DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4566

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(Withdrawn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 & bids
(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

December 7, 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium), Columbia Uranium, Inc. (Edna No. 3 mine), Grand County, Utah

Enclosed are the original and one copy of the subject Application, in the amount of $32,730.00.

One copy of the Application is being forwarded to the Grand Junction Office, DMEA, for their review and recommendations concerning the advisability of making a field examination on the subject property. One copy of the Application is being retained in our files.

The Applicant will submit three bids for drilling and also a breakdown of his estimated costs for drilling and drifting. This information will be forwarded you when it is received by this office.

DMEA Field Team, Region III

By W. M. Traver
W. M. Traver
Executive Officer

Enclosures

RECEIVED
DEC 10 1956
D.M.E.A.

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

224 New Customhouse
Denver 2, Colorado

December 7, 1956

Memorandum

To: J. W. Mazler

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium), Columbia Uranium, Inc. (Edna No. 3 mine), Grand County, Utah

Enclosed is the subject Application, in the amount of $32,730.00.

Will you please discuss this Application with the Bureau of Mines representative of the Grand Junction Office, DMEA, and the A.E.C., and forward this office nine copies of your joint recommendations concerning the advisability of making a field examination on the subject property.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By _____
W. M. Traver
Executive Officer

Enclosure

MMC:prl

cc: Sec. Op. Comm. (2)
Shaw (2)
Marshman
Docket
Chron.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DMEA

DEPARTMENT OF THE INTERIOR

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

DEC 6 1956
REGION III
DENVER, COLORADO

Not to be filled in by applicant

Docket No. 4566
Metal or Mineral Uranium
Date Received 12-10-56
Estimated Cost $34,638
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: Columbia Uranium Inc. A Washington Corporation, 517 Arctic Bldg. 704 Third Ave., Seattle 4, Washington
Sam Thomas, President, 1320 Main St., Seattle, Wash.
Nate Feinberg, Vice-Pres., 3319 Lakewood Ave., Seattle Wash.
George Mosler, Secretary, 2207 Northern Life Tower Bldg., Seattle, Wash.

(*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 sta[illegible]nt, titles, names and addresses of officers.

(*d*) If a partnership, add to the abo[illegible]atement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Go[illegible]rnment Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract
SEE PAGE 1 ATTACHED

(*b*) State any mine name by which the property is known. Edna #3

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

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

(*e*) If you own the land, describe any liens or encumbrances on it no encumbrances

(*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. See Page 1, 2 and 3.

(*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.

RECEIVED DEC 10 1956 D.M.E.A.

16—66551-1

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

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

(*c*) The work will start within 30 days and be completed within 4 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. SEE PAGE 3 ATTACHED

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

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.). SEE PAGE 3 ATTACHED)

(*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. SEE PAGE 4 ATTACHED

(*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. SEE PAGE 4 ATTACHED

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

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

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes. SEE PAGE 4 ATTACHED

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. SEE PAGE 4 ATTACHED

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

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

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

[X] Money [X] Use of equipment owned by you See 6(d) above [ ] 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 December 4, 1956

Columbia Uranium Inc.
(Applicant)

By W. L. Friedman Gen. Mgr.

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

UNITED STATES DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RE: Application for aid in an exploration project, pursuant to DMEA Order 1, under the Defense Production Act of 1950, as amended

FOR: Columbia Uranium Inc.
517 Arctic Bldg.
704 Third Avenue
Seattle, 4, Washington

3. Applicant's property rights.-(a) (See Exhibit I "Location of Claims") Application includes Edna No. 1, 2, 3, 4, and 5.

Adjoined successively to the north by Catfish 1 to 5, incl., and Dogfish 1 to 3, incl.; adjoined to the south and east successively by the following claims: Mildred 5 to 1, Sally 5 to 1
Sybil 5 to 1, Saturn 5 to 1
Plato 5 to 1, Mars 5 to 1
Red Dot 5 to 1, Lukie 5 to 1
Van Dyke 1 to 5, Nadine 1 to 6.

(?)

These claims are a part of the same contiguous group owned by applicant but are not a part of this application, although they may be benefited by the exploration.

Exhibit II A. shows the overlap between the Edna claims and the Hey Joe and Hey Joe #2, also the agreed compromise boundary.

3. (f) Edna No. 1 Notice of Location in Book 44, Page 204
Edna No. 2 Notice of Location in Book 44, Page 205
Edna No. 3 Notice of Location in Book 44, Page 205
Edna No. 4 Notice of Location in Book 44, Page 206
Edna No. 5 Notice of Location in Book 44, Page 206

4. Physical Description (a) See Exhibit II, Abstract of Claims
See Exhibit III, Geographic Location and Road Map
See Exhibit IV, Sketch map of Mine Workings and Location of Present Drill Holes

8.3 miles of road was constructed to and over the property in 1956. During road construction on these claims four outcrops of commercial grade ore were found.

Following completion of the road, mining and drilling equipment were moved in. Twenty (20) exploratory holes were drilled (See Exhibit IV and Tabulation A) and probed. Probing was done with Babbel probe equipment and commercial ore indicated in sixteen (16) holes with thicknesses indicated from one (1) to ten and one-half ($10\frac{1}{2}$) feet.

Four (4) pits were excavated to depths of a few feet at points of commercial

Columbia Uranium, Inc.
517 Arctic Bldg, 704 Third Ave.
Seattle 4, Washington

grade outcrop. Only one pit, at the location monument of Edna No. 3 claim, showed encouraging continuation and thickening of the ore.
A tunnel (See Exhibit IV) was driven into the Chinle sandstone at this point toward holes #1, 10, and 12. Hole #12 indicated the presence of ten and one-half (10½) feet of commercial ore by Babbel probe.
The tunnel goes back about one hundred thirty (130) feet and has three short crosscuts. No sorting was done and of the two hundred fifty-five tons (255T) shipped, only eighty-eight (88) tons was accepted by the mill.
All shipments are shown on Tabulation B. All shipments were made in September and October, 1956, and operations were shut down in November, 1956.

Production Facilities: Production facilities consist of the equipment shown on the accompanying Tabulation C.

The writer has no financial or stock interest in this property or in any other property in its vicinity.

Accessibility: The mine property and workings are accessible all year (See Exhibit III) by improved gravel road to the mouth of Spring Canyon, thence up the Green River via dirt road into the upper end of the Bowknot Bend.

4 (b) Past and Current Production: The tabulations of drill hole data (Tabulation A) and shipping records (Tabulation B) are given in 4 (a). Since all shipments were made without selection of ore from waste, it is certain that selectivity would have enabled the shipment of a smaller tonnage of good commercial ore. Careful sampling of the present drift face and the crosscut faces would, in the writer's opinion, prove that reasonable care in mining would make this a commercial property at the present time. Ore reserve estimates are unjustified since probe results have not been sufficiently well correlated with assay results for one to safely assume any degree of accuracy in the probing. Mining was contracted on a tonnage basis which explains the lack of care in selecting ore for shipments.
It is the writer's opinion that this can be proven to be a commercial producer by proper underground mining methods and that an underground program should be carried on under D.M.E.A. auspices at the same time a nominal drilling program is being conducted from the surface. The success of the underground work will be greatly enhanced and its continued operation assured by the surface drilling program. ?

4 (c) Geologic Features: Crossbedded, lenticular and discontinuous Chinle sandstones outcrop near the base of the Green River Canyon and its tributaries in Township 25 South, Ranges 17 and 18 East, Grand County, Utah. These sandstones are usually interbedded with green shales and vary considerably in sedimentary character, texture, and thickness within short distances. The sands are particularly thick and continuous in the area of these claims but thin out and pinch out to the south, being replaced by a massive shale section. Dead zones of carbonaceous trash in silt and shale are evident in many places on the property.

Columbia Uranium Inc.
517 Arctic Bldg., 704 Third Ave.
Seattle 4, Washington

4 (c) (continued) Mineralization and ore occur in carbonaceous zones where porous and permeable sand forms the matryx. Carnotite and other secondary uranium salts are the most common ore minerals along with uraninite as a minor constituent.
Because of the presence of thick, mineralized and oftimes ore bearing upper Chinle sands and their high porosity and permeability, an underground mining and surface drilling program appears justified. Sizable commercial orebodies are very possible on this property. A large tonnage of low grade ore is the minimum that can be expected of an exploration project on this property.

4 (d) Project is accessible all year. It is 53.2 miles from shipping point at Thompson, Utah on the D. & R. G. W. Railroad. Residence is on the property in existing structures and supplies are available at Moab, Utah, a distance of 41.1 miles.

4 (e) Manpower, materials, and supplies are available at Moab, Utah, a distance of 41.1 miles.
Equipment for mining is available on the property. Drilling equipment is readily available at Moab, Utah.
Power must be supplied by internal combustion engine.
Adequate water is available on the property.

5 (a) Uranium and other fissionable elements.

5 (b) (See Exhibit V showing proposed drill sites, roads and underground exploration) It is proposed that core drill holes be placed between the present working face and the Wingate cliff to the southeast on one hundred foot centers, thence southwest above the exposed Chinle across the Edna No. 2 claim. Such a program will cover the most favorable appearing Chinle section and will most economically explore that area which is most accessible to the present workings on Edna No. 3, and the outcrop across Edna No. 2 claim.
(See Exhibit IV) This sketch map shows present underground exploration work. 400 feet of 7' X 8' exploratory drift is proposed during completion of exploratory drilling. Location of this drifting is to be decided during core work.

