DMEA Form 1

DEFENSE MINERALS EXPLORATION ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA Docket No. 4493

DO NOT DETACH THIS SLIP

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Copies sent to:

USGS, BM

Routing Slip

To:	700	Date	10/10/56
To:	Mr. Crawford	Date	10/19/56
To:	Operating Com.	Date	10-31-56
To:	TEJ	Date	10/31/56
To:	CSM	Date	10-31-56
To:	Mr Johnson	Date	11-14-56
To:	CSM	Date	11-14-56
To:	130	Date	2-7-57
To:	110	Date	2-8-57
To:	100	Date	2-8-57
To:	225	Date	2-8-57
To:		Date	
To:		Date	
To:		Date	
To:		Date	

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IMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4493

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(Withdrawn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

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

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224 New Customhouse
Denver 2, Colorado

October 1, 1956

4493

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium-Copper) Anticline Uranium, Inc. (D. H. P. and Ruby Claims) San Juan County, Utah

Enclosed are two copies of the subject application in the amount of $26,022.00. One copy of the application is being retained in our files and one copy is being forwarded to the Grand Junction Office, DMEA for their recommendations concerning a field examination on the subject property.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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DMEA

DEPARTMENT OF THE INTERIOR
OCT 1 1956
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. 4493
Metal or Mineral Uranium - Copper
Date Received 10-4-56
Estimated Cost $26,022
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: Anticline Uranium, Inc. Incorporated in California
Noel S. Christensen, President - 1860 Harrison Avenue, Salt Lake City, Utah
M. L. Arent, Vice President - 151 West South Temple, Salt Lake City, Utah
John P. Reeves, Treasurer - 781 EmersonAvenue, Salt Lake City, 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
64-76 lode claims on Dead Horse Point, located approximately 30 miles southwesterly from Moab, Utah

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
Lessee with option to purchase

(*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

(*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 U. anium and Copper

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

(*c*) The work will start within 10 days and be completed within 12 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated September 25, 1956

Anticline Uranium, Inc.
(Applicant)

By Noel S. Christensen Pres.

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

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

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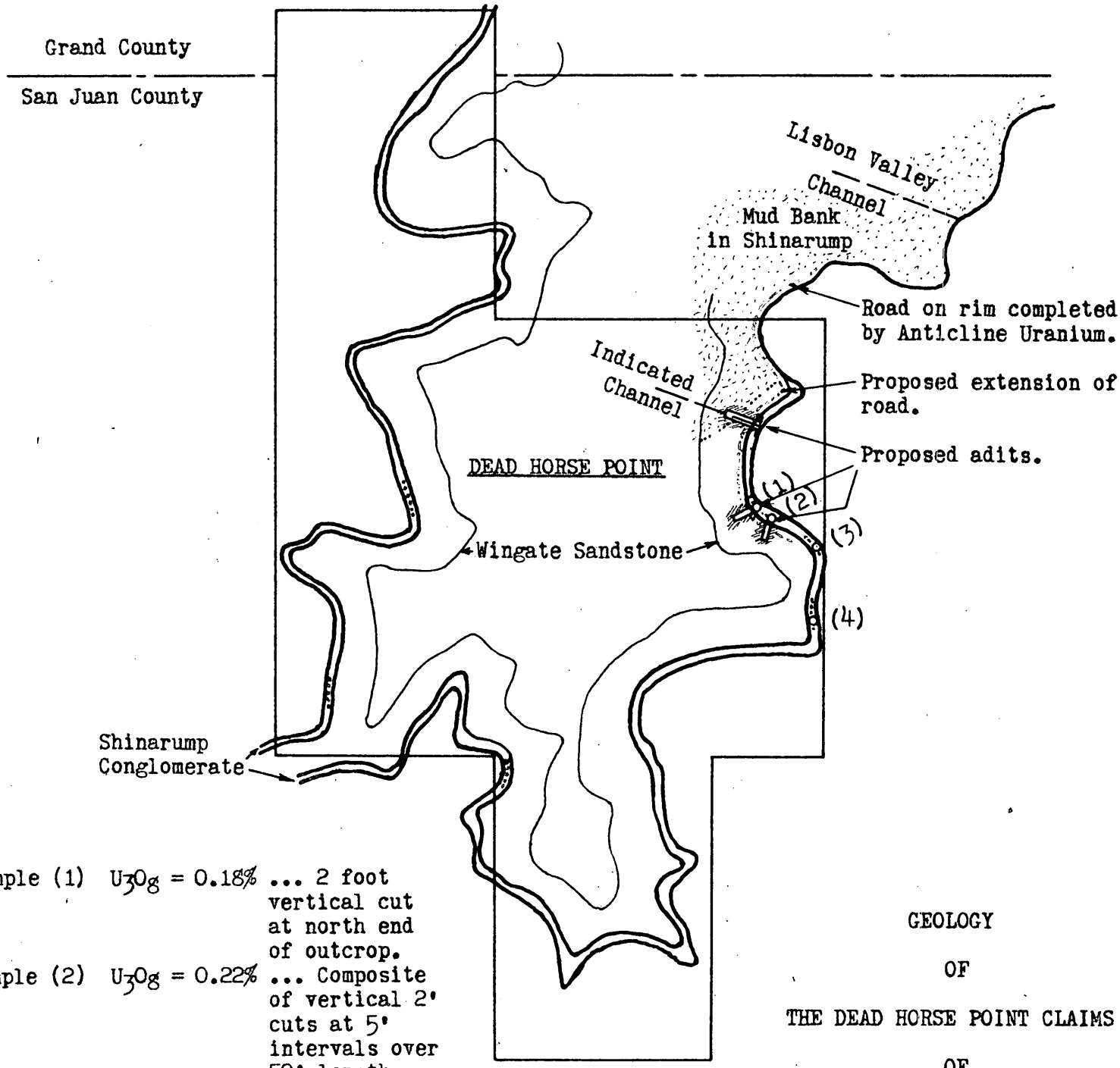

Sample (1) U_3O_8 = 0.18% ... 2 foot vertical cut at north end of outcrop.

Sample (2) U_3O_8 = 0.22% ... Composite of vertical 2' cuts at 5' intervals over 50' length

Sample (3) U_3O_8 = 0.08% ... Composite of vertical 2' cuts at 5' intervals over 30' length.

Sample (4) U_3O_8 = 0.05% ... Grab Sample.

GEOLOGY

OF

THE DEAD HORSE POINT CLAIMS

OF

ANTICLINE URANIUM, Inc.

Scale 1" = 2000'

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APPENDIX TO APPLICATION

1. The name of the Company is: Anticline Uranium, Inc.

1a. The mailing address is: Noel S. Christensen
1860 Harrison Avenue
Salt Lake City, 8, Utah

3a. The legal description of the land in which we wish to explore is shown on the attached drawing of the claims.

3b. The name of the property is the Dead Horse Point Unit of Anticline Uranium, Inc.

3d. Copy of lease option is attached to this appendix.

3f. Book and page numbers is attached to this appendix.

4a. Other than the section of road shown in the attached drawing of the geology of the claims, and a limited amount of drilling, there has been no mine development work expended on the claims. The area in which the proposed development work will be expended is easily accessible for examination purposes.

4b. There has been no ore shipped nor are there any ore reserves on the claims.

4c. The claims are staked on exposures of the Kayenta Formation covering the Dead Horse Point promontory, as shown by the attached drawing of geology, and include surface outcrops of the Wingate and Chinle formations, the Shinarump conglomerate and Moenkopi and Cutler formations. The claims are situated on the northerly flank of the Shafer Dome. The strata strikes N 80° W and dips 2° to 7° northerly. In general, the mineralization occurs in the Shinarump conglomerate, near the Moenkopi contact. Extending into the claims, on the extreme northeasterly boundry, is a fairly large calcareous mud bank - approximately 40 feet in thickness. In the northeasterly adjacent property, the productive Lisbon Valley Uranium Company channel occurs in this formation. It is believed that mud banks are very favorable for the formation of ore bodies in the Shinarump conglomerate. In addition to the mud bank, there are numerous fragments of both carbonaceous and asphaltic material, considered important in the deposition of uranium minerals. The object or reasons for the proposed development work is (first) to uncover the indicated channel, which at the present time is mostly covered with slough material, and prove its existence. If the indicated channel is of favorable size, then drive an adit in the channel, to and into the projection of the mud bank. The second object is to drive an adit into the mineralized outcrop, shown on the attached geological sketch at Sample (1). The third object is to drive an adit into the mineralized outcrop shown on the attached geological sketch, at Sample (2).

4d. The project has been made accessible by the construction of a road from the canyon bottom, up to the Shinarump rim, in the adjacent northeasterly Lisbon Valley property. Probably because of the tourist attraction, there is an improved dirt road from Dead Horse Point to Highway 160, a distance of 23 miles. Also the Shafer Trail, from Dead Horse Point to the canyon bottom, is kept in good repair.

