling Company, which is owned by Charles A. Steen. The Option Agreement submitted with the application is made between the claim owners as "First Parties" and W. R. McCormick and Charles A. Steen "Second Parties" and no copy of an Assignment of this Agreement, from McCormick and Steen to the Standard Uranium Corporation, has been submitted by the Applicant.

DMEA Field Team, Region III

Enclosures

W. M. Traver

W. M. Traver
By Executive Officer

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

224 New Customhouse
Denver 2, Colorado

January 2, 1957

EXTRA COPY
DMEA

Memorandum

To: J. W. Hasler

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium) Standard Uranium Corporation (Big Buck Mine) San Juan County, Utah

Enclosed is the Survey copy of the brochure on the subject application.

Will you please discuss this application with the Bureau of Mines representative in the Grand Junction Office and the AEC, and forward this office nine copies of your joint recommendations concerning the advisability of making a field examination.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosure

DMC:ytl

cc
Sec. Op. Comm. (2)
Harshman
Shaw (2)
Subject
Chron.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DMEA
DEPARTMENT OF THE INTERIOR
JAN 2 1957
REGION III
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. 4593
Metal or Mineral Uranium
Date Received 1/4/57
Estimated Cost $23,556
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: Standard Uranium Corporation
264 So. 4th East
Moab, Utah

(*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 Big Buck Claim Group consisting of 15 claims lying in Sections 11, 12, 13 and 14, Township 30S, Range 24E, Salt Lake Meridian
Claims have been surveyed for patent, Survey No. 7261

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

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

(*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. Exhibit "A"

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

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

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

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

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

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

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

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

(*c*) The work will start within 30 days and be completed within ____ months from the date of an exploration project contract. 45-60 days

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

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

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

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

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

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

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

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

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

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

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

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

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

[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 November 29, 1956

Standard Uranium Corporation
(Applicant)

By Wm R McCormick

William R. McCormick

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

Standard Uranium Corporation
264 So. 4th East
Moab, Utah

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 4 1957

DATE	INITIALS	CODE

DMEA Loan Application

Answers to questions on Form MF-103:

1. (a) Standard Uranium Corporation
264 So. 4th East
Moab, Utah
(b) Corporation, Incorporated in the State of Delaware.
(c) President and General Manager - William R. McCormick
264 So. 4th East, Moab, Utah
Vice President - Mitchell Melich
First Security Bank Building, Moab, Utah
Secretary-Treasurer - I. Newton Brozan
544 Chrysler Building, New York 17, New York
Director - Charles A. Steen
Box 487, Moab, Utah
Director - Aaron Holman
544 Chrysler Building, New York 17, New York

2.

3. (a) Big Buck Claim Group consisting of 15 claims, lying in Sections 11, 12, 13 and 14, Township 30S, Range 24E, Salt Lake Meridian. Claims have been surveyed for patent, Survey No. 7261.
(b) Big Buck Mine
(c) Purchaser under contract
(d) Exhibit A
(e) Not applicable
(f)

Name of Claim	Book	Page
Big Buck No. 4A	41	95
Big Buck No. 5	41	95
Big Buck No. 6	41	96
Big Buck No. 7	41	96
Big Buck No. 8	41	97
Big Buck No. 8A	41	97
Big Buck No. 9	41	98
Big Buck No. 9A	41	98
Big Buck No. 10	41	99
Big Buck No. 10A	41	99
Big Buck No. 11	41	100
Big Buck No. 11A	41	100
Big Buck No. 12	41	101
Big Buck No. 12A	41	101
Idle Day	41	102

4. (a) The mine is presently being operated on a 400-500 ton per day basis. Mining is by room and pillar utilizing trackless mining methods on the stoping level with auxilliary sub-level motor haulage. Production facilities are complete and mine workings are easily accessible.

(b)

	Tons	Grade of Ore, $\%U_3O_8$ (Approx)
Past Production thru Oct. 1956	190,000	0.24
Current Production per month	8,000-10,000	0.21
Known Ore Reserves	60,000	0.20

(c) Property is located in the Big Indian Mining district of San Juan County, Utah. The Cutler, Chinle and Wingate Sandstone formations are exposed, the eastern section of the property facing the Big Indian Wash. The ore is predominately Uraninite and associated vanadium and uranium minerals lying in the basal member of the Chinle formation. Minor exposures of Carnotite type ore is found in white sandstone lenses in the Cutler formation 100-150' below the Chinle-Cutler contact. The deposits are without exception bedded type varying in thickness from a foot or so to 30 feet.
Bureau of Mines Information Circular No. 7726 describes in more detail the geologic features of the district.
Map D-121 included with this application illustrates the area to be explored.
This proposed program is for the purpose of exploring the southeastern projection of the known ore deposit.

(d) The property is served by oiled highway to a point within 2 miles of the area to be explored. Drill roads and unimproved dirt roads serve the immediate area. Closest shipping, supply and residence points are Monticello, Utah a distance of 33 miles, and Moab, Utah, a distance of 45 miles.

(e) Not applicable except for drill equipment and crews which are available locally on contract basis.

5. (a) Uranium and Vanadium minerals
(b) Proposal is to drill 21 holes on 100' centers.
See Map D-121 for details.
(c) Work will start within 30 days of approval and will be completed within 45-60 days.
(d) Applicant maintains a staff of competent and qualified engineers and geologists to supervise mining and exploration projects.

6. (Estimate of Costs)
(a) Independent Contracts: See attached bid from Moab Drilling Co.
(b) 1 Geologist - $500.00 per month salary. Estimated time spent on project 45 days, total cost to project $750.00.
(c) Not applicable
(d) 1-D6 Caterpillar dozer owned by company to be used for drill locations. Estimated cost: 21 drill hole locations @ 3 hrs. per location is 63 hours of dozer time. 63 hrs. @ $12.00/hr equals $756.00 total cost.
(e) Not applicable
(f) Not applicable
(g) Not applicable
(h) None

7. (a) Yes
(b) Money and use of equipment owned by company, namely D-6 Caterpillar.

Exhibit "A"

A G R E E M E N T

THIS AGREEMENT made and entered into this first day of December, 1953, by and between DANIEL L. HAYES and PAULINE HAYES, his wife, JOSEPH W. ADAMS and DORA B. ADAMS, his wife, EDWARD SAUL and BERNICE VIRGINIA SAUL, his wife and DONALD T. ADAMS and DOROTHY ADAMS, his wife, hereinafter referred to as "First Parties", and W. R. McCORMICK And CHARLES A. STEEN, hereinafter referred to as "Second Parties", WITNESSETH:

In consideration of the mutual covenants of the parties and the payment of the sums hereinafter provided, the parties agree as follows:

1. Option Price: Second Parties have paid to first Parties the sum of Fifty Thousand Dollars ($50,000.00), the receipt of which is hereby acknowledged.

2. Purchase Price: In consideration of the payment of the sum heretofore mentioned First Parties hereby grant and give to Second Parties the right and option to purchase the hereinafter described unpatented mining claims for the sum of Two Million Dollars ($2,000,000.00) to be paid as hereinafter provided.

3. Description of Mining Claims:

Name of Claim	Notice of Location Recorded in Book	at Page
Big Buck No. 4-A	R-1	531
Big Buck No. 5	R-1	531
Big Buck No. 6	R-1	531
Big Buck No. 7	R-1	532
Big Buck No. 8	R-1	532
Big Buck No. 8-A	R-1	532
Big Buck No. 9	R-1	533
Big Buck No. 9-A	R-1	533
Big Buck No. 10	R-1	533
Big Buck No. 10-A	R-1	534
Big Buck No. 11	R-1	534
Big Buck No. 11-A	R-1	534
Big Buck No. 12	R-1	534
Big Buck No. 12-A	R-1	535
Idle Day	R-4	38

Including all amended locations.

4. Terms and Manner of Exercising Option: The option to purchase herein granted may be exercised by Second Parties at any time between the date of this agreement to and including the 5th day of June, 1954. The option shall be exercised by Second Parties

depositing in the First National Bank of Moab, Utah to the account of First Parties the sum of $450,000.00. On such exercise of the option the sum of $50,000.00 heretofore paid shall likewise be credited and applied upon the said purchase price. The balance of the purchase price of $2,000,000.00 shall be paid in yearly installments in the amount of $500,000.00, to be likewise deposited to the account of First Parties at said bank, and to be paid in each succeeding year on or before the anniversary date of such original payment of $450,000.00. No interest will be charged on the unpaid balance.

5. Obligations During Option Period: During the period from date hereof to June 5, 1954, Second Parties shall have the right to enter upon said mining claims to prospect, drill, bore and otherwise prospect for minerals in, upon or under said mining claims; to remove from said mining claims, samples of ore and rock taken at such points and in such quantities as they may deem desirable for assay or testing purposes. The aforesaid rights and privileges include the right to erect and maintain thereon all buildings, plants, structures and appliances necessary or convenient for the prosecution of such operations. And during such time, Second Parties will furnish First Parties full and complete reports of all test results obtained during such prospecting, including reports and logs of any core drilling and assay reports of any ore sampled from said mining claims.

6. Operations of Property: Upon the exercise of the option by Second Parties with the payment of the $450,000.00, Second Parties will enter upon and take possession of said mining claims, and may commence the mining, development and operating of said properties. Any and all such mining operations are to be carried on in accordance with good mining practices and in a manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the safety, development and preservation of the premises as mining property.

7. Assessment Work: It is understood and agreed that the mining claims heretofore described are not patented; that nevertheless, as to any and all claims Second Parties, at their sole cost and expense, will proceed diligently to do all assessment work required under the laws of the United States and the State of Utah during such time as this agreement has not been terminated for cause by First Parties, and Second Parties, at their sole cost and expense to file on or before June 1st of each year proof of labor, showing performance of all assessment work on each and every said claim.

8. Reserve Fund: During the period that Second Parties are permitted hereunder to mine and will be mining the properties there shall be paid to the First National Bank of Moab, Utah, or such other bank as First Parties shall designate in writing, twenty-five per cent of the gross proceeds received from the sale of ores from said mining claims. Second Parties will cause notice of this provision to be filed with the purchaser of such ore so that payment shall be paid direct to this fund, to the end that 25% of all gross proceeds shall be paid direct to such bank, Such bank shall accumulate the funds and purchase United States Goverment securities of such terms and returns as shall in its sole discretion be best suited to the purposes of this Agreement. Such securities to be held by said bank and the income to be accumulated for the fund. The purpose of this reserve account is to provide additional security for the payment of the annual installments of the purchase price hereto specified. Such

sums or securities shall be accumulated in the account until it shall equal the balance of the purchase price. The sums and securities in this fund shall be withdrawn and applied by such bank on the anniversary payment dates only to the extent necessary to meet each annual payment thereafter as same shall become due. Unless there shall be a default on the part of Second Parties the fund and securities and all accruing interest shall be deemed the property of Second Parties, and any sums necessary after the full purchase price if paid shall be paid to Second Parties, otherwise on termination of the escrow for default of Second Parties all sums or securities shall be paid or delivered to First Parties.

9. Forfeiteure of Option Price: In the event that Second Parties fail to exercise the option under this Agreement, First Parties shall retain the $59,000.00 paid hereunder and all rights and obligations of the parties hereto shall cease.

10. Abandonment of Property: Provided Second Parties shall have given to First Parties thirty days' notice in writing prior to the effective date of the notice, Second Parties shall have the right to terminate this agreement, cease mining and abandon the property at any time subsequent to the exercise of the option herein. Upon such termination in accordance herewith, Second Parties shall be relieved from any and all further liability under this Agreement except as to any and all obligations which shall have accrued to that date, including an accounting upon all revenue and shipments of ore; provided, nevertheless, that this shall not apply to the reserve account herein mentioned, all of which sums shall thereafter continue to be paid to First Parties at the times and in accordance with the provisions of this Agreement. As consideration for this privilege of termination, Second Parties have agreed to the forfeiture of all sums paid as hereinafter set forth.

11. Right to Remove Structures and Equipment: All equipment, tools, machinery, structures, improvements and property of every nature and description brought or placed upon said mining claims, either prior to the exercising of this option of thereafter, shall not become fixtures but shall become the property of Second Parties. In the event Second Parties do not exercise their option under this Agreement, or in the event they do exercise said option and thereafter abandon said mining claims, they shall have the right but not the obligation to remove all of said property from the mining claims within ninety (90) days after such event, except, however, that any timbering placed upon said mining claims shall not be removed therefrom. First Parties, nevertheless, shall have a lien upon any and all such property placed upon the premises by Second Parties, and none of the same shall be removed unless Second Parties, shall have fully and completely performed their obligations created hereunder as of the date of such removal.

12. Records: First Parties and their duly authorized agents shall have the right at all times during the term of this Agreement to enter upon each and every part of said premises and inspect the same and to take ore samples therefrom. First Parties

and their duly authorized agents shall likewise at all reasonable times have access to the books and records of Second Parties, their successors and assigns, in any manner pertaining to or arising out of operations of the property herein.

13. Escrow Instructions: Coincident with the execution of this Agreement, this original Agreement, together with a deed conveying the property to Second Parties, shall be delivered to and deposited with the First National Bank of Moab, Utah, at its offices in Moab, Utah, and escrowed, providing for the delivery of such documents to Second Parties upon the payment in full of the purchase price herein; and providing also for the return of all such papers and the payment of all money or bonds in the reserve account to First Parties upon the default of Second Parties in any of the provisions hereof, or upon the termination of the Agreement by Second Parties, as herein provided.

14. Conveyance: First Parties will execute in favor of Second Parties a mining deed to said claims, conveying all of the right, title and interest of First Parties in and to said mining claims, such conveyance, nevertheless, to be a special warranty deed warranting only as to the acts of First Parties, and otherwise constituting only a quitclaim of the right, title and interest of First Parties in and to said property.