5 (d) Applicant shall have a capable and experienced engineer and geologist in charge of the project. Applicant has sufficient funds to carry out his portion of the financing.

6 (a) Independent Contracts:

A. Drilling contract for 5000 feet combined plugging, coring:
3480 feet plugging @ $2.25 /foot - - - - - - - $7830.00
1580 feet coring @ $5.00 /foot - - - - - - - - 7900.00
$15,730.00

B. Roadbuilding, locations and rock work:
200 hours @ $10.00 per hour - - - - - - - - - - 2,000.00

D. M. E. A. APPLICATION

Page Four

Columbia Uranium Inc.
517 Arctic Bldg., 704 Third Avenue
Seattle 4, Washington

C. Drifting Contract:

400 feet @ $10.00 /foot - - - - - - - - -	$4000.00	
60 day rental on equipment - - - - - - -	3000.00	
		$ 7,000.00

6 (b) Labor, supervision, consultants:

Consultant Supervision of Project	
60 days @ $50.00 /day - - - - - - - - - - - - - -	3,000.00

6 (d) Operating Equipment:

The following equipment is to be furnished by the operator. Values given are regular rental rates charged by equipment dealers.

315 compressor - - - - - - - - - -	561.00	
Electric welder - - - - - - - - - -	115.00	
105 compressor - - - - - - - - - -	170.00	
1956 3/4 ton Ford Pickup - - - -	120.00	
Babbel counter and probe - - - -	49.00	
Eimco Loader - - - - - - - - - - -	350.00	
Water pump - - - - - - - - - - - -	95.00	
Rails and tract, fishplates, bolts	35.00	
2 dump cars - - - - - - - - - - - -	35.00	
New jackhammer with legs - - - -	78.00	
1 new mine hoist - - - - - - - - -	110.00	
Camp equipment, stores, houses -	50.00	
Light plant - - - - - - - - - - - -	35.00	
1 blower and 16 h.p. motor with 12" fan - - - - - - - - - - - - - -	30.00	
Ventilation pipe - - - - - - - - -	25.00	
Pipe, hose, picks, shovels, etc.	50.00	
		$ 1908.00

(This equipment will be rented for the use of the contract miners at a rate of $1500.00 per month. Miners to furnish own fuel, oil and repairs, powder, caps and fuse.)

6 (g) Miscellaneous:

A. Analytical and Accounting - - - - - - - - -	1,000.00

6 (h) Contingencies:

A. Allowance for any increase in core drilling and drifting costs between time of application submittal and start of work -	4,000.00
Grand Total less 6 (d)	$32,730.00

T A B U L A T I O N S

A. Drill hole logs

B. Record of Ore Shipments

C. List of Applicant owned equipment on property

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE

DMEA
DEPARTMENT OF THE INTERIOR
JAN 22 1957
REGION III
COLORADO

Columbia Uranium, Inc.

517 Arctic Bldg., 704 Third Ave.

Seattle 4, Washington

B. Roadbuilding, locations and rock work: $15,730.00
200 hours @ $10.00 per hour - - - - - - - 2,000.00

C. Drifting Contract: (Three bids ~~received, the~~ lowest of which is $20.00 per foot)
400 feet @ $20.00 per foot - - - - - - - - 8,000.00
60 day rental on equipment - - - - - - - - 3,000.00

6 (b) Labor, supervision, consultants:
Consultant Supervision of Project
60 days at $50.00 /day - - - - - - - - - - 3,000.00

6 (d) Operating Equipment:
The following equipment is to be furnished by the operator. Values given are regular rental rates charged by equipment dealers.

315 compressor - - - - - - - - - - - - - - - -	561.00
Electric welder - - - - - - - - - - - - - - - -	115.00
105 compressor - - - - - - - - - - - - - - - -	170.00
1956 3/4 ton Ford pickup - - - - - - - - - - -	120.00
Babbel counter and probe - - - - - - - - - - -	49.00
Eimco Loader - - - - - - - - - - - - - - - -	350.00
Water pump - - - - - - - - - - - - - - - - -	95.00
Rails and tract, fishplates, bolts - - - - - -	35.00
2 dump cars - - - - - - - - - - - - - - - - -	35.00
New jackhammer with legs - - - - - - - - - - -	78.00
1 new mine hoist - - - - - - - - - - - - - - -	110.00
Camp equipment, stores, houses - - - - - - - -	50.00
Light plant - - - - - - - - - - - - - - - - -	35.00
1 blower and 16 h.p. motor with 12" fan - - -	30.00
Ventilation pipe - - - - - - - - - - - - - - -	25.00
Pipe, hose, picks, shovels, etc. - - - - - - -	50.00
	1,908.00

(This equipment will be rented for the use of the contract miners at a rate of $1,500.00 per month. Miners to furnish own fuel, oil and repairs, powder, caps and fuse.)

6 (g) Miscellaneous:
A. Analytical and Accounting - - - - - - - - - - - 1,000.00

6 (h) Contigencies:
A. Allowance for any increase in core drilling and drifting costs between time of application submittal and start of work - - 4,000.00
Grand Total less 6 (d) - - - - - - - $36,730.00

Moab, Utah
January 17, 1957

Columbia Uranium, Inc.
517 Arctic Building
Seattle 4, Washington

Gentlemen:

Following is my drifting bid for your property south of Green River, Utah:

A 400 foot drift 7' X 8' @ $27.00 /foot.

This bid includes my furnishing all caps, powder, fuse, and repairs on equipment.

Very truly yours,

W. J. Jones

W. J. Jones

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE

Moab, Utah
January 18, 1957

Columbia Uranium, Inc.
517 Arctic Building
Seattle 4, Washington

Dear Sirs:

I submit the following bid for drifting a 7' X8', 400 foot tunnel on your claims south of Green River, Utah; the bid being as follows:

$30.00 per foot

Equipment repairs, fuse, powder and caps will be furnished by me.

Most sincerely,

J M Atkinson

J. M. Atkinson

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE

Moab, Utah
January 16, 1957

Columbia Uranium, Inc.
517 Arctic Building
Seattle 4, Washington

Dear Sirs:

My bid for drifting a 7' X 8' tunnel on your property which is located south of Green River, Utah is as follows:

400 feet long @ $20.00 /foot

I will furnish all necessary equipment repairs, powder, fuse and caps.

Sincerely yours,

Pat Ambrose

Vivian Drilling Co.

ROCK BIT & DIAMOND CORE DRILLING CONTRACTORS

P. O. BOX 1025
MOAB, UTAH

Dec 3, 1956

PHONE: ALPINE 3-4366

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE

Columbia Uranium Corp.
516 Arctic Bldg.
Seattle 4, Wash.

Dear Sirs:

The following are prices submitted for drilling your property at Bowknot Bend, Grand County, Utah, for a minimum of 5000' and maximum of 10,000 feet.

Plug bit--~~4½"~~ or 4 3/4" size	$2.25 per ft.
Coring-- 2 1/8 size core	$5.00 per ft.
Standby time for probing or delays caused by Columbia Uranium	$11.00 per hr.

Drill sites and truck roads are to be furnished by Columbia Uranium Corp.

Yours truly,

VIVIAN DRILLING CO.

C. B. Vivian

C. B. Vivian

CB/em

Swank Drilling & Exploration Co.
RILEY BLDG. - PHONES: OFFICE 3-4106: RES. 3-2795
P. O. BOX 638
MOAB, UTAH

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE

December 1st. 1956

Columbia Uranium Co.
% J.Mayhew

Dear Sirs:

Please accept our bid on drilling as per our conversation yesterday.

Approximately 5000 feet, holes being drilled 80 to 200 feet with approximately 40 feet of coreing per hole.

Plug drilling at $2.00 per foot and coreing at $4.00 per foot.

Stand by or waiting time $ 12.50 per hour.

Sincerely yours,

Geo Swank

PIONEER DRILLING CO.
Box [redacted] 471
[redacted]
Moab, Utah

PHONE [redacted] AL 3-2821

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE

December 1, 1956

COLUMBIA URANIUM INC.
% J. Mayhew
Moab, Utah

Let this serve as our bid for your drilling, DMEA project. Holes 80 to 200 ft. deep. Approximately 40 ft. coring to each hole.

$2.50 per ft. plug drilling. $6.00 per ft. core drilling.

PIONEER DRILLING CO.

J. F. Costanza

by J. F. Costanza (ptr.)

LOG OF DRILL HOLES PROBED ON EDNA NO. 3 AS OF JUNE 23rd, 1956

HOLE NO.1 Depth 174 Feet.