Ore may probably be trucked economically to Moab, Thompson, Green River or Monticello. Distances follow:

to Moab is 35 miles
to Thompson is 59 miles
to Green River is 78 miles
to Monticello is 93 miles

4e. Manpower, materials, supplies and water may be obtained at Moab. There is no electric power available in the area. Anticline Uranium, Inc. has ample equipment to complete all of the proposed development work.

5b. The proposed development work is shown on the sketch of the geology of the claims. The first work will be the extension or construction of a 2500 foot road along the ore rim or Shinerump-Moenkopi contact. The road work will prove or disprove the existence of the indicated channel, which at the present time is mostly covered with slough material. If the existence of the indicated channel is proved and the channel is of productive size, then an adit will be started and driven in the channel, into the projected mud bank. It is believed that ore may be found in the mud bank near the contact. The estimated length of the adit is 400 feet. The second object is to drive an adit 200 feet into the mineralized outcrop shown on the attached geological sketch at (1). The third object is to drive an adit 200 feet in length into the mineralized outcrop shown at (2) on the attached geological sketch. After the work has been started it may be advisable to vary the lengths of the headings, however not to exceed the total suggested length of 800 feet.

5d. Both the foreman, A. D. Coombs, and the president, N. S. Christensen, will supervise the work, however only Coombs will live or stay at the camp. The following is the experience and background of N. S. Christensen: He has a B. S. Degree in Mining Engineering from the University of Utah. He is a registered Professional Engineer and Land Surveyor in Utah - license No. 842. He worked for the United States Smelting Refining and Mining Company for 25 years, starting as a mucker in Bingham Canyon. He worked up through the ranks as miner, shift boss, foreman, surveyor, mine geologist, mine engineer, assistant superintendent and mine superintendent. In both the consulting capacity and as president of Anticline Uranium, he has more than two years experience on the Plateau. A. D. Coombs has had approximately 20 years experience in mining. He is a top miner, mechanic, dozer operator, driller and foreman.

6. A detailed cost of 2500 feet of road construction and 800 feet of drifting follows:

Road work will require blasting of boulders and probably blasting of some rock in place. The estimated time for completing the road work is twenty three days. Personnel required will be the foreman, a dozer operator and one miner. The crew will work forty hours per week. The crew will work ten days and be off three days. Cost of foreman is $600 per month. Cost of dozer operator is $2.50 per hour and cost of miner is $2.25 per hour. The Company furnishes the living quarters, the fuel, water and transportation.

<u>Labor Cost</u> -

Miner labor @ $2.25 per hour for ten days =	$180.00
Dozer Operator @ $2.50 per hour for ten days =	200.00
Foreman salary for ten days - $24 x 10 =	240.00
Total labor for ten days =	$620.00
Total labor for twenty days =	$1240.00

State & Federal Labor Taxes -

Employee's Compensation	6.52%	
Federal Unemployment Insurance	0.3 %	
State Unemployment Insurance	2.7 %	
Federal Old Age Insurance	1.0 %	
Total		10.52%

Labor Cost for twenty days ..... =	$1240.00
State & Federal Taxes @ 10.52% ..... =	130.00
Total labor cost	$1370.00

Supplies Cost for Twenty-Day Period

Powder 25# per day @ $22.00 per cwt. ..... =	$110.00
Caps & Fuse ..... =	12.00
Compressor Fuel (diesel)	
1½ gal. per hour @ $0.20 per gal. ..... =	48.00
Dozer Fuel (diesel)	
2½ gal. per hour @ $0.20 per gal. ..... =	80.00
Filters, lube, maintenance of equipment ... =	50.00
Drill steel ..... =	25.00
Bits ..... =	25.00
Jackhammer, lube and repair ..... =	10.00
Total cost supplies ...	$360.00

Road Cost Summation

Labor Cost ..... =	$1370.00	
Supplies ..... =	360.00	
Total	$1730.00	
Contingency @ 15% ..... =	260.00	
Total All		$1990.00

Equipment Furnished by Anticline Uranium
and Estimated Rental Value

TD14 Dozer ..... =	$300.00
315 IR Compressor ..... =	250.00
Camp Facilities for crew ..... =	75.00
Trucks, trans., water, supplies, etc. ..... =	100.00
Jackhammer, hoses, etc. ..... =	25.00
Total	$750.00

Cost of Drifting

In the drift or adit work, it is assumed that two headings will be driven simultaneously. A crew of one miner, two muckers and the foreman will advance the headings a total average of five feet per day. The miner will receive $2.25 per hour and the muckers will each receive $2.00 per hour. The foreman will receive $600 per month. Estimated cost per foot follows:

Labor Cost

	Cost per 8 Hour Day
Miner - 8 x $2.25 ..... =	$18.00
Muckers - 2 x 8 x $2.00 ..... =	32.00
Foreman per day 600 ÷ 25 ..... =	24.00
Total	$74.00
State & Federal Taxes @ 10.52% (see page 3)=	7.78
Total All	$81.78
Labor Cost per foot of drift - 81.78 ÷ 5 ..=	$16.35

Estimated Cost per Foot of 600 Feet Drifting

	Cost per Foot
Labor & Supervision	$16.35
Explosives	2.75
Power (air)	1.50
Drill and mucking repairs	2.50
Timber	1.00
Miscellaneous, tools, grease, etc. ..	0.25
Total	$24.35
Contingency @ 15% ... =	3.65
Total All ...	$28.00

Total cost of 600 feet of drifting
600 x $28.00 ..... = $16,800.00

Estimated time for completing drifting = 8.5 months

Estimated Geological & Assaying cost = $500.00

Equipment Furnished by Anticline Uranium and Estimated Rental Value

	Cost Per Month	Total
315 IR Compressor	$300.00	$2550.00
12B EINCO Loader	100.00	850.00
Mine cars	20.00	170.00
Rail & Ties	-	500.00
Camp Facilities	100.00	850.00
Transportation	100.00	850.00
Drills	25.00	212.00
Total		$5982.00

Summation

Cost of Road		$1990.00
Road Equipment Furnished	$750.00	
Cost of Drifting		16800.00
Drifting Equipment Furnished	5982.00	
Geological & Assaying Cost		500.00
Total Cost (Amount of Loan) ...		$19290.00
Total Equipment Furnished	$6732.00	
Total Cost of Project		$26022.00

Percentage of Total (loan) 74.13
Percentage of Total (Equipment Furnished)... 25.87

7a. Anticline Uranium is prepared to furnish all of the equipment necessary to complete the project.

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OPTION AGREEMENT

This agreement made the 1st day of June, 1956, by and between George D. Fehr, a single man of Salt Lake City, Utah, hereinafter referred to as First Party, and Anticline Uranium Inc., a California corporation, hereinafter referred to as Second Party

WHEREAS, First Party is owner of those certain unpatented lode mining claims known as

D.H.P. Nos. 1-32 inclusive
D.H.P. Nos. 33 & 34
D.H.P. Nos. 51-58 inclusive
D.H.P. Nos. 58, 59, 60
Ruby Nos. 1-20 inclusive

situate in San Juan County, Utah.

WHEREAS, the Second Party is a mining company desirous of exploring for commercial ores of all types, kinds and nature, and particularly uranium and vanadium ores in reference to the aforesaid claims, and are desirous of mining the same when found in commercial quantities.

WITNESSETH:

NOW, THEREFORE, It is mutually contracted, covenanted and agreed by and between the parties as follows to-wit:

1. First Party hereby bargains, sells and grants to Second Party the right and option to purchase at any time within a period of one year from date, each and all of the aforesaid unpatented lode mining claims for the sum of Twenty Five Thousand Dollars ($25,000.00).

First Party agrees to convey and to grant said mining claims to Second Party by good and sufficient deed upon receipt of Twenty Five Thousand Dollars ($25,000.00) paid to him by Second Party at any time within a period of one year from date.

2. Second Party agrees to explore and mine said claims in a good mining-like manner, and First Party agrees that Second Party shall have the right to immediate, sole and exclusive possession to said claims in order to accomplish said exploration and mining purposes. First Party agrees that Second Party shall in no way be indebted to

First Party for this right to explore and mine said claims except as is hereinafter set forth. Second Party agrees to bear all expenses for exploratory and mining operations.

Second Party shall have exclusive and final right of determination as to the amount of exploratory work to be expended upon said claims, and shall have exclusive rights as to exploratory and mining operations.

Second Party agrees to do the annual assessment work by July 1, 1956, and to post and record with the San Juan County recorder, the necessary proofs of labor.

First Party shall have the right to inspect at reasonable times and under reasonable circumstances said mining properties, and the books, accounts, settlement sheets and mill receipts owned by or in possession of Second Party.

3. In the event that uranium and vanadium ore of commercial quality and quantity is discovered, Second P arty agrees to pay First Party ten per cent (10%) of the gross profit of any ore shipped and sold to the United States Government or any other bona fide purchaser. Gross profit shall be defined as the net mill return, but shall not include any haulage allowance and development allowance paid to Second Party.

It is mutually agreed that any sums of money paid to First Party from the gross profits of any ore shipped, shall constitute partial payment of the total purchase price of Twenty Five Thousand Dollars ($25,000.00), for said mining claims. Said payments shall terminate upon receipt of the remaining balance of the purchase price, tendered to First Party by Second Party.

4. In the event that Second Party fails to pay First Party the sum of Twenty Five Thousand Dollars ($25,000.00)within a period of one year from date, this agreement shall terminate and shall become null and void. Neither party shall be liable to the other for expenses incurred. Any sums of money realized from production of ore acquired by Second Party from gross profits shall belong to each respective party.

Witness the hands of the parties on the day first above written.

WITNESS:

First Party

Anticline Uranium Inc.

By

President

Secretary

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

On the 1st day of June, 1956, personally appeared before me GEORGE D. FEHR: NOEL S. CHRISTENSEN, AND D. F. WILKINS, for and on behalf of Anticline Uranium, Inc., Signers of the foregoing Option Agreement, who duly acknowledged to me that they executed the same.

Notary Public

Residing at Salt Lake City, Utah

My Commission Expires: April 20, 1957

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MEMORANDUM AGREEMENT

This agreement made the 26th day of September, 1956, by and between George D. Fehr, a single man of Salt Lake City, Utah, hereinafter referred to as First Party, and Anticline Uranium Inc., a California corporation, hereinafter referred to as Second Party

WHEREAS, First and Second Parties entered into an option agreement on the 1st day of June, 1956, whereby First Party agreed to allow Second Party to explore certain mining claims situate in San Juan County, Utah, and

WHEREAS, Second Party agreed under certain conditions to pay First Party Twenty Five Thousand Dollars ($25,000.00) within one year from said date if Second Party in its discretion chose to purchase said mining claim, and

WHEREAS, those certain unpatented mining claims are known as

D.H.P. Nos. 1-32 inclusive
D.H.P. Nos. 33 & 34
D.H.P. Nos. 51-58 inclusive
D.H.P. Nos. 58, 59, 60
Ruby Nos. 1-20 inclusive

and WHEREAS, First and Second Parties are both desirous of acquiring a D.M.E.A. loan from the United States Government. Now, therefore, it is mutually contracted, covenanted, and agreed between First and Second Parties as follows:

1. This memorandum agreement is hereby incorporated into by reference and made a part of that certain option agreement executed by and between the parties on June 1, 1956.

2. That the provisions of said contract requiring payment by Second Party within a period of one year shall be abbrogated and rescinded and the duration and life of said option agreement in all its particulars shall be for a period of two years. That said Second Party shall have until June 1, 1958, to explore said mining claims and to exercise its option to purchase the same.

Witness the hands of the parties on the day first above written.

WITNESS:

Frank T. Heynch

Frank T. Heynch

George D. Fehr
First Party

ANTICLINE URANIUM INC.

By Neil S. Christenson
President

D. A. Wilkins
Secretary

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(CAPTION)

ABSTRACT OF TITLE

to

Mining Claims
Prepared by

SAN JUAN COUNTY ABSTRACT COMPANY

to the following described unpatented mining claims situated in San Juan County, State of Utah, to-wit:

NAMES OF CLAIMS	RECORDED Book	page
D.H.P. Nos. 1 - 32 incl	207	441-472 incl.
D.H.P. Nos. 33 & 34	259	335-336
D.H.P. Nos. 51-58 incl.	207	473-480 incl.
D.H.P. Nos. 58, 59, 60	257	359-361 incl.
Ruby #1	207	432
Ruby #2	235	340
Ruby #3	207	433
Ruby #4	235	340
Ruby #5	207	434
Ruby #6	235	341
Ruby #7	207	435
Ruby #8	235	341
Ruby #9	207	436
Ruby #10	235	342
Ruby #11	207	437
Ruby #12	235	342
Ruby #13	207	438
Ruby #14	235	343
Ruby #15	207	439
Ruby #16	235	343
Ruby #17	207	440
Ruby #18	234	344
Ruby #19	235	345
Ruby #20	235	344

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R 20 E

T 26 S

Grand County

San Juan County

31

Craig Group of Claims

14	13
12	11
10	9
8	7
6	5
4	3
2	1

32

33

6

Ruby Group of Claims

2	1	2	1	51
4	3	4	3	52
6	5	6	5	53
8	7	8	7	54
10	9	10	9	55
12	11	12	11	56
14	13	14	13	57
16	15	16	15	58
18	17	18	17	59
20	19	20	19	60
		22	21	
		24	23	
		26	25	
		28	27	
		30	29	
		32	31	
		34	33	

4

Dead Horse Point Group of Claims

T 27 S

7

9

CLAIMS

OF

ANTICLINE URANIUM, Inc.

Scale 1" = 2000'

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
2/7	Knouse	700
2-7	Ellis	700
2/8	Selbridge	130
"	Johnson	110
"	Mittendorf	100
2/12	[illegible]	220

Lamb
Kiilsgaard

FEB 8 1957

Mr. Noel S. Christensen, President
Anticline Uranium, Inc.
1860 Harrison Avenue
Salt Lake City, Utah

Re: Docket No. DMEA-4493 (Uranium)
D.H.P. and Ruby Claims
San Juan County, Utah

Dear Mr. Christensen:

Your application for aid in an exploration project and other information available to us in Washington concerning your 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.

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

Administrator

FIKnouse/gla
2-7-57
cc to: Admr.'s Reading File
Operating Committee
T. H. Kiilsgaard, 5224
AEC - Jack Kratchman
Code 700
Mr.Knouse
DMEA Field Team, Region III (2)

8623

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

DOCKET COPY
F. Kuvane

February 6, 1957

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No.: DMEA-4493

Commodity: Uranium

Applicant: Anticline Uranium, Inc.
1860 Harrison Avenue
Salt Lake City 8, Utah

Property: Consists of 64 contiguous unpatented lode mining claims, namely, Dead Horse Point Nos. 1 through 32, 33, and 34; 51 through 57, 58, 59, and 60; and Ruby Nos. 1 through 20, in secs. 4, 5, 6, and 8, T. 27 S., R. 20 E., SLM&B, San Juan County, Utah.

Property rights: Applicant has an option until June 1, 1958, to purchase the claims from the owner, George D. Fehr.

Date of application: September 26, 1956.

Work proposed: Consists of 2500 feet of road construction along the rim of the Shinarump-Moenkopi contact, and 800 feet of drifting. Road work would investigate an indicated channel covered with talus. If the channel exists, 400 feet of drifting is proposed along the channel, and 200 feet each of adit drifting into two other mineralized outcrops.

Application states there has not been any ore shipped, and there are no known ore reserves on the claims. Two samples taken from rim outcrops assayed 0.18 percent and 0.22 percent U_3O_8 at two adit drift sites.

The property has been partly explored by a limited amount of rim stripping and drilling. Three or four holes drilled about 50 feet behind a weakly mineralized outcrop on D.H.P. claim No. 52 failed to indicate an extension of mineralization.

Cost of Proposed Work:

Road construction (2500 feet):

Total labor cost, including taxes and insurance	$1,370.00	
Supplies	360.00	
Contingency (15% of $1,730.00)	260.00	
Equipment rental (company owned)	750.00	
Total		$2,740.00

Drifting (600* feet):

Labor and supervision @ $16.35/ft.	$9,810.00	
Explosives @ $2.75/ft.	1,650.00	
Power (air) @ $1.50/ft.	900.00	
Drill and mucking repairs @ $2.50/ft.	1,500.00	
Timber @ $1.00/ft.	600.00	
Miscellaneous @ $0.25/ft.	150.00	
Equipment rental (company owned)	5,982.00	
Contingencies @ $3.65/ft.	2,190.00	
Geological and assay costs	,500.00	
Total		$23,282.00

Total Estimated Cost of Project	$26,022.00
Government Participation @ 75%	$19,516.50

* Operator submitted costs for only 600 feet of drifting.

Field Team Report - January 1957
By F. M. Byers, USGS, and H. F. Robertson, USBM

The claims lie in the area between the Green and Colorado Rivers and cover the surface and slopes of Dead Horse Point. Rocks exposed on the claims range from the Cutler formation of Permian age to the Kayenta formation of Jurassic age. The potential ore-bearing beds are in the basal part of the Chinle formation of Triassic age, which is underlain unconformably by the Moenkopi formation of Triassic age.

The Moss Back member, the lower unit of the Upper Triassic Chinle formation, forms a prominent ledge of red, fine-grained sandstone, averages about 40 feet in thickness, and crops out half way up the Dead Horse Point cliff. At no place on the Applicant's claims does the Moss Back member channel markedly into the underlying red-brown Moenkopi formation, and no gray alteration of the Moenkopi immediately under the Moss Back could be seen. The Moss Back near its northern limit or "pinch-out", as at Dead Horse Point, is commonly unfavorable for uranium deposition. The Chinle formation above the Moss Back member is about 300 feet thick. A 10 to 20-foot thick sandstone ledge, known locally as the "Black Ledge," crops out about 100 feet above the base of the Chinle. Between the Moss Back and the Black Ledge sparsely distributed uranium-bearing lenses of carbonaceous

siltstone and lime pebble conglomerate occur.

At the site of the northernmost proposed adit only cross-bedded sandstone and mudstone were observed just below the Black Ledge. A partly exposed 60-foot section between the top of the Moss Back member and the Black Ledge is composed of variegated greenish gray sandstone, siltstone and mudstone in lenticular beds. No mineralized material and no channel scours were observed.

The site of the second proposed adit (where Sample No. 1 was taken by Applicant that assayed 0.18 percent U_3O_8 from a 2-foot exposure) consists of a lens of laminated coaly siltstone, one foot thick and exposed along the outcrop for about 20 feet. Lenticular sandstones above and below this exposure are mineralized. The highest reading on the Geiger counter along this lens was about 0.50 percent eU_3O_8. This lens is about 20 feet above the top of the Moss Back sandstone.

The exposures where Applicant's samples 2, 3, and 4 were taken were inaccessible, but Applicant informed examiners that the lithology where the samples were taken was similar to that of Sample 1.

The only production in the vicinity of the property has been from the Massey Channel (in the Moss Back) of the Lisbon Valley Uranium Corporation, 2200 feet northeast from the property.

In the opinion of the examining team, the scattered, lenticular nature of the uranium deposits at different stratigraphic position within the lower third of the Chinle does not suggest the possibility that an ore body of sufficient size might be found to justify the expenditure to construct the access road and drifting. Therefore, it is recommended that the application should be denied.

Field Team concurs with the recommendations of the examiners.

Comments of Commodity Specialists:

U.S. Geological Survey, N. E. Nelson, February 1, 1957.

Concurs with recommendations to deny application.

U. S. Bureau of Mines, John E. Crawford, January 31, 1957.

Agree with Field Team.

Rare and Miscellaneous Metals Division, F. L. Knouse, February 6, 1957.

Because of the known small, scattered occurrences of uranium unmineralized bodies at different stratigraphic horizons on this and nearby properties, it is not believed that the possibility

of making a significant discovery of uranium on this property is promising. Therefore, the application for DMEA aid should be denied.

Conclusions:

A review of all our information concerning the proposed project indicates that the probability of making a significant discovery of uranium on the property is not promising. Therefore, the application should be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis

IN REPLY REFER TO:

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

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D M E A
RECEIVED FEB 5 1957

DATE	INITIALS	CODE
2/5	C	220
2-5	Knouse	700

Comments Complete

February 1, 1957

Re: DMEA 4493
Anticline Uranium Inc.
Dead Horse Point and Ruby claims
San Juan Co., Utah
$26,022.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team Report.

The applicant requested assistance in doing exploratory work on showings of uranium-bearing material some distance above the base of the Chinle formation by stripping incidental to road building and drifting. The Dead Horse Point prospect is about 2,200 feet from the Massey channel deposit from which about 1,876 tons of ore assaying 0.28% U_3O_8 was shipped. The deposit rests on the Moenkopi formation.

The examiners took one 2-foot sample of a one foot thick, 20 feet long lense of laminated coaly siltstone which assayed 0.18% U_3O_8. At another point a 2-foot sample of a 50 feet long lense taken by a representative of the applicant assayed 0.22% U_3O_8. To this lense the examiners ascribe 180 tons of inferred ore. The lenses are well above the base of the Chinle formation and are not exactly comparable to the deposit at the Massey mine.

In view of the limited and scattered exposures of uranium bearing material and the generally unfavorable environments the examiners and the Field Team recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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1-31	C	220
1-31	[illegible]	700

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

Date January 31, 1957

DMEA Report No. 4493
DMEA Contract No.
Commodity Uranium
Name of applicant Anticline Uranium, Inc.
Name of property Dead Horse Point and Ruby group
Location of property San Juan Co., Utah
Estimated cost of project $26,022.00

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee
John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Field Team Report
Anticline Uranium, Inc.

1. Date of contact: 1/57 2. Date received by Bureau: 1/28/57

3. Did applicant contact property man to indicate: Yes ☐ No ☐

4. Did applicant or property geologist have to evaluate: Yes ☐ No ☐

5. Information available on pit protection: Yes ☐ No ☐

6. Other pertinent factors to consider: Yes ☐ No ☐

7. Explain items marked yes above:

8. Factors meeting special consideration:
- a. Location ☐
- b. Commodity ☐
- c. Evidence of mineralization ☐
- d. Safety ☐
- e. Proposed exploration method ☐
- f. Alternate exploration method ☐
- g. Costs ☐
- h. _____ ☐

9. Action checked:
- a. Obtain information from applicant ☐
- b. Refer to Field Team ☐
- c. Reject ☒
- d. Agree with Field Team ☒
  - 1. Consult with Mr. _____ at _____ ADC office.
- e. Disagree with Field Team ☐
- f. Support alternate plan ☐
- g. Request another consideration ☐
- h. Approval ☐

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

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

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DATE	INITIALS	CODE
1-24	CW	220
		130
1-29	C	220
1-29	Krome	700

224 New Customhouse
Denver 2, Colorado

January 21, 1957

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Joint Report of Examination Docket DMEA 4493 (Uranium) Anticline Uranium, Inc. (Dead Horse Point and Ruby group of claims) San Juan County, Utah.

Enclosed are four copies of a joint engineering and geologic Report of Examination on the subject property.

The examiners concur that the finding of any ore deposits of significant size on this property are considered very poor. They recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
1-28-57
(date)

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

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

MINERAL DEPOSITS
IN REPLY REFER TO:
DMEA
RECEIVED
JAN 17 1957
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

TRANSMITTED
JAN 21 1957

January 16, 1957

Memorandum

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RECEIVED JAN 24 1957

DATE	INITIALS	CODE
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To: Executive Officer, DMEA Field Team, Region III

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

From: F. M. Byers, Jr.,

Subject: Transmittal of joint engineering and geological report, DMEA 4493 (Uranium), Anticline Uranium, Inc., (Dead Horse Point and Ruby group of claims), San Juan County, Utah

The Anticline Uranium, Inc., 1860 Harrison Avenue, Salt Lake City, Utah applied for DMEA assistance to explore their Dead Horse Point and Ruby groups, located at Dead Horse Point, San Juan County, Utah. The applicant requested 2,500 feet of road construction and 800 feet of drifting, at an estimated total cost of $26,022.00.

The property was examined on November 20, 1956 by F. M. Byers, Jr., U. S. Geological Survey, and H. F. Robertson, U. S. Bureau of Mines. The potential ore-bearing beds are in the lower part of the Triassic Chinle formation. The known uranium deposits occur as small, lenticular masses of carbonaceous siltstone. The outcrops occur on steep slopes below Dead Horse Point and for that reason road building would be costly.

The nearest known uranium ore body is the Massey channel deposit of Lisbon Valley Uranium Corporation approximately three-fourths of a mile northeasterly from the uranium exposures on the Dead Horse Point claims. Although this deposit has shipped nearly 2,000 tons of ore averaging 0.28 percent U_3O_8, the Massey deposit occurs in a distinct channel at the base of the Chinle rather than as thin, scattered lenses some distance above the base, as on the Dead Horse Point claims.

Because of the small, scattered occurrences of uranium ore on the applicant's property, the examining team concludes that there is little chance of discovering a significant ore body. They, therefore, recommend that the application of Anticline Uranium, Inc. for DMEA assistance be denied. I concur with the recommendations of the examining team.

The Atomic Energy Commission was consulted during the preparation of the report. Enclosed are 12 copies of the report complete with two illustrations. Also enclosed is the applicant's brochure.

F. M. Byers, Jr.
For J. William Hasler,
Geologist

Reviewed by
DMEA OPERATING COMMITTEE
1-28-57

FMB/mlr
Enclosures

(8680)

FOR UNITED STATES GOVERNMENT USE ONLY

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

TRANSMITTED

JAN 21 1957

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

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RECEIVED JAN 24 1957

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		220

DMEA 4493

Anticline Uranium, Inc.,
Dead Horse Point and Ruby group of claims
San Juan County, Utah

Uranium

Joint Engineering and Geological Report

By

F. M. Byers
Geological Survey

H. F. Robertson
Bureau of Mines

ON-SITE REPORT

January 1957

Reviewed by
DMEA OPERATING COMMITTEE
1-28-59
(date)

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Present Status	4
Ore Deposits	5
Ore Reserves	8
Proposed Exploration	9
Conclusions and Recommendations	10

ILLUSTRATIONS

Figure

1. Map of Utah, showing location of Craig, Ruby, and Dead Horse Point groups, Anticline Uranium, Inc.

2. Geologic Map showing work proposed by Applicant

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DMEA 4493

Anticline Uranium, Inc.
Dead Horse Point Unit

INTRODUCTION AND SUMMARY

Anticline Uranium, Inc., 1860 Harrison Avenue, Salt Lake City, Utah applied for DMEA assistance in an exploration program on its Dead Horse Point and Ruby groups of mining claims in San Juan County, Utah. The application requested aid in completing 2,500 feet of road construction and 800 feet of drifting at an estimated overall cost of $26,022.00.

The property was examined on November 20, 1956 by a DMEA examining team consisting of F. M. Byers, U. S. Geological Survey and H. F. Robertson, U. S. Bureau of Mines. Sixty-four unpatented lode mining claims comprise the property included in the applicant's proposed exploration project. Very little planned development work has been done on the groups of claims and no ore has been produced.

The claims lie in the area between the Green and the Colorado Rivers and cover the surface and slopes of Dead Horse Point.

Rocks exposed on the claims range from the Cutler formation of Permian age to the Kayenta formation of Jurassic age. The potential ore-bearing beds are in the basal part of the Chinle formation of Triassic age, which is underlain unconformably by theMoenkopi formation of Triassic age.

The known uranium deposits in the area are small and scattered, and the rugged topography makes exploration costly. The chances of finding any ore deposits of significant size on the applicant's property are considered very poor and it is therefore recommended that the application be denied.

ACKNOWLEDGMENTS

The Atomic Energy Commission was consulted for pertinent data on the inter-river area, including production and reserve information. Memoranda from N. E. Nelson, USGS, and J. E. Crawford, USBM, relating to the subject application were noted.

The examining team was accompanied by Noel S. Christensen, president of Anticline Uranium, Inc.

LOCATION, TOPOGRAPHY, AND CLIMATE

The 64 unpatented claims are located mainly in Secs. 4, 5, 6, and 8, T. 27 S., R. 20 E., SLM, San Juan County, Utah (figs. 1 and 2). The property covers the top and slopes of Dead Horse Point, a well-known promontory in the inter-river area. Altitudes range from 4,600 to 6,100 feet.

There is no water or timber available on the property. A poor access road, 10 miles in length, leads to the Shafer trail, an all-weather road which, 28 miles to the northeast, connects with U. S. Highway 160 at a point nine miles north of Moab, Utah and 30 miles south of the Denver and Rio Grande Western Railroad at Thompson, Utah.

Labor, materials, and supplies can be obtained in Moab, and uranium ore can be shipped to the Moab mill.

HISTORY AND PRODUCTION

The area between the Green and Colorado Rivers has been prospected for uranium minerals since about 1951. The few known uranium deposits in the area are generally small and scattered. The extensive work of the AEC in the inter-river area has resulted in an inferred ore estimate of only 8,000 tons.

The only production in the vicinity of the applicant's claims has been from the Massey channel deposit of Lisbon Valley Uranium Corporation, 2,200 feet northeast of the northeast corner of the Dead Horse Point claim group (fig. 2). According to AEC records up to September 30, 1956, Lisbon Valley Uranium Corporation had shipped 1,876 tons of ore averaging 0.28 percent U_3O_8.

OWNERSHIP AND EXTENT

The property consists of 64 unpatented lode mining claims in Secs. 4, 5, 6, and 8, T. 27 S., R. 20 E., SLM, San Juan County, Utah. Anticline Uranium has an option until June 1, 1958, to buy the two groups of claims from the present owner, George D. Fehr. A signed copy of the option agreement was included with the application. The claims are recorded in the office of the County Recorder, San Juan County, Utah, as follows:

NAMES OF CLAIMS	RECORDED BOOK	RECORDED PAGE
Dead Horse Point Nos. 1 - 32 incl.	207	441 - 472 incl.
Dead Horse Point Nos. 33 and 34	259	335 - 336
Dead Horse Point Nos. 51-57 incl.	207	473 - 480 incl.
Dead Horse Point Nos. 58, 59, and 60	259	359 - 361 incl.
Ruby Nos. 1, 3, 5, 7, and 9	207	432 - 436 incl.
Ruby Nos. 11, 13, 15, and 17	207	437 - 440 incl.
Ruby Nos. 2, 4, 6, 8, and 10	235	340 - 342 incl.
Ruby Nos. 12, 14, 16, 18, and 20	235	342 - 344 incl.
Ruby No. 19	235	345

The Craig group of 14 claims (figs. 1 and 2) was originally included in the application but was withdrawn by the applicant prior to the field examination.

PRESENT STATUS

Exploration and Development

The property has been partly explored by a limited amount of rim stripping and drilling. Three or four holes drilled about 50 feet behind a weakly mineralized outcrop (noted as "Copper Pit" on figure 2) on the Dead Horse Point No. 52 claim failed to indicate any extension of the mineralization.

Mining Equipment and Other Facilities

There is no mining equipment on the property. Other facilities consist of access roads.

GEOLOGY

The Ruby and Dead Horse Point groups of claims cover the surface and slopes of Dead Horse Point, a well-known promontory in the inter-river area (fig. 2). The beds dip gently northerly off the north flank of the Shafer Dome. Beds exposed on the claims range in age from the Permian Cutler formation to the Jurassic (?) Kayenta formation.

The Permian Cutler formation and possibly 100 feet of overlying Lower Triassic Moenkopi formation form the base of the cliffs at Dead Horse Point.

The Mossback member (J. H. Stewart, oral communication), the lower unit of the Upper Triassic Chinle formation, forms a prominent ledge of red, fine-grained sandstone, which averages about 40 feet in thickness and crops out half way up the Dead Horse Point cliff (fig. 2). This unit wedges out near the northwest corner of the Dead Horse Point claim group. At no place on the applicant's claims does the Moss Back member channel markedly into the underlying red-brown Moenkopi formation, and no gray alteration of the Moenkopi immediately under the Moss Back could be seen. According to J. H. Stewart (oral communication), the Moss Back member is commonly unfavorable, owing to presence of finer detritus, near its northern limit or "pinch-out", as at Dead Horse Point.

The upper part of the Chinle formation above the Moss Back member is about 300 feet thick. A prominent sandstone ledge, 10 to 20 feet thick and informally known as the "Black Ledge" (J. H. Stewart, oral communication) crops out about 100 feet above the base of the Chinle formation. Sparsely distributed uranium-bearing lenses of carbonaceous siltstone, and sandstone, and lime pebble conglomerate occur within the Chinle formation below the "Black Ledge" or between it and the Moss Back member.

The Upper Triassic Wingate and Jurassic Kayenta sandstones form a 500- to 600-foot near-vertical slope in the uppermost part of the cliff around Dead Horse Point (fig. 2).

ORE DEPOSITS

Lisbon Valley Uranium Corporation

In order to adequately evaluate the geologic setting of the applicant's property, the Massey channel deposit of Lisbon Valley Uranium Corporation was examined by the DMEA team. An open cut approximately 200 feet long and 20 feet in maximum height has exposed two mineralized lenses composed of intertonguing sandstone, conglomeratic sandstone and lime pebble conglomerate.

The upper lens at the northeast end of the pit is about 100 feet long and 8 feet in maximum thickness. However, only the lower three feet of the lens is weakly mineralized. The base of this lens is about 10 feet above the Moenkopi contact and about 5 feet stratigraphically above the top of the lower lens, as exposed in the open cut.

The lower lens is exposed in the open cut for horizontal distance of 80 feet southwest of the adit portal, which is approximately in the middle of the cut. The lower lens averages about 5 feet in thickness as exposed in the cut and is similarly composed of interbedded sandstone and lime pebble conglomerate. The lower

lens rests on one to two feet of altered bleached Moenkopi. To the southwest the lens pinches out by an intertonguing relation with Chinle mudstone. To the northeast the lens or channel wedges out abruptly against a bank of red and purple mottled Chinle mudstone. The adit has been driven along this contact.

The adit is 10 to 15 feet wide and extends approximately N. 75° W. for 200 feet, with the Chinle mudbank on the north side. At about 100 feet in from the portal the channel sandstone and conglomerate lens reaches 12 feet in thickness and the back of the adit is 12 to 14 feet high. Ore-bearing portions of the lens are grayish black sandstone with abundant carbonaceous trash. One crosscut has been driven several feet northward into the barren Chinle mudbank. Two crosscuts to the south, 15 and 20 feet respectively, penetrated weakly mineralized, then barren sandstone within a few feet. The heading of the adit has climbed up the mudbank a few feet so that ore still remains along the floor and in the lower part of the south wall for the last 20 feet. There is little doubt that the ore produced from the Massey channel, which is the lower lens, came from this adit.

An adit was started by Lisbon Valley Uranium Corporation on a sandstone lens about 2,000 feet S. 75° W. of the Massey channel adit (see fig. 2), but all the ore was blasted out in one round. The base of this lens appears to be at least 10 feet above the Moenkopi contact, which is not exposed at this place.

Dead Horse Point group

The "Copper Pit" (fig. 2) is the northernmost of several mineralized exposures that were shown to the DMEA examining team on the Dead Horse Point group. According to Mr. Noel S. Christensen, representative of the applicant, samples containing as much as 16 percent copper and 1.2 percent U_3O_8 were taken from this pit. A sandstone lens 6 feet thick is stained in places with green copper carbonates

and is weakly radioactive in the basal few inches. The examining team would classify the six foot face as barren, although slightly mineralized above background. Apparently all the high-grade material reported in this pit was removed in sampling. Three or four drill holes collared 50 feet back and 50 feet above the pit failed to penetrate any mineralized material.

The examining team, accompanied by Mr. Christensen, walked from the end of the bulldozer road at the "Copper Pit" for 1500 feet along a steep blocky, boulder-strewn Chinle surface to the site of the northernmost proposed adit and along the site of the proposed DMEA extension of the bulldozer road. Many of the blocks of Wingate sandstone exceeded 1,000 cubic feet in size and were of sufficient frequency that several would have to be blasted in any roadbuilding. The slope on this surface between the top of the Moss Back member and the base of the "Black Ledge" ranges from 50 to 100 percent.

At the site of the proposed northernmost adit (fig. 2), where the applicant had indicated a channel on the map accompanying his brochure, only cross-bedded sandstone and mudstone were observed just below the "Black Ledge." A partly exposed 60-foot section between the top of the Moss Back member and the base of the "Black Ledge" is composed of variegated red and greenish gray sandstone, siltstone and mudstone in lenticular beds. No mineralized material and no channel scours were observed. Mr. Christensen apparently assumed that the crossbedding just under the "Black Ledge" was indicative of a channel, inasmuch as similar crossbedding can be observed above the Massey channel sandstone lens of Lisbon Valley Uranium Corporation.

The site of the middle proposed adit where sample 1 was taken (fig. 2, table 1), consists of a lens of laminated coaly siltstone, one foot thick and exposed along the outcrop for about 20 feet. Lenticular sandstones above and below this coaly siltstone are unmineralized. The highest reading on the Geiger counter along this lens was about 0.50 percent eU_3O_8. This lens is approximately 60 feet above the base of the Chinle or 20 feet above the top of the red Moss Back sandstone.

The exposures at localities where the applicant's samples 2, 3, and 4 were taken were inaccessible, owing to snow and ice covering the steep northeast-facing slope (fig. 2). Mr. Christensen, however, informed the examining team that the lithology at the locales of samples 2, 3, and 4 was similar to that at sample 1; namely, laminated carbonaceous material in siltstone. The analyses of samples 1, 2, 3, and 4 reported by the applicant are presented in table 1 below.

Table 1. Analyses of samples, Dead Horse Point group (see fig. 2)

SAMPLE	THICKNESS	% U_3O_8	REMARKS
1	2.0'	0.18	
2	2.0'	0.22	Composite of 2-foot cuts at 5-foot intervals over 50-foot length
3	2.0'	0.08	Composite of 2-foot cuts at 5-foot intervals over 30-foot length
4	--	0.05	Grab sample

ORE RESERVES

The inferred reserve at the Massey Channel of Lisbon Valley Uranium Corporation is estimated at 500 tons of ore containing 0.28 U_3O_8 based on past production and exposures near the face of the adit.

The ore reserve on the applicant's Dead Horse Point group at the locale of Sample 2 (table 1, fig. 2) is inferred at 180 tons of ore containing 0.22 percent U_3O_8, assuming that the ore exposed in outcrop extends half the exposed length into the cliff.

PROPOSED EXPLORATION

The applicant's proposed exploration program consists of 2,500 feet of road construction and 800 feet of exploratory drifting (fig. 2). The road work was to investigate the "indicated" channel, which is presently covered with talus. If the channel exists, an adit, 400 feet in length, would be driven in the channel to explore for uranium deposits. Two more adits, totaling 400 feet in length are proposed at mineralized outcrops (1) and (2) as shown on figure 2. The exploration project would be completed in an estimated 9.3 months.

A summary of the estimated costs of the applicant's proposal is as follows:

Road Construction (2,500 feet)

Total labor cost (including taxes and insurance)	$1,370.00
Supplies	360.00
Contingency (15.% of $1,730.00)	260.00
Equipment rental (company owned)	750.00
TOTAL (road construction cost)	$2,740.00

Drifting (600 feet)

Labor and supervision at $16.35 per foot	$9,810.00
Explosives at $2.75 per foot	1,650.00
Power (air) at $1.50 per foot	900.00
Drill and mucking repairs at $2.50 per foot	1,500.00
Timber at $1.00 per foot	600.00
Miscellaneous at $0.25 per foot	150.00
Contingency at $3.65 per foot	2,190.00
Equipment rental (company owned)	5,982.00
Geological and Assaying costs	500.00
TOTAL drifting costs	$23,282.00
Estimated overall cost of project	$26,022.00
Government participation at 75 percent	$19,516.50
Estimated time for completion (road work and drifting)	9.3 months

The applicant proposed a total of 800 feet of drifting but computed the estimated cost of just 600 feet. The 200 feet of drifting not included in the applicant's cost estimate would add $5,600.00 (200 feet at $28.00 per foot) to the overall cost of the proposed project.

Anticline Uranium, Inc. proposes to furnish equipment at various rental rates as their part of the cost of the project.

No proposed exploration program is submitted by the DMEA examining team.

CONCLUSIONS AND RECOMMENDATIONS

Anticline Uranium, Inc., has proposed 2,500 feet of access road building and rim stripping and 800 feet of exploratory drifting: 400 feet at the supposed channel and 200 feet each at the locales of samples 1 and 2 (fig. 2). Total cost of the proposed project would be $26,022.00, with the applicant furnishing 25 percent or $6,732.00 in equipment.

No mineralized channel sandstone lenses at the base of the Chinle similar to the Massey channel lens of Lisbon Valley Uranium Corporation were observed on the Dead Horse Point claims of Anticline Uranium, Inc. In the opinion of the examining team, the scattered, lenticular nature of the uranium deposits at different stratigraphic positions within the lower third of the Chinle formation and the generally unfavorable character of the Chinle on the applicant's ground does not suggest the possibility that an ore body of sufficient size might be found to justify the expenditure for access road building and drifting.

It is therefore recommended that the application of Anticline Uranium, Inc. for DMEA assistance be denied.

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DECEMBER 1956
DOCKET 4493

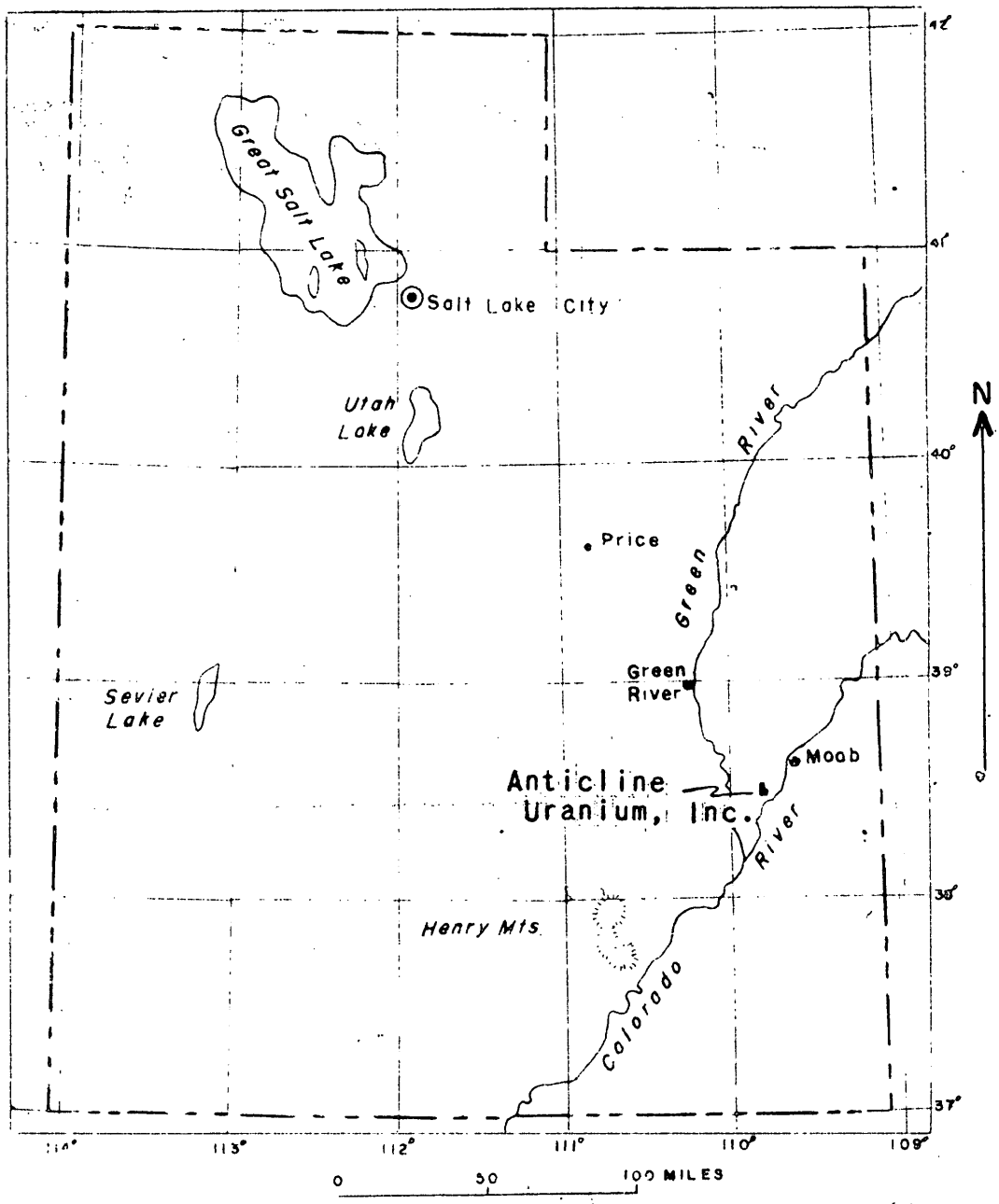

FIGURE 1.--MAP OF UTAH, SHOWING LOCATION OF CRAIG, RUBY, AND DEAD HORSE POINT GROUPS, ANTICLINE URANIUM, INC., GRAND AND SAN JUAN COUNTIES, UTAH.

RECEIVED
JAN 24 1957
D.M.E.A.

700

FILE COPY

Surname:

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

Mr. Noel S. Christensen, President
Anticline Uranium, Inc.
1860 Harrison Avenue
Salt Lake City, Utah

NOV

Re: Docket No. DMEA-4493 (Uranium)
D.P.H. and Ruby Claims
San Juan County, Utah

Dear Mr. Christensen:

This is with reference to your letter of November 6, 1956, in which you request that we delete the Craig group of 14 claims from your application. As requested these claims have been deleted.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

FLKnouse/izm 11-14-56
cc to: Docket
Code 700
Mr. Knouse
Admr.'s Reading File
DMEA Field Team, Reg. III (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

11-13-56

Region III

Building 20
Denver Federal Center
Denver 2, Colorado

DMEA
DEPARTMENT OF THE INTERIOR

November 7, 1956

NOV 8 1956
REGION III
DENVER, COLORADO

Memorandum

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

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4493 (Uranium), Anticline Uranium, Inc., (D.P.H. and Ruby Claims), San Juan County, Utah

The application for Anticline Uranium, Inc., Docket DMEA 4493, in the amount of $26,022.00 was received in this office on November 7, 1956.

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: W. M. Traver (2)
H. H. Hershman
J. W. Hasler
M. H. Salsbury
J. F. Shaw
See. Op. Con. (2)

11-13-56

NOEL S. CHRISTENSEN
MINING ENGINEER
1860 Harrison Avenue
SALT LAKE CITY, UTAH

November 6th, 1956

RECEIVED
NOV 13 1956
D.M.E.A.

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

Gentlemen:

Re: Docket No. DMEA-4493 (Uranium)
D. H. P. and Ruby Claims
San Juan County, Utah

With reference to your letter of October 31, 1956 advising that my application listed 76 lode claims on Dead Horse Point and that the option agreement of George D. Fehr listed only 64 claims, may I please advise and suggest the following:

The Craig group of claims (please refer to claim's drawing in application) are located at such a distance from the proposed development work, that it is believed this work will have little or no bearing on possible ore occurrence in the claims and therefore, this group of claims should be developed at a later date, from the west side of Dead Horse Point mesa. If possible may I revise or amend the application to include only the 64 Ruby and DHP claims, as shown on the claims drawing, and delete the additional Craig claims.

Yours very truly,

Noel S. Christensen
President, Anticline

NSC/lc

cc: Mr. W. M. Traver

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DECEMBER 1956 DOCKET 4493

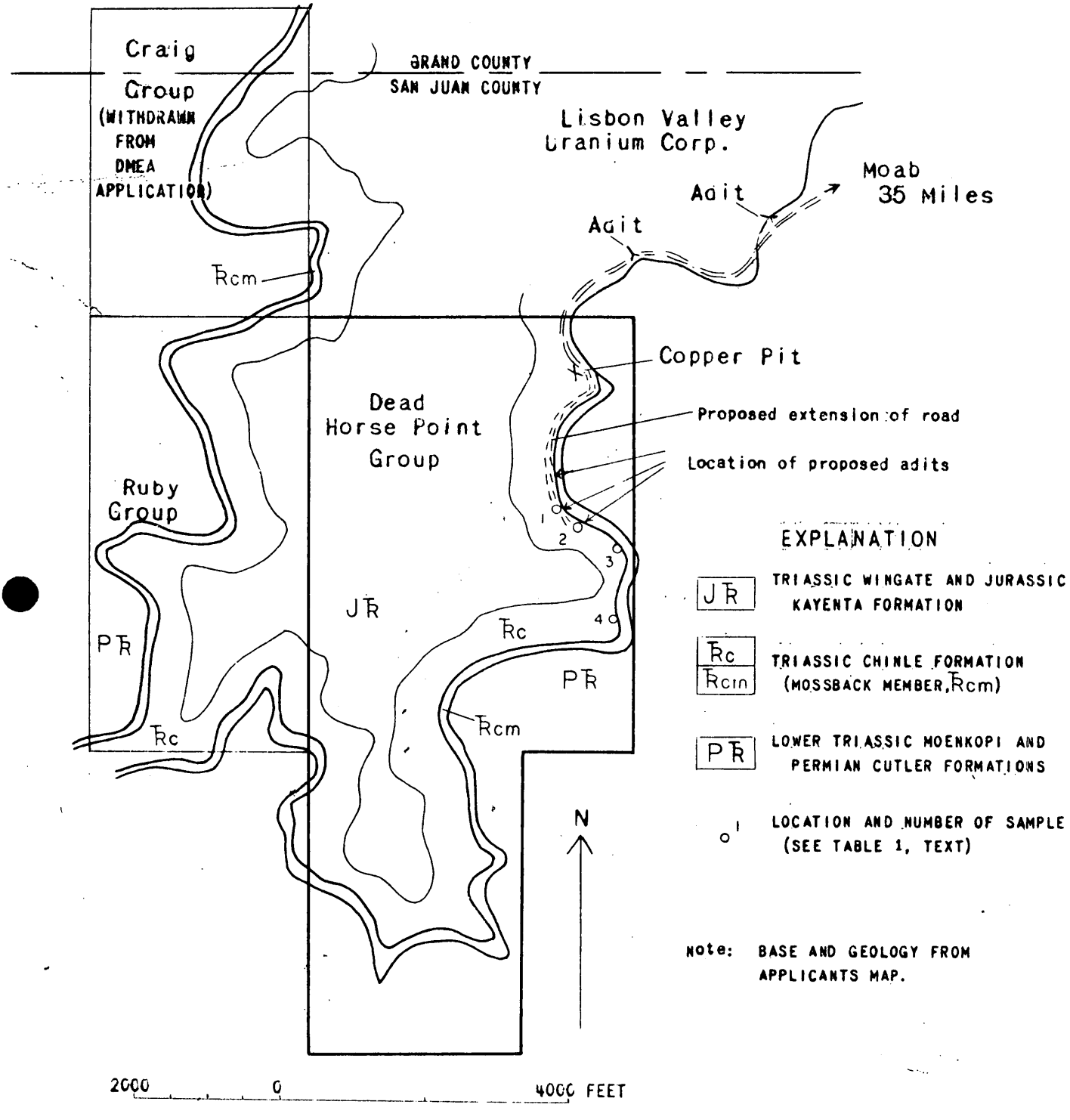

FIGURE 2.--GEOLOGIC MAP SHOWING WORK PROPOSED BY APPLICANT, CRAIG, RUBY, AND DEAD HORSE POINT CLAIM GROUPS, ANTICLINE URANIUM, INC., GRAND AND SAN JUAN COUNTIES, UTAH.

RECEIVED
JAN 24 1957
D.M.E.A.

11-8-56

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

224 New Customhouse
Denver 2, Colorado

November 6, 1956

Memorandum

To: W. H. King - with brochure
J. W. Hesler

From: DMEA Field Team, Region III

Subject: Docket No. DMEA-4493 (Uranium), Anticline Uranium, Inc. (D.P.H. and Ruby Claims), San Juan County, Utah

Enclosed is the subject application in the amount of $26,022.00. A field examination and suitable report are required.

Also enclosed is a copy of a letter from the Chairman of the Operating Committee dated October 31, 1956, and memoranda of review of the application by N. E. Nelson and John E. Crawford. Should the field examiners recommend an exploration project, please advise at an early date so that we may obtain the necessary Consent To Lien and Subordination Agreement.

The Administrator's letter to the applicant dated October 31, 1956, copy of which is attached, brings out the discrepancy of the 76 lode claims included in the application and the "Option Agreement" which lists only 64 claims. The additional information requested by the Administrator has not as yet been received in this office.

Will you please return the brochure with the report of examination.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

Encls.

HMC:bh

cc-Sec. Op. Comm. (2)
Harshman
DMEA-4493
Chron.

700

FILE COPY

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

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

OCT 31 1956

Re: Docket No. DMEA-4493 (Uranium)
Anticline Uranium, Inc.
D.P.H. and Ruby Claims
San Juan County, Utah

Dear Mr. Traver:

The captioned application is referred to your office for a field examination and report on the proposed project. We have requested certain additional information from the Applicant that you may or may not need for making the examination.

Enclosed are copies of memoranda, dated October 23 and 25, 1956, from Mr. N. E. Nelson, USGS, and Mr. John E. Crawford, USBM, respectively, relating to the subject project.

If the Field Team recommends an exploration project, we will require, in addition to the usual information, a Consent to Lien and Subordination Agreement by George D. Fehr, covering the claims referred to in the "Option Agreement" of Mr. Fehr and the Applicant, and, also, of all other property owners of any additional land that is not owned by the Applicant, that is to be included in a recommended contract.

Sincerely yours,

George C. Selfridge
(257)

Chairman, Operating Committee

Enclosures

APPROVED:

Frank D. Lamb
257

Member, Bureau of Mines

Thor H. Kiilsgaard
257

Member, Geological Survey

FLKnouse/gla/izm 10-29-56
cc to: Docket
Code 700
Mr. Knouse
Admr.'s Reading File
Operating Committee
Mr. JECrawford, Rm. 3643
Mr. THKiilsgaard, Rm. 5224
Mr. JOHosted, Rm. 3210, GSA

Surname copy

700

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

Mr. Noel S. Christensen, President
Anticline Uranium, Inc.
1860 Harrison Avenue
Salt Lake City, Utah

OCT 31 1956

Re: Docket No. DMEA-4493 (Uranium)
D.P.H. and Ruby Claims
San Juan County, Utah

Dear Mr. Christensen:

The application for assistance in exploring your claims, 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

In the meantime, so the processing of your application will not be delayed, you should furnish the following:

In your application you state 76 lode claims on Dead Horse Point are included in the application. However, the "Option Agreement" of George D. Fehr and your company, submitted with your application, lists only 64 claims. Therefore, you should furnish the recorded name, book and page number of the recording of the additional claims to be included in the application and also furnish a claim map or sketch, drawn to scale, which shows their locations. In addition, if these claims are not owned by your company, you should furnish evidence of how the interest is held, i.e., lease or other documents.

One copy of the lease, or other documents, and two copies of the additional information should be forwarded to Mr. Traver at the above address, and the same to this office.

The Regional Office will contact you at the earliest opportunity in regard to your project.

FIKnouse/gla 10-29-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, 3643
THKillsgaard, 5224

Sincerely yours,
C. O. Mittendorf
Administrator

JOHosted, 3210, GSA
Code 700 Mr. Knouse
DMEA Field Team, Reg. III(2)

10/25/56

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

RECEIVED
OCT 25 1956

Date 10/25/56

DMEA Docket No. 4493
DMEA Contract No.
Commodity Uranium
Name of applicant Anticline Uranium Inc.
Name of property D.P.H. and Ruby Claims
Location of property Grand and San Juan Co., Utah
Estimated cost of project $26,022.00

Memorandum ✓

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

1. Date of subject document: 9/25/56. 2. Date received by reviewer: 10/20/56.

3. Prior reports on this property known to reviewer: Yes ☐, No ☐.

4. Prior reports on nearby properties known to reviewer: Yes ☐, No ☐.

5. Information available on past production: Yes ☐, No ☐.

6. Other pertinent factors known to reviewer: Yes ☐, No ☐.

7. Explain items marked yes above:

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

9. Action advised:
- a. Obtain information from applicant ☐
- b. Refer to Field Team ☒
- c. Denial ☐
- 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. J. O. Hosted, Washington representative of the Atomic Energy Commission, assisted in the review.

10-24-56

IN REPLY REFER TO:

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

RECEIVED
OCT 24 1956

October 23, 1956

Re: DMEA 4493
Anticline Uranium, Inc.
D.P.H. and Ruby Claims
San Juan Co., Utah
$26,022.00 - Uranium

Memorandum

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

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

Subject: Review of application.

The applicant requests assistance in doing exploratory work at three places. At two places samples of uranium-bearing material of ore grade have been taken. At the third place a Shinarump-Moenkopi channel is inferred and the road work requested is expected to disclose the possible channel.

The prospects are in an unfavorably regarded area but the area is not entirely barren and the Grand Junction office recommends that an examination be made.

I concur with that conclusion and recommend referral of the application to the Field Team for appropriate action.

N. E. Nelson

N. E. Nelson

10-19-56

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

RECEIVED
OCT 19 1956

224 New Customhouse
Denver 2, Colorado

October 17, 1956

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Docket DMEA 4493 (Uranium-copper) Anticline Uranium Inc. (D.P.H. and Ruby Claims) Grand and San Juan Counties, Utah

Enclosed are the original and three copies of a review of the subject application by members of the Grand Junction Office, DMEA.

They concur that a field examination of the subject property is warranted, because it is relatively near the Massey channel deposit. We concur in the recommendation that a field examination be made.

DMEA Field Team, Region III

By J. W. Townsend
Acting Executive Officer

IN REPLY REFER TO:

MINERAL DEPOSITS
DMEA
RECEIVED
OCT 15 1956
GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
OCT 16 1956
REGION III
DENVER, COLORADO

October 11, 1956

RECEIVED
OCT 19 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

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

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

Subject: Recommendation for field examination
DMEA Docket 4493 (Uranium-copper), Anticline Uranium, Inc., (D.P.H. and Ruby claims), Grand and San Juan Counties, Utah

Anticline Uranium, Inc., applied to the Defense Minerals Exploration Administration for aid in exploring the D.H.P. and Ruby group of claims in sections 31, T. 26 S., R. 20 E., and sections 4, 5, 6, and 8, T. 27 S., R. 20 E., Grand and San Juan Counties, Utah.

The subject claims lie in the inter-river area between the Green and Colorado rivers. Rocks exposed in the area consist of about 2200 feet of sedimentary beds that range in age from Pennsylvanian to Jurassic. The potential ore-bearing horizon is in the basal part of the Chinle formation of Triassic age. The Chinle formation is underlain unconformably by the Moenkopi formation and overlain by the Wingate sandstone. The Wingate sandstone and the overlying Kayenta formation crop out as a vertical cliff as much as 400 feet high. The Chinle formation forms a steep boulder-strewn slope. Because of excessive topographic development in the vicinity of the subject claims preparation of drill sites and access roads is costly. Drilling depths behind the Kayenta-Wingate cliff may be as much as 750 feet. The applicant's proposed exploration project, therefore, does not include exploratory drilling but consists of 2500 feet of access road building and rim stripping, and 800 feet of exploratory drifting costing an estimated total of $26,022.

The few known uranium deposits in the area are generally small and scattered and consist of seams and pods of mineralized material contained in sandstone and conglomeratic beds which fill channels scoured into the top of the Moenkopi formation. The potential ore-bearing horizon is in the lower part of the Moss Back member of the Chinle formation. The Moss Back member rests directly on the Moenkopi formation. The Shinarump member, which elsewhere is the basal member of the Chinle formation, is

absent in the area. It wedges out between Indian Creek and Elk Ridge to the south. The Moss Back and Shinarump members are part of a sedimentary onlap sequence of beds that pinch out from south to north. The Moss Back member is about 200 feet above the Shinarump member in the Elk Ridge area.

The Atomic Energy Commission conducted a geologic reconnaissance in the inter-river area and found that the district was not worthy of further investigation for uranium deposits. A U. S. Geological field team presently conducting a geologic mapping project in the area also concluded that the area is generally unfavorable for significant uranium deposition.

According to the applicant, a small amount of drilling and road building has been done on the claims. The results of this work were not included in the application. There are no known ore reserves on the claims and no uranium ore has been produced. However, the Lisbon Valley Uranium Company has shipped 1876 tons of ore averaging 0.28 percent U_3O_8 from the Massey channel deposit about 3500 feet northeast of the subject claims.

Although the applicant's property is in an area which is known to be generally unfavorable for significant uranium deposits, a field examination is probably warranted because the property is relatively near the Massey channel deposit. It is recommended, therefore, that a field examination be made.

W. B. Gazdik

W. B. Gazdik,
Geological Survey

M. H. Salsbury

M. H. Salsbury,
Bureau of Mines

WBG/mlr

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

October 10, 1956

Mr. Noel S. Christensen
1860 Harrison Ave.
Salt Lake City 8, Utah

Subject: DMEA-4493
Re: Exploration Assistance
Dead Horse Point Unit

Dear Mr. Christensen

Your application for exploration assistance, dated September 25, 1956 submitted to our office at Denver, has been assigned Docket Number DMEA-4493 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,

Allen S. Dakan, Chief
Operations Control and
Statistics Division

Copy to:

Region III. Denver 2, Colorado

✓Code 700