15. Default: In the event the option is exercised and Second Parties shall default in any manner in observing the covenants of this Agreement, and shall default in any manner in observing the covenants of this Agreement, and shall remain in default for twenty days after receipt of written notice specifying such default, then and in that event First Parties shall have, in addition to all other remedies at law, the right immediately to re-enter said property and repossess themselves thereof, and remove all occupants therefrom, and to immediately receive from the escrow bank all securities or bonds in the reserve fund and all payments theretofore made by Second Parties, including the reserve fund or bonds shall be forfeited and applied on the considerations herein given and for the use of the property during said period. To this end the parties agree that the nature of the ores, the limited market for the same, and need for the immediate operation of said premises, make the estimate of values or damages impossible or difficult of appraisal, and the right to forfeiture of any and all sums paid is specifically made a part of this Agreement.

16. Notice: Any notice required or permitted to be given hereunder shall be given by United States mail duly registered, with postage thereon prepaid, addressed as follows:

to First Parties: To Donald T. Adams
Monticello, Utah

to Second Parties: To Charles A. Steen
Moab, Utah

Said addresses for receiving notices may be changed by either party upon written notice to the other party.

17. Assignability: This Agreement shall inure to the benefit of and be binding upon the successors, heirs and assigns of the parties hereto.

18. Termination: Upon the failure of Second Parties to make the additional payment of $450,000.00 on or before the 5th day of June, 1954, then and in that event, without notice or without any act on the part of First Parties, this Agreement shall immediately and without further act of any kind whatsoever terminate and be null and void, and all rights of Second Parties in and to said premises shall terminate, and First Parties may immediately proceed to take possession of said property and remove all parties therefrom.

19. It is understood that the Big Buck 8-A claim and South half of Big Buck 8 mining claim, are now under lease by First Parties to W. M. Brunke and that in the event said option is exercised, Second Parties agree to accept said mining claims, subject to said lease agreement, and First Parties, upon the exercise of said option, will assign to Second Parties all of their right, title and interest in and to said lease agreement.

20. Second Parties will not permit any lien or encumbrances to be created or maintained against said claims and will immediately discharge the same, and will so conduct their operations and pay their obligations as to prevent the assertion of any such lien or encumbrance. Second Parties will save First Parties and this property harmless from any and all claims arising out of or in any way connected with operations of Second Parties upon or in connection with said properties.

IN WITNESS WHEREOF, the parties hereto have executed this agreement on the day first hereinabove written.

/s/ Daniel L. Hayes
Daniel L. Hayes

/s/ Pauline Hayes by Daniel L. Hayes
Pauline Hayes attorney in fact

/s/ Joseph W. Adams
Joseph W. Adams

/s/ Dora B. Adams
Dora B. Adams

/s/ Edward Saul
Edward Saul

/s/ Bernice Virginia Saul by Edward Saul
Bernice Virginia Saul attorney in fact

/s/ Donald T. Adams
Donald T. Adams

/s/ Dorothy Adams
Dorothy Adams

/s/ W. R. McCormick
W. R. McCormick

/s/ Charles A. Steen
Charles A. Steen

Notary Seal

STATE OF UTAH)
) ss.
COUNTY OF S.L.)

On the 1st day of December, 1953, Personally appeared before me DANIEL L. HAYES AND DANIEL L. HAYES as attorney in fact for PAULINE HAYES, the signer of the above instrument, who duly acknowledged to me that he executed the same for himself and for his said wife as her duly appointed and designated attorney in fact and in accordance with the authority se vested in him.

My commission expires August 24, 1957

Notary Seal

/s/ Paul J. Sugar
Notary Pulic, residing at

STATE OF UTAH)
) ss.
COUNTY OF)

On the 1st day of December, 1953, personally appeared before me JOSEPH W. ADAMS and DORA B. ADAMS, two of signers of the above instrument, who duly acknowledged to me that they executed the same.

My commission expires August 24, 1957

/s/ Paul J. Sugar
Notary Public, residing at
Salt Lake City, Utah

Notary Seal

STATE OF UTAH)
) ss.
COUNTY OF)

On the 1st day of December , 1953, personally appeared before me EDWARD SAUL AND EDWARD SAUL as attorney in fact for BERNICE VIRGINIA SAUL, his wife, the signer of the above instrument, who duly acknowledged to me that he executed the same for himself and for his said wife as her fully appointed and designated attorney in fact and in accordance with the authority so vested in him.

My commission expires August 24, 1957

/s/ Paul J. Sugar
Notary Public, residing at
Salt Lake City, Utah

Notary Seal

STATE OF UTAH)
) ss
COUNTY OF GRAND)

On the 1st day of December, 1953, personally appeared before me W. R. McCormick and Charles E. Steen, two of the signers of the above instrument who duly acknowledged to me that they executed the same.

My commission expires August 24, 1957

/s/ Paul J. Sugar
Notary Public, residing at
Salt Lake City, Utah

notary seal

STATE OF UTAH)
) ss.
COUNTY OF)

On the 1st day of December, 1953, personally appeared before me DONALD T. ADAMS and DOROTHY ADAMS, his wife, two of the signers of the above instrument, who duly acknowledged to me that they executed the same.

My commission expires August 24, 1957

/s/ Paul J. Sugar
Notary Public, residing at
Salt Lake City, Utah

notary seal

STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE)

I hereby certify that the foregoing pages, numbers one through eight inclusive, are a true and exact copy of the original, which original copy was delivered December 11, 1953 to Mr. L. R. Weeks.

My commission expires March 8, 1954

/s/ M. J. Bowman
Notary Public, residing at Salt Lake City,
Utah

MOAB DRILLING COMPANY

DIAMOND CORE DRILLING CONTRACTORS

BOX 387

MOAB, UTAH

TELEPHONE 3-4181

CHARLES A. STEEN
PRESIDENT

WILLIAM H. (BILL) LEWIS
GENERAL MANAGER

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 4 1957

DATE	INITIALS	CODE

November 28, 1956

Mr. Bob Dirk
Standard Uranium Corporation
Moab, Utah

Dear Mr. Dirk,

Moab Drilling Company hereby submits a bid on your proposed drilling to be done on Big Buck # 10-A claim, approximately 1 mile south of the Standard Uranium Corp. mine.

We will drill 21 holes to an average depth of 280 ft. for the following listed cost.

$3.75 / ft. drilling.
Locations and roads to be prepared by Standard.

Thank you very much for this opportunity.

Wm H. Lewis

William H. Lewis
General Manager

glc

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5-21	Murphy	700
5-21	Ellis	700
"	Mittendorf	100
		225
5/21	C	220

MAY 21 1957

Mr. Russell L. Wood
Assistant General Manager
Standard Uranium Corporation
264 South 4th East
Moab, Utah

Re: Docket No. DMEA-4593 (Uranium)
Big Buck Claim Group
San Juan County, Utah

Dear Mr. Wood:

In accordance with your letter of May 15, 1957, requesting that the above-referenced application be withdrawn from further consideration, we are closing our files on the subject docket.

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 (fw)

Administrator

FMMurphy/dlm 5-21-57
cc to: Mr. Murphy
Admr.'s Reading File
DMEA FT Reg. III (2)

8623

STANDARD URANIUM CORP.
264 SOUTH 4TH EAST
MOAB, UTAH

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 20 1957

DATE	INITIALS	CODE
5/20	C	220
5/20	Murphy	700

May 15, 1957

Mr. C. O. Mittendorf
United States Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-4593 (Uranium)
Big Buck Claim Group
San Juan County, Utah

Dear Mr. Mittendorf:

Thank you for your letter of April 15th in which you agreed to hold in abeyance our application for a DMEA loan.

At this time we would like to request that our application be withdrawn from further consideration. On the basis of additional drilling to the south of the area in question, we have started work upon a 1600 foot development drift to a new orebody. The development drift will pass under the area of the Big Buck claims for which we had sought DMEA assistance.

The company has purchased an underground diamond drill which will be used to drill short holes from the drift upwards to prospect the area at much less expense. We do not plan to ask for assistance from DMEA for any of this work.

We regret the trouble and extra work that has been entailed in processing our application, and wish to thank everyone for their help and consideration. However, we do feel that it will be to the best interests of all to withdraw this application on the basis of our present information.

Very truly yours,

Russell L. Wood

Russell L. Wood
Assistant General Manager

RLW/cm

IN REPLY REFER TO:

OFFICIAL FILE COPY
DMEA
RECEIVED APR 16 1957

DATE	INITIALS	
4/16	C	220
4/16	~~[illegible]~~	700

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

Holding in abeyance at request of applicant. Fay.

Memorandum

April 15, 1957

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

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

Subject: Review of field examination report, DMEA 4593, Standard Uranium Corporation, Big Buck claims, San Juan County, Utah, (uranium).

The field examiners report that exploration work on the applicant's property would have a good chance for success. They accordingly recommend approval of a DMEA contract that would provide for a drilling project consisting of a total of 25 part-core holes, a total of 7,920 feet of drilling, at a total estimated cost of $27,080.

The examining team base their recommendations on the facts that the claims are located in a geologically favorable area adjacent to a producing mine; three ore holes now exist on the claims; and the property lies within a trend of large ore bodies including the Mi Vida mine.

I agree with the advice of the examining team regarding approval of a contract providing for work as outlined in the field examination report.

W. P. Williams

W. P. Williams

Note:
Application held in abeyance at applicants request.

OFFICIAL FILE COPY
DMEA
RECEIVED APR 15 1957

DATE	INITIALS	CODE
4/15	C	220
	Murphy	700

April 12, 1957

4593

Uranium
Standard Uranium Corporation
Big Buck Claims
San Juan County, Utah
$27,083.70

Ernest William Ellis, DMEA Member
Uranium Commodity Committee
James Paone, Bureau of Mines Alternate Member
Uranium Commodity Committee

Joint Report of Examination

3/25/57 4/12/57

[illegible]

[illegible] Yes [ ] No [ ]

[illegible] production: Yes [ ] No [ ]

[illegible] to review: Yes [ ] No [ ]

[illegible]

[illegible]:
[illegible] [ ]
[illegible] [ ]
[illegible] [ ]
[illegible] [ ]

[illegible]
[illegible] [ ]
[illegible] [ ]
[illegible] [ ]
[illegible] [ ]

[illegible]:
[illegible] [ ]
[illegible] [ ]
[illegible] [ ]
[illegible] [x]
[illegible] [ ]
[illegible] [ ]
[illegible] [ ]
[illegible] [x]
[illegible] [illegible] at [illegible] [illegible]

[illegible] (Use back of page if necessary)

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4-12	Murphy	700
4-12	Ellis	700
4/16	Lo Zamora	110
	Mitchelson	100
4/15	C	220
		700
		~~220~~

APR 15 1957

Mr. Russell L. Wood
Assistant General Manager
Standard Uranium Corporation
264 South 4th East
Moab, Utah

Re: Docket No. DMEA-4593 (Uranium)
Big Buck Claim Group
San Juan County, Utah

Dear Mr. Wood:

Your letter of April 5, 1957, addressed to Mr. Harshman, Acting Executive Officer, DMEA Field Team, Region III, has been referred to this office for reply.

In accordance with your request, we will hold the above-referenced application in abeyance for a reasonable length of time so that the results of your present exploration work may be available to plan the proposed work.

We prefer not to hold an application open for an indefinite period; therefore, we would appreciate being advised on the action you wish to take as soon as the exploration now being done by your corporation has been completed.

Sincerely yours,

C. O. Mitchelson (for)

Administrator

FMMurphy/izm 4-12-57
cc to: Mr. Murphy
Admr.'s Reading File
DMEA FT Reg. 3 (2)

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

April 5, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED APR 8 1957

DATE	INITIALS	CODE
4/8	C	220
		130
4/12	C	220
	Murphy	700

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4593, (Uranium) Standard Uranium Corporation (Big Buck Claims) San Juan County, Utah

Enclosed are the original and three copies of a Joint Report of Examination by M. H. Salsbury, USBM, and W. B. Gazdik, USGS.

The field examiners conclude that the probability for making a significant discovery is sufficiently promising to justify Government participation in the revised exploration proposal. Accordingly, they recommend that the application be approved, to which the Field Team concurs.

Also enclosed are nine extra copies of Figure 3 of the subject report which will be of assistance in the preparation of the contract.

E. N. Harshman

By E. N. Harshman
Acting Executive Officer

Enclosures

ON-SITE EXAM.

Reviewed by
DMEA OPERATING COMMITTEE
4-12-57
(date)

TRANSMITTED

APR 5 1957

DMEA

DEPARTMENT OF THE INTERIOR

APR 4 - 1957

REGION III

DENVER, COLORADO

IN REPLY REFER TO:

RECEIVED

MAR 25 1957

GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colorado

March 22, 1957

Memorandum

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

Through: J. F. Shaw

From: J. William Hasler

Subject: Transmittal of a joint geologic and engineering report of examination on DMEA docket 4593, Standard Uranium Corporation, Big Buck claims, San Juan County, Utah.

The Standard Uranium Corporation, 264 South Fourth East, Moab, Utah, applied to the Defense Minerals Exploration Administration for assistance to explore on the Big Buck group of claims in the Big Indian Wash area, Lisbon Valley, San Juan County, Utah. The application was referred to the field on February 5, 1957, and the property was examined on February 13, 1957, by W. B. Gazdik, U. S. Geological Survey, and M. H. Salsbury, U. S. Bureau of Mines.