68 Ft.	.10	
68½	.16	
69	.24	3 Feet (average 0.173 Uranium
69½	.20	
70	.24	
70½	.18	
71	.10	

HOLE NO. 2 Depth 108 Feet — Mineralized but not commercial

HOLE NO. 3 Depth 106 Feet

44½ Ft.	.12	
45	.50	1 Foot(Average 0.25
45½	.12	

HOLE NO. 4 Depth 48 Feet

31½ Ft.	.10	
32	.12	
33	.20	
33½	.24	
34	.10	4½ Feet (Average 0.151
34½	.14	
35	.12	CORE SAMPLE NO. 2 5½ Feet long
35½	.24	
36	.10	ASSAYED URANIUM 0.168
		ASSAYED VANADIUM 1.52

HOLE NO. 5 Depth 46 Feet

35 Ft.	.10	
35½	.10	
36	.34	2½ Feet (Average o.202
36½	.46	
37	.12	
37½	.10	
Gap between 37½ ft. & 41 Ft.		Mineralized but not commercial
41 Ft.	.12	
41½	.16	2½ Feet (Average 0.19
42	.18	
42½	.34	
43	.14	

HOLE NO. 6 Depth 42 Feet

36½ Ft.	.10	
37	.16	2 Ft. (Average 0.144
37½	.20	
38	.16	
38½	.12	

TABULATION "A"
"Drill Holes & Log Results"

HOLE NO. 7 Depth 42 Feet, Mineralized but not commercial

HOLE NO. 8 Depth 46 Feet

18 Ft.	.10	
18½	.18	1 Foot (Average o.122
19	.10	

HOLE NO. 9 Depth 33 Feet, Mineralized but not commercial

HOLE NO.10 Depth 37 Feet

30½ Ft.	.10	
31	.28	1½ Feet (Average 0.142
31½	.12	
32	.08	

Gap Between 32 Ft. and 36 Ft. Mineralized but not commercial

36 Ft.	.10	
36½	.12	1 Foot (Average 0.12
37	.14	

HOLE NO. 11 Depth 47 Feet

30½ Ft.	.10	
31	.20	
31½	.14	2 Feet (Average 0.131
32	.12	
32½	.10	

HOLE NO. 12 Depth 46 Feet

28½ Ft.	.10	
29	.26	
29½	1.30	
30	1.20	
30½	.66	
31	.20	
31½	.12	
32	.08	
32½	.15	10½ Feet (Average 0.364
33	.20	
33½	.45	CORE SAMPLE 10 Foot Core
34	.14	ASSAY URANIUM .203
34½	.08	" Vanadium 2.55
35	.10	
35½	.28	
36	.34	
36½	.24	
37	.68	
37½	.70	
38	.46	
38½	.22	
39	.06	

TABULATION "A"
"Drill Holes & Log Results"

HOLE NO. 13 Depth 49 Feet

23 Ft.	.10	
23½	.42	1½ Feet (Average 0.22
24	.28	
24½	.08	

HOLE NO. 14 Depth 55 Feet Slightly mineralized

HOLE NO. 15 Depth 57 Feet Slightly Mineralized

HOLE NO. 16 Depth 185 Ft. .12% at 50 Ft. Moenkopi encountered at 178 Ft.

HOLE NO. 17 Depth 77 Feet Slightly Mineralized

HOLE NO. 18 Depth 67 Feet

40 Ft.	.09	
40½	.16	
41	.16	
41½	.09	11 Feet (Average 0.114
42 to 49½ Ft.	.09	
50	.10	
50½	.15	
51	.08	

HOLE NO. 19 Depth 67 Feet

49 Ft.	.09	
49½	.14	
50	.30	
50½	.24	7 Feet (Average 0.17
51 to 55 Ft.	.15	
56	.10	

HOLE NO.20 Depth 97 Feet

68 Ft.	.10	
68½	.20	
69	.20	3 Feet (Average 0.16
69½	.24	
70	.12	
71	.10	
Gap between 71 Feet and 86½ Ft.		86½ feet.
86½	.10	
87	.26	
87½	.23	
88	.28	2½ Feet (Average 0.195
88½	.20	
89	.12	

TABULATION "A"
"Drill Holes & Log Results"

ORE SHIPMENTS TO, UNION CARBIDE NUCLEAR COMPANY

DATE	TICKET NO.	WEIGHT	URANIUM $\%U_3O_8$	VANADIUM $\% V_2O_5$	LIME $\%CaCO_2$	
9/11/56	16769	20260	0.21	1.98	10.5	Rec. without Bonus
9/12/56	16791	21020	0.13	1.75	11.8	$599.86
9/14/56	16829	20340	0.11	1.09	11.2	
9/17/56	16884	21320	0.09	1.27	10.8	
9/22/56	16953	11760	0.10	1.29	10.0	
9/28/56	17056	21460	0.13	0.85	9.9	
9/28/56	17069	20940	0.13	0.85	9.9	
EST.AV.			0.13	1.29		
10/2/56	17100	16580	0.10	0.56	10.0	
"	17108	16280	0.10	0.56	10.0	
"	17112	15740	0.10	0.56	10.0	
10/3/56	17125	17360	0.07	0.38	11.5	
10/4/56	17129	16180	0.09	0.46	9.6	
"	17136	15740	0.12	0.59	9.8	
10/11/56	17240	16560	0.08	0.38	14.0	
10/12/56	17261	16000	0.09	0.39	10.2	
"	17253	14700	0.09	0.39	10.2	
10/29/56	17460		0.09	0.69	8.6	
Est Av.			0.093	0.496		
10/31/56	17489		0.07	0.43	9.5	

2

TABULATION "B"
"Record of Ore Shipments"

ORE SHIPMENTS TO,
CLIMAX URANIUM COMPANY

DATE	TICKET NO.	WEIGHT	URANIUM $\%U_3O_8$	VANADIUM $\%V_2O_5$	LIME $\%CaCO_2$
10/10/56	2766	10,966	0.14	0.87	10.16
"	2767	7,481	0.14	0.87	10.16
10/12/56	2867	13,010	0.07	0.44	12.19
"	2868	14,501	0.07	0.44	12.19
10/15/56	2985	24,010	0.07	0.37	9.07
10/17/56	3027	23,542	0.07	0.31	11.15
"	3028	14,503	0.07	0.31	11.15
"	3029	7,597	0.07	0.31	11.15
10/18/56	3075	24,084	0.06	0.30	11.53
"	3076	13,889	0.06	0.30	11.53
"	3077	16,613	0.06	0.30	11.53
10/26/56	3417	13,751	0.07	0.62	11.48
"	3418	14,716	0.07	0.62	11.48
10/27/56	3489	15,118	0.07	0.73	9.45
"	3488	14,021	0.07	0.73	9.45
		227,802			
	Est Av.		0.077	0.50	

11/13/56
Per pay $258.82

To b. B.

TABULATION "B"
"Record of Ore Shipments"

EQUIPMENT INVENTORY OF COLUMBIA URANIUM, INC.
AS OF NOVEMBER 8, 1956

1 HD Allis Chalmers Tractor, Serial No. AD 14-2774
671 GMC Diesel

1 Gasoline Driven Electric Welder
Serial Lincoln No. A 293209

1 Sullivan 365 CU.FT. Compressor with Diesel
D13000 Catipiller Motor Serial No. 23614

1 LeRoi 105 G Compressor Serial No. 20381
Mounted on GMC 6x6 Truck

1 GMC Truck 6x6 Model 353 Serial No.412993
Motor No. 20130

1 1956 Ford V8 3/4 Ton Pickup Motor No.F25V6R43744

1 1949 Willys Jeep Pickup Model WD Motor No.4T41022

1 620-C Geiger Counter Serial 503 with Prop Meter
Serial 6-55 with 500 Foot Reel and Box for Counter

1 Eimco Loader 24 Gage B Deck Serial No. 4731

1 Ingersoll-Rand Model 35 Sumpump Serial No. 32104

1 No. 1003 Cylinder

1 Jack Tank

1 30 Ton Steel Ore Bin mounted on steel legs

2 Adjax Side Dump Ore Cars 24 Gage

1 Jack Hammer with legs

1 Gasoline Motor Powered Mine Hoist

1 Electric Light Plant

1 12 In. Blower with 16 HP Hercules Gas Motor

500 Feet Ventilation Pipe

2 Small Geiger Counters

500 Feet 20Lb. Steel Rail 66 Fish Plates,
100 Lbs. Track Bolts,

200 Feet of 2" Steel Pipe

Misc. Steel Pipe, Water & Air Hose, Small Tools such as, Picks, Shovels, Hammers, Wrenches, Wheel Barriws and other Small hand tools.

Camp Equipment, 2 Steel Beds with Pads, 1 Butane Refrigerator, 1 Butane Stove, 1 Colman Heater, 1 Stove Plate, Pans, Dishes, Etc

TABULATION "C"
"List of Applicant Owned Equipment on Property"

E X H I B I T S

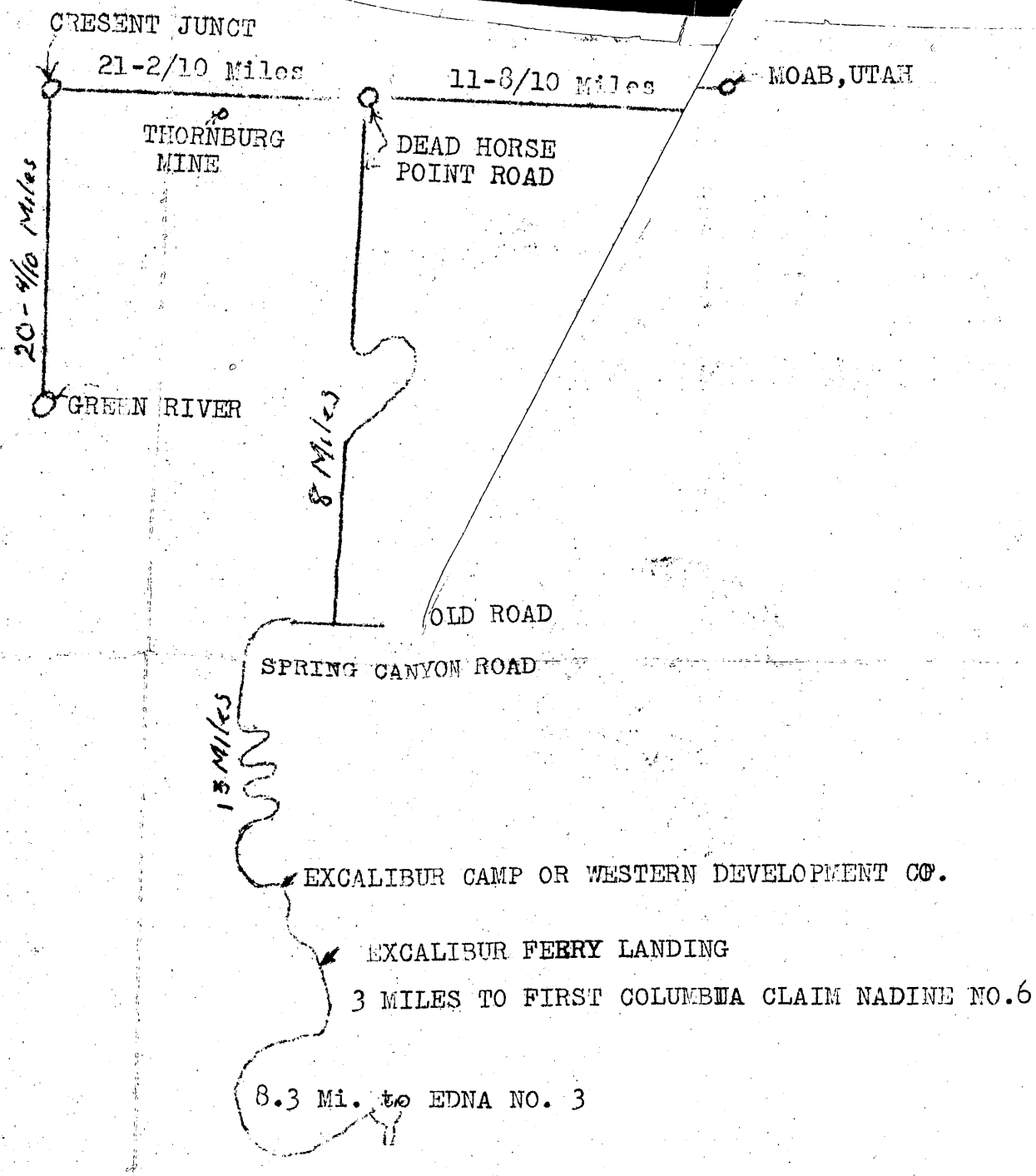
I. Location of Claims.

II. Abstract of Claims.

III. Geographic Location and Road Map.

IV. Sketch Map of mine workings and location of existing drill holes.

V. Proposed drill sites.



TOTAL MILEAGE FROM GREEN RIVER, UTAH TO COLUMBIA URANIUM, INC. CLAIM EDNA NO. 3 APPROXIMATELY 73- 6/10 Miles

EXHIBIT III
"GEOGRAPHIC LOCATION AND ROAD MAP"

ABSTRACT FORM

RECORDED AT: MOAB (COUNTY SEAT), GRAND (COUNTY), UTAH (STATE)

LOCATORS: COLUMBIA URANIUM, INC.

CLAIM +	INSTRUMENT, AMMENDMENT, CONVEYANCE *	BOOK	PAGES	DATE OF INSTRUMENT	DATE OF RECORDING
Edna No. 1	Notice of Lease Application Also Quit Claim Deed from, Don Murphy, Eatonville, Wash. Leland Tidwell, Green River, Utah, Robert Phillips, Green River, Utah, Sam Thomas, Seattle, Wash.	31	458	Jul.26/54	Jul.27/54
		30	586	Jun.20/54	Jul.19/54
	Relocated under P L 585 Columbia Uranium, Inc. by R.D.Phillips	44	204	Sept.15/54	Oct.5/54
	Edna No.1 Lies North of, and adjoins Mildred No. 5 and Lies South of, and adjoins Edna No.2				
Edna No. 2	Lies North of, Edna No.1 and adjoins Edna No. 3	44	205	Sept.15/54	Oct.5/54
Edna No. 3	Lies North of, Edna No.2 and adjoins Edna No.4 N.W.Corner of Edna No. 3 Lies Exactly 8-3/10 Miles From the Excalibur Ferry Landing at the Bow Knot of the Green River T 25 S, R 17 E, SLM	44	205	Sept.15/54	Oct.5/54
Edna No. 4	Lies North of and adjoins Edna No. 3	44	206	Sept.15/54	Oct.5/54
Edna No. 5	Lies North of, and adjoins Edna No. 4	44	206	Sept.15/54	Oct.5/54

A CONFLICT AROSE BETWEEN COLUMBIA'S CLAIMS EDNA NOS. 3-4-5 WITH THOSE OF THE SOUTHERN OIL COMPANY CLAIMS, HEY-JOE AND HEY-JOE NO.2 AND JIM NO. 3.

A SURVEY WAS MADE BY, GEORGE H. NEWELL, REGISTERED LAND SURVEYER OF MOAB UTAH, COPIES WHICH ARE ATTACHED TO THIS REPORT.

A FREINDLY SETTLEMENT WAS MADE BETWEEN COLUMBIA URANIUM, INC. AND SOUTHERN OIL COMPANY, DIVIDING THE DISPUTED AREA, BY QUIT CLAIM DEED.

EXHIBIT II
"Abstract of Claims"

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 22 1957
DMEA

224 New Customhouse
Denver 2, Colorado

May 22, 1957 5/21 JWG 220 225

Mr. W. A. Lindman
Columbia Uranium, Inc.
Arctic Building
704 Third Avenue
Seattle 4, Washington

Re: Docket DMEA-4566 (Uranium)
Columbia Uranium, Inc.
(Edna claims)
Grand County, Utah

Dear Mr. Lindman:

Your letter of May 17, 1957 asked when you might receive advice on your application for DMEA assistance to explore for uranium on your property in Grand County, Utah.

Enclosed is a photo copy of a letter, dated May 2, 1957, from the Administrator, Defense Minerals Exploration Administration, to Columbia Uranium, Inc., in which you were advised that the application was denied.

Your letter of May 17, 1957 indicates that you have moved from 517 Arctic Building to another room in that building, which may account for the non-receipt of the Administrator's letter of May 2, 1957.

Very truly yours,

Original signed by
E. N. HARSHMAN

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

Enclosure
ENH:jy
cc: Sec. Op. Comm. (2)
Docket 4566
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4-29	Murphy	700
4-29	Ellis	700
5/1	Selfridge	130
5/1	Johnson	110
"	Mittendorf	100
5/2	C	220
		225
	Lamb	
	Kilsgaard	

MAY - 2 1957

Columbia Uranium Inc.
517 Arctic Building
704 Third Avenue
Seattle 4, Washington

Re: Docket No. DMEA-4566 (Uranium)
Edna Claims
Grand County, Utah

Gentlemen:

Your application for aid in an exploration project and other information available to us in Washington concerning your above-named claims 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 claims, indicates that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

FMMurphy/ dlm 4-29-57
cc to Mr. Murphy
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224
DMEA Region 3 (2)

8623

Docket copy
Murphy
Ellis

April 29, 1957

Summary of Proposed Project

Object:	Denial of application for exploration aid.
Docket No.	DMEA-4566
Commodity:	Uranium
Applicant:	Columbia Uranium, Inc. 517 Artic Bldg. 704 Third Ave. Seattle 4, Washington
Property:	Owner of Edna Nos. 1 through No. 5 claims, in an unsurveyed part of T. 25 S., R. 17 E., S.L.B.M., Grand County, Utah. (Bowknot Bend area on the Green River)
Date of application:	December 4, 1956
Amount of application:	$36,730.00
Referred to Region III:	January 18, 1957
Field examination made:	March 5, 1957
Field Team report:	Received April 18, 1957
Work proposed:	Drill a series of holes on fence lines between the present working face and the Wingate cliff to the southwest. The holes to be on 100 foot centers and confined to Edna Nos. 2 and 3 claims.

Estimated Costs:

3,480 feet non-core drilling @ $2.25/ft	$7830.00
1,580 feet core drilling @ $5.00/ft	7900.00
200 hours bulldozer work @ $10.00/hr	2000.00
400 feet drifting @ $20.00/ft	8000.00
Equipment rental 2 months @ $1500/mth	3000.00
Labor, Supervision, consultants	3000.00
Analyses and accounting	1000.00
Contingencies	4000.00
Total	$36,730.00

Excerpts from Field Team Reports:

Known are deposits in the general vicinity of the Edna claims are relatively small and scattered, and consist of thin discontinuous seams and small pods of mineralized material restricted to the lower part of the Moss Back member of the Chinle formation.

According to the Applicant, 16 of the 20 holes drilled on the claims cut ore-grade material. Subsequent mining operations on the Edna No. 3 claim produced only 88 tons of ore-grade material out of a total of 225 tons shipped. The acceptable ore averaged about 0.08 percent U_3O_8 and 0.90 percent V_2O_5 although one ten-ton lot averaged 0.21 percent U_3O_8. A detailed examination of the small workings on the Edna No. 3 indicates that this production came from relatively thin discontinuous seams and small pods of mineralized rock. The ore-grade material appeared to be mined out. Thin seams of mineralized material were observed along the walls of the main drift but several shallow cross-cuts were apparently driven through barren rock.

A further indication of the small size and erratic distribution of ore deposits in the general vicinity are the poor results of the two Excalibur Uranium Corporation's projects, DMEA-1896 and DMEA-1631, about 1.5 miles southeast of the Edna claims. Results of DMEA-1896 were negative while work under DMEA-1631 apparently disclosed deposits estimated at 1,832 tons. However, A E C production records indicate that minable reserves were depleted after 450 tons of ore averaging 0.24 percent U_3O_8 were produced from a series of small adits and gopher holes.

The Field Team recommends that application DMEA-4566 be denied, because the chances of finding ore deposits of significant size and grade on the Applicant's claims are considered poor.

Commodity Members' Comments:

Bureau of Mines - James Paone, April 24, 1957

Mr. Paone concurs in Field Teams' recommendation.

Geological Survey - T. H. Kiilsgaard, April 24, 1957

Mr. Kiilsgaard concurs in the Field Teams' recommendation to deny the application, because: 1) the known deposits on the property are small and scattered; 2) although the potential ore-bearing Moss Back

is extensively exposed, no significant deposits have been found in the area; and 3) there is little likelihood that the proposed exploration would change this picture.

Rare and Miscellaneous Metals Division - F. M. Murphy, April 29, 1957.

The field examiners note that although the Moss Back member is exposed for many miles by numerous canyons in the inter-river area, rather extensive prospecting and exploration by private industry and Government agencies failed to disclose Uranium ore deposits of significant size and grade and that the small pods and seams found cannot be mined economically. I agree with their findings.

Conclusions and Recommendations:

Because of the small size of the deposits in the area, there is little chance that any ore found by the proposed work would be comensurate with the exploration costs. Therefore, this Division concurs in the Field Teams' recommendation to deny the application.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division

OFFICIAL FILE COPY
DMEA
RECEIVED APR 24 1957

	INITIALS	CODE
4/24	C	220
4/25	Murphy	700

IN REPLY REFER TO:

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

April 24, 1957
Re: DMEA 4566 (Uranium)
Columbia Uranium, Inc.
Edna Claims
Grand County, Utah

~~Memorandum~~

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

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team report

Field examiners recommend denial of the cited application, their conclusions being based on:

1) Known uranium deposits in the vicinity of the applicant's property are small and scattered.

2) Outcrops of the ore-bearing horizon in the canyon walls of the nearby Green and Colorado Rivers are extensive, but prospecting of these outcrops has failed to find significant ore deposits.

3) All ore found in the area has occurred as small, low-grade pods and lenses, and there is little likelihood that additional exploration will change this picture.

After reading the application and the Field Team report, I concur with their recommendations. The application should be denied.

T. H. Kiilsgaard

T. H. Kiilsgaard

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DMEA
RECEIVED APR 25 1957

DATE	INITIALS	CODE
4/25	JWE	220
4/25	Murphy	700

April 24, 1957

4566

Uranium
Name of Operator Columbia Uranium, Inc.
Name of Property Edna Claims
Location of Property Grand Co., Utah
Estimated cost of work $36,730.00

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

Field Team Report

Review of

4/57 4/23/57

x

x

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

April 16, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED APR 18 1957

DATE	INITIALS	CODE
4/18	C	220
		130
4/23	C	220
4/23	Murphy	700
DMEA		

Memorandum

To: Secretary to the Operating Committee,

From: DMEA Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA-4566 (Uranium) Columbia Uranium, Inc. (Edna claims) Grand County, Utah

Enclosed are the original and three copies of the Joint Report of Examination on the subject property by H. F. Robertson, U. S. Bureau of Mines, and W. B. Gazdik, U. S. Geological Survey.

The examination indicates that the Edna claims are in an area where known deposits are small, scattered and low grade. Mapping teams of the Atomic Enery Commission and the U. S. Geological Survey further conclude that the potential of the area is poor and unworthy of continued investigation.

The field examiners conclude that the geologic probability for making a significant discovery is not sufficiently promising to justify Government participation. Accordingly, they recommend that the application be denied to which the Field Team concurs.

E. N. Harshman

By E. N. Harshman
Acting Executive Officer

Enclosures

ON-SITE EXAM

Reviewed by
DMEA OPERATING COMMITTEE
4-22-57
(date)

DMEA
DEPARTMENT OF THE INTERIOR
APR 15 1957
REGION III
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colorado

IN REPLY REFER TO:
MINERAL DEPOSITS
DMEA
RECEIVED
APR 12 1957
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

TRANSMITTED
APR 16 1957

April 11, 1957

Memorandum

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

From: Howard F. Albee

Subject: Docket DMEA 4566 (Uranium),
Columbia Uranium, Inc., Edna claims, Grand County, Utah.
Joint engineering and geologic report.

Enclosed are 12 copies of the joint engineering and geologic report of the above referenced property by H. F. Robertson, U. S. Bureau of Mines, and W. B. Gazdik, U. S. Geological Survey. Columbia Uranium, Inc., 517 Arctic Bldg., Seattle, Washington, applied for DMEA assistance to explore for uranium on the Edna group of claims in the Bowknot Bend area on the Green River in T. 25 S., R. 17 E., S.L.B.M., Grand County, Utah. The application was referred to the field and an examination was made March 5, 1957.

The Edna claims are in an area where known deposits are small, scattered, and low grade. The deposits are restricted to the Moss Back member of the Triassic Chinle formation. An Atomic Energy Commission reconnaissance group and a U. S. Geological Survey mapping team each concluded that the potential of the area is poor and that it was not worthy of continued investigation.

Mining operations on the Edna No. 3 claim produced 88 tons of ore grade material out of a total of 255 tons shipped. The highest uranium content was 0.21 percent U_3O_8 in one ten-ton shipment. The average content of the shipments was 0.08 percent U_3O_8, 0.50 percent V_2O_5, and 10 percent $CaCO_3$.

The examining team concluded that shipments probably represented the tenor of ore likely to be found, and that the chances of finding ore deposits of significant size and grade on the applicant's property are poor. Denial of the application is therefore recommended.

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

The applicant's brochure is enclosed.

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DMEA
RECEIVED APR 18 1957

DATE	INITIALS	CODE
		130
		220

Reviewed by
DMEA OPERATING COMMITTEE
4-22-57
(date)

Howard F. Albee
For J. William Hasler,
Geologist

HFA/mlr
Enclosures

FOR UNITED STATES GOVERNMENT USE ONLY

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY EXAMINING TEAM
REGION III

DMEA 4566

Columbia Uranium, Inc.

Edna claims

Grand County, Utah

TRANSMITTED
APR 16 1957

OFFICIAL FILE COPY
D.M.E.A.
RECEIVED APR 18 1957

DATE	INITIALS	CODE
		130
		220

Uranium

Joint Engineering and Geologic Report

by

W. B. Gazdik
U. S. Geological Survey

H. F. Robertson
U. S. Bureau of Mines

April 1957

Reviewed by
DMEA OPERATING COMMITTEE
4-22-57
(date)

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DMEA
RECEIVED APR 10 1957
DATE | INITIALS | CODE

DMEA 4566
COLUMBIA URANIUM, INC.
EDNA CLAIMS
GRAND COUNTY, UTAH

CONTENTS

Joint Engineering and Geologic Report

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Location, Topography, and Physical Features 3

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Exploration and development 6
Mining equipment and other facilities 6

Geology 6

Ore Deposits 8

Ore Reserves 10

Proposed Exploration 10

Conclusions and Recommendations 12

ILLUSTRATIONS

Figure | Follows page

1. Index Map, Columbia Uranium, Inc., Edna claims Grand County, Utah 12

2. Geologic map showing applicant's claims, Columbia Uranium, Inc., Edna claims, Grand County, Utah 12

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DMEA
RECEIVED APR 18 1957

DATE	INITIALS	CODE

DMEA 4566
Columbia Uranium, Inc.
Edna claims
Grand County, Utah

INTRODUCTION AND SUMMARY

Columbia Uranium, Inc., 517 Arctic Bldg., Seattle, Washington applied for DMEA assistance to explore its Edna group of mining claims in the Bowknot Bend area on the Green River in T. 25 S., R. 17 E., Grand County, Utah (fig. 1). The applicant's proposed project consists of 3,480 feet of non-core drilling, 1,580 feet of core drilling, and 400 feet of exploratory drifting at an estimated cost of $36,730.00. Government participation at 75 percent would be $27,547.50.

The property was examined on March 5, 1957 by a DMEA examining team consisting of H. F. Robertson, U. S. Bureau of Mines, and W. B. Gazdik, U. S. Geological Survey. Mr. B. G. Mayhew, consulting geologist, represented the applicant. Five unpatented lode mining claims comprise the property included in the applicant's proposed exploration project.

The subject claims are located in an area where known uranium deposits are small and scattered. These deposits are restricted to the basal Moss Back member of the Triassic Chinle formation. The Atomic Energy Commission conducted a geologic reconnaissance in the area and concluded that the district was not worthy of continued investigation. A U. S. Geological Survey mapping team, working in

the area during the past several years, also concluded that the potential of the area is poor.

According to the application, 16 holes out of a total of 20 holes drilled on the claims cut ore-grade material. Subsequent mining operations on the Edna No. 3 claim produced 88 tons of ore-grade material out of a total of 255 tons shipped. The highest uranium content was 0.21 percent in one ten-ton shipment. The average content of the ore was 0.08 percent U_3O_8 and about 0.50 percent V_2O_5. The lime content is high, averaging 10 percent. This probably represents the tenor of ore likely to be found.

The chances of finding ore deposits of significant size on the applicant's property are considered poor and it is therefore recommended that the application be denied.

ACKNOWLEDGMENTS

The Atomic Energy Commission was consulted for production figures, reserve estimates and other data pertinent to the area concerned with this report.

Memoranda from W. P. Williams and John E. Crawford were noted.

U. S. Geological Survey personnel engaged in geologic studies in the area were also consulted.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Edna claims Nos. 1, 2, 3, 4, and 5 are located in the Bowknot Bend area on the Green River in T. 25 S., R. 17 E., S.L.P.M., Grand County, Utah (figure 1). The claims lie on a steep slope on the east side of the river and cover part of the top of Spring Canyon Point. Altitudes range from river level - 3,950 feet - to about 4,900 feet. Abrupt cliffs and steep, boulder-strewn slopes border the Green River and make access to the area very difficult.

The subject claims are reached from Moab, Utah by traveling 11.8 miles northwest on U. S. Highway 160, thence southwesterly for about 30 miles over county and AEC maintained roads to the east bank of the Green River, thence about 2 miles easterly on a bulldozer road paralleling the river. The area is not accessible by road during wet weather.

The nearest source of supplies, as well as the nearest uranium processing plant, is Moab, Utah, about 43 miles to the east.

The climate is semi-arid with annual precipitation of 9 to 10 inches. Localized downpours cause "flash" runoffs that occasionally wash out access roads and leave them impassable for several days at a time, occur during August. Snowfall during the winter months is sparse.

Vegetation is very thin and most of the area has sparse soil cover. Sagebrush and other types of desert plants are found on the lowlands with scrub pinon and juniper trees on higher rocky slopes. Occasional cottonwoods grow along the river bottom.

HISTORY, PRODUCTION, AND OWNERSHIP

The mining history of the district is comparatively recent due to its inaccessibility for prospecting. An organized expedition was sponsored by the Excalibur Uranium Corporation and the area was systematically examined from river camps serviced by boat and plane. Discovery of uranium-bearing outcrops and zones of radiometric activity was made along the Moss Back rim outcrop. This prompted claim staking and the start of an access road over the Wingate rim and down Spring Canyon to the Green River. The road has since been extended northerly along the river to the applicant's property.

Production from the vicinity of the subject claims has been small, consisting of about 450 tons averaging 0.24 percent U_3O_8 from the Excalibur Uranium Corporation Danise No. 1 adit. According to AEC reserve records, there are no measurable reserves left in the mine. It was not operating at the time of the examination and no production has been credited to it since July 1956.

The applicant reports the production of 255 tons of mineralized rock from the Edna No. 3 claim. However, only 88 tons of the total tonnage shipped was accepted by the mill and the remainder was rejected because

of its low grade. The highest uranium content was 0.21 percent U_3O_8 in one ten-ton shipment. The average content of ore was 0.08 percent U_3O_8 and 0.50 percent V_2O_5. The lime content is high, averaging 10 percent.

The property included in the subject application consists of 5 unpatented lode mining claims in an unsurveyed part of T. 25 S., R. 17 E., S.L.P.M., Grand County, Utah. More specifically, the Edna claim group is located about three miles north of a prominent meander in the Green River, known as the "Bowknot Bend".

Location notices of the Edna claims are recorded at the Grand County Courthouse, Moab, Utah as follows:

Claim Name	Locator	Date of Recording	Book	Page
Edna No. 1	Columbia Uranium Co.	10-5-54	44	204
Edna No. 2	Columbia Uranium Co.	10-5-54	44	205
Edna No. 3	Columbia Uranium Co.	10-5-54	44	205
Edna No. 4	Columbia Uranium Co.	10-5-54	44	205
Edna No. 5	Columbia Uranium Co.	10-5-54	44	206

The claims have been surveyed by a registered land surveyor and the map submitted with the brochure. Three of the claims conflicted with those of Southern Oil Company and a mutually agreeable boundary was established to remove the conflict.

PRESENT STATUS

Exploration and Development

The property has been partly explored by a limited amount of drifting and drilling. According to the application, 16 holes out of a total of 20 holes drilled on the Edna No. 3 claim cut ore-grade material. An incline was sunk to the ore horizon and a drift about 130 feet long was driven to the indicated ore bodies. Subsequent shipments failed to substantiate the mineralization indicated by the drill-holes. All shipments were made during September and October, 1956, and operations were shut down in November 1956. The mine was not operating at the time of the examination in March 1957.

Mining Equipment and Other Facilities

Mining equipment on the property when examined consisted of a gasoline single-drum hoist, one ore-car and steel-constructed ore bin. Other facilities consisted of a small frame cabin and an 18-foot housetrailer.

GEOLOGY

The rocks exposed in the vicinity of the applicant's claims consist of continental sediments that dip 1 to 2° to the northwest. These formations are, in ascending order, the Moenkopi, Chinle and Wingate of Triassic age and the Kayenta and Navajo of Jurassic age (fig. 2).

The Moenkopi formation is composed of evenly bedded silty sandstone, siltstone and shale that are chocolate-brown to red-brown. Locally the top few feet of the formation is partially altered to

greenish gray or light gray. Only the upper few feet of the Moenkopi formation is exposed in the vicinity of the applicant's property. The top of the Moenkopi is generally characterized by an erosional unconformity of regional extent. The few known uranium deposits in the area occur in the overlying Moss Back member of the Chinle formation.

The Moss Back member consists predominantly of light gray, medium to medium fine-grained lenticular sandstone beds with lesser amounts of grayish-green mudstone, siltstone and conglomeratic beds. Most of the pebbles contained in the conglomeratic beds are limestone pebbles but locally small amounts of mudstone and siltstone pebbles are present. Silicified and carbonized fossil logs are scattered through the member and some of the woody material is richly replaced by uranium minerals. In the vicinity of the applicant's property the Moss Back member varies from about 30 to 50 feet in thickness. The lenticular sandstone beds thicken and thin abruptly, largely as a result of the underlying erosional surface of the Moenkopi formation. Elsewhere channels, scoured into the top of the Moenkopi and filled with Moss Back sediments, are important features related to localization of ore bodies. However, during the course of the field examination no definite scour and fill features were observed in the vicinity of the applicant's property where the contact was exposed.

The Moss Back member grades into overlying Chinle beds composed of interbedded reddish-brown sandstone, siltstone and mudstone that crop out as a steep slope broken by sandstone ledges. In contrast to the slope-forming Chinle beds, the overlying Wingate formation consists of a massive, crossbedded reddish-buff sandstone that forms cliffs as much as 300 feet high capped by irregularly bedded, slabby Kayenta sandstone and siltstone beds. Erosional remnants of the Navajo sandstone are preserved on some of the surrounding mesas some distance away from the canyon walls.

ORE DEPOSITS

Known uranium deposits in the general vicinity of the applicant's claims are relatively small and scattered, and consist of thin discontinuous seams and small pods of mineralized material restricted to the lower part of the Moss Back member. The ore-bearing rock is sandstone or conglomerate impregnated with uranium-vanadium minerals. Smaller amounts of uranium-vanadium minerals are concentrated in siltstone and mudstone or replace carbonaceous fragments and woody material.

According to the applicant, 16 of a total of 20 holes drilled on the claims cut ore-grade material. Subsequent mining operations on the Edna No. 3 claim produced only 88 tons of ore-grade material out of a total of 255 tons shipped. The acceptable ore averaged about

0.08 percent U_3O_8 and 0.90 percent V_2O_5 although one ten-ton lot averaged 0.21 percent U_3O_8. A detailed examination of the small workings on the Edna No. 3 indicates that this production came from relatively thin discontinuous seams and small pods of mineralized rock. The ore-grade material appeared to be mined out. Thin seams of mineralized material were observed along the walls of the main drift but several shallow cross-cuts were apparently driven through barren rock.

A further indication of the small size and erratic distribution of ore deposits in the general vicinity are the poor results of two DMEA loans granted to the Excalibur Uranium Corporation to explore property about 1-1/2 miles southeast of the applicant's claims. Results of work performed under DMEA 1896 were negative while exploratory work under DMEA 1631 apparently disclosed, what at the time, appeared to be a deposit of 1,832 tons. However, AEC production records indicate that minable ore reserves were depleted after 450 tons of ore averaging 0.24 percent U_3O_8 were produced from a series of small adits and gopher holes. Because the ferry across the Green River was not operating the Excalibur Uranium Corporation property was not visited by the examining team. No mineralized trends are apparent in the area and where present, the small ore bodies appear to have an erratic spatial distribution.

ORE RESERVES

There are no measurable ore reserves on or near the applicant's property.

PROPOSED EXPLORATION

The applicant's proposed exploration program consists of 5,060 feet of non-core and core drilling, and 400 feet of exploratory drifting. The drill holes would be between the present working face and the Wingate cliff to the southeast on 100-foot centers. The holes would be laid out in northeast trending fences approximately parallel to the end-lines of the claims and would be confined to the Edna claims Nos. 2 and 3. The program is designed to explore the most favorable appearing Chinle section in the area which is most accessible to the present workings on Edna No. 3. The applicant proposes to do the drifting and drilling simultaneously, however, the location of the drifting would be governed by the results being obtained by the drilling.

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

1. Independent Contracts

Drilling (5,060 feet total)	
3,480 feet non-core at $2.25 per foot	$ 7,830.00
1,580 feet core at $5.00 per foot	7,900.00
Bulldozer work	
200 hours at $10.00 per hour	2,000.00
Drifting	
400 feet at $20.00 per foot	8,000.00
2 months equipment rental at $1,500.00/mo.	3,000.00
Total	$28,730.00

2. Labor, Supervision, Consultants

60 days at $50.00 per day	$ 3,000.00

3. Miscellaneous

Analytical and Accounting	1,000.00

4. Contingencies

Allowance for possible increase in cost	4,000.00
Estimated overall cost of project	$36,730.00
Government participation at 75 percent	$27,547.50
Estimated time for completion	2 months

The applicant furnished bids from independent contractors to support his cost estimate of the proposed exploration project.

Columbia Uranium, Inc. proposes to furnish company owned equipment at a flat rental rate of $1,500.00 per month as part of their share in the cost of the program.

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

CONCLUSIONS AND RECOMMENDATIONS

The few known uranium deposits in the vicinity of the applicant's claims are small and scattered. Although the Moss Back member is exposed for many miles by numerous canyons in the inter-river area between the Green and Colorado Rivers rather extensive prospecting by private industry and government agencies failed to disclose uranium deposits of significant size and grade. The ore bodies that have been found tend to be small pods and seams of low-grade material that cannot be mined economically. It is concluded that the chances of finding ore deposits of significant size and grade on the applicant's property are poor. Denial of the application under Docket DMEA 4566 is recommended.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
APRIL 1957
DOCKET 8566

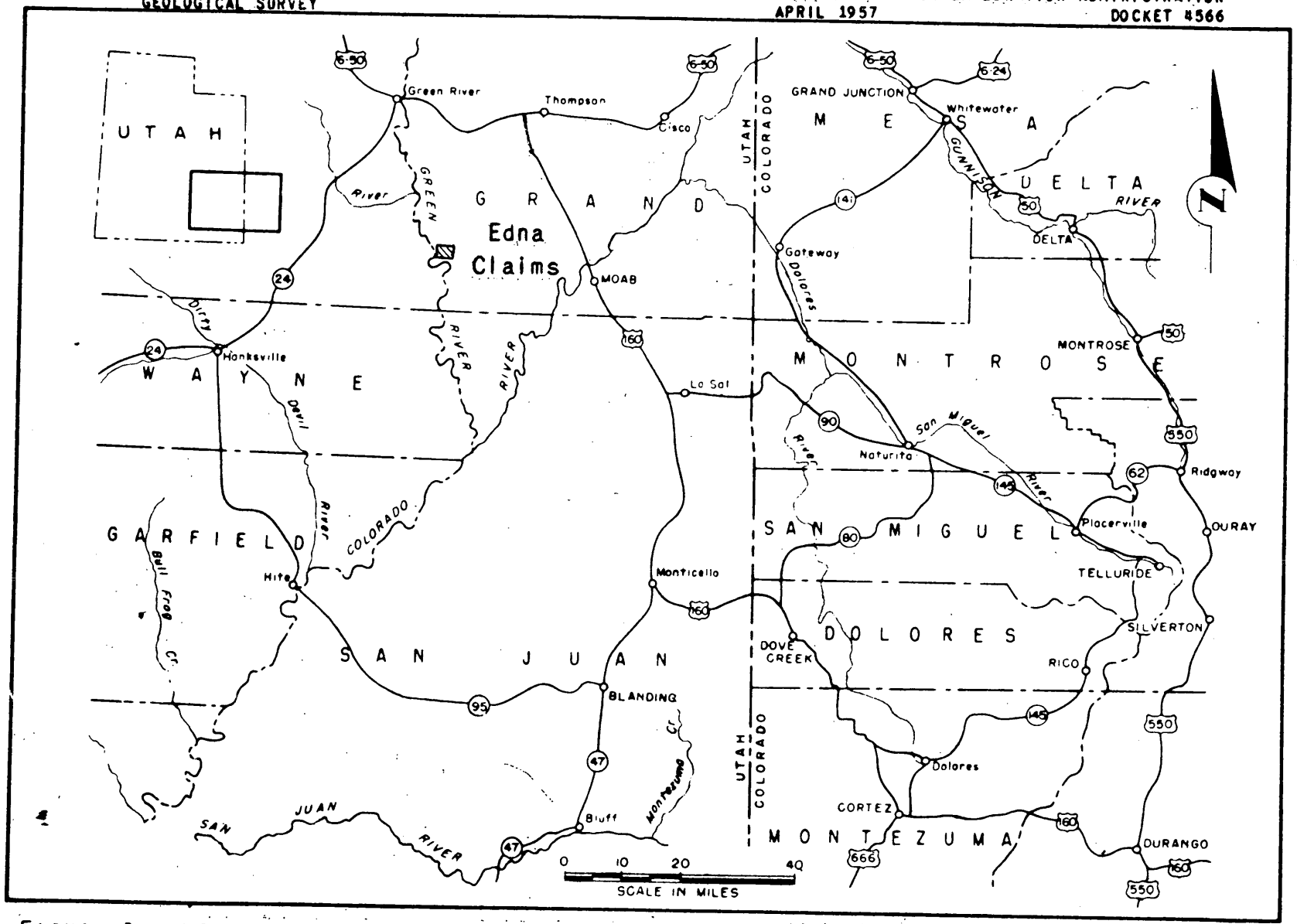

FIGURE 1.--LOCATION MAP, EDNA CLAIMS, COLUMBIA URANIUM, INC., BOWKNOT BEND AREA, GRAND COUNTY, UTAH.

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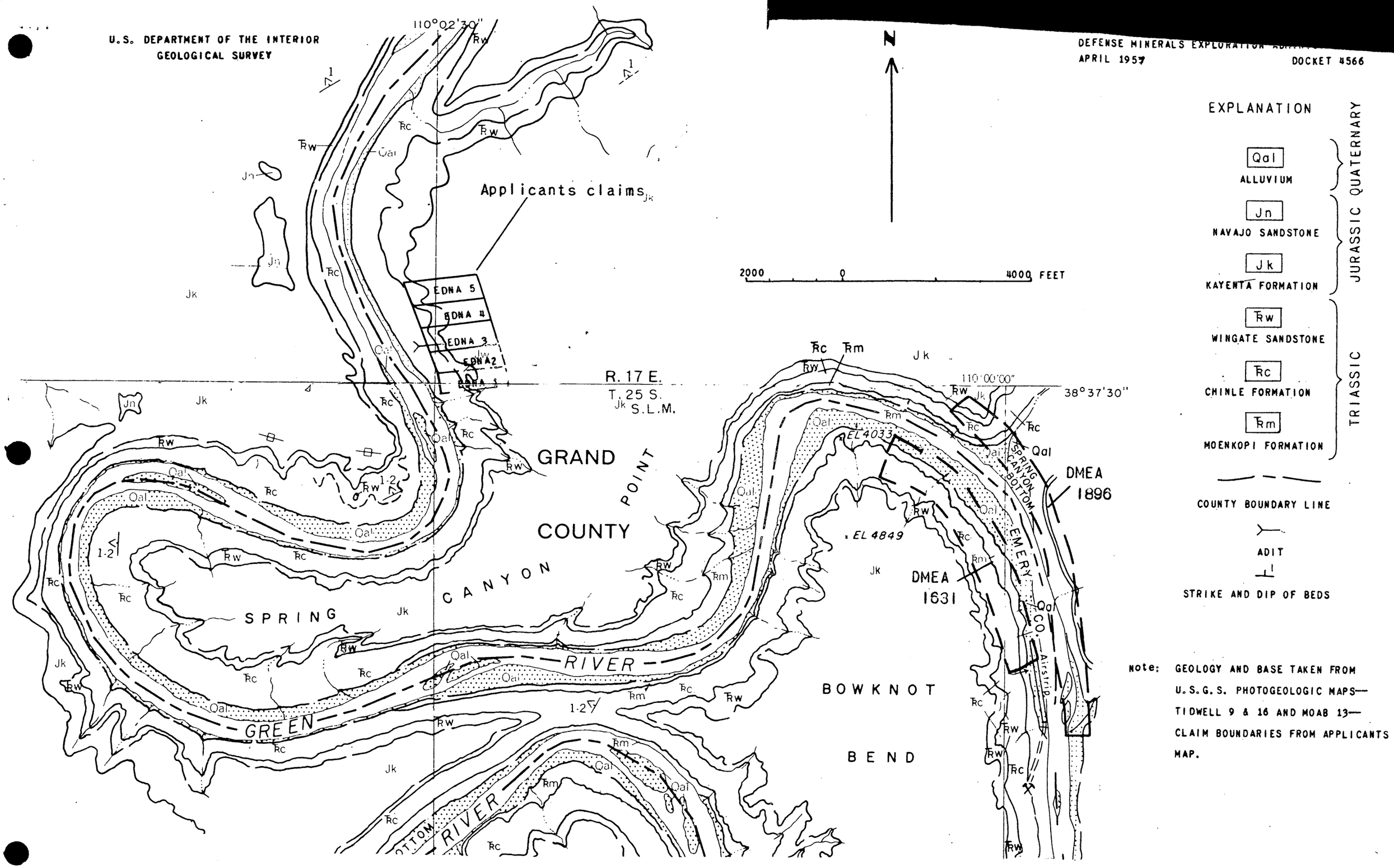
DATE	INITIALS	CODE



Note: GEOLOGY AND BASE TAKEN FROM U.S.G.S. PHOTOGEOLOGIC MAPS—TIDWELL 9 & 16 AND MOAB 13—CLAIM BOUNDARIES FROM APPLICANTS MAP.

FIGURE 2.—GEOLOGIC MAP SHOWING APPLICANTS CLAIMS, COLUMBIA URANIUM, INC., GRAND COUNTY, UTAH.

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DMEA
RECEIVED APR 18 1957

DATE	INITIALS	CODE

DMEA
DEPARTMENT OF THE INTERIOR

JAN 25 1957
REGION III
DENVER, COLORADO

January 24, 1957

Memorandum

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

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4566 (Uranium) Columbia Uranium, Inc. (Edna claims) Grand County, Utah

The application for Columbia Uranium, Inc., Docket DMEA 4566 in the amount of $34,638.00 was received in this office on January 24, 1957.

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

OFFICIAL FILE COPY DMEA RECEIVED JAN 28 1957		
DATE	INITIALS	CODE
1-28	C	220
~~1-28~~	~~Marsh~~	~~700~~

cc: W. M. Traver (2)
E. N. Barahman
J. W. Hasler
M. N. Salsbury
J. F. Shaw
Sec. Op. Com. (2)

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

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RECEIVED JAN 25 1957

DATE	INITIALS	CODE
1-25	C	220
1-25	Murphy	700
January	23, 1957	

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Docket DMEA 4566 (Uranium) Columbia Uranium, Inc. (Edna Claims) Grand County, Utah

Enclosed are two copies each of the following additional information which has been submitted by the Applicant:

1. A revised page 6 of the original application, showing a larger estimated total cost.

2. Drifting bid by W. J. Jones.

3. Drifting bid by J. M. Atkinson.

4. Drifting bid by Pat Ambrose.

5. Drilling bid by Vivian Drilling Co.

6. Drilling bid by Swank Drilling & Exploration Company.

7. Drilling bid by Pioneer Drilling Company.

Copies of the above have been forwarded the field to be attached with their copies of the brochure.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

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

224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 25 1957

DATE	INITIALS	CODE
1-25	C	220
1-25	Murphy	700
January 23, 1957		

Memorandum

To: W. H. King (2) (w/copy of brochure)
J. W. Hasler

From: DMEA Field Team, Region III

Subject: Docket DMEA 4566 (Uranium) Columbia Uranium, Inc. (Edna Claims) Grand County, Utah

Enclosed is the subject application in the amount of $34,638.00. A field examination and suitable report are requested.

Also enclosed is a copy of a letter from the Chairman of the Operating Committee, dated January 18, 1957, together with memoranda of review of the application by W. P. Williams and J. E. Crawford.

The Applicant, on January 21, 1957, furnished this office copies of drifting and drilling bids and a revised estimate of costs; which, incidentally, is $2,000.00 higher than the original estimate. Copies of this additional information submitted by the Applicant are attached. Please incorporate this additional information in your copy of the brochure.

The Bureau of Mines copy of the brochure should be returned to this office with the Report of Examination.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosures
RMC:ytl
cc
Sec. Op. Comm. (2)
Harshman
Docket 4566
Chron.

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
1-16	Murphy	700
1-16	Ellis	700
1/18	Selfridge	130
1-18	[illegible]	110
"	[illegible]	100
1-18	CW	220

700

JAN 18 1957

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

Re: Docket No. DMEA-4566 (Uranium)
Columbia Uranium, Inc.
Edna Claims
Grand County, Utah

Dear Mr. Traver:

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

Enclosed are copies of memoranda, dated January 11, and 15, 1957, by W. P. Williams, USGS, and J. E. Crawford, USBM, respectively, relating to the application. Also enclosed for Field Team use is one copy of the application.

We agree with the Grand Junction office that the Applicant's estimates for various items of the proposed work are high.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GHB)

Enclosures

APPROVED:

O. M. Bishop
Member, Bureau of Mines (GHB)

Thor H. Kiilsgaard
Member, Geological Survey (GHB)

FMMurphy/izm 1-16-57
cc to: Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
~~Messrs. JECrawford, Rm. 3643~~
THKiilsgaard, Rm. 5224
~~JR JKratchman, AEC~~

2 files

R.C.G.

8623

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
1-16	Murphy	700
1-16	Ellis	700
1/18	Schudze	180
1/18	Kramm	110
1/18	Whitmeyer	100
		225

Kilsgaard Bishop

JAN 18 1957

Columbia Uranium Inc.
517 Arctic Building
704 Third Avenue
Seattle 4, Washington

Re: Docket No. DMEA-4566 (Uranium)
Edna Claims
Grand County, Utah

Gentlemen:

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

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

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

Sincerely yours,

C. O. Whitmeyer

Administrator

FMMurphy/izm 1-16-57
cc to: Code 700
Mr. Murphy
Admr.'s Reading File
DMEA Field Team, Reg. III (2)

Kilsgaard

8623

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DMEA
RECEIVED JAN 15 1957

DATE	INITIALS	CODE
1-15	cw	220
1-16	Ellis	700

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

Date January 15, 1957

DMEA Docket No. 4566
DMEA Contract No.
Commodity Uranium
Name of applicant Columbia Uranium, Inc.
Name of property Edna claims
Location of property Grand County, Utah
Estimated cost of project $34,638.00

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: 12/10/56. 2. Date received by reviewer: 1/9/57.
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 ~~[illegible]~~ 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.

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

IN REPLY REFER TO:

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DMEA
RECEIVED JAN 15 1957

DATE	INITIALS	CODE
1-15	cw	220
1-16	Ellis	700

January 11, 1957

Memorandum

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

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

Subject: Review of application, DMEA 4566, Columbia Uranium, Inc., Edna claims, Inter-river region, Grand County, Utah (uranium).

The applicant proposes to explore for uranium ore deposits in an area where deposits are known to be small and scattered and where past DMEA projects have either been denied or have had little or no success.

The applicant proposes a project consisting of 5,000 feet of drilling and 400 feet of drifting. While it is true that the property has produced a very small amount of marketable ore and some drill holes are purported to show ore grade material, it seems very doubtful that a DMEA contract would be warranted on the property.

If the Field Team has no specific data on the subject claims it probably would be well to evaluate the Chinle sandstones on the property through field examination. Referral to the Field Team for appropriate action is recommended.

W. P. Williams

W. P. Williams

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

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DATE	NOTING	CODE
1-9-57	E ALB	700

224 New Customhouse
Denver 2, Colorado

January 7, 1957

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Docket DMEA 4566 (Uranium) Columbia Uranium, Inc. (Edna claims) Grand County, Utah

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

Although the Applicant's claims are located in an area where the chances are poor of finding a significant amount of ore, a field examination is recommended, since exploratory drilling and drifting have shown some uranium mineralization, and a small amount of ore has been produced. We concur in this recommendation.

DMEA Field Team, Region III

E. N. Harshman

By E. N. Harshman
Acting Executive Officer

Enclosures

Har C

MINERAL ... IN REPLY REFER TO:
DMEA
RECEIVED
JAN 4 1957
U.S. GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
JAN 7 1957
REGION III
DENVER, COLORADO

January 3, 1957

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 4566 (Uranium), Columbia Uranium, Inc., (Edna Nos. 1, 2, 3, 4, 5 claims), Grand County, Utah

Columbia Uranium, Inc., has applied for DMEA assistance on the Edna Nos. 1, 2, 3, 4 and 5 claims located in the Bowknot Bend area on the Green River in T. 25 S., R. 17 E., Grand County, Utah. The applicant's proposed project consists of 3,480 feet of non-core drilling, 1,580 feet of core drilling and 400 feet of exploratory drifting at a total estimated cost of $32,730.00.

The subject claims are located in an area where known uranium deposits are small and scattered. These deposits are restricted to the basal Moss Back member of the Triassic Chinle formation. The Atomic Energy Commission conducted a geologic reconnaissance in the area and concluded that the district was not worthy of continued investigation. A U. S. Geological Survey mapping team that worked in the area for the past several years also decided that the potential of the area is poor.

The Excalibur Uranium Corporation was granted DMEA assistance to explore property near the applicant's claims under docket Nos. 1631 and 1896. A relatively small deposit of 1,832 tons was found by exploratory work under docket No. