IMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4638

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(Withdrawn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

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

224 New Customhouse
Denver 2, Colorado

February 13, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 15 1957

DATE	INITIALS	CODE
	DMEA	

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium) A. D. Rice and R. W. Dodds (Toby; No Such; Big Horn; and Buck Brush, Buck Tail, and Buck Horn Claim Groups) Grand County, Utah

Enclosed are the original and one copy of the subject application for $34,120.00. One copy of the application is being forwarded to the Grand Junction, Office, DMEA. One copy is being retained in our file.

Cursory inspection indicates the applicant bases his drilling costs on bids submitted by only two drilling companies. The bids, incidentally, make reference only to the price per foot for core drilling. Non-core drilling is not mentioned by either of the bids or the applicant.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

1315 Colorado Avenue
La Junta, Colorado
February 11, 1957

DMEA
DEPARTMENT OF THE INTERIOR
FEB 13 1957
REGION III
DENVER, COLORADO

Executive Officer
DMEA Field Team
224 New Customhouse
Denver 2, Colorado

Dear Sir:

Enclosed find Application for Aid in Exploration Project Pursuant to DMEA Order No. 1.

We have 57 claims in the Thompsons-Yellow Cat area in Grand County, Utah, over which we have been surface prospecting for a year, and now we feel core drilling is warranted. We feel it would take about ten thousand (10,000) feet of drilling to explore this area properly.

We would like this aid under the unit cost contract, and enclosed with the application and other papers are estimates for core drilling from two drilling companies. Three dollars and twenty-five cents ($3.25) a foot appears to be what their estimates run, and what we had figured.

We have a drill rig and intend to do this work ourselves, with Dodds, who has had a year's experience in this territory, with headquarters at Moab, to be in charge of field operations.

Your consideration of this loan will be greatly appreciated.

Very truly yours,

A D Rice

Rice & Dodds
by A. D. Rice

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DATE	INITIALS	CODE

3.0.

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
FEB 12 1957
DENVER, COLORADO
FEB 15 1957
DMEA

Not to be filled in by applicant

Docket No. 4638
Metal or Mineral Uranium
Date Received 2-15-57
Estimated Cost $34,120.00
Participation (Government %)

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

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: A.D. Rice 1315 Colorado Ave. La Junta Colo
R.W. Dodds Box 1222 Moab Utah
Partnership of Uncle and Nephew

(*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 Unpatented mining claims-listed on attached supplement No. I

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owner of Unpatented Mining Claims

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it none

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. attached supplement No. I

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. supplement No. 2

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. approx. 4 tons .35%

(*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. supplement #3 Please return, to A.D. Rice

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

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

16—66551-1

sufficient manpower,materials,equipment-20miles to water & no power.

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

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc. Supplement #5

(*c*) The work will start within 6 10 57 days and be completed within 10 1 58 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. supplement #6

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: No. 7

(*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.). supplement #7-a

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants. No. 7-b

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

(*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. supplement 7-d

(*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. None

(*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. None

(*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. supplement #7-g

(*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. None

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

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

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

Explain in detail on acompanying paper. Supplement #18

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 February 11, 1957

A S R

A S Price
(Applicant)

and F. W. Radel

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

Rice & Dodds 1317 Colo. La Junta Colo

Supplements Attached.

No. I

No. 2

No. 3 with University of Utah Bulletin #46 by Wm. Lee Stokes

No. 4

No. 5

No. 6

No. 7

No. 7-a

No. 7-b

~~No. 7-d~~

No. 7-g

No. 8

To be Returned

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DATE	INITIALS	Co.

Supplement No. 1

Unpatented Mining Claims
Thompsons-Yellow Cat Area
Grand County, Utah

Toby #1	Sec. 15	T-23-S	R-21-E	Book 77	Page 1 & 558
Toby #2	Sec. 15	T-23-S	R-21-E	Book 77	Page 1 & 363
Toby #3A	Sec. 15	T-23-S	R-21-E	Book 77	Page 502
Toby #4	Sec. 15	T-23-S	R-21-E	Book 77	Page 502
Toby #7	Sec. 15	T-23-S	R-21-E	Book 77	Page 534
Jeb #2	Sec. 15	T-23-S	R-21-E	Book 77	Page 211
- - - - - - - - - - - - - - - - - - - -					
No Such #1	Sec. 4	T-23-S	R-21-E	Book 83	Page 397
No Such #2	Sec. 4	T-23-S	R-21-E	Book 83	Page 398
No Such #3	Sec. 4	T-23-S	R-21-E	Book 83	Page 398
No Such #4	Sec. 4	T-23-S	R-21-E	Book 83	Page 399
No Such #5	Sec. 4	T-23-S	R-21-E	Book 83	Page 399
No Such #6	Sec. 4	T-23-S	R-21-E	Book 83	Page 400
No Such #7	Sec. 4	T-23-S	R-21-E	Book 83	Page 400
No Such #8	Sec. 4	T-23-S	R-21-E	Book 83	Page 401
No Such #9	Sec. 4	T-23-S	R-21-E	Book 83	Page 401
No Such #10	Sec. 4	T-23-S	R-21-E	Book 83	Page 402
No Such-Fraction A	Sec. 4	T-23-S	R-21-E	Book 83	Page 391
No Such-Fraction B	Sec. 4	T-23-S	R-21-E	Book 83	Page 392
- - - - - - - - - - - - - - - - - - - -					
Buck Horn #1	Sec. 31	T-22-S	R-21-E	Book 83	Page 392
Buck Horn #2	Sec. 31	T-22-S	R-21-E	Book 83	Page 393
Buck Horn #3	Sec. 31	T-22-S	R-21-E	Book 83	Page 393
Buck Horn #4	Sec. 31	T-22-S	R-21-E	Book 83	Page 394
Buck Horn #5	Sec. 31	T-22-S	R-21-E	Book 83	Page 394
Buck Horn #6	Sec. 31	T-22-S	R-21-E	Book 83	Page 395
Buck Horn #7	Sec. 31	T-22-S	R-21-E	Book 83	Page 395
Buck Horn #8	Sec. 31	T-22-S	R-21-E	Book 83	Page 396
Buck Horn #9	Sec. 31	T-22-S	R-21-E	Book 83	Page 396
Buck Horn #10	Sec. 31	T-22-S	R-21-E	Book 83	Page 397
- - - - - - - - - - - - - - - - - - - -					
Big Horn #7	Sec. 3	T-23-S	R-21-E	Book 83	Page 180
Big Horn #8	Sec. 3	T-23-S	R-21-E	Book 83	Page 180
Big Horn #9	Sec. 3	T-23-S	R-21-E	Book 83	Page 181
Big Horn #10	Sec. 3	T-23-S	R-21-E	Book 83	Page 181
Big Horn-odd Fraction	Sec. 3	T-23-S	R-21-E	Book 83	Page 363
Big Horn-even Fraction	Sec. 3	T-23-S	R-21-E	Book 83	Page 362
Big Horn-Fraction A	Sec. 3	T-23-S	R-21-E	Book 83	Page 363
Big Horn-Fraction B	Sec. 3	T-23-S	R-21-E	Book 83	Page 364
Big Horn-Fraction C	Sec. 3	T-23-S	R-21-E	Book 83	Page 497

Buck Tail #1	Sec. 31	T-22-S	R-21-E	Book 83 Page 497
Buck Tail #2	Sec. 31	T-22-S	R-21-E	Book 83 Page 498
Buck Tail #3	Sec. 31	T-22-S	R-21-E	Book 83 Page 498
Buck Tail #4	Sec. 31	T-22-S	R-21-E	Book 83 Bage 499
Buck Tail #5	Sec. 31	T-22-S	R-21-E	Book 83 Page 499
Buck Tail #6	Sec. 31	T-22-S	R-21-E	Book 83 Bage 500
Buck Tail #7	Sec. 31	T-22-S	R-21-E	Book 83 Page 500
Buck Tail #8	Sec. 31	T-22-S	R-21-E	Book 83 Page 501
Buck Tail #9	Sec. 31	T-22-S	R-21-E	Book 83 Page 501
Buck Tail #10	Sec. 31	T-22-S	R-21-E	Book 83 Page 502

Buck Brush #1	Sec. 31	T-22-S	R-21-E	Book 83 Page 502
Buck Brush #2	Sec. 31	T-22-S	R-21-E	Book 83 Page 503
Buck Brush #3	Sec. 31	T-22-S	R-21-E	Book 83 Page 503
Buck Brush #4	Sec. 31	T-22-S	R-21-E	Book 83 Page 504
Buck Brush #5	Sec. 31	T-22-S	R-21-E	Book 83 Page 504
Buck Brush #6	Sec. 31	T-22-S	R-21-E	Book 83 Page 505
Buck Brush #7	Sec. 31	T-22-S	R-21-E	Book 83 Page 505
Buck Brush #8	Sec. 31	T-22-S	R-21-E	Book 83 Page 506
Buck Brush #9	Sec. 31	T-22-S	R-21-E	Book 83 Page 506
Buck Brush #10	Sec. 31	T-22-S	R-21-E	Book 83 Page 507

SUPPLEMENT No. 2

4-(a)

Toby claim No. 3A is the only claim on which there has been any mining or drilling to date. Approximately four tons of ore was produced from a small open pit workings. Rim stripping with a Cat. performed about one hundred and fifty feet from the open pit, revealed a possible ore channel and much Carotite stain was observed. Eight shallow wagon drill holes back from the rim were inconclusive. All claims listed in Supplement No. I are accessable by road from Thompsons Utah, however the Toby groupe are at present accessible only by Jeep or Power Wagon as the road we built has been washed in two or three places.

A.D. Rice
R.W. Dodds

A.D. Rice
R.W. Dodds

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SUPPLEMENT No. 3

4 (c)

The Toby group in Sec. I5 Twnsp. 23S Range 2IE lies in the lower ore bearing sand of the Salt Wash and is directly in the major Yellow Cat ore trend as mapped by Stokes. Petrified trees specimens are plentiful with two different trees containing Uranium. Most of these trees are in place. The deposit on Toby 3A was a group of trees and associated carbonaceous material. Rim stripping approximately one hundred fifty feet from this tree encountered a sand channel and a wide spread amount of carnotite stain. A sample taken at this location assayed 0.I6% Uranium. Eight twenty five foot holes wagon drilled immediately back of the rim were inconclusive. A sample of float taken from a creek bed on Toby #2 assayed 0.05% Uranium but its source has not been definitely located. We wish to do further exploration on this group because we feel that there is an excellent possibility of locating an ore body here. Most of the area is as yet unexplored by drilling.

The Big Horn group lies in Sec. 3 Twnsp. 23S Range 2IE lies directly west of school section 2 on which there has been an extensive drilling program in which some ore has been encountered. There has been ore mined in Sec. II to the South and mineralization occurs on the rim in several places in Sections I0 and 9. The surface is covered by a very thin layer of Brushy Basin, mostly washed-in material. The Salt Wash is complete, and in view of the proximity of ore and the fact that the area has never been drilled, we feel warrents exploration.

The Buck group Section 3I Twnsp. 22S Range 2IE and the No Such group in Sec. 4 Twnsp.23S Range 2IE are in much the same type of country as the Big Horn group. The Brushy Basin has been mostly removed, while the Salt Wash remains practically intact. Mineralization is evidenced in several places directly south on the rim, and mining has been done on rim deposits in Sections 5 & 8. No drilling has been done on these claims and we feel that this area warrents exploration.

For a general report on the Yellow Cat area see University of Utah Bulletin No. 46 by Wm. Lee Stokes, enclosed. (1 copy) to be Returned

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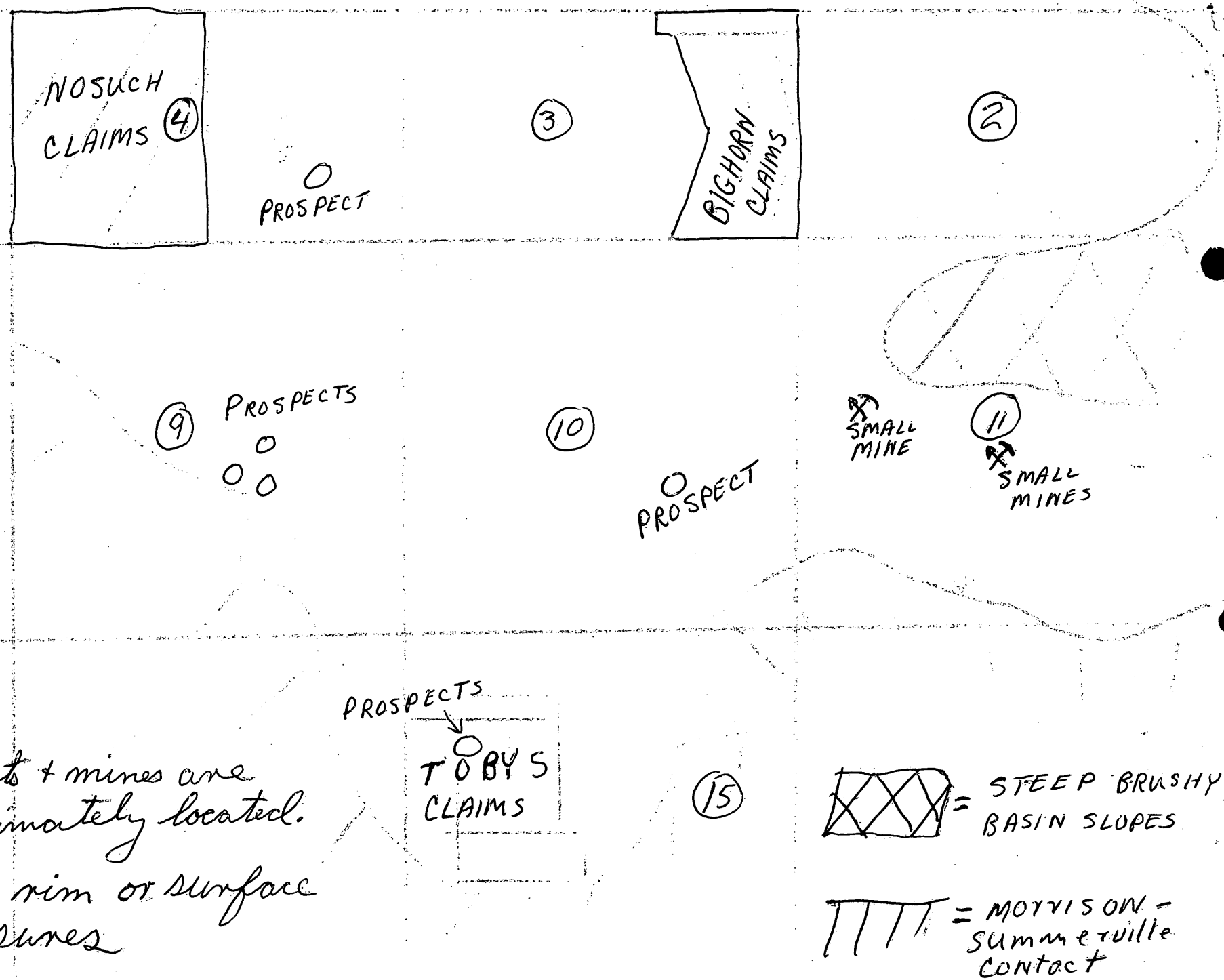
DATE

A. S. Rice
R. W. Dodds

R-21-E

T-23-S

This page may be matched with page 2.



Prospects + mines are approximately located. All are rim or surface exposures

Rice & Dodds 1315 Colo. Ave La Junta Colo.

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SUPPLEMENT # 4

4 (d)

The property is accessable by dirt road from Thompsons, Utah, and from the new Yellow cat road. It lies approximately twenty miles from the Thompsons Union Carbide Neuclear Co. buying station and fifty miles from the Uranium Reduction Co. mill at Moab, Utah. Supplies come either from Moab or Grand Junction, Colo. which is ninety five miles.

A S Rice

R. W. Dodds

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SUPPLEMENT # 5

5 (b)

The proposed work will cover four main areas approximately one mile apart. In places the top member of the Salt Wash is exposed, and except for one area the overburden is very thin. We wish to drill through the entire section of Salt Wash. A tentative hole pattern is shown on the map and will depend upon the results of the first cores. The area is generally level and few, if any access roads will be needed for drill sites. Approximately one and one half miles of road into the Toby claims will have to be rebuilt when drilling is undertaken there.

A W Rice
R. W. Dodds

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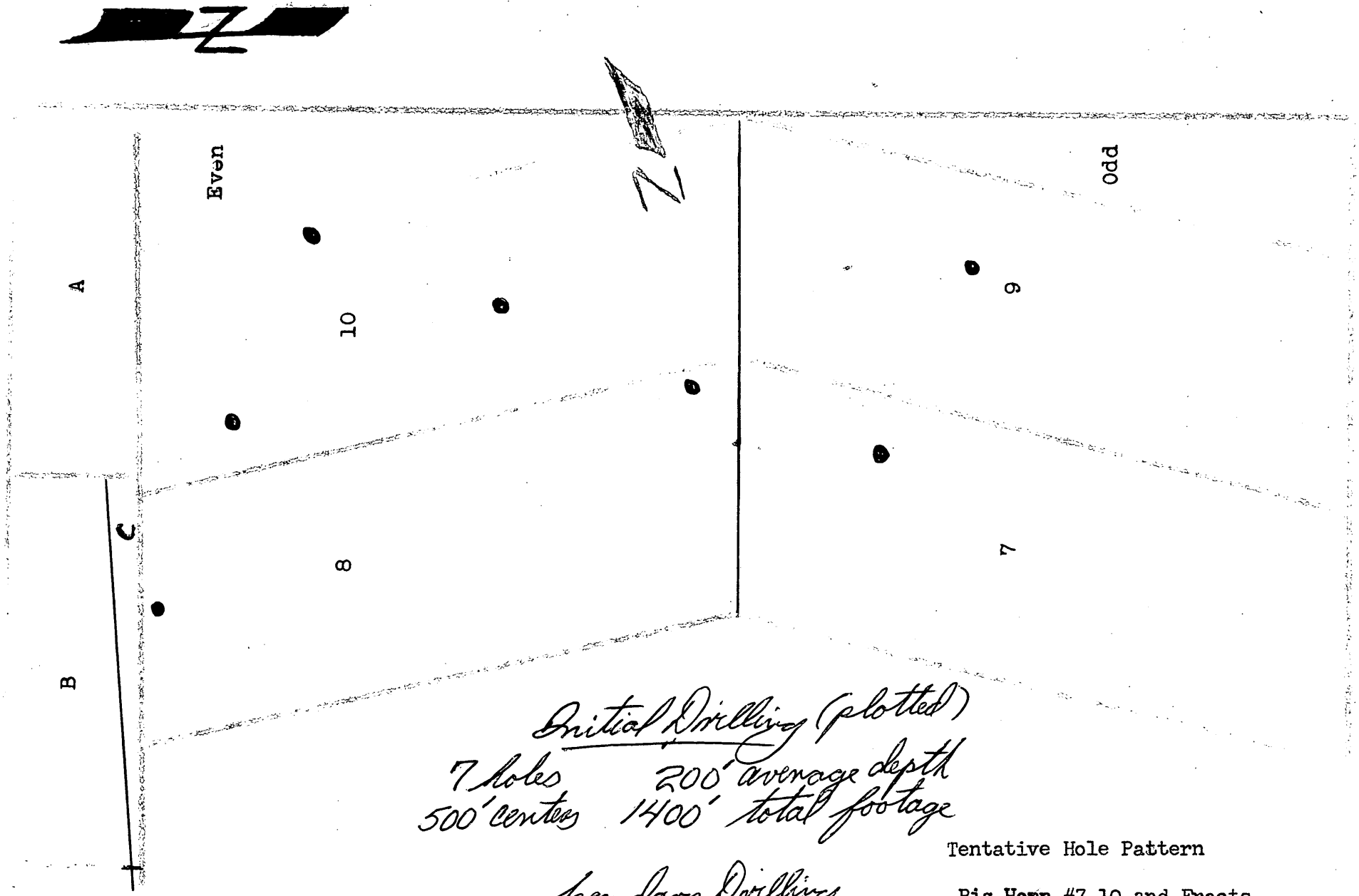
Rice & Dodds 1317 Colo. Ave La Junta Colo

Supplement #5



Initial Drilling (plotted)

7 holes 200' average depth
500' centers 1400' total footage

Secondary Drilling

Continue on 500' centers if favorable results obtained.
Pull into 250' centers if warranted.

Tentative Hole Pattern

Big Horn #7-10 and Fracts.
Sec. 3, T-23-S, R-21-E
Grand County, Utah

A. D. Rice
R. W. Dodds

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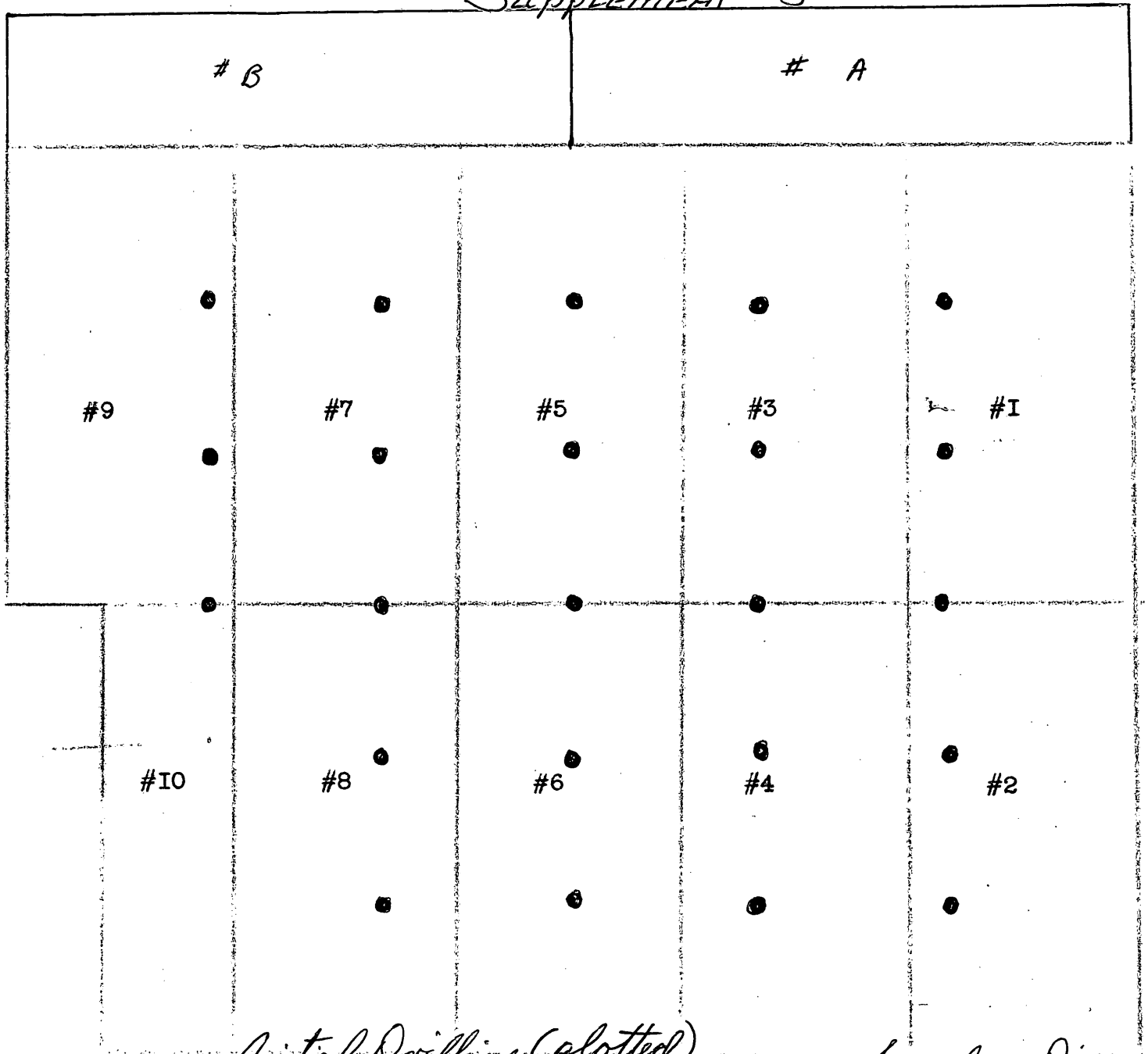
FEB 15 1957
D.M.E.A.

SUPPLEMENT #5



Initial Drilling (plotted)

22 holes
500' centers

150' average depth
3300' total footage

Secondary Drilling

250' centers if and/or where warranted

Tentative Hole Pattern

NO SUCH CLAIMS
Sec.4 T-23-S R-2I-E
Grand County UTAH

A.D. RICE & R.W. DODDS

Rice & Dodds 1317 Colo Ave La Junta Colo.

Allocation of Footage

Claim	Aver. Depth	Number of Holes	Footage
Tobys	50	10	500'
No Such	150	22	3300'
Buck H orn Buck Tail Buck Brush	200	14	2800'
Big Horn	200	7	1400'

Initial Footage	8,000
Reserved Footage for promising areas	2,000
Total Footage	10,000

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SUPPLEMENT # 6

5(d)

Mr. Dodds has spent nearly a year in the immediate area doing the initial prospecting and determining the channel trends as indicated by surface observation. He is capable of operating the equipment and making the necessary decisions on the project. He is well acquainted with the area and has examined many of the deposits in the area. He has done the exploration and mining on Toby claim # 3-A.

Mr. Rice has prospected both in Utah and on the Colorado Front Range off and on for four years. He is employed by the Santa Fe Railroad as Air Conditioning and Car Lighting Inspector.

A S Rice

R. W. Dodds

SUPPLEMENT # 7

Estimate of Costs

	Drilling, unit basis.	10,000 feet @ $3.25 ft.	$32,500.00
7-a	Independent contracts	Dozer 40 hrs. @ $12.50 $120.00 moving allowance	620.00
7-b	Geologic consultant	100 hrs. @ $6.00	600.00
7-g	Assays, chemical	100 @ $4.00	400.00
	TOTAL ESTIMATED COST		$34,120.00

Drilling estimates attached

Dozer estimate and moving allowance based on actual charges paid by us on Toby claims in April, 1956.

Assay costs based on assay charges at Smith Lab, Moab, Utah.

Ed Rice
R. W. Dodds

MANUFACTURERS OF
DIAMOND DRILLS
DRILLING EQUIPMENT
DIAMOND BITS

BRANCH OFFICES
NEW YORK · PITTSBURGH
PHILADELPHIA
GRAND JUNCTION, COLO.

EXECUTIVE OFFICES & PLANT
221 W. OLIVE STREET
SCRANTON, PA.

SPRAGUE & HENWOOD, INC.

SINCE 1883

CONTRACTORS FOR
DIAMOND DRILLING
SHOT DRILLING · SOIL SAMPLING · PRESSURE GROUTING
WATER WELLS & CHURN DRILLING

P.O. BOX 645
GRAND JUNCTION, COLO.
TELEPHONE 834

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RECEIVED 1957
DATE | CODE

December 27, 1956

Rice & Dodds
1315 Colorado Avenue
La Junta, Colorado

Attn: Mr. A. D. Rice

Dear Sirs:

We have received your letter of December 25, 1956, concerning a proposed drilling program in the Yellow Cat area, Grand County, Utah.

In your letter you have stated that the program will consist of approximately 10,000 feet of drilling in holes averaging in depth of 150 feet. The program is to be all core drilling and you have asked us for a price to cover this work.

In order that we could give you a firm quotation for this program, it would be necessary for us to make an inspection of the area or else have the exact location of your property. There are numerous factors which influence our costs and which can be determined best by a field inspection of the area or if we know the exact location, it is possible we may have worked there before and thus are familiar with all the governing factors which control our price.

However, based on previous work which we have done in the Yellow Cat area, we would advise that the price for core drilling would be approximately $3.00 or $3.25 per foot, providing conditions were similar to those which we have encountered in this area in the past.

We would advise that we would have a rig available for this work at almost any time you desire. It would only require a few days notice so that we could have a rig on the job.

We are most anxious to submit our proposal for this work and we would appreciate hearing from you further on this matter.

As stated above it is our estimate that the prices would be in the range of $3.00 to $3.25 per foot for core drilling, but this is an estimate only.

We thank you for your inquiry and hope to hear from you further.

Very truly yours,

SPRAGUE & HENWOOD, INC.

R. R. Carver -- Western Manager

RRC:jmt

MOAB DRILLING COMPANY

DIAMOND CORE DRILLING CONTRACTORS

BOX 387

MOAB, UTAH

CHARLES A. STEEN
PRESIDENT

WILLIAM H. (BILL) LEWIS
GENERAL MANAGER

TELEPHONE 3-4181

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RECEIVED FEB 15 195

DATE	INITIALS	COL.

January 3, 1957

Rice & Dodds
Mr. A. D. Rice
1315 Colorado Ave.
La Junta, Colorado

Dear Mr. Rice.

Thank you very much for your letter of the 26th of December.

Please be advised that Moab Drilling Co. is available to drill immediately in the Yellow Cat area at a rate of $4.00 per foot core drill. Moab Drilling Co. also has geologic and location services, if required.

Thank you very much for the opportunity to bid on your proposed program.

Sincerely,

Wm H. Lewis

William H. Lewis
General Manager

glc

SUPPLEMENT # 8

7 (b) Money $500.00

Equipment Owned by Us
Drill Rig & Tools 7/8 core
4 Wheel Drive water Truck
4 Wheel Drive Jeep
Trailer House
I P.R. Model III Scintilator
Other
Labor necessary
Necessary supervision

A S Rice
R.W. Dodds

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DATE INI

ORE SETTLEMENT

UNION CARBIDE NUCLEAR COMPANY

[redacted]

DIVISION OF UNION CARBIDE AND CARBON CORPORATION

Mills, Colorado

R. W. Dodds

[redacted] analytical results on ores delivered to our sampling station Subject:

Ticket No.	% U_3O_8	% V_2O_5	% $CaCO_3$

RECEIVED

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8/26	Murphy	700
"	Walkenhorst	100
8/26	P	220
		125

AUG 26 1957

Mr. A. D. Rice
1315 Colorado Avenue
La Junta, Colorado

Re: Docket No. DMEA-4638 (Uranium)
Toby, et al., Claims
Grand County, Utah

Dear Mr. Rice:

In response to your letter of August 21, 1957, enclosed are the two settlement sheets which you requested.

Sincerely yours,

Ernest Wm. Ellis, Director
Division of Rare and
Miscellaneous Metals

Enclosures

FMMurphy/izm 8-26-57
cc to: Mr. Murphy
Admr.'s Reading File
DMEA FT Reg. 3 (2) w/2cc's of incoming letter.

8623

1315 Colo. Ave.
La Junta Colo.
August 21, 1957

Mr. Allen S. Dakan
Operations Control and Statistics Division
Defense Minerals Exploration Administration.
Washington 25, D.C.

DearcSir,

Feb. 11, 1957 Mr. Dodds and I made application for exploration assistance. This application was assigned Docket Number DMEA-4368 and referred to the Rare & Missellaneous Division.

4638

Included in this application were two settlement sheets for Uranium ore shipped and which we did not request return.

Would it be possible to return these sheets at this late date as we desire them for our tax file?

Sincerely Yours,

A.D. Rice

A.D. Rice

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DATE	INITIALS	CODE
8/23	P	220
"	FMM	700
		225

May 20, 1957

Re: Docket No. DMEA-4638 (Uranium)
Toby, et al., Claims
Grand County Utah.

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DMEA
RECEIVED MAY 27 1957

DATE	INITIALS	CODE
5/27	C	220
"	Chma	700
		225
work		

Mr. C.O. Mittendorf,
Administrator.

Dear Sir,

Your letter of May 17, 1957. informing us that our request for exploration assistance has been denied.

We wish to thank you for the time and work expended in processing this request and to assure you that this request was not made on the spur of the moment.

We decided to request DMEA aid only after a years work on foot in this area, consisting of Geophysical, Geochemical and Radiometric surveys. These surveys had convinced us that a major ore body might be found in this area. After our funds were running low and we noticed that the big operaters were obtaining DMEA assistance, we decided to apply.

As we own our own equipment consisting of core drill, water tank, etc. we will continnue to carry on as far as funds will allow, to ascertain if this area contains ore reserves in quantity.

Again thanking you for your trouble, we hope that further investigation will prove that we are not in error in predicting ore in quantity in this area.

Yours Truly,

A.D. Rice

A.D. Rice
R.W. Dodds

1315 Colo. Ave.
La Junta Colo.

No reply necessary.
mc

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5-15	Ching	700
5-15	Elsing	700
5/17	Selfridge	130
	Lewis	
	Kiilsgaard	
5/17	Johnson	110
"	Mittendorf	100
		229

MAY 17 1957

Mr. A. D. Rice and
Mr. R. W. Dodds
1315 Colorado Avenue
La Junta, Colorado

Re: Docket No. DMEA-4638 (Uranium)
Toby, et al., Claims
Grand County, Utah

Gentlemen:

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

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

Careful study of all our information, although noting some uranium mineralization on your property, indicates that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

In accordance with your request, under separate cover, we are returning Supplement No. 3 of your application, a bulletin entitled "Uranium-Vanadium Deposits of the Thompsons Area, Grand County, Utah."

We wish to thank you for your interest in the Defense Minerals Exploration Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Copy to: Mr. R. W. Dodds
R MChing/izm 5-15-57
cc to: Mr. Ching
Admr.'s Reading File
Operating Committee

THKiilsgaard, 5224
DMEA F.T. Reg. III (2)

8623

Docket

Ching
Ellis

May 15, 1957

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No.: DMEA-4638

Commodity: Uranium

Applicant: A. D. Rice and R. W. Dodds
1315 Colorado Avenue
La Junta, Colorado

Property: 57 unpatented lode mining claims, Toby, et al., claims, situated in secs. 3, 4, and 15, T. 23 S., R. 21 E., and sec. 31, T. 22 S., R. 21 E., S.L.M.&B., Yellow Cat mining district, Grand County, Utah. Applicant is the owner.

Date of Application: February 11, 1957

Amount of Application: $34,120.00

Referred to Region III: March 4, 1957

Field Examination made: March 25, 1957

Field Team Report received: May 6, 1957

Work Proposed: Test the entire thickness of the Salt Wash member of the Morrison formation in four separate areas by diamond core drilling in two stages. Stage I would consist of 53 holes aggregating 8,000 feet, and Stage II would consist of 2,000 feet of drilling in favorable areas determined by Stage I work.

Estimated Costs:

10,000 ft. core drilling @ $3.25/ft.	$32,500.00	
40 hrs. bulldozing and moving	620.00	
100 hrs. geologic consultant @ $6/hr.	600.00	
100 assays @ $4/assay	400.00	
Total		$34,120.00
Government Participation @ 75%		$25,590.00

Field Team Report: April, 1957. W. B. Gazdik, USGS & M.H. Salsbury, USBM:

In the Yellow Cat area uranium-vanadium deposits occur in four sandstone beds in the Salt Wash and in a discontinuous conglomeratic sandstone bed at the base of the Brushy Basin. Known ore deposits are relatively small and marginal in grade and appear to be confined to the thicker more persistent sandstone lenses. The larger deposits usually occur in the lower 125 feet of the Salt Wash.

USGS drilling in the area indicated that nearly all the larger deposits are found about 5 miles east of the subject property and that the deposits became smaller and more widely scattered toward the western part of the area.

Detailed examination of outcrops on the property indicates that the Salt Wash sandstones appear to be geologically unfavorable for ore deposits. Mudstone above, below, or included within the sandstone is generally red. Mineralized material, where present, consists of thin seams or small concentrations around fossil logs.

DMEA projects nearby under Dockets 3360 and 3962 were not particularly successful and appear to support the belief that the deposits in the area are discontinuous and difficult to mine economically. No certification was made under Docket 3360. Reserves of 850 tons of ore were calculated under Docket 3962, but the deposit was exhausted after mining 241 tons.

A small amount of rim stripping and trenching on the Toby 3A claim of the subject property resulted in the production of 3.2 tons of ore. Nearest production is from the John mine, about 2 miles to the east, and from the Ringtail mine, 2½ miles to the northeast. There are no known trends of mineralization into the property.

The proposed exploration is not likely to find significant amounts of uranium ore. Denial of the application is recommended.

Commodity Group Comments:

USGS, N. E. Nelson, May 8, 1957:

> There is no target for the proposed work other than the very general one due to the presence of the Salt Wash memberof the Morrison formation. Concurs with Field Team's recommendation for denial.

USBM, James Paone, May 9, 1957:

> The claims appear to be geologically unfavorable. Agrees with the Field Team that the application should be denied.

Rare & Miscellaneous Metals Div., Michael Ching, May 15, 1957:

> The subject property is in the western part of the Yellow Cat area where the history of uranium production has not been encouraging An application covering the John Group of claims (Docket 4664) two miles to the east was denied on March 27, 1957.

Conclusions and Recommendations:

The chances of finding an ore deposit that can be economically mined are poor. It is recommended that the application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

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DATE		CODE
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"	Chung	700
comments complete		

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

Date May 9, 1957

[illegible] 4638
[illegible]
Commodity Uranium
Name of applicant A.D. Rice and R.W. Dodds
Name of property Toby et al claims
Location of property Grand County, Utah
Estimated cost of project $34,120.00

[illegible] Ernest William Ellis, DMEA Member
Uranium Commodity Committee
[illegible] James Paone, Bureau of Mines Member
Uranium Commodity Committee

[illegible] Field Team Report

[illegible] application, Field Team Report [illegible]

1. [illegible] 4/30/57. 2. Date received [illegible] 5/6/57

3. [illegible] known to reviewer: Yes [ ] No [ ]

4. [illegible] reserves or mining properties known to reviewer: Yes [ ] No [ ]

5. [illegible] on [illegible] production: Yes [ ] No [ ]

6. [illegible] known to reviewer: Yes [ ] No [ ]

7. [illegible] marked yes above:

8. [illegible] consideration:
   a. [illegible] [ ]
   b. [illegible] [ ]
   c. [illegible] of [illegible] [ ]
   d. [illegible] [ ]
   e. Proposed exploration method [ ]
   f. Alternate exploration method [ ]
   g. Costs [ ]
   h. _____ [ ]

9. [illegible]:
   a. [illegible] information from applicant [ ]
   b. [illegible] to Field Team [ ]
   c. [illegible] [X]
   d. [illegible] with Field Team [X]
   e. Discuss with Field Team [ ]
   f. Suggest alternate [illegible] [ ]
   g. Request [illegible] information [ ]
   h. Approval [ ]
   i. [illegible] with Mr. _____ at _____, [illegible] office.

10. [illegible]: (Use back of page if necessary) Claims appear to be geologically unfavorable.

IN REPLY REFER TO:

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

May 8, 1957
Re: DMEA 4638
A. D. Rice & R.W. Dodds
Toby et al Claims
Grand County, Utah
$25,590 - Uranium

Memorandum

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

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

Subject: Review of Field Team Report

The applicants requested assistance in exploring four non-contigious groups of claims by a 2-stage drilling program. Except for rim stripping and trenching on the Toby No. 3A Claim, the property is unexplored and there is no known favorable trend or mineralization. There is therefore no target for the proposed work other than the very general one due to the presence of the Salt Wash member of the Morrison formation.

The results of work done by the U. S. Geological Survey, DMEA, and private industry, especially in the nearest so-called mines, indicate that significant deposits of radioactive material are a rarity in that area.

Based on such evidence, visible and inferred, the examiners and the Field Team conclude work is not warranted and recomment that the application be denied.

In my opinion, the conclusions are well sustained and I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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DMEA
RECEIVED MAY 8 1957

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5/9	Chung	700

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

May 3, 1957

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4638 (Uranium) A. D. Rice and R. W. Dodds (Toby et al Claims) Grand County, Utah

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

The field examiners conclude that the probability for making a significant discovery is not sufficiently promising to justify Government participation. Accordingly they recommend that the Applicant's work proposal be denied to which the Field Team concurs.

E. N. Harshman

E. N. Harshman
Acting Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
5/8/57
(date)

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RECEIVED MAY 6 1957

DATE	INITIALS	CODE
5/6	JWG	220
	esf	130
5/8	CO.	220
5/9	Chng	700

ON-SITE EXAM. REPORT

DMEA
DEPARTMENT OF THE INTERIOR
MAY 2 - 1957
REGION III
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colorado

MINERAL DEPOSITS
D.M.E.A.
IN REPLY REFER TO:
RECEIVED
MAY 1 1957
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

April 30, 1957

TRANSMITTED
MAY 3 1957

Memorandum

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

Through: E. N. Harshman EMH
J. F. Shaw JFShaw

From: J. William Hasler

Subject: Transmittal of a joint geologic and engineering report denying application for DMEA assistance to explore for uranium on the Toby et al claims, Grand County, Utah, by A. D. Rice and R. W. Dodds, DMEA docket No. 4638 (Uranium).

Mr. A. D. Rice and Mr. R. W. Dodds applied to the Defense Minerals Exploration Administration for assistance to explore for uranium on four separated claim groups in the Yellow Cat Mining District, Grand County, Utah.

The application was referred to the field and an examination was made by W. B. Gasdik, Geological Survey, and M. H. Salsbury, Bureau of Mines. Mr. R. W. Dodds accompanied the examining team.

The applicant proposed a program consisting of two stages; however, the program was not based on any particularly known mineralization or favorable trend, but was designed to prospect the various claims with wide-spaced holes.

The applicant wished also to explore the entire thickness of the Salt Wash member of the Morrison formation wherever it was preserved on their claims. Known ore deposits in the Yellow Cat area occur in five sandstone lenses in the Morrison formation. These deposits are relatively small and are of marginal grade. The Salt Wash member on the applicant's claims are geologically unfavorable because of the nature of the ore-bearing sandstone as well as poor results from exploration projects that have been completed on nearby property. The proposed exploration project is ~~not likely~~ to find significant amounts of uranium ore ~~and it is~~, therefore, recommended that the application be denied. I concur with the conclusions and recommendations of the examining team.

Reviewed by
DMEA OPERATING COMMITTEE
5/8/57
(date)

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MAY 6 1957

DMEA 4638

4/30/57

Enclosed are 12 copies of the joint engineering and geological report with figures 1 and 2 attached, as well as the brochure.

The Atomic Energy Commission was consulted relative to the appraisal of the property.

J. William Hasler

J. William Hasler,
Geologist

JWH/mlr

Enclosures
12 copies report & maps (figs. 1 & 2)
Brochure

FOR UNITED STATES GOVERNMENT USE ONLY

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

TRANSMITTED

MAY 3 1957

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY EXAMINING TEAM
REGION III

DMEA 4638

A. D. Rice and R. W. Dodds

Toby et al claims

Grand County, Utah

Uranium

Joint Engineering and Geologic Report

by

W. B. Gazdik
U. S. Geological Survey

M. H. Salsbury
U. S. Bureau of Mines

April 1957

Reviewed by
DMEA OPERATING COMMITTEE
5/8/57
(date)

DMEA 4638
A. D. RICE AND R. W. DODDS
TOBY ET AL CLAIMS
GRAND COUNTY, UTAH

CONTENTS

Joint Engineering and Geologic Report

	Page
Introduction and summary	1
Location, Topography, and Physical Features	2
History and Production	3
Ownership and Extent	5
Present Status	
Exploration and development	7
Mining and milling equipment and other facilities	7
Geology	8
Ore Deposits	10
Ore Reserves	13
Proposed Exploration	13
Conclusions and Recommendations	15

ILLUSTRATIONS

Figure		Follows page
1.	Location map, Toby et al claims, A.D. Rice and R.W. Dodds, Grand County, Utah	15
2.	Geologic map showing applicants property, A.D. Rice and R.W. Dodds, Yellow Cat area, Grand County, Utah.	15

DMEA 4638
A. D. RICE AND R. W. DODDS
TOBY ET AL CLAIMS
GRAND COUNTY, UTAH

INTRODUCTION AND SUMMARY

A. D. Rice, 1315 Colorado Avenue, La Junta, Colorado, and R. W. Dodds, Box 1222, Moab, Utah, applied on February 12, 1957 for Defense Minerals Exploration Administration assistance to explore for uranium on four separated claim groups in the Yellow Cat mining district of Grand County, Utah.

The property was visited on March 25, 1957 by a DMEA examining team consisting of W. B. Gazdik, U. S. Geological Survey and M. H. Salsbury, U. S. Bureau of Mines, accompanied by R. W. Dodds, one of the applicant partners.

The applicant has proposed a two-stage drilling program consisting of a first stage of 53 holes on 500-foot centers requiring an estimated 8,000 feet of core drilling. The second stage was estimated to require an additional 2,000 feet. The applicant's estimated cost for the entire project was $34,120.00, in which Government participation at 75 percent would have been $25,590.00.

With the exception of a small amount of rim-stripping and trenching on the Toby No. 3A claim, the property is unexplored. The proposed drilling pattern is not based on any known mineralization or favorable trends, but is designed to prospect the claims with widespaced holes.

The applicant wishes to explore the entire thickness of the Salt Wash member where preserved. Known ore deposits in the Yellow Cat area occur in five sandstone lenses in the Morrison formation. These deposits are relatively small and of marginal grade and are found mostly in the Salt Wash member of the Morrison formation.

Although no effective drilling program has been carried out on the applicant's property, it is considered that the uranium ore potential of the area is poor because of the geologically unfavorable nature of the ore-bearing sandstones and the poor results obtained from drilling projects nearby. The proposed exploration project is not likely to find significant amounts of uranium ore which could be profitably mined.

Denial of the application is recommended.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The four claim groups comprising the property are in T. 23 S., R. 21 E., and T. 22 S., R. 21 E., Salt Lake Meridian, 18 miles southeast of Thompson's, Utah. They can be reached over an unimproved dirt road or over the Atomic Energy Commission access road south from Highway 6-50. The property is 90 miles from Grand Junction, Colorado, the nearest major supply center.

The surface has moderate relief and the drilling areas are easily accessible. Vegetation is sparse. Precipitation is small and unevenly distributed. Surface and underground operations are feasible throughout the year subject to delays caused by impassable roads after the infrequent violent storms which may occur at any time during the generally mild winters and warm summers.

Ore from the Yellow Cat area is normally marketed at Grand Junction, Colorado, although shipments of the high vanadium ore have been made to Rifle and Uravan, Colorado.

There are no unusual problems of supply, labor, power, or ore marketing.

HISTORY AND PRODUCTION

The history of the Yellow Cat mining district as a vanadium-radium producing region dates from 1911. Operations were intermittent prior to 1939. Since 1948, the area has been mined for uranium although the ore has a high vanadium content.

A number of small operations have been carried on in the district and the total production has been substantial although the largest individual deposits do not exceed several thousand tons each. The grade of ore has been good, containing, on the average, from 0.20 to 0.30 percent U_3O_8 and up to 4.00 percent V_2O_5.

The mining operations nearest to the applicant's property are at the John mine about 2 miles east, and at the Ringtail mine, 2½ miles northeast. Operations at both mines have been carried on intermittently

during the last 2 years, but known ore reserves are depleted at the present time.

Two DMEA projects have been completed in the immediate area, but neither resulted in discovery of significant ore reserves. In 1944-45, drilling exploration by Mid-Continent Uranium Corporation under Docket No. DMEA 3360, Contract Idm-E 723 was completed on Utah school sec. 2, T. 23 S., R. 21 E., S.L.M. This area is between the John mine and the applicant's Big Horn Nos. 7 to 10 claims which adjoin sec. 2 on the west (fig. 2). While 3 out of 72 DMEA holes penetrated ore grade material, no reserves could be computed on the drilling results and a certification of discovery was not made. Subsequent to the DMEA project, the operator did additional drilling and reported a reserve of 16,355 tons of ore averaging 0.21 percent U_3O_8 and 1.00 percent V_2O_5. Analysis of the drilling data by Geological Survey personnel did not support this reserve figure.

Another DMEA project was carried on by the Norbute Corporation under Docket No. DMEA 3962, Contract Idm-E 928, on Utah school section 36, T. 22 S., R. 21 E., S.L.M., which is about 2½ miles northeast from the several claim groups included in the present application. The project on section 36 resulted in discovery of a small reserve calculated as 850 tons of indicated and inferred ore

Claims	Date of location	Book	Pages
Toby Nos. 1,2,3A,4, and 7	January 1956	77	1,558,363, 502,534
Jeb No. 2	January 1956	77	211
No Such Nos. 1 thru 10	August 31, 1956	83	397-402
No Such Fractions A and B	August 31, 1956	83	391-392
Buck Horn Nos. 1 thru 10	August 31, 1956	83	392-397
Big Horn Nos. 7,8,9, and 10	August 31, 1956	83	180-181
Big Horn Odd and Even Fractions	August 31, 1956	83	362-363
Big Horn Fraction A, B, and C	August 31, 1956	83	363-364-497
Buck Tail Nos. 1 thru 10	August 31, 1956	83	497-502
Buck Brush Nos. 1 thru 10	August 31, 1956	83	502-507

With the exception of the Jeb No. 2, all of the foregoing claims were located by the applicant. Jeb No. 2 was located by William Sharp who gave the applicant a quit claim deed.

The area in which all of the claims are located was withdrawn from entry at the request of the Atomic Energy Commission on August 22, 1951 under Bureau of Land Management Order P. L. O. 1223. The lands on which the balance of the claims are located were among those restored on August 31, 1956. The applicant located several groups of claims immediately after the dates of restoration. The applicant reported verbally that assessment work on the Toby group was performed and recorded although the recording date was not furnished. Assessment work on the other claims is not due until the year ending June 30, 1958.

Because of the negative recommendations to be made on the proposed DMEA project, no further check of the ownership was made.

PRESENT STATUS

Exploration and Development

Exploration to date on the property has been limited to the Toby No. 3A claim. A small amount of stripping has been done on a rim outcrop and a trench has been excavated to expose a petrified log. Eight shallow wagon drill holes behind the rim gave negative results. The applicant reports the results as inconclusive. A mineralized layer of sandstone a few inches thick at the rim was mined selectively, furnishing the 3 ton shipment. The uranium-bearing portions of the mineralized log were sorted out, making a shipment of 420 pounds. Rim exposures on other claim groups have not been investigated. Access roads to the several claim groups have been built.

Mining and Milling Equipment and Other Facilities

The equipment on the property consists of a small house trailer, truck, and small tools. The applicants own a light truck-mounted core drilling rig which they plan to use for the proposed exploration. The size of core would be EX which would be unsatisfactory in this work.

GEOLOGY

The applicant's claims are located on the northeast flank of the Salt Valley anticline, the crest of which has been dropped by a complicated fault system into a structural trough. Joints and faults in the area strike about N. 60° - 70° W. and appear to be directly related to the northwest trending anticline. The rocks exposed in the general area are sedimentary formations that range in age from Jurassic to Cretaceous and dip gently to the northeast. In ascending order these rocks consist of the Jurassic Navajo, Carmel, Entrada, Summerville, and Morrison formations, and the Cretaceous Burro Canyon, Dakota and Mancos formations (fig. 2). Known uranium deposits in the Yellow Cat area are confined to the Morrison formation. This report, therefore, will not be concerned with older or younger formations. The Morrison formation outcrops over most of the applicant's property except for the claims located in sec. 31, T. 22 S., R. 21 E., where erosional remnants of the overlying Burro Canyon and Dakota formations are preserved.

The Morrison formation is divided into the Salt Wash member and the overlying Brushy Basin member. The major ore deposits in the area occur in sandstone beds of the Salt Wash member which averages about 240 feet thick and consists of fluvial sandstone, siltstone and mudstone. Smaller amounts of uranium have been produced from a discontinuous conglomeratic sandstone bed at the base of the Brushy Basin

member. About 50 percent of the Salt Wash member is made up of sandstone although the ratio of sandstone to siltstone and mudstone varies considerable within short distances. Generally, four light gray to light red, broadly lenticular sandstone beds a few feet to 60 feet thick have been recognized in the Salt Wash. These lenticular sandstones are a few hundred to thousands of feet in horizontal extent and interfinger with layers of mudstone. Uranium-vanadium deposits occur in all four sandstones but most of the larger deposits are confined to the second sandstone lenses above the base of the Salt Wash member, commonly referred to as the "No. 4" ore-bearing sandstone. The ore-bearing sandstones are crossbedded and predominantly medium- to medium-fine grained. Locally, they are quartzitic or conglomeratic and contain varying amounts of limonite, disseminated pyrite, fossil logs and carbonaceous material. Cut and fill structures, ripple marks, current lineations and rill marks suggest that the ore-bearing sandstones were deposited under fluvial conditions. Mudstone and siltstone in contact with the ore-bearing sandstones are generally red, reddish-brown, green or gray. Interstitial clay, clay pellets and relatively thin seams of mudstone are included in the sandstones. Where the mudstone is in contact with or near mineralized rock it is green or gray and offers a larger target than the ore deposit. The contact between the Salt Wash member and the overlying Brushy Basin member is

gradational. Only the lowermost sandstone is preserved on the applicant's Toby group of claims, but all four sandstones appear to be present on most of the other property subordinated (fig. 2).

The Brushy Basin member consists of variegated shale and mudstone beds that range in color from white to pastel shades of red, blue and green. These fine-grained sediments are interbedded with a few thin lenses of sandstone and conglomerate. The lower contact of the Brushy Basin member is considered to be at the base of a discontinuous conglomeratic sandstone. However, where this conglomeratic sandstone is absent the lower contact with the underlying Salt Wash member is arbitrary.

ORE DEPOSITS

Known ore deposits in the Yellow Cat area are relatively small and of marginal grade. They range in size from a few tons to several thousand tons and appear to be confined to the zones of thicker, more persistent sandstone lenses, regardless of their stratigraphic position in the Morrison formation. No consistent regional trends of ore deposits are apparent in the area but drill hole information and geologic studies indicate a general northeast trend of stream channels over most of the area (Stokes, 1952). The larger deposits usually occur in the lower 125 feet of the Salt Wash member.

Most of the deposits are irregular tabular masses lying essentially parallel to the sandstone beds but do not follow the bedding in detail. Other deposits consist principally of sharply bounded elongate concretionary structures or "rolls" which cross bedding planes. A single ore deposit may consist of a cluster of small ore bodies connected by thin seams of mineralized rock. Near the surface, the deposits are typically oxidized but generally grade into unoxidized ore at depth. Mineralized rock at or near the surface is sandstone impregnated with carnotite and its calcium analogue tyuyamunite. Metatyuyamumite, pascoite, hewettite, metahewettite, and rossite have also been identified in the oxidized ores. Less oxidized minerals including uraninite, corvusite, montroseite, and pitchblende are found at greater depths. The ore minerals are commonly associated with carbonaceous fragments or richly replace carbonized fossil logs.

The origin of the ore and factors that controlled its localization are little understood. It does not appear that joints, faults, and folds had any significant influence on the genesis of the ore bodies. Primary sedimentary features, however, apparently are closely related to localization of ore bodies. Exploratory drilling and mining operations immediately east of the applicant's property indicate that ore bodies where present in the western part of the Yellow Cat area are

localized by intersecting festoon structures and consequently occur as clusters of small isolated pods of mineralized rock. Since these types of ore bodies are small and discontinuous, they present difficult drilling targets. Where a relatively large number of holes, drilled on closely spaced centers, penetrate ore grade material separated by barren ground, an erroneous reserve tonnage is indicated. Subsequent mining operations are consequently uneconomical. Such a situation was found to exist on sec. 2, T. 23 S., R. 21 E., explored under DMEA 3360 and adjoining the applicants sec. 3 on the east. Results of drilling under DMEA 3962 and later mining operations in sec. 36, T. 22 S., R. 21 E. (fig. 2), also indicated that ore deposits where present in this part of the area are small and discontinuous.

The U. S. Geological Survey drilled 1,721 holes in the Yellow Cat area and discovered 56,850 tons of ore averaging 0.24 percent U_3O_8 and 1.47 percent V_2O_5 by this relatively large amount of drilling. Nearly all of the larger deposits in the area were found about 5 miles east of the applicants property. The drilling indicated that the deposits became smaller and more widely scattered toward the western part of the Yellow Cat area. A detailed examination of the Salt Wash outcrop on the applicant's claims indicates that the ore-bearing sandstones, where present, appears to be geologically unfavorable for ore deposits. Mudstone above and below or included within the

sandstone is generally red. Mineralized material where present on the outcrop consists of thin seams or is concentrated in small amounts around fossil logs.

ORE RESERVES

There are no known ore reserves on the property.

PROPOSED EXPLORATION

The applicants have proposed exploration by core drilling those portions of the 57 claims where the Salt Wash member is exposed or where most of the Brushy Basin member has been removed by erosion, followed by drilling on 250-foot centers where justified. Following is a summary of drilling proposals:

Claim group	No. of Holes	Estimated Depth	Total Footage
Toby	10	50	500
No Such	22	150	3,300
Buckhorn, Buck Tail and Buck Brush	14	200	2,800
Big Horn	7	200	1,400
Total	63		8,000
Stage II drilling			2,000
Total			10,000

The proposed work is actually prospecting based on the assumption that the claims lie in a generally favorable area. The program is not based on known trends of mineralization which might be projected across the property or on known favorable geologic conditions.

The applicant's cost estimate is supported by two drilling bids. One made by the Moab Drilling Company is at the rate of $4.00 per foot. A quotation by Sprague and Henwood, Incorporated, is not a firm bid but gives a tentative price of $3.00 to $3.25 per foot. The applicant proposes to do the work with their own equipment and use the figure of $3.25 per foot for drilling.

The applicants' estimated cost is $34,120.00. Government participation at 75 percent would be $25,590.00.

A revised proposal and cost estimate is not presented by the examining team.

CONCLUSIONS AND RECOMMENDATIONS

The four claim groups included in the proposed DMEA project are in an area considered geologically unfavorable for uranium deposits so far as previous exploration to the east and northeast would indicate. Considerable drilling by the Geological Survey, DMEA projects, and private industry, as well as results of the nearest mining operations, have failed to find ore deposits which can be considered significant in tonnage or economically. Examination of Salt Wash outcrops on the applicants claims has not disclosed any evidence that conditions are likely to be any different in the proposed exploration area.

The applicants' experience in mining exploration appears to be limited to part-time prospecting in the Front Range and on the Colorado Plateau. They have had no drilling experience in sedimentary formations and it is questionable that the proposed exploration could be carried out successfully with the drilling equipment they own. EX size coring does not give satisfactory results on the Colorado Plateau as a rule.

Denial of the application under Docket No. DMEA 4638 is recommended.

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
APRIL 1957
DOCKET 4638

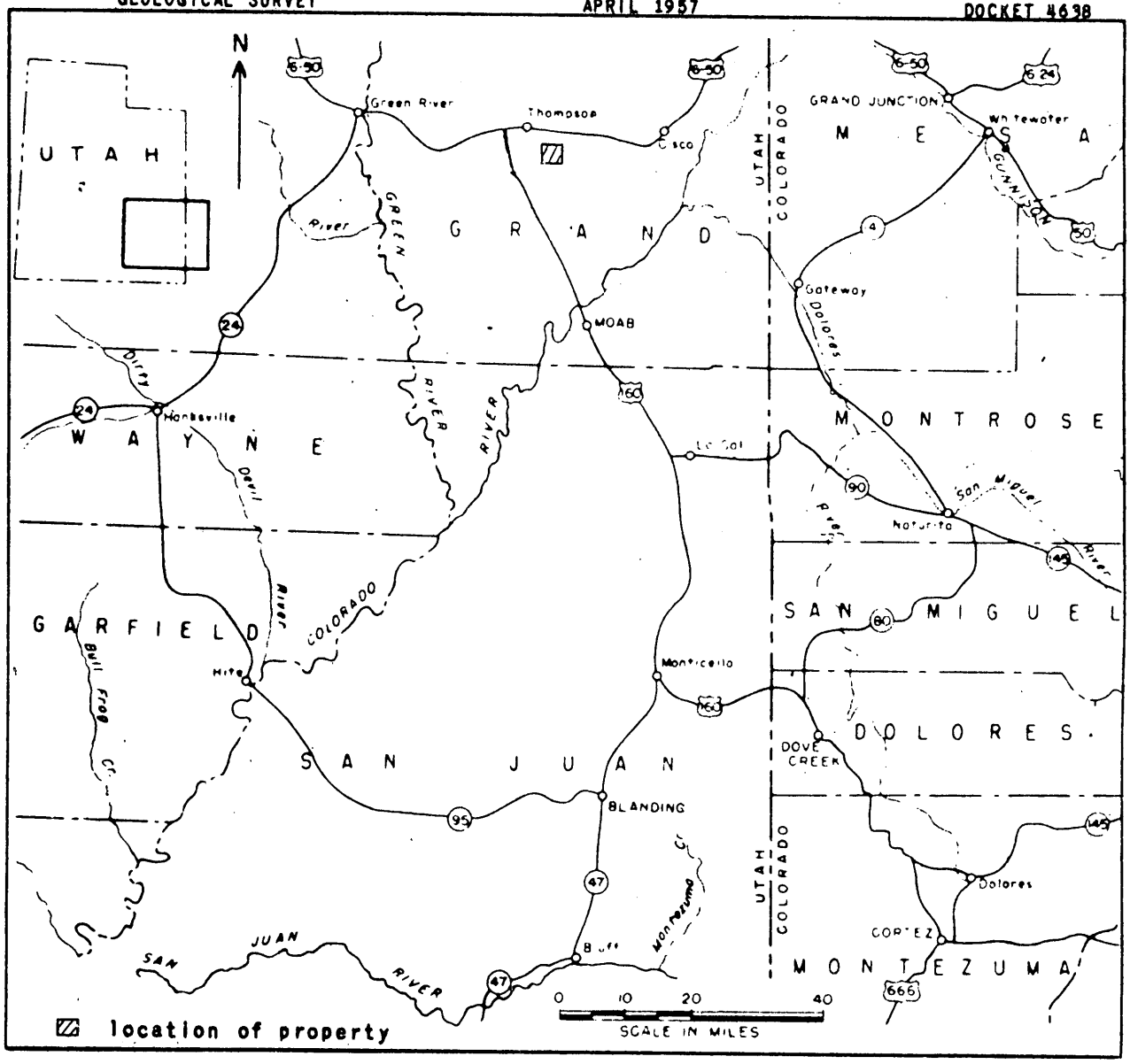

FIGURE 1.--LOCATION MAP TOBY ET AL CLAIMS, A.D. RICE AND R.W. DODDS, GRAND COUNTY, UTAH.

DMEA
DEPARTMENT OF THE INTERIOR

March 8, 1957

MAR 8 1957
REGION III
DENVER, COLORADO

Memorandum

To: Executive Officer, DMEA Field Team, Reg. III

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4638 (Uranium), A. D. Rice and R. W. Dodds (Toby et al claims) Grand County, Utah

The application for A. D. Rice and R. W. Dodds, Docket DMEA 4638 in the amount of $34,120.00 was received in this office on March 8.

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

W. H. KING

W. H. King

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

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DMEA
RECEIVED MAR 14 1957

DATE	INITIALS	CODE
3/14	C	220
11	Ching	700

WO (2)

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 11 1957

DATE	INITIALS	CODE
3/11	C	220
"	[illegible]	700

224 New Customhouse
Denver 2, Colorado

March 7, 1957

Memorandum

To: J. W. Hasler W/Copy Comm. Letter & Review Memoranda
W. E. King (2) W/Copy Appl., Comm. Letter & Review Memoranda

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 4638 (Uranium) A. D. Rice and R. W. Dodds (Toby et al. claims) Grand County, Utah

Enclosed are a copy of the subject application, its transmittal to the field by the Chairman of the Operating Committee, DMEA, and Memoranda of Review by J. E. Crawford, USBM, and W. F. Williams, USGS. A field examination and suitable Report of Examination are requested.

If the Field Examiners view the proposal favorably, the applicant should be requested to submit appropriate drilling bids from three companies.

The Bureau of Mines' copy of the application should be returned with your Report of Examination. The Geological Survey's copy should be returned to Mr. Harshman's office.

DMEA Field Team, Region III

Original signed by
E. N. HARSHMAN

By E. N. Harshman
Acting Executive Officer

Enclosures

MHM:ah
cc: Sec. Op. Comm. (2)
Harshman W/Copy Comm. Letter & Review Memoranda
Docket
Chron.

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
3-4	Ching	700
3-4	[illegible]	7000
3/4	Selfridge	130
"	Johnson	110
"	Chatterdoy	100
3/5	C	220

700

MAR 4 1957

Mr. R. H. Harshman, Acting
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4638 (Uranium)
A. D. Rice and R. W. Dodds
Toby, et al., Claims
Grand County, Utah

Dear Mr. Harshman:

The subject application is being referred to you for investigation, a field examination if warranted, and recommendations.

Enclosed are memoranda, dated February 20 and 27, 1957, by John E. Crawford, USBM, and W. P. Williams, USGS, respectively, relating to the application, for your information. Also enclosed is a copy of the application for the use of the Field Team.

We note that the Applicant has the drilling equipment and intends to do the proposed drilling itself. It is suggested that the Applicant be requested to secure bids on non-core drilling as well as core drilling if a project appears likely.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

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

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

MChing/izm 3-4-57
cc to: Mr. Ching
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224
JKratchman, AEC

8623

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
3-1	Ching	700
3-4	Ellis	700
3/4	Selfridge	130
"	Johnson	110
"	Mittendorf	100
		220

MAR -4 1957

Mr. A. D. Rice and
Mr. R. W. Dodds
1315 Colorado Avenue
LaJunta, Colorado

Re: Docket No. DMEA-4638 (Uranium)
Toby, et al., Claims
Grand County, Utah

Lamb
Kilgaard

Gentlemen:

The application for assistance in exploring your property, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to:

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

MChing/izm 3-1-57
cc to: Mr. R. W. Dodds (same envelope as A.D. Rice)
Mr. Ching
Admr.'s Reading File
DMEA FT Reg. 3 (2)

8623

IN REPLY REFER TO:

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

February 27, 1957

Memorandum

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

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

Subject: Review of application, DMEA 4638, A. D. Rice and R. W. Dodds, Toby, et al Claims, Thompson district, Grand County, Utah (uranium)

The applicant proposes to explore for uranium ore deposits on four separate blocks of claims - a total of 57 mining claims. The proposed project would consist of a total of 10,000 feet of core drilling at a total estimated cost of $34,120.

The property is located in the Yellow Cat area where exploration interest - and ore production - appears to be on the wane. A large amount of drilling was done by the Government just to the east of the applicant's claims. Drilling was suspended by the Government after the conclusion was reached that the ore deposits in the vicinity were small and of marginal grade. DMEA 3360, Contract Idm-E723, Mid-Continent Uranium Corporation, on section 2, immediately adjoining the applicant's Big Horn claims in section 3 was judged unsuccessful at the close of DMEA drilling, although the Operator claims to have discovered some ore through subsequent drilling of his own.

From past Government efforts in the Yellow Cat area DMEA expenditures on the subject property are probably not warranted. The Field Team should, however, be asked for their views on the matter. Referral of the application to the Field Team is recommended. A field examination of the claims may not be necessary.

If DMEA participation is contemplated on the property, it seems that much of the drilling, at least all of the shallower drilling, could be done by air-return methods at a large saving over core drilling.

W. P. Williams

W. P. Williams

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DMEA
RECEIVED FEB 28 1957

DATE	INITIALS	CODE
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2-28	Cheng	700

Comment Complete

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

Date February 20, 1957

DMEA Docket No. 4638
DMEA Contract No.
Commodity Uranium
Name of Applicant A. D. Rice & R. W. Dodds
Name of Property (Toby;No Such; Big Horn; etc.)
Location of property Grand County, Utah
Estimated cost of project $34,120.00

Ernest William Ellis, DMEA Member
Uranium Commodity Committee
J. E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Application

(Application, DMEA Form Report, etc.)

1. Date received: 2/15/57 2. Date received by reviewer: 2/15/57
4. Is application or other property items to reviewer: Yes ☐ No ☐
5. Is [illegible] or mining or portion items to reviewer: Yes ☐ No ☐
6. Information available on post production: Yes ☐ No ☐
7. Other pertinent factors items to reviewer: Yes ☐ No ☐
7. Right to [illegible] and [illegible]:

8. Factors meriting special consideration:
a. Reserves ☐
b. Geography ☐
c. Evidence of diversification ☐
d. Geology ☐
e. Proposed exploration method ☐
f. Alternate exploration method ☐
g. Costs ☐
h. _____ ☐

9. Action taken: exploration
a. Obtain/information from applicant ☒
b. Refer to field item ☒
c. Return ☐
d. Agree with field item ☐
e. Consult with Mr. _____ at _____ the office.
f. Disagree with field item ☐
g. Suggest alternate plan ☐
h. Request another consideration ☐
i. Approval ☐

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

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RECEIVED FEB 20 1957
DATE | INITIALS | CODE
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" | [illegible] | 720

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

February 15, 1957

Mr. A. D. Rice and
Mr. R. W. Dodds
1315 Colorado Avenue
LaJunta, Colorado

Subject: DMEA-1638

Gentlemen:

Your application for exploration assistance, dated February 11, 1957 submitted to our office at Denver, Colorado has been assigned Docket Number DMEA-1638 and referred to the Rare & Miscellaneous Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: Region III
Copy 700

6416

containing 0.42 percent U_3O_8 and 0.91 percent V_2O_5. However, this deposit has recently been opened up by extension of workings from the adjacent Ringtail mine and the reserve estimate has not been substantiated. A total of 241 tons of ore, worth approximately $40.00 per ton, was shipped before the deposit was exhausted and the work was stopped. The cost of development was too great to make the operation profitable.

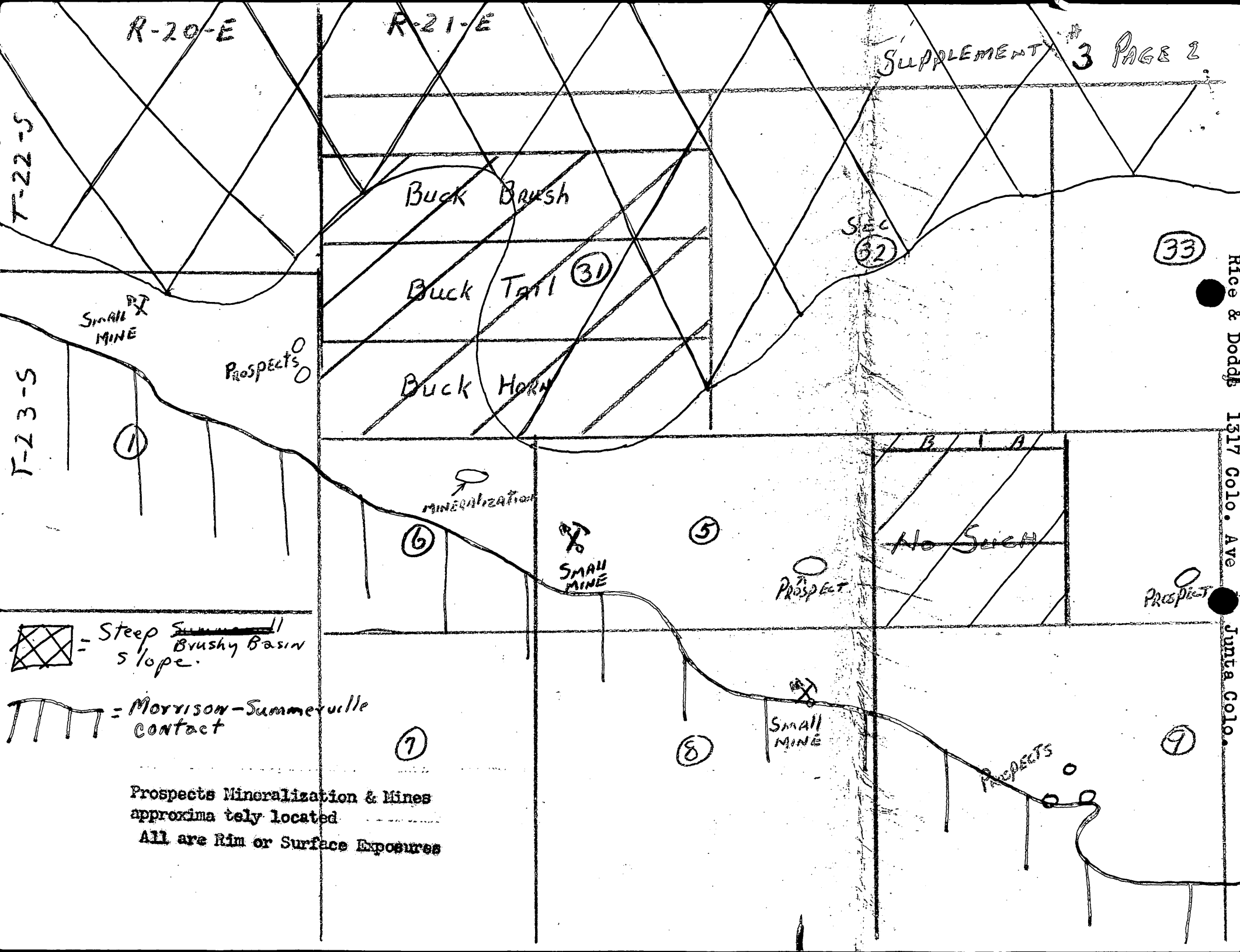
The only production from the applicant's ground has been 2 small shipments made in 1956. Atomic Energy Commission records show the following:

Dry Tons	Content % U_3O_8	Content % V_2O_5
0.2	1.27	12.7
3.0	0.32	0.82

This came from a rim outcrop and a log found by trenching on the Toby No. 3A claim. The ore was upgraded by careful selection.

OWNERSHIP AND EXTENT

The property included in the proposed DMEA project consists of 50 full claims and 7 fractional claims in secs. 3, 4, and 15, T. 23 S., R. 21 E., and sec. 31, T. 22 S., R. 21 E., Salt Lake Meridian, listed as follows:



Rice & Dodds 1317 Colo. Ave Junta Colo.

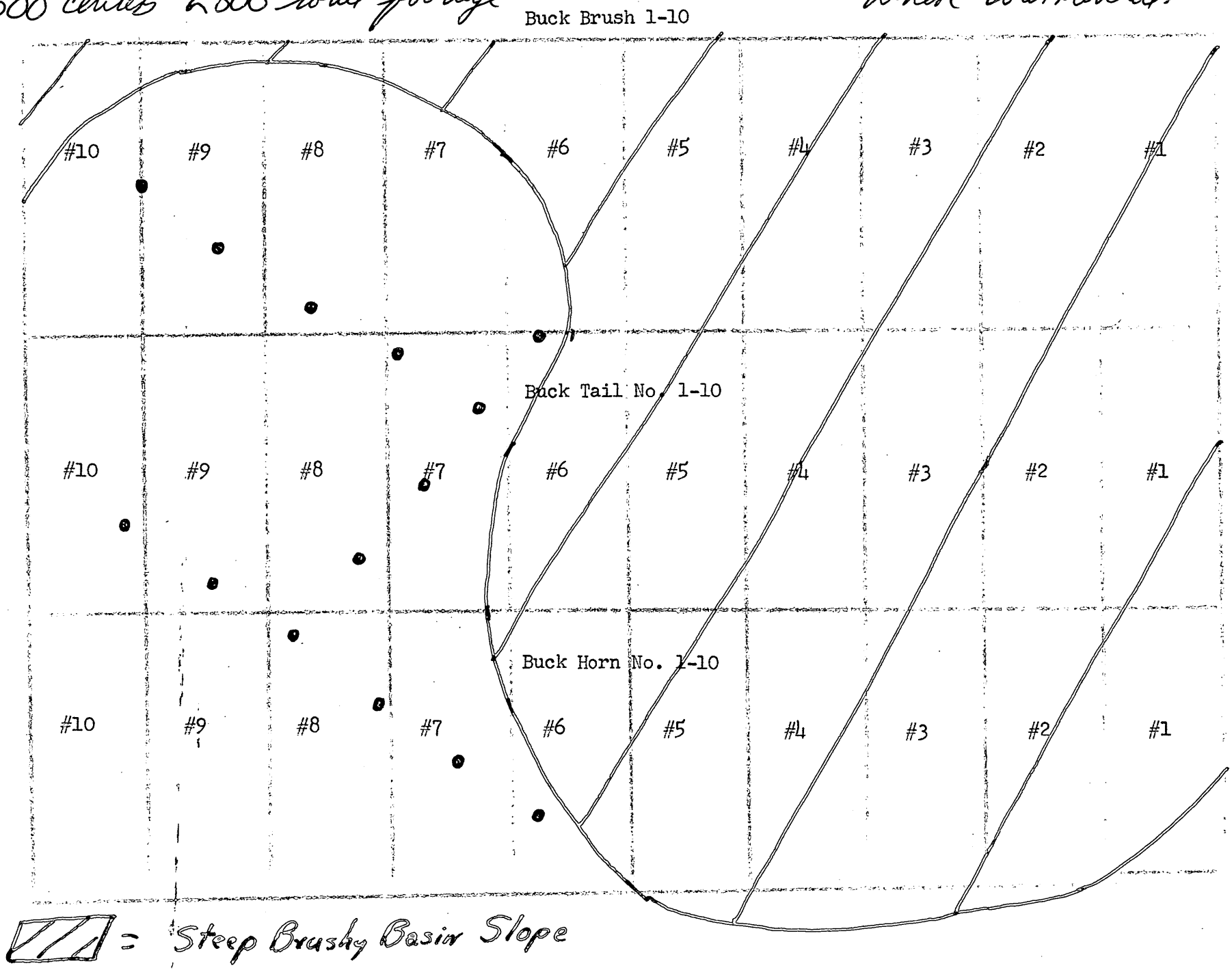
D.M.E.A.

Supplement #5

Rice & Dodds 1317 Colo. Ave La Junta Colo

Initial Drilling (plotted)
14 holes 200' average depth
500' centers 2800' total footage

Secondary Drilling
250' centers if and/or
where warranted.

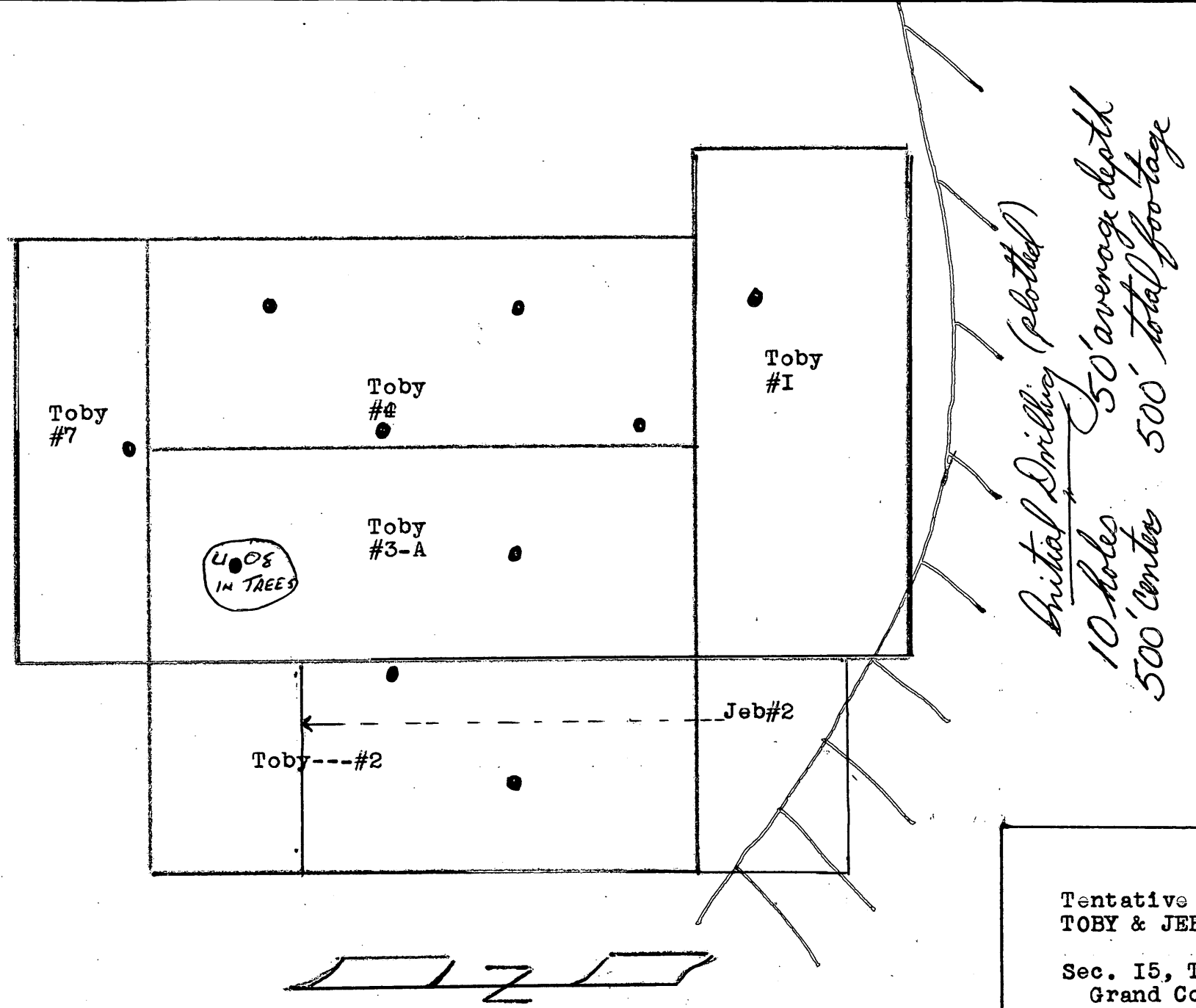


Tentative
Hole
Pattern

BUCK Group
Sec. 31
T-22-S
R-21-E
Grand Co
Utah

A. D. Rice
R. W. Dodds

Supplement #5



Rice & Dodds 1317 Colo. Ave La Junta Colo

Tentative Hole Pattern
TOBY & JEB#2 CLAIMS

Sec. I5, T-23-S R-2I-E
Grand Co. Utah

A.D. Rice & R.W. Dodds

= Summerville or Entrada contact with Morrison

RECEIVED
OCT 15 1957
D.M.E.A.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
APRIL 1957
DOCKET 4638

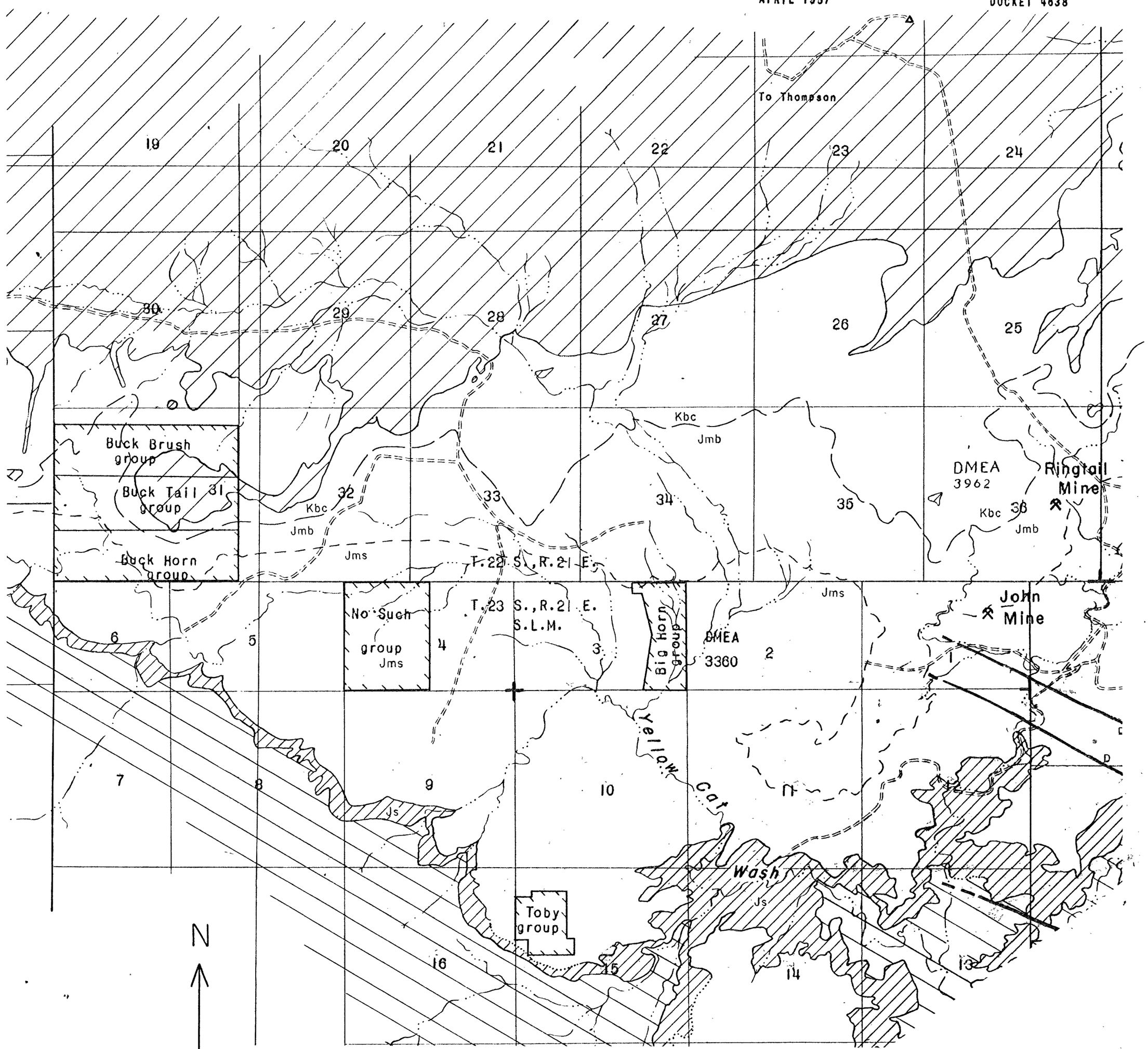


Figure 2.--GEOLOGIC MAP SHOWING APPLICANTS PROPERTY, A.D. RICE AND R.W. DODDS, YELLOW CAT AREA, ~~SAN JUAN~~ GRAND COUNTY, UTAH.