The applicant's claims are located on the southwest flank of the Lisbon Valley anticline in an area where significant uranium deposits have been and are presently being mined and where substantial reserves have been established. The applicant's proposal was originally for a single-stage exploration program, but at the time of the examination it was found that much of the drilling was laid out without regard for topography and that the applicant was not entirely convinced as to the type of the program that should be carried on; consequently, a revised program was reviewed and the applicant was requested to submit a revised drilling plan. The present drilling proposal, outlined in this report, will also include exploration for the possible extension of an ore body that was discovered on the adjoining Ruby Bell group of claims under DMEA docket 4281, Idm-E 1025, in which the present applicant is a partner. The program is in an area where the chances of finding additional ore bodies of significant size and grade are good and it is recommended that the program herein outlined be executed under a DMEA contract. I concur with the conclusions and recommendations of the examining team.

Reviewed by
DMEA OPERATING COMMITTEE
4-12-57
(date)

DATE	INITIALS	CODE
		220
		130

OFFICIAL FILE COPY
DMEA
RECEIVED APR 8 1957

DMEA 4593 3/22/57

Enclosed are 12 copies each of figures 1 and 2 for inclusion in a report of examination, and 24 copies of figure 3 outlining the exploration program, for inclusion in the contract, as well as the applicant's material which he submitted with the application.

J. William Hasler

J. William Hasler,
Geologist

JWH/mlr

Enclosure

FOR UNITED STATES GOVERNMENT USE ONLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

TRANSMITTED
APR 5 1957

DEFENSE MINERALS EXPLORATION ADMINISTRATION

JOINT REPORT OF EXAMINATION BY EXAMINING TEAM
REGION III

OFFICIAL FILE COPY
DMEA
RECEIVED APR 8 1957

DATE	INITIALS	CODE
		130 ~~JB~~
		220

DMEA 4593

STANDARD URANIUM CORPORATION

Big Buck Claims

San Juan County, Utah

Uranium

Joint Engineering and Geological Report

By

M. H. Salsbury
Mining Engineer
Bureau of Mines

W. B. Gazdik
Geological Survey
Geologist

March 1957

Reviewed by
DMEA OPERATING COMMITTEE
4-12-57
(date)

DMEA 4593

STANDARD URANIUM CORPORATION
BIG BUCK CLAIMS
SAN JUAN COUNTY, UTAH

CONTENTS

Joint engineering and geologic report — Page

Introduction and Summary 1
Acknowledgments 3
Location, Topography, and Physical Features 3
History and Production 4
Property Ownership 5
Present Status 8
  Exploration and Development 8
  Mining equipment and other facilities 10
Geology 10
Ore Deposits 12
Ore Reserves 14
Proposed Exploration 14
  Applicant's original proposal 14
  Revised proposal and the recommended program 15
Cost Estimate 19
  Breakdown of costs 22
  Summary of costs suggested for contract use 23
Conclusions and Recommendations 24

TABLES

I Summary of chemical assay data from drill holes shown on figure 3 9

ILLUSTRATIONS

Figure — Follows Page

1. Location map, Big Buck claims, Standard Uranium Corp., San Juan County, Utah 3

2. Sketch map, showing applicant's property relative to the Lisbon Valley mineralized belt, Big Buck claims, Standard Uranium Corp., San Juan County, Utah 25

3. Sketch map of a portion of the Big Buck mine showing existing drill holes and proposed Stage I drill holes 25

CENTRAL FILE COPY
DMEA
RECEIVED APR 8 1957
DATE | INITIALS | CODE
1302
220

DMEA 4593

STANDARD URANIUM CORPORATION
Big Buck Claims
San Juan County, Utah

INTRODUCTION AND SUMMARY

On December 12, 1956, Standard Uranium Corporation, 264 South Fourth East, Moab, Utah, applied for Government assistance to explore for uranium on the Big Buck claims which lie immediately south of the company's mining operation in Big Indian Wash, San Juan County, Utah.

The estimated cost of the applicant's proposal was $23,556.00 in which Government participation at 75 percent would be $17,667.00. The application was referred to the field on February 5, 1957 and a field examination was made by a DMEA examining team, on February 13, 1957 consisting of W. B. Gazdik, Geological Survey, and M. H. Salsbury, U. S. Bureau of Mines, in company with R. R. Durk, manager for the applicant.

The applicant, through misinterpretation of the application forms, listed all of the property in the Big Buck claim group in the proposed DMEA project. A supplement to the original application was submitted on March 19, 1957 which limited the property to be included to the Big Buck Nos. 10A, 11, 11A and 12 claims.

The applicant's claims are located on the southwest flank of the Lisbon Valley anticline on the upthrow side of the Lisbon Valley fault. Significant uranium deposits in the area are found in the lower 30 feet of the Moss Back member of the Chinle formation. The Big Buck claims lie near the center of a narrow, discontinuous, mineralized belt and the ore bodies within the mineralized belt range in size from small irregular bodies containing a few tons of ore to large tabular masses containing thousands of tons.

The original exploration proposal was in a single stage, and was based on map locations of drilling sites without regard for topography. It was apparent during the field examination that some sites were inaccessible except at prohibitive cost, and the applicant decided to revise the drilling plan, basing it on a survey. In addition, exploration on the adjoining Ruby Bell group of claims under Docket No. DMEA 4281, Contract Idm-E1025, in which project the applicant is a partner, has resulted in discovery of a substantial thickness of ore-grade material in two holes that are within 100 feet of the applicant's southwest property boundary. The revised plan calls for exploring the possible extension of the mineralization eastward into the Big Buck No. 11A claim.

The applicant's proposal is conservative, except for one isolated hole proposed behind an outcrop on the Big Buck No. 11 claim, and the proposal for the Big Buck No. 11 claim is not being recommended. Undoubtedly testing of this and other areas as yet unexplored would be considered later if results justify it.

Exploration of the large targets apparently offered appears to be justified, and the possibility of finding substantial tonnages of uranium ore by the proposed work is good.

After a conference with the applicant, the revised plan was changed from a one to a two stage plan and some hole spacings were increased on the Big Buck No. 10A claim so that the program would conform to DMEA practice.

A project in two stages, requiring an estimated 6,670 feet of non-core drilling and 1,250 feet of core drilling in a maximum of 25 holes at a cost of $27,083.70, is recommended for approval. Government participation at 75 percent would be $20,312.78.

ACKNOWLEDGMENTS

The applicant originally furnished a poorly documented brochure and only one bid for the proposed drilling. The revised plan and cost estimate submitted on March 19, 1957, was based on better information on drilling depths and was supported by bids from three drilling contractors.

The results of Government investigations in the area were utilized, and personnel of the Atomic Energy Commission, including M. A. Lekas, project chief in Lisbon Valley, were consulted. An AEC report, ore reserves, and production records were available from Atomic Energy Commission files. Information assembled for Docket No. DMEA 4281 was also utilized.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property of the Standard Uranium Corporation adjoins the Mi Vida mine of Utex Exploration Company. The claims included in the proposed DMEA project are in secs. 11, 12, 13, and 14, T. 30 S., R. 24 E., Salt Lake meridian, overlooking Lisbon Valley, San Juan County, Utah (fig. 1). The Standard mine portal is 44 miles southeast of Moab, Utah. The route from Moab is south 34 miles over Utah Highway 160, thence 10 miles east on an access road to the property. All but the last two miles is hard-surfaced. The property is 173 miles from Grand Junction, Colorado, the nearest major source of supplies. Uranium-ore treatment plants are at Moab, Utah, and at Monticello, Utah, 32 miles south of the Standard mine. Current production from the mine is being sold to the Uranium Reduction Company at Moab, Utah.

The claims are at an altitude of 6,500-7,000 feet, covering a Chinle slope and bench below a Wingate escarpment overlooking Lisbon Valley to the east (figs. 2 and 3). A narrow strip at the southwest end of the southerly claims

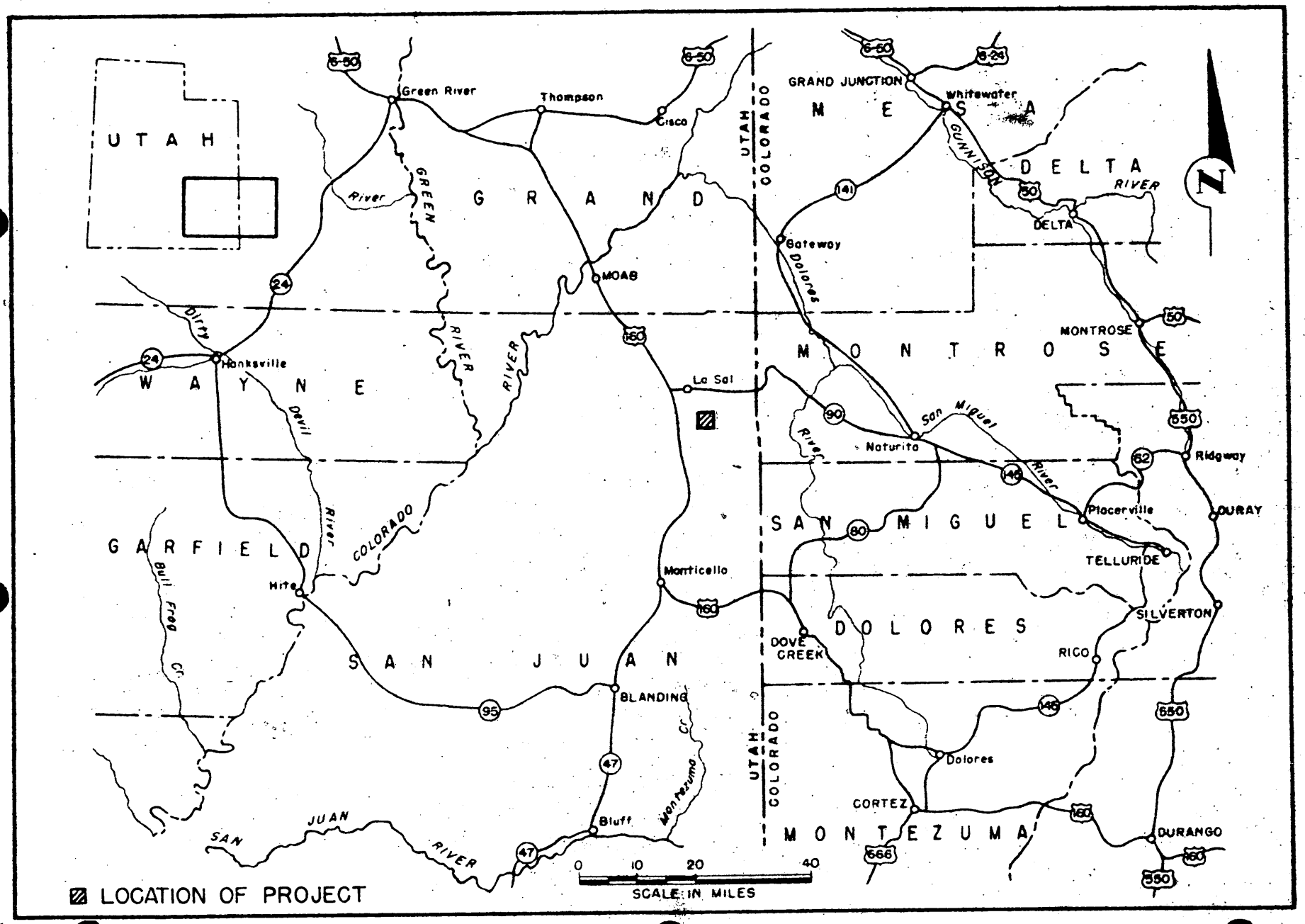


FIGURE 1 - LOCATION MAP, BIG BUCK CLAIMS, STANDARD URANIUM CORPORATION, SAN JUAN COUNTY, UTAH.
DMEA 4593

is on top of the Wingate formation. Feasible drill sites are limited to the lower Chinle slope and bench, and the strip on top of the Wingate formation. The basic access road has been built, and drill sites, as relocated, can be prepared at a reasonable cost.

The climate of the region is moderate with warm summers and mild to cold winters. Year-round surface operations are feasible except for periods following infrequent winter and spring storms.

There are no unusual problems of transportation, supply, power, or labor. The proposed drilling would be contracted to an independent contractor who would furnish equipment, labor, and housing. Domestic and drilling water is obtainable from drilled wells within 8 miles of the property. Electric power for all operations is available from the lines of the Utah Power and Light Company. However, gasoline- or diesel-powered surface drilling equipment is used.

HISTORY AND PRODUCTION

Vanadium was produced from Morrison formation deposits in the area during both World Wars. Mining of small uranium occurrences in the Cutler formation, 100 to 150 feet below the Chinle-Cutler contact, dates from 1948. There is mineralization in a Cutler outcrop on the Big Buck property which was explored at the old Big Buck mine some distance north of the Standard mine (fig. 2). Possible Cutler occurrences were reported to have been the target of exploration in the area north and west of the Big Buck claims in 1952, as a result of which the first important uranium deposits in the area were found at the Mi Vida mine in the basal or Moss Back member of the Chinle formation instead of the Cutler.

Since then, the Lisbon Valley region has been developed into the largest uranium-mining area in Utah, with the Mi Vida and Standard mines furnishing a large part of production to date. Total tonnage is increasing as new operations are brought into production. The production of the three mines in the immediate area of the proposed exploration area, the Standard, Mi Vida, and Little Beaver, has exceeded 500,000 tons averaging about 0.35 percent U_3O_8 and 0.50 percent V_2O_5. As of November 1, 1956, the applicant reports a total production from the Standard mine of 190,000 tons of ore with an average content of 0.24 percent U_3O_8. According to the Atomic Energy Commission records the production from the mine through December 31, 1956, is 188,380 tons that had an average content of 0.26 percent U_3O_8 and 0.54 percent V_2O_5. The slight discrepancy can be explained by the fact that in AEC records some of the earlier production is credited to a prior operator. Current production is at the rate of 8,000 to 10,000 tons per month.

PROPERTY OWNERSHIP

Originally, the applicant included fifteen claims of the Big Buck group in the proposed DMEA project. Royalty on production from current mining operations on these claims would exceed probable DMEA exploration costs for a given period. The matter was explained to the applicant who, on March 19, 1957, submitted a revision of the original application confining the proposed DMEA project to four claims not in the producing area as follows:

Claim	Book	Page
Big Buck No. 10A	R-1	534
Big Buck No. 11	R-1	534
Big Buck No. 11A	R-1	534
Big Buck No. 12	R-1	535

The above claims, with the balance of the claim group, were originally filed for record on August 8, 1948. Amended locations were filed on December 2, 1953, in Book 41, pages 95-102 and, to record the patent survey under survey No. 7261, on December 2, 1954. The claims in the proposed DMEA project have been described by metes and bounds in the supplementary application: "that portion of Big Buck claims Nos. 10A, 11, 11A, and 12 described as follows:

Starting at a point 334.27 feet S 6°31' W of the common corner of sections 11, 12, 13, and 14, T. 30 S., R. 24 E., S.L.B.M., San Juan County, Utah,

Thence 300.00 feet S 25°00' E
Thence 600.00 feet S 8°30' E
Thence 453.13 feet S 22°30' E
Thence 1,319.63 feet N 52°46' E
Thence 625.80 feet N 20°43' W
Thence 620.98 feet N 22°18' W
Thence 602.22 feet N 32°17' W
Thence 605.58 feet N 29°27' W
Thence 1,361.03 feet S 52°46' W
Thence 215.34 feet S 48°43' E
Thence 120.00 feet S 36°51' E
Thence 801.42 feet S 36°51' E to point of beginning.

The foregoing description is based on the patent survey notes and defines the southeast limits of the claims as the Standard-Utex-Steen compromise line.

These claims are among 14 Big Buck claims located in 1948 by Donald Hayes, J. W. Brewer, and James Bentley. Hayes bought out the other two and formed a partnership with Donald T. Adams, an attorney of Monticello, Utah. Later, Joseph W. Adams and Edward Saul acquired a small interest. The Idle Day claim

was added in July 1951. W. R. McCormick and Charles A. Steen bought the claims on December 1, 1953, under an option agreement and, in 1954, transferred the title to the Standard Uranium Corporation. The total purchase price was $2,000,000.00, the final installment of which is due June 5, 1957, according to the contract of sale with Hayes and associates.

The applicant's title appears to be valid and there will be no encumbrances after June 5, 1957. There are no unresolved claim conflicts. Boundary agreements establish a compromise line where the Big Buck claims overlap patented claims owned by the Utex Exploration Company, and also a compromise boundary where the Dorothy May, Ruby Bell, and Maxine claims overlap the Big Buck Nos. 11A, 12, 12A, and Idle Day claims. The portion of these boundaries affecting claims in the proposed DMEA project are shown in figure 3. The Dorothy May and Ruby Bell claims, owned by Charles A. Steen, and the Maxine claim, owned by Lisbon Uranium Corporation, are among claims subordinated under Docket No. DMEA 4281, Contract Idm-E1025. The maps of this project show the same compromise boundary as the Standard Uranium Corporation maps. Because of the conflicts, the operator under Docket No. DMEA 4281, Standard-Col-U-Mex joint venture, in which the Standard Uranium Corporation is a partner, furnished a performance bond in lieu of other guarantees. It is suggested that, in the present case, the same thing can be done if the Government is not satisfied that the boundaries are legally established by the agreements. If a DMEA contract should go into effect prior to June 5, 1957, Consents to Lien from Hayes and associates would be required.

The applicant has furnished copies of the purchase agreement and an amendment thereto between the Hayes associates and McCormick and Steen, and an

assignment from McCormick and Steen to the Standard Uranium Corporation as recorded in Book 175, pages 320 and 321 on September 8, 1954.

PRESENT STATUS

Exploration and Development

Exploration of the claims in the proposed DMEA exploration area to date consists of 4 drill holes (fig. 3). Two were drilled on the No. 10A claim. One of these, No. BB10A-5, was mineralized and the other No. BB10A-1, penetrated 2 feet of material containing 0.34 percent U_3O_8. One hole, No. 11A-2 on the Big Buck No. 11A claim, was barren. One hole, No. BB12-1 on the Big Buck No. 12 claim, was mineralized.

Adjoining the proposed DMEA project area on the northwest on Big Buck No. 10 claim, 8 of 10 holes penetrated minable ore which has been partially developed by extension of workings from the Standard mine.

Additional exploration of the Moss Back formation was carried on several years ago from the 360-foot North American shaft. These workings are immediately southwest of the Big Buck Nos. 10 and 10A claims (fig. 3). The Chinle-Cutler contact and the Moss Back member are well exposed in these workings and are barren except for very thin seams of uranium-copper minerals sparsely distributed in the Moss Back member just above the contact. The North American property is a short distance southwest of the projected extension of the Mi Vida-Standard ore trend. The workings are connected with the Standard mine for ventilation and were examined.

Further south, a DMEA project on the Ruby Bell et al claims, under Docket No. DMEA 4281, has been carried on just southwest of the Big Buck Nos. 11A, 12,

12A and Idle Day claims. Of 10 holes drilled, 2 holes, Stan-Col No. 1 and Stan-Col No. 12 on the Dorothy May claim--about 150 feet west of the west boundary of the Big Buck No. 11A claim--penetrated ore-grade material (fig. 3). The two holes are included in Table I where drilling results in the area are summarized.

Table I--Summary of chemical assay data from drill holes shown on fig. 3

Hole No.	Thickness (feet)	$\%U_3O_8$
BB10-1	9.0	0.293
BB10-1A	6.0	0.265
BB10-2A	5.0	0.405
BB10-3	2.0	0.116
BB10-5	14.0	0.102
BB10-6	6.0	0.123
BB10-8	8.0	0.174
BB10-12	5.0	0.250
BB10A-1	2.0	0.340
BB10A-5	2.0	0.030
BB12-1	0.2	0.150
Stan-Col-12	1.0	0.04
	3.0	1.24
	4.0	0.79
	1.0	0.45
Stan-Col-1	0.8	0.04
	1.7	0.09
	0.8	1.63

Mining Equipment and Other Facilities

The applicant does not own surface drilling equipment. The Standard mine is fully equipped with shops, ore bins, and other service facilities for the underground operation with a capacity of 500 tons of ore daily. Diesel-powered haulage and loading units are used. Access is through a haulage adit below the ore horizon, equipped for rail transportation. Raises connect to the ore horizon where operations are mechanized as fully as possible, using trackless loading and haulage units and carriage-mounted drilling equipment. Roof-bolting is used extensively.

GEOLOGY

The Big Buck claims are located on the southwest flank of the Lisbon Valley anticline, one of a series of collapsed salt structures in the Paradox Salt Basin. A normal fault along the axis of the anticline displaces the strata as much as 4,000 feet and brings the Jurassic Morrison formation in contact with the Hermosa formation of Pennsylvanian age. From a maximum displacement near the center of the anticline the throw diminishes rapidly toward each end where the fault branches into several smaller faults. The principal fault plane dips about 50° NE. The Big Buck claims lie on the upthrow side of the fault where the beds dip about 8°-10° NE and strike generally NW (fig. 2).

The rocks exposed in the vicinity of the applicant's claims consist of the Wingate sandstone and the Chinle formation of Triassic age and the underlying Cutler-Rico formations of Permian age. The Triassic Wingate sandstone, which elsewhere in the area is as much as 350 feet thick, has been partly eroded on the Big Buck claims and only remnants, about 80 feet thick, are preserved.

The formation consists of red to buff, massive crossbedded fine-grained eolian sandstone that forms prominent cliffs in the area.

The Chinle formation crops out as a steep slope in contrast to the overlying Wingate cliffs. On the Big Buck claims the Chinle formation is about 420 feet thick and is made up of variegated purple, maroon, red, brown and green siltstone and sandy shale with lesser amounts of grayish-green and reddish-brown fine- to coarse-grained lenticular and massive sandstone beds.

The principal ore-bearing sandstone in the Big Indian Wash area is the basal Moss Back member of the Chinle formation. It consists mostly of fluvial, fine- to coarse-grained sandstone with interbedded lenses of mudstone, siltstone and conglomerate. The Moss Back member is characteristically grayish-green in contrast to the predominantly red beds of the overlying Chinle and the underlying Cutler formation. Mudstone and siltstone lenses, scour-and-fill features, carbonaceous material and rapid facies changes are more common near the base of the Moss Back member than in the more massive, relatively well-sorted sandstone beds of the upper part. The contact between the Moss Back member and the underlying Cutler formation is an erosion surface marked by stream channels; consequently the thickness varies from 25 to 60 feet with the thickening generally restricted to the base of the member. On the applicant's claims the average thickness of the Moss Back is about 50 feet.

The underlying Cutler formation of Permian age attains a thickness of about 1,500 feet in the Lisbon Valley area and consists of buff, red and purple, fine-grained, micaceous arkosic and calcareous sandstone with lesser amounts of red and grayish-green mudstone interbeds.

ORE DEPOSITS

Significant uranium deposits in the Big Indian Wash area are found in the lower 30 feet of the Moss Back member although a few spotty, low-grade ore bodies also occur in coarse arkose lenses in the upper part of the underlying Cutler formation. The major ore deposits are restricted to a narrow arcuate belt that appears to be essentially confined between the 6,200 and 6,700 feet contours drawn on top of the Cutler formation (fig. 2). This rather discontinuous belt is more than 1/2 mile wide and approximately 15 miles long and rises up the dip to the southeast. It appears to terminate on the north and south where it intersects the Lisbon Valley fault (fig. 2). Deep exploratory drilling on the downthrow side of the fault may in the future extend the longitudinal limits of the mineralized belt if the fault occurred after the ore was emplaced. The Moss Back member has been eroded in at least 1/3 of the belt, but mineralized rock is present in about 60 percent of the Moss Back that has been preserved within the boundaries of the belt. Scattered drilling on a rather extensive scale, done to the southwest, failed to disclose significant uranium deposits down-dip from the mineralized belt.

Ore bodies within the mineralized belt range in size from small irregular bodies containing a few tons of ore to large tabular masses containing thousands of tons. The principal ore minerals are uraninite and montroseite, which replace calcite and clay cement in the ore-bearing sandstone. Smaller amounts of high-grade uraninite replace carbonaceous material. Other ore minerals consist of vanadium clay and a new, hydrated vanadium oxide mineral which occurs in high-grade vanadium zones. Coffinite, a uranium silicate, locally replaces carbonaceous material in small amounts. Some secondary uranium-vanadium minerals

consisting of metatyuyamunite, corvusite and pascoite coat joint surfaces or occur in more porous zones in the ore-bearing sandstone. Most of the secondary minerals, however, are unimportant as ore minerals. Several sulphides are closely associated with the ore minerals. Pyrite is most common while galena and greenochite are relatively rare. Chalcopyrite and sphalerite have also been identified in minute quantities.

The origin of the ore, and factors that controlled its emplacement, are not clearly understood. It is generally agreed that ore deposits were formed when uranium-vanadium minerals were precipitated from enriched solutions moving through permeable host rock. The source of the uranium and the complex physical and chemical factors that controlled its localization, however, are not clearly understood. Primary sedimentary structures locally appear to be associated with ore bodies, and the position of the mineralized belt may have been influenced in a regional sense by the Lisbon Valley anticline.

The applicant is presently mining a huge ore deposit several hundred feet northwest of the proposed drill area. The mine, known as the Big Buck mine, should not be confused with the old Big Buck mines about a mile to the north where ore was produced from the top of the Cutler formation over a long period. (fig. 2). The Big Buck workings were examined in detail by the field examiners. The ore is largely restricted to the lower 30 feet of the Moss Back member and locally extends a few feet into the top of the Cutler formation. The ore-bearing sandstone consists mostly of a medium-grained sandstone containing lesser amounts of conglomerate, siltstone and mudstone lenses. The ore body is a roughly tabular mass, rectangular in shape, with the long dimension striking about N. 35° W. and dipping gently to the southwest, essentially parallel to the bedding. The thickness of the ore ranges from a few feet to as much as 20 feet and averages

about 10 feet. The thickest ore is found on the northeast where it extends into Steen's MiVida deposit. The grade of ore is fairly uniform throughout the deposit but gradually diminishes toward the northeast limit with no apparent thinning of the ore-bearing sandstone. Along the southwest side, however, the ore-bearing sandstone thins considerably before the limit of the ore is reached. At the present time ore is being mined at the rate of 500 tons per day. Past production and known remaining reserves indicate that Standard's Big Buck ore body is in the 250,000 ton class with the grade averaging 0.22 percent U_3O_8.

ORE RESERVES

The applicant states that the "known" (i. e. blocked out) reserves of the Standard Mine, as of November 1, 1956, totaled 60,000 tons of ore containing 0.20 percent U_3O_8. The reserves carried in Atomic Energy Commission records, as of January 1, 1957, include the former indicated and inferred categories, and total 49,593 tons containing 0.24 percent U_3O_8 and 0.60 percent V_2O_5.

The AEC totals include reserves found on all Big Buck claims explored and developed to date. Figures for the different claims are combined in the records. The totals do not reflect ore shipments since the first part of 1957.

There are no known ore reserves on the four Big Buck claims subordinated under the subject application. However, 2 of 4 holes drilled on the claims penetrated ore-grade material.

PROPOSED EXPLORATION

Applicant's Original Proposal

The original exploration plan submitted by the applicant provided for an estimated 5,880 feet of core and non-core drilling in 21 holes, designed to cover a rectangular area 300 feet by 500 feet southeast of the southernmost

workings of the Standard Mine. One previously drilled hole No. BB10A-1, was utilized in the drilling pattern. All of the holes were on the Big Buck No. 10A claim and covered a projected extension of the Mi Vida-Standard ore trend to the southeast. The locations were tentative and, during the field examination, it was determined that at least six of the proposed drill sites would be inaccessible. The cost estimate in the original application was not totaled. Completing the estimate on the basis of the one drilling bid submitted, the cost was $23,556.00 in which the Government participation at 75 percent would be $17,667.00. The drilling bid, submitted by the Moab Drilling Company, was unsatisfactory because there was no differentiation between core and non-core drilling prices; the average cost for drilling only, would have been $3.75 per foot compared to $2.91 per foot, the average cost at the unit prices applying to the project under Docket No. DMEA 4281, Contract Idm-E1025, where drilling conditions were similar.

Revised Proposal and the Recommended Program

The revised program submitted on March 19, 1957, provided for one stage of exploration drilling in three separated areas on the Big Buck Nos. 10A, 11 and 11A claims. Two parts of the proposal on the Big Buck Nos. 10A and 11A claims appear to have merit. The third, consisting of a single hole at the lower rim on the Big Buck No. 11 claim to test weakly mineralized ground in a Moss Back outcrop to the northeast, would not be likely to furnish worthwhile information, and is not being recommended. Completion of work being recommended on the Big Buck No. 10A and 11A claims might result in information which would serve as a basis for exploration of Big Buck No. 11 claim later.

The applicant's revised program for the Big Buck No. 10A claim is an adaptation of the original proposal with inaccessible drill sites eliminated. It would require 15 holes on 100-foot centers in staggered northeast-southwest

fences across the mineralized trend covering an area of 300 by 500 feet. Three bids for drilling and 2 for bulldozing were supplied with the revision.

After a conference with Mr. Durk, exploration of Big Buck No. 10A claim has been divided into two stages. While the wide hole-spacing normally used in the first stage of DMEA projects is not considered to be necessary in this case, because the mineralized area has already been roughly delimited, it is believed that hole spacing of less than 200 feet along the mineralized trend is not advisable in a first stage. In conformance, Stage I is limited to 3 fences 200 feet apart across the trend (fig. 2) with 3 holes in each fence on 100-foot centers, or a total of 8 holes in addition to previously drilled hole No. BB10A-1 which completes the pattern (fig 3). Stage II would consist of a maximum of 9 holes in three intermediate fences 100 feet southeast of Stage I fences, to be autherized as offsets to Stage I mineralized holes, and staggered in respect to Stage I holes (i.e. northerly, southerly, easterly, westerly from Stage I holes) at not less than 100 feet from previously drilled holes. The maximum number of holes in a Stage II fence would be limited to 4, although it is not likely that this many would be drilled in any fence because of the probability that some of them would fall in inaccessible locations. The examining team found it necessary to shift the entire drilling pattern southeast so that the northwest fence of holes would be a minimum of 100 feet from the northwest boundary of the DMEA project area.

Exploration on the Big Buck No. 11A (fig. 3) claim to test for a possible extension of the ore-grade mineralization found in the two holes drilled under Docket No. DMEA 4281, Contract Idm-E1025, located on the property adjoining on the west, is recommended as proposed by the applicant.

It consists of a north-south fence of 4 holes on 100-foot centers parallel to, and about 120 feet east of, the compromise property boundary (fig. 3). Stage II would provide for four additional holes, if approved, at a minimum of 100 feet from any other hole, but the location of such holes should await the results of Stage I. It is not known at the present time whether the mineralized ground west of the Big Buck No. 11A claim occurs as a continuation of the main northwest-southeast trend of mineralization or as a possible ore body with a long dimension normal to the trend similar to the Little Beaver deposit a short distance north of the project area. As of March 14, 1957, the applicant is drilling one hole east of hole Stan-Cel No. 12 (fig. 3). Drilling results will be made available to the DMEA examiners and may aid in determining the orientation of a possible ore body and the placing of Stage II drill holes. In any case, Stage II holes would probably be east of the Stage I holes somewhere on a Chinle slope which is likely to limit choice of drilling sites.

Following is a summary of drilling:

Stage I:

Big Buck No. 10A claim
8 holes averaging 280 feet deep
1,840 feet of non-core drilling
400 feet of core drilling

Big Buck No. 11A claim
4 holes averaging 490 feet deep
1,760 feet of non-core drilling
200 feet of core drilling

Total Stage I:	12 holes	Non-Core Drilling:	3,600 feet
		Core Drilling :	600 feet

Stage II:

Big Buck No. 10A claim
9 holes averaging 280 feet deep
2,070 feet of non-core drilling
450 feet of core drilling

Big Buck No. 11A claim
4 holes averaging 300 feet deep
1,000 feet of non-core drilling
200 feet of core drilling

Total Stage II:	13 holes	Non-Core Drilling:	3,070 feet
		Core Drilling :	650 feet
Total for project:	25 holes	Non-Core Drilling:	6,670 feet
		Core Drilling :	1,250 feet

The three drilling bids submitted by the applicant are as follows:

Contracter	Non-core per foot	Core per foot	Incidentals per foot
Moab Drilling Company	$ 2.75	$ 4.50	$ 0.21
Pioneer Drilling Company	3.00	4.75	
Fryar Drilling Company	3.00	4.75	

The low bid was made by the Moab Drilling Company. It is not specified in the bid what an item termed "incidentals" consists of, but the following cost estimate is based on the drilling prices quoted and the item "incidentals" is not considered.

The applicant has quoted two prices for bulldozing. The bid by Moab Drilling Company does not specify the size of machine but the examining team was informed verbally that it is a D-6 caterpillar. The price quoted by Moab Drilling Company is $12.00 per hour, the normal rate for a D-7 machine. Bulldozing costs in the estimate are based on the applicant's quotation for use of their own machine at $10.00 per hour which has been the usual charge for a D-6 tractor, heretofore. Some contractors, however, quote higher rates.

The estimated time for completion is based on the use of one drilling one shift per day, drilling an average of 125 feet of core and non-core hole per shift and operating 25 shifts per month. Stage I requires in actual drilling time 33.6 working days, or 1.34 month; Stage II, 29.8 days, or 1.19 months. Time allowed in the following estimate is 1.5 months for each stage which provides for 4 days in Stage I and 7 3/4 days in Stage II for preliminary work such as surveying and bulldozing, and for evaluation of drilling results between stages and consideration of Stage II work.

Stage I:	Estimated time for completion:	1.5 months
	Estimated number of holes :	12
	Estimated footage - non-core :	3,600
	Estimated footage - core :	600

(1) Independent Contracts:

Bulldozing for roads and drill sites 24 hours at $10.00 per hour	$ 240.00	
Drilling, non-core, 3,600 ft. at $2.75	9,900.00	
Drilling, core, 600 ft. at $4.50	2,700.00	
Total drilling - 4,200 feet		
Total Independent Contracts		$12,840.00

(2) Labor, Supervision and Technical Services:

Labor	none	
Supervision, 1 engineer-geologist 1.5 months at $500.00 per month	$ 750.00	
Technical services	none	
Total Labor, Supervision and Technical Services		$ 750.00

(3) Operating Materials and Supplies:

60 cardboard core boxes for 600 feet of core at $1.00 each	$ 60.00	
Gasoline, oil and repairs for 1 vehicle for field use 1.5 months at $50.00 per mo.	75.00	
Surveying, drafting and office supplies for 1.5 mos. at $20.00 per mo.	30.00	
Total Operating Materials and Supplies		$ 165.00

Stage I (cont.):

(4) Operating Equipment:

	Value		
Depreciation, 1 jeep or pickup	$1,800.00		
Depreciation, 1 Babbel counter or probe	800.00		
Depreciation, 1 transit	500.00		
	$3,100.00		
Depreciated on 60 month basis $\frac{\$3,100.00}{60}$ or $51.67 per mo.			
Depreciation for 1.5 months		$ 77.51	
Purchased		none	
Rental		none	
Total Operating Equipment			$ 77.51

(7) Miscellaneous:

Accounting 2 months at $25.00 per mo.	$ 50.00	
Sampling and analyses, maximum of 48 samples analyzed for U_3O_8 and V_2O_5 at $4.00 each	192.00	
Compensation insurance, payroll taxes, etc, on salaries of engineer-geologist-supervisor at 6 percent of $750.00	45.00	
Total Miscellaneous		$ 287.00
Total Stage I		$14,119.51

Stage II:

Estimated time for completion:	1.5 months
Estimated number of holes :	13
Estimated footage - non-core :	3,070
Estimated footage - core :	650

(1) Independent Contracts:

Bulldozing for roads and drill sites 30 hours at $10.00 per hour	$ 300.00	
Drilling, non-core 3,070 ft. at $2.75	8,442.50	
Drilling, core 650 ft. at $4.50	2,925.00	
Total drilling - 3,720 feet		
Total Independent Contracts		$11,667.50

Stage II (cont.):

(2) Labor, Supervision and Technical Services:

Labor	none	
Supervision, 1 engineer-geologist 1.5 mos. at $500.00 per month	$ 750.00	
Technical Services	none	
Total Labor, Supervision, and Technical Services		$ 750.00

(3) Operating Materials and Supplies:

65 cardboard core boxes for 650 ft. of core at $1.00 each	$ 65.00	
Gasoline, oil and repairs for 1 vehicle for field use 1.5 mos. at $50.00 per month	75.00	
Surveying, drafting and office supplies for 1.5 months at $20.00 per month	30.00	
Total Operating Materials and Supplies:		$ 170.00

(4) Operating Equipment:

Depreciation as per schedule in Stage I $51.67 per month for 1.5 months	$ 77.51	
Total Operating Equipment		$ 77.51

(7) Miscellaneous:

Accounting 2 mos. at $25.00 per mo.	$ 50.00	
Sampling and analyses, maximum of 50 samples for U_3O_8, V_2O_5 at $4.00 each	200.00	
Compensation insurance, payroll taxes, etc, on salaries of engineer-geologist-supervisor at 6 percent of $750.00	45.00	
Total Miscellaneous		$ 295.00
Total Stage II		$12,960.01
Total for project		$27,079.52

BREAKDOWN OF COSTS

Distributed as to Type of Drilling--Both Stages

Item	Units	Sub-Total	Total	Non-Core 80 percent	Core 20 percent
(1) Independent Contracts:					
Bulldozing	54 hours		$ 540.00	$ 432.00	$ 108.00
Non-Core drilling	6,670 feet		18,342.50	18,342.50	
Core Drilling	1,250 feet		5,625.00		5,625.00
(2) Labor, Supervision and Technical Services:	3 months	$ 1,500.00	1,500.00	1,200.00	300.00
(3) Materials and Supplies					
Core Boxes for 1,250 ft.			125.00		125.00
Other	3 months	210.00	210.00	168.00	42.00
(4) Operating Equipment:	3 months	155.02	155.02	124.02	31.00
(7) Miscellaneous:					
Chemical analyses	98 samples		392.00		392.00
Other		190.00	190.00	152.00	38.00
Total for project			$27,079.52	$20,418.52	$ 6,661.00

Total less independent contracts
Core boxes and chemical analyses $ 2,055.02

Calculated overall cost-non-core drilling $\frac{\$20,418.52}{6,670'}$ or $3.06 per foot

Calculated cost all drilling $\frac{\$27,079.52}{7,920'}$ or $3.42 per foot

Calculated cost per foot of items (2) (3) (4) (7) which go to make up incidental allowance but not including chemical analyses or core boxes $\frac{\$2,055.02}{7,920'}$ or $0.26 per foot.

Summary of Costs Suggested for Contract Use

Contract Item	Unit	Unit price Maximum	Stage I Units	Stage I Cost	Stage II Units	Stage II Cost	Total Units	Total Cost
Actual Costs								
Bulldozing	hour	$10.00**	24	$ 240.00	30	$ 300.00	54	$ 540.00
Non-core drilling	foot	2.75	3,600	9,900.00	3,070	8,442.50	6,670	18,342.50
Core drilling	foot	4.50	600	2,700.00	650	2,925.00	1,250	5,625.00
Fixed Costs								
Core Boxes	each	1.00	60	60.00	65	65.00	125	125.00
Chemical analyses for U_3O_8 and V_2O_5	each	4.00*	48	192.00	50	200.00	98	392.00
Incidental allowance	foot	.26	4,200	1,092.00	3,720	967.20	7,920	2,059.20

Total Stage I	$14,184.00		
Total Stage II		$12,899.70	
Total for project			$27,083.70
Government participation at 75 percent			$20,312.78

* Schedule of prices for chemical analyses at Smith Laboratory, Moab, Utah.

** See recommendations for substitution of rock work for bulldozing if required.

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that the applicant's claims are located in a geologically favorable area and there is an excellent possibility of finding significant uranium deposits by means of the proposed exploration. The position of the Big Buck No. 10A claim, being adjacent to an operating mine, through which easy access is possible for an ore body discovered on the claim, practically insures that any ore found will be mined, even if the grade of the ore does not prove to be as high as that produced from the Standard mine to date. This is mentioned because the grade of ore in the southeast end of the mine is not as good as that in the northwest end where most of the ore has been mined.

The tenor of mineralization found in the Standard-Col-U-Mex project is high enough to indicate that the grade of any ore extending into the Big Buck No. 11A claim is likely to be good enough to justify a mining operation at a depth of 500 feet, either through a new shaft or by extension of Standard mine workings.

On March 14, 1957, the Standard Uranium Corporation started drilling an off-set hole on the boundary between the Big Buck No. 11A claim and the Dorothy May claim, 100 feet east of Stan-Col hole No. 12 which is the better of two ore holes drilled under the Standard-Col-U-Mex project (Docket No. DMEA 4281). The new hole is not one which would normally be drilled under a DMEA project. The results will, of course, have some bearing on DMEA holes proposed on the Big Buck No. 11A claim, and a change or deletion of some holes might be indicated later if a DMEA contract is approved.

A drilling project in two stages is recommended at an estimated maximum cost of $27,083.70. Government participation at 75 percent would be $20,312.78. Stage I would consist of an estimated 3,600 feet of non-core drilling and 600 feet of core drilling in 12 holes at locations shown on figure 3. Stage II

would consist of a maximum of 3,070 feet of non-core drilling and 650 feet of core drilling in not more than 13 holes, to be drilled not less than 100 feet from the property boundary or any previously drilled holes. They are to offset Stage I holes, which are considered to be mineralized and are authorized by the Government. Recommended Stage II drilling is discussed in the section entitled "Revised Proposal and Recommended Program".

The usual provisions governing minimum size of core (BX), radiometric probing, chemical analyses of mineralized core, full-time employment of a geologist-engineer, minimum hole spacing in regard to all previously drilled holes, and hole bottoming depths should be incorporated in the contract. Holes should be bottomed in not less than 3 feet but not more than 10 feet of red, Cutler sandstone and should be cored from a point approximately 30 feet above the Chinle-Cutler contact.

A provision to substitute for bulldozing (if required), the use of a compressor and rock drill together with labor, explosives and other supplies, at an hourly rate not exceeding $7.50, is recommended at a cost which would not exceed the maximum total cost allowed for bulldozing.

Transfer of Stage II funds for bulldozing, non-core drilling, core-drilling, and core boxes to Stage I, if necessary to complete Stage I work, is recommended with prior written Government approval; Stage II allowances would be reduced a corresponding amount.

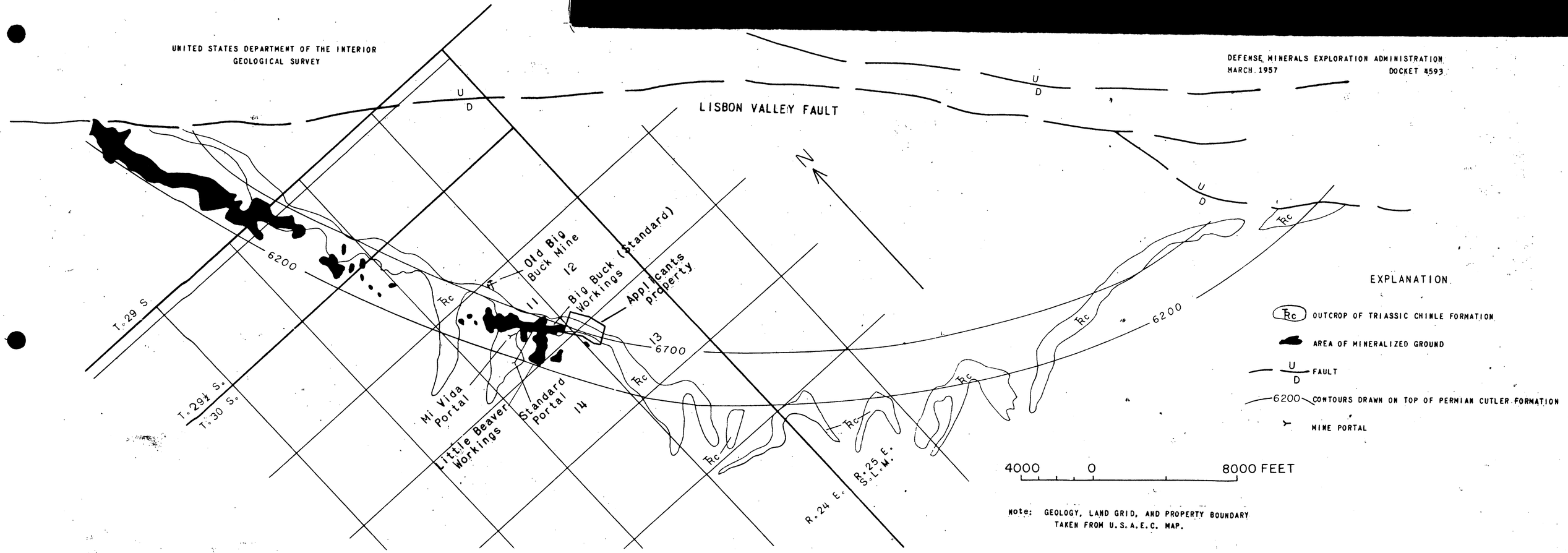


FIGURE 2.--SKETCH MAP SHOWING APPLICANTS PROPERTY RELATIVE TO THE LISBON VALLEY MINERALIZED BELT, OUTLINE OF MINERALIZED GROUND AND THE LISBON VALLEY FAULT, STANDARD URANIUM CORPORATION, SAN JUAN COUNTY, UTAH.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
MARCH 1957 DOCKET 4593

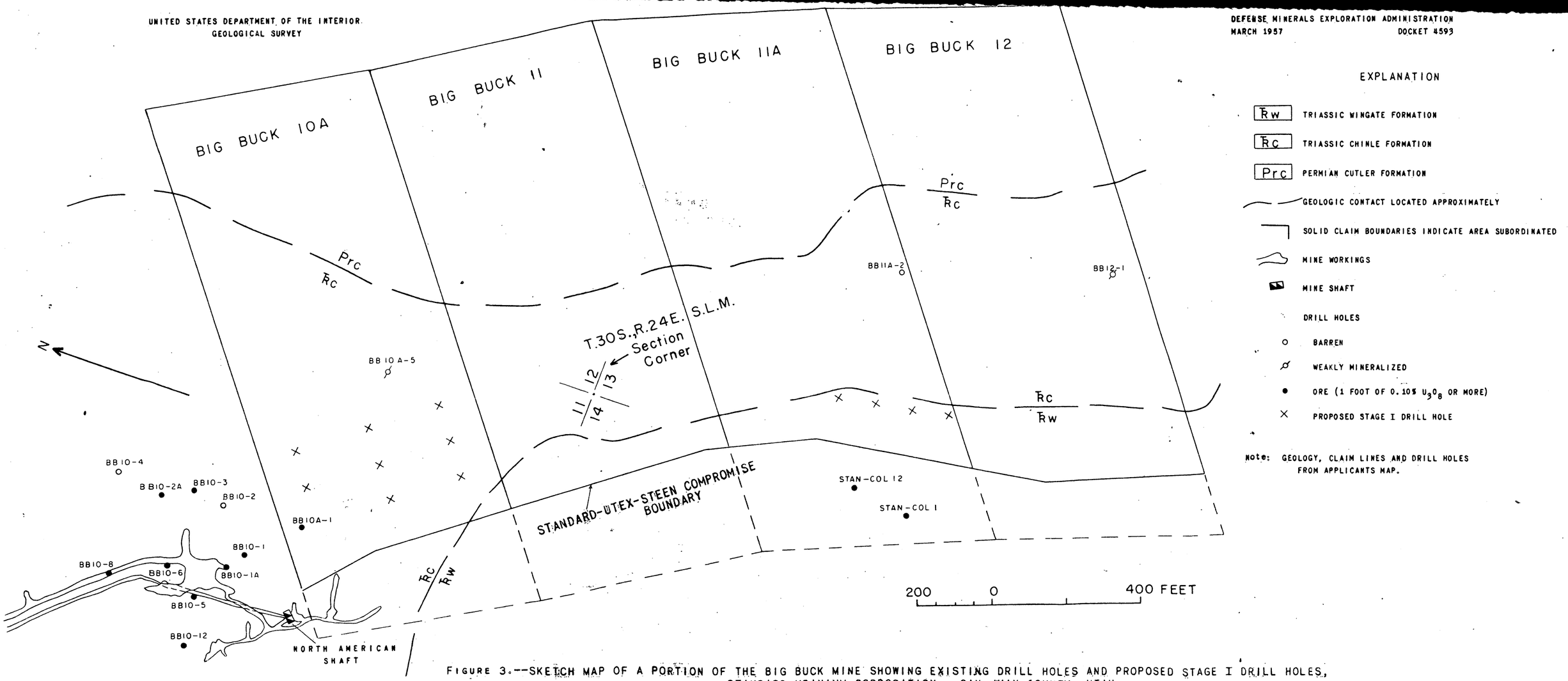


FIGURE 3.--SKETCH MAP OF A PORTION OF THE BIG BUCK MINE SHOWING EXISTING DRILL HOLES AND PROPOSED STAGE I DRILL HOLES, STANDARD URANIUM CORPORATION, SAN JUAN COUNTY, UTAH.

OFFICIAL FILE COPY
DMEA
RECEIVED APR 8 1957

DATE	INITIALS	CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED APR 11 1957

DATE	INITIALS	CODE
4/11	C	220
"	Ellis	700
	Murphy	

AIR MAIL

April 9, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4593 (Uranium) Standard Uranium Corporation (Big Buck Claims) San Juan County, Utah

Enclosed for your consideration and appropriate action is a copy of a letter dated April 5, 1957, from Russell L. Wood, Standard Uranium Corporation, which requests that action on the subject docket be delayed pending results of the underground development program now in progress.

We will appreciate being advised of your decision, by copy of the Washington's office reply, to the Applicant's request.

E. N. Harshman

E. N. Harshman

Enclosures

STANDARD URANIUM CORP.
264 SOUTH 4TH EAST
MOAB, UTAH

April 5, 1957

DMEA
DEPARTMENT OF THE INTERIOR
APR 8 - 1957
REGION III
DENVER, COLORADO

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

Re: Standard Uranium Corporation
DMEA Loan Application
Dated: November 29, 1956

Dear Sir;

Since submitting our original application for a DMEA loan on our Big Back Property, we have had some recent developments in the area which make it desirable to postpone starting on the project. Therefore, we would like to request that action on our application be deferred, if possible.

During the months of January and February of this year, drilling on another DMEA project to the South disclosed a commercial orebody which will be mined by a joint venture between Standard and Col-U-Mex Uranium Corporation. In addition we have been able to extend the limits of known ore for a considerable distance towards the loan application area from our mine workings to the North.

Because of these two additional orebodys on the North and South ends of the area in question, we feel that there is a strong possibility that this area will be explored by underground development in the next few months. Therefore we would like to delay any immediate action pending the results of our underground development program now in progress.

We thank you for your consideration in this matter.

Very truly yours

STANDARD URANIUM CORPORATION

Russell L. Wood

Russell L. Wood
Assistant General Manager

RLW/cm

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 29 1957

DATE	INITIALS	CODE
3/29	C	220
	~~[illegible]~~	~~700~~

March 25, 1957

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket DMEA 4593 (Uranium) Standard Uranium Corporation (Big Buck claims) San Juan County, Utah

Enclosed is the following material pertaining to the subject docket:

1. Original and one copy of the supplement of the subject application

2. One copy of assignment of property to Standard Uranium Corporation

3. One copy of amendment to original agreement of sale

4. Two copies of transmittal memorandum on the foregoing to this office by A. S. Konselman, USBM, dated March 21, 1957.

Cursory inspection of the enclosed supplement indicates the applicant proposes to modify the original work by drilling fewer holes and subordinating less ground than originally indicated.

E. N. Harshman

E. N. Harshman

Enclosures

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 29 1957

DATE	INITIALS	CODE

DMEA
DEPARTMENT OF THE INTERIOR
MAR 21 1957
REGION III
DENVER, COLORADO

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
March 21, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw

Subject: Docket DMEA 4593 (Uranium) Standard Uranium Corporation (Big Buck claims) San Juan County, Utah

Mr. Salsbury informs us that he received the following material:

6 copies of a supplement to subject application with maps
2 copies each of an assignment of the property to Standard Uranium Corporation and an amendment to the original agreement of sale
1 copy each of 2 drilling bids, 1 combined drilling and bulldozing bid, and 1 bulldozing bid

He has forwarded the following which you will find enclosed:

5 copies of the supplement to subject application with maps
1 copy assignment of property to Standard Uranium Corp.
1 copy amendment to original agreement of sale

He has retained the following which he will place in the Survey copy of the applicant's brochure:

1 copy of supplement with map
Drilling and bulldozing bids
1 copy of assignment of property to Standard Uranium Corp.
1 copy of amendment to original agreement of sale

A S Loureiro for
John F. Shaw
Supervising Mining Engineer

JFS/mw
cc: 9 DMEA 4593 Chron

WO(2)

STANDARD URANIUM CORP.
264 SOUTH 4TH EAST
MOAB, UTAH

March 15, 1957

DMEA
DEPARTMENT OF THE INTERIOR
MAR 21 1957
REGION III
DENVER, COLORADO

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

Re: Standard Uranium Corporation DMEA
Loan application, dated Nov. 29, 1956

Dear Mr. Traver:

Upon field examination by Mr. M. H. Salsbury and W. B. Gazdik, we find it advisable to amend certain sections of the original application.

Mr. Salsbury also pointed out certain deficits in the application, namely (1) Assignment of agreement between Steen, McCormick, Hayes, Adams, et al, to Standard Uranium Corporation, (2) Consent to lien from Hayes, Adams, Saul and Adams, (3) Three bids from independent drill contractors, and (4) Bids to support our estimated cost on the D-6 cat work. These items are also endorsed, except for the consent of lien from Hayes, Adams, Saul and Adams, which will follow at a later date.

You will note that there is only two bids on tractor time. These are the only two tractors in the district that are available for rent at the present time.

We trust these amendments will meet with your approval.

Yours truly,

STANDARD URANIUM CORPORATION

James B. King, Jr.
James B. King, Jr.
Office Manager

Approved: Wm. R. McCormick
Wm. R. McCormick

JBK/bg

DMEA
RECEIVED MAR 29 1957
DATE | INITIALS | CODE

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

224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 25 1957

DATE	INITIALS	CODE
2/25	C	220
2/25	Murphy	700

February 20, 1957

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 4593 (Uranium) Standard Uranium Corporation (Big Buck claims) San Juan County, Utah

Enclosed are two copies of a joint memorandum from the Field Examiners commenting on the inadequacy of the subject docket and reviewing the suggestions made to the applicant at the time of the examination.

It appears that the applicant will revise his original application on the basis of a more realistic drilling program, than originally submitted; the revised application is to designate fewer claims than originally listed.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

MINERALS DIVISION
IN REPLY REFER TO:
DMEA
RECEIVED
FEB 18 1957
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
DEPARTMENT OF THE INTERIOR
FEB 18 1957
REGION III
DENVER, COLORADO

P. O. Box 360
Grand Junction, Colorado

OFFICIAL FILE COPY
D M E A
RECEIVED FEB 25 1957
DATE | INITIALS | CODE

February 15, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: J. William Hasler
J. F. Shaw
E. N. Harshman

From: M. H. Salsbury
W. B. Gazdik

Subject: Docket No. DMEA 4593 (Uranium), Standard Uranium Corporation (Big Buck claims) San Juan County, Utah

A field examination of the subject property was made on February 13, 1957 in company with R. R. Durk, superintendent for the applicant. The proposed exploration appears to be justified and a DMEA program will probably be recommended by the examining team.

While inspecting the proposed drilling area, it was apparent that the hole sites designated by the applicant were not realistic, having been spotted on a map without reference to actual terrain conditions. It will be necessary therefore, to revise the drilling pattern and make actual locations with due regard for the topography and property boundaries, and also to determine collar elevations to serve as a basis for drilling footage estimates.

The applicant is going to proceed with this revision, and also furnish three drilling bids on the basis of revised drilling footages.

Since the application under the subject docket was made, drilling exploration under Docket No. DMEA 4281, Contract Idm-E 1025 Standard Col-U-Mex Joint Venture, in an area west of and adjoining the applicant's Big Buck No. 11A claim has resulted in discovery of ore grade material in one hole. Standard Uranium Corporation personnel have been supervising this work. Mr. Durk stated that if offsetting of the ore hole is encouraging, he would like to amend the application under Docket No. DMEA 4593 to include drilling on the Big Buck No. 11A claim to explore for a possible extension of this mineralized material.

The application will also be amended to designate only certain claims to be included in the project instead of the fifteen originally listed.

M. H. Salsbury
M. H. Salsbury
Bureau of Mines

W. B. Gazdik
W. B. Gazdik
Geological Survey

MHS/bh

EXTRA COPY
DMEA
RECEIVED
DATE | INITIALS | CODE

224 New Customhouse
Denver 2, Colorado

February 20, 1957

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 4593 (Uranium) Standard Uranium Corporation (Big Buck claims) San Juan County, Utah

Enclosed are two copies of a joint memorandum from the Field Examiners commenting on the inadequacy of the subject docket and reviewing the suggestions made to the applicant at the time of the examination.

It appears that the applicant will revise his original application on the basis of a more realistic drilling program, than originally submitted; the revised application is to designate fewer claims than originally listed.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

MHM:eh
cc: Shaw (2)
Hagler
Harshman
Townsend
Corres. E 1025
Docket 4593
w/c Memo Dtd. 2/15/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colorado

IN REPLY REFER TO:

MINERAL RESOURCES
DMEA
RECEIVED
FEB 18 1957
U.S.
GEOLOGICAL SURVEY
DENVER, COLORADO

DMEA
DEPARTMENT OF THE INTERIOR
FEB 18 1957
REGION III
DENVER, COLORADO

February 15, 1957

EXTRA COPY
DMEA
RECEIVED FEB 25 1957
DATE | INITIALS | CODE

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: J. William Hasler
J. F. Shaw
E. N. Harshman

From: M. H. Salsbury
W. B. Gasdik

Subject: Docket No. DMEA 4593 (Uranium), Standard Uranium Corporation (Big Buck claims) San Juan County, Utah

A field examination of the subject property was made on February 13, 1957 in company with R. R. Durk, superintendent for the applicant. The proposed exploration appears to be justified and a DMEA program will probably be recommended by the examining team.

While inspecting the proposed drilling area, it was apparent that the hole sites designated by the applicant were not realistic, having been spotted on a map without reference to actual terrain conditions. It will be necessary therefore, to revise the drilling pattern and make actual locations with due regard for the topography and property boundaries, and also to determine collar elevations to serve as a basis for drilling footage estimates.

The applicant is going to proceed with this revision, and also furnish three drilling bids on the basis of revised drilling footages.

Since the application under the subject docket was made, drilling exploration under Docket No. DMEA 4281, Contract Idm-E 1025 Standard Col-U-Mex Joint Venture, in an area west of and adjoining the applicant's Big Buck No. 11A claim has resulted in discovery of ore grade material in one hole. Standard Uranium Corporation personnel have been supervising this work. Mr. Durk stated that if offsetting of the ore hole is encouraging, he would like to amend the application under Docket No. DMEA 4593 to include drilling on the Big Buck No. 11A claim to explore for a possible extension of this mineralized material.

The application will also be amended to designate only certain claims to be included in the project instead of the fifteen originally listed.

M. H. Salsbury
Bureau of Mines

W. B. Gazdik
Geological Survey

MHS/bh

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
FEB 6 1957
REGION III
DENVER, COLORADO

February 5, 1957

Memorandum

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

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket No. DMEA 4593 (Uranium) Standard Uranium Corporation (Big Buck claim group) San Juan County, Utah

The application for Standard Uranium Corporation, Docket DMEA 4593 in the amount of $23,556.00 was received in this office on February 4, 1957.

A field examination will be made and suitable report prepared by an engineer from the Grand Junction or Denver office.

W. H. KING

W. H. King

cc: W. M. Traver (2)
E. N. Harshman
J. W. Hasler
M. H. Salsbury
J. F. Shaw

ORIGINAL FILE COPY
DMEA
RECEIVED FEB 11 1957

DATE	INITIALS	CODE
2/12	C	
		220
		720

Sec 2

OFFICIAL FILE COPY
DMEA
RECEIVED 19

DATE	INITIALS	CODE
2-4	C	220
2-4	Murphy	700

224 New Customhouse
Denver 2, Colorado

February 1, 1957

Memorandum

To: W. H. King (2) (w/c Appl. Chmn. Letter & Memoranda)
J. W. Hasler (w/c Chmn. Letter & Memoranda)

From: DMEA Field Team, Region III

Subject: Docket No. DMEA-4593 (Uranium) Standard Uranium Corporation (Big Buck Claim Group) San Juan County, Utah

Enclosed are a copy of the subject application in the amount of $23,556.00, its transmittal by the Chairman of the Operating Committee to the Executive Officer for transmittal to the field and memoranda of review by James Paone, USBM, and N. E. Nelson, USGS. A field examination and suitable covering Report of Examination are requested.

Your particular attention is called to the last two paragraphs of the Chairman's letter. If a project is likely to be recommended please advise this office and we will take steps to obtain the properly executed 205 Forms. Also advise the applicant during the examination concerning royalty provision of contracts.

Please return the Bureau of Mines copy of application to this office with your report of examination.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosures
WMT:eh
cc: Sec. Op. Comm. (2)
Harshman) w/c Chmn. Letter
Docket 4593) & Memoranda
Chron.

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
1-25	Murphy	700
1-25	Elgin	700
1/28	Selfridge	130
"	Johnson	110
"	Mackenzie	100
		225

JAN 28 1957

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

Re: Docket No. DMEA-4593 (Uranium)
Standard Uranium Corporation
Big Buck Claim Group
San Juan County, Utah

Dear Mr. Traver:

The captioned application is referred to Region III Field Team for investigation, a field examination, and recommendations.

Enclosed are copies of memoranda, dated January 22 and 23, 1957, by N. E. Nelson, USGS, and James Paone, USBM, respectively, relating to the application. Also enclosed is one copy of the application for Field Team use.

The observations in your memorandum of January 2, concerning the lack of drilling bids and the assignment of the lease to the Applicant have been noted. In the event the Field Team concludes a project is warranted, it should advise the Applicant our requirements in these matters, and also that we will require six copies of Form IF-205 executed by the signers of the Agreement, dated December 1, 1953, wherein W. R. McCormick and Charles A. Steen obtained the rights to the claims. If the latter two gentlemen retain an overriding royalty on the production from the claims we will also require six copies of Form IF-205 signed by them.

Production from the claims listed in the application is given as 400-500 tons per day. The Applicant should be advised concerning the royalty provisions under Article 8 (b)(1) of contract Form IF 200. It is possible that the Applicant, under these conditions, might desire to exclude certain production areas.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures
APPROVED:

Frank D. Lamb (GCS)
Member, Bureau of Mines

N. E. Nelson (GCS)
Member, Geological Survey

FMMurphy/izm 1-25-57
cc to: Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
Messrs. JECrawford, 3643
THKiilsgaard, 5224
JKratchman, AEC

R.C.F.

8623

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
1-25	Murphy	700
1-25	Ellis	700
1/28	Selbridge	130
"	Johnson	410
"	Mittendorf	100
1-29	cw	220

700

JAN 28 1957

Mr. William R. McCormick, President
Standard Uranium Corporation
264 South 4th East
Moab, Utah

Re: Docket No. DMEA-4593 (Uranium)
Big Buck Claim Group
San Juan County, Utah

Nelson
Lamb

Dear Mr. McCormick:

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 for a field examination 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 at the earliest opportunity in regard to your project.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

FMMurphy/izm 1-25-57
cc to: Code 700
Mr. Murphy
Admr.'s Reading File
DMEA FT Reg. 3 (2)

8623

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 24 1957

DATE	INITIALS	CODE
1-24	CW	220
1-28	Ellis	700
	Murphy	700

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

Date January 23, 1957

DMEA Docket No. 4593
DMEA Contract No.
Commodity Uranium
Name of applicant Standard Uranium Corp.
Name of property Big Buck Claim Group
Location of property San Juan County, Utah
Estimated cost of project $23,556.

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Review of Application
(Application, Field Team Report, etc.)

1. Date of subject document: 1/14/57. 2. Date received by reviewer: 1/16/57.

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

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

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

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

7. Explain items marked yes above:

DMEA Docket 4281, Standard Col-U-Mex Joint Venture; Manuscript re: Mining operations of Standard Uranium's Big Buck Mine

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 [x]
c. Denial [ ]
d. Agree with Field Team [ ]
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. Jac k Kratchman, Washington representative of the Atomic Energy Commission, assisted in the review.

IN REPLY REFER TO:

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

OFFICIAL FILE COPY DMEA RECEIVED JAN 24 1957		
DATE	INITIALS	CODE
1-24	C	220
1-24	Ebb	700 complete
"	Mergin	

January 22, 1957

Re: DMEA 4593
Standard Uranium Corp.
Big Buck Group
San Juan County, Utah
$23,556 - Uranium

Memorandum

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

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

Subject: Review of application

The applicant, a successful operator, requests assistance in exploring for the extension of known ore bodies, from which a current production of 400-500 tons per day of 0.21% U_3O_8 ore is being taken.

Known ore reserves amount to 60,000 tons of 0.20% material and I assume the known ore is included in the project area, but such is not said. The map D-121 does not show a project area as such.

If such is the case an examination seems uncalled for, but the reviewers consider an examination warranted.

I recommend that the application be referred to the Field Team for appropriate action.

N. E. Nelson

N. E. Nelson

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

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 16 1957

DATE	INITIALS	CODE
1-16	cw	220
1-16	~~[illegible]~~	700
1-16	Murph	700

224 New Customhouse
Denver 2, Colorado

January 14, 1957

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: DMEA Docket 4593 (Uranium) Standard Uranium Corp. (Big Buck Claim Group) San Juan County, Utah

Enclosed are the original and three copies of a joint review of the subject application by members of the Grand Junction Office, DMEA. They believe that this general area is favorable for exploration, and they recommend that a field examination be made. We concur in this recommendation.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

MINERAL DEPOSITS
DMEA
RECEIVED
JAN 11 1957
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
DEPARTMENT OF THE INTERIOR
JAN 11 1957
REGION III
DENVER, COLORADO

P. O. Box 360
Grand Junction, Colorado

January 10, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 16 1957

DATE	INITIALS	CODE

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman

From: J. William Hasler
M. H. Salsbury

Subject: Standard Uranium Corporation, DMEA docket 4593 (Uranium)
Application for DMEA assistance on the Big Buck claim group,
Lisbon Valley area (Monticello mining district),
San Juan County, Utah

The Standard Uranium Corporation has applied for assistance to explore for possible extension of known ore bodies now being mined on the Big Buck group of claims. The Big Buck claims lie in sections 11, 12, 13, and 14, T. 30 S., R. 24 E., SLM., and include the Big Buck Nos. 4-A, 5, 6, 7, 8, 8-A, 9, 9-A, 10, 10-A, 11, 11-A, 12, 12-A and the Idle Day claim.

The Big Buck mine is presently producing from 400 to 500 tons per day and has produced a total of 190,000 tons, averaging 0.4 percent U_3O_8 as of November 1, 1956. The current production per month is between 8,000 to 10,000 tons of ore averaging 0.21 percent U_3O_8 and aplicant estimates known ore reserves amounting to 60,000 tons of 0.20 percent U_3O_8.

Exploration on the proposed area, as outlined by the company, will necessitate some 21 drill holes with an average depth of about 280 feet, at an estimated cost of $23,556.

The area which the applicant wishes to explore lies partly in an area considered to be underlain by material of 0.10 percent U_3O_8 as shown on figure 3, DMEA docket 4281, Standard Col-U-Mex Joint Venture. The ore deposits are found in the basal Chinle and in the upper portion of the underlying Cutler formation. It appears as though the area is favorable for exploration and it is, therefore, recommended that a field examination be made.

J. William Hasler
J. William Hasler,
Geological Survey

M. H. Salsbury by HFR
M. H. Salsbury,
Bureau of Mines

MHS/mlr

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

January 4, 1957

Standard Uranium Corp.
264 So. 4th East
Moab, Utah

Subject: DMEA-4593

Gentlemen

Your application for exploration assistance, dated November 29, 1956 submitted to our office at Denver, has been assigned Docket Number DMEA-4593 and referred to the Rare and Miscellaneous Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

(Sgd) Allen S. Dakan

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region III. Denver, Colorado

Code 700

6416

4593

Murphy 700

RECEIVED 31 DMEA

224 New Customhouse
Denver 2, Colorado

December 28, 1956

Mr. I. Newton Brozan, Secretary
Standard Uranium Corporation
544 Chrysler Building
New York 17, New York

Re: Application for DMEA Aid (Uranium)
Standard Uranium Corporation
(Big Buck Mine) San Juan County, Utah

Dear Mr. Brozan:

This is to advise that we have not as yet received the two copies of the captioned application, which we requested in our letter to you, dated December 12, 1956.

We are unable to start to process your application until we have four complete copies. Will you please advise by return mail when we may expect to receive these copies of your application.

Yours very truly,

Original signed by
W. M. TRAVER

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

HMC:ytl
cc: Mr. William R. McCormick, President, Standard Uranium Corporation
264 South Fourth East
Moab, Utah

Sec. Op. Comm. (2)
Subject
Chron.

224 New Customhouse
Denver 2, Colorado

RECEIVED
DEC 31 1956
DMEA

December 12, 1956

Mr. I. Newton Brozan, Secretary
Standard Uranium Corporation
544 Chrysler Building
New York 17, New York

Dear Mr. Brozan:

This will acknowledge receipt of your letter dated December 11, 1956, and two copies of your DMEA application on the Big Buck Mine.

Four completed copies of the application are required, and we will be unable to process your application until we receive two more copies.

Enclosed are two copies of Form MF-103, and upon receipt by this office of these properly executed copies and the attached information, similar to the two copies we received from you, we will continue to process your application.

Yours very truly,

Original signed by
J. W. TOWNSEND

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

Enclosures

HMC:ytl

cc Mr. William R. McCormick, President, Standard Uranium Corporation
264 South Fourth East
Moab, Utah
(w/encs.)

Subject
Chron.

STANDARD URANIUM CORPORATION
844 CHRYSLER BUILDING
NEW YORK 17, N. Y.

LEXINGTON 2-6870

DMEA
DEPARTMENT OF THE INTERIOR
DEC 12 1956
REGION III
DENVER, COLORADO

Dec. 11, 1956

U.S. Department of Interior
Defense Minerals Exploration Administration
Denver, Colorado

Gentlemen: Re DMEA Application

We enclose herewith application duly executed by our President with respect to the company's Big Buck Claims located in Sections 11, 12, 13 and 14, Township 30S, Range 24E, Salt Lake Meridian, pending Patent Survey No. 7261.

An expedite with respect to these applications would be greatly appreciated.

Any additional information required can be obtained either by mail addressed to our President, William R. McCormick, Moab, Utah, or by long distance telephone call, collect, to our office at Moab, telephone number Alpine 3-5681.

Thank you for any courtesies you may extend.

Respectfully,

STANDARD URANIUM CORPORATION

By I. Newton Brogan, Secretary

INB:lgk
Encls.

U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at a
2. Void previous block.
3. Write clearly.

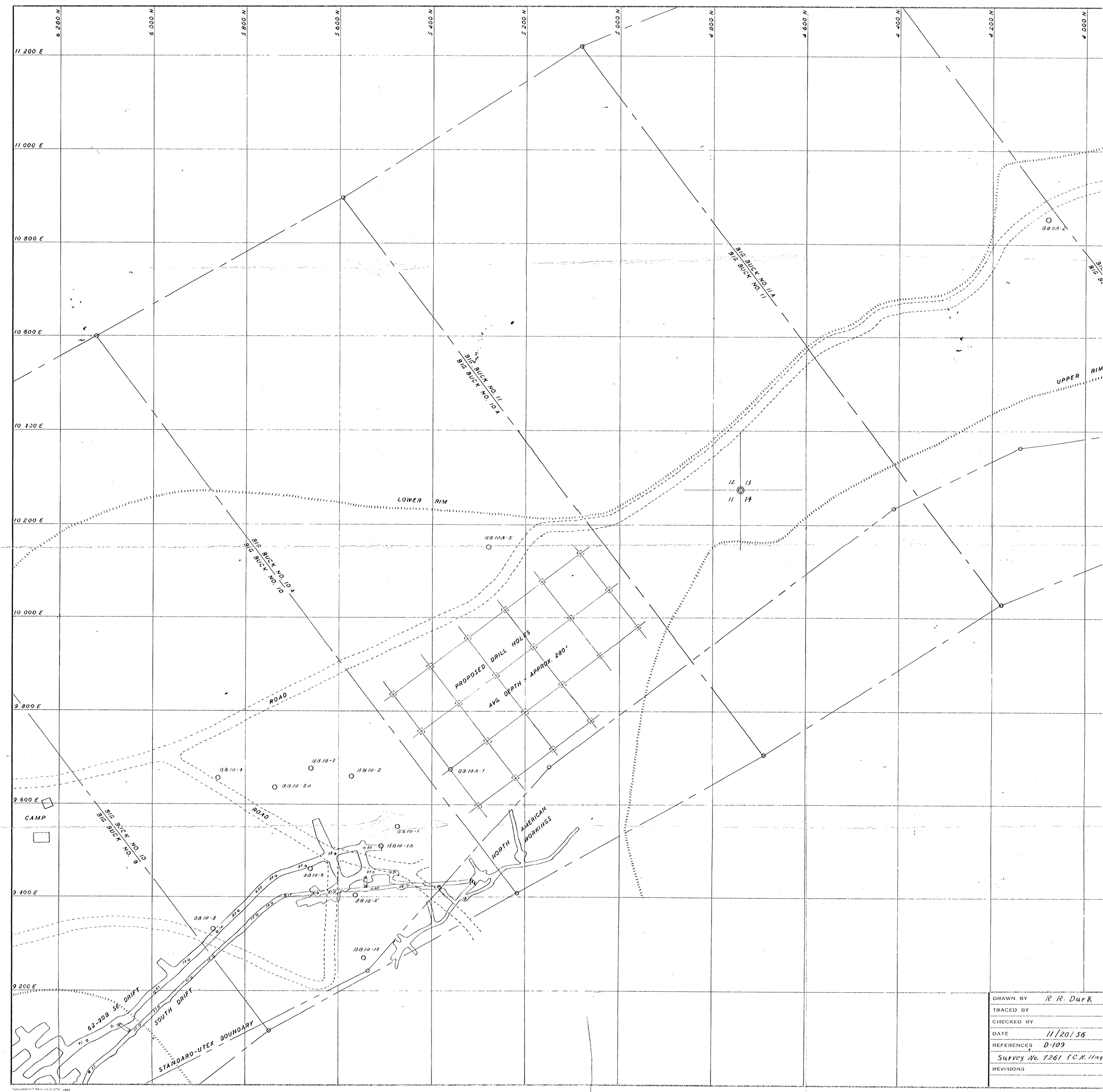
NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
[illegible]	RUN STOP	[illegible]	RUN STOP
[illegible] Branch	RUN 16 STOP 43	~~Ferrous Metals~~	RUN STOP
[illegible]	RUN STOP	~~Div. of Minerals~~ ~~3616~~	RUN STOP
~~Auditor~~	RUN STOP	~~Alex Hand~~	RUN STOP
[illegible]	RUN STOP	Mr. Mittendorf	RUN STOP
[illegible]	RUN STOP		RUN STOP
[illegible]	RUN STOP		RUN STOP
Howard F. Cook, College Park, Md.	RUN STOP		RUN STOP
~~Betty Parker~~ ~~Rm 3610, WO~~	RUN STOP		RUN STOP
Light Metals Br.	RUN STOP		RUN STOP

Send surplus envelopes to supply room for reissue.

Use other side

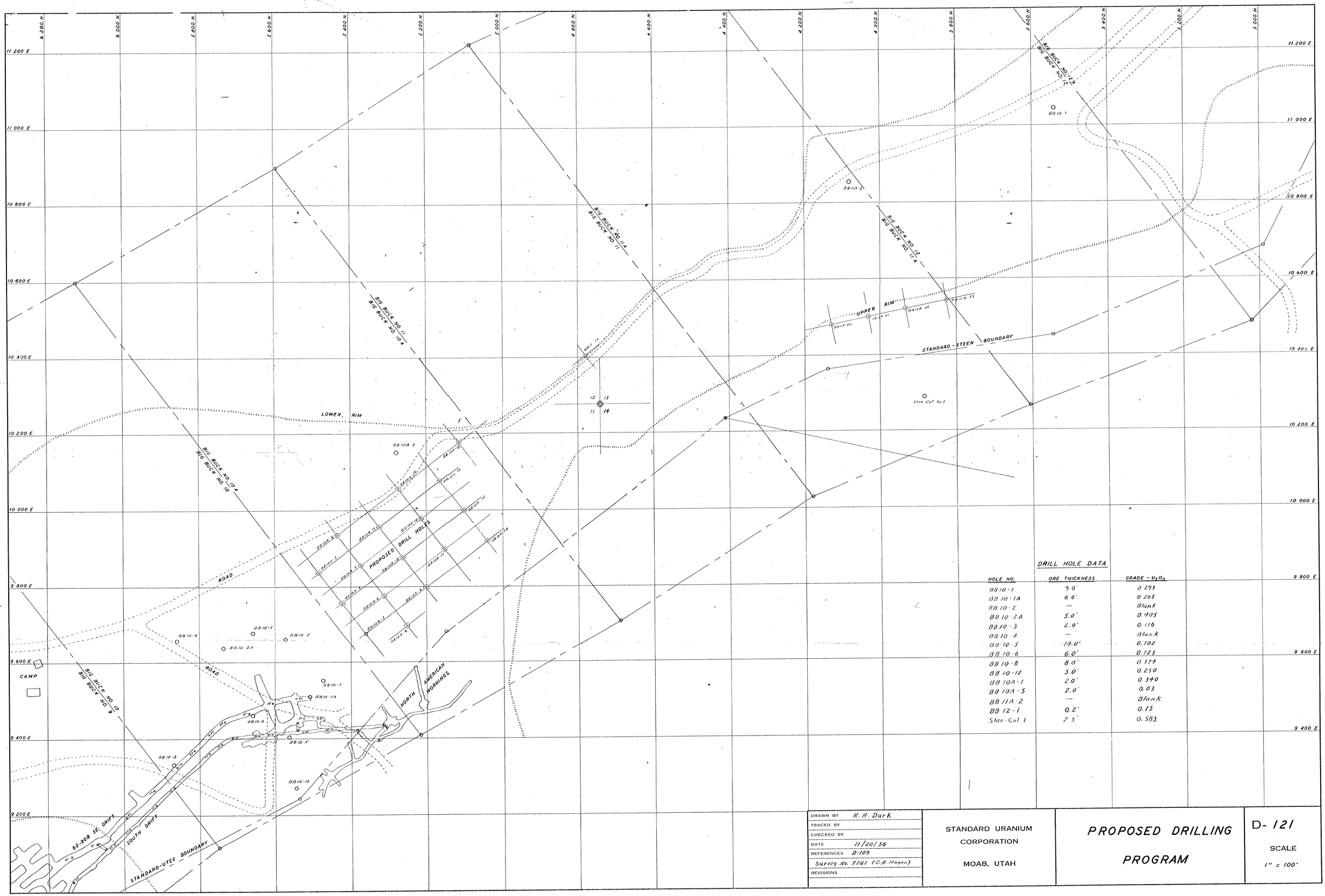
16—

Use RUN and STOP only when messenger service between Government buildings in Washington is required.
Your mail room has RUN and STOP information.



DRAWN BY	R. R. Durk
TRACED BY	
CHECKED BY	
DATE	11/20/56
REFERENCES	D-109
	Survey No. 7261 (C.R. 11a)
REVISIONS	

"TAKARIGH" TRACING CLOTH 2000
K & E CO. N.Y.



DRILL HOLE DATA

HOLE NO.	ORE THICKNESS	GRADE - U_3O_8
BB 10-1	9.0'	0.293
BB 10-1A	6.0'	0.265
BB 10-2	—	Blank
BB 10-2A	5.0'	0.105
BB 10-3	2.0'	0.116
BB 10-4	—	Blank
BB 10-5	14.0'	0.102
BB 10-6	6.0'	0.123
BB 10-8	8.0'	0.174
BB 10-12	5.0'	0.250
BB 10A-1	2.0'	0.340
BB 10A-5	2.0'	0.03
BB 11A-2	—	Blank
BB 12-1	0.2'	0.15
Stan-Col 1	2.5'	0.583

DRAWN BY	R. R. Durk
TRACED BY	
CHECKED BY	
DATE	11/20/56
REFERENCES	D-109
	Survey No. 7261 (C.R. Hagen)
REVISIONS	

STANDARD URANIUM CORPORATION

MOAB, UTAH

PROPOSED DRILLING PROGRAM

D- 121

SCALE

1" = 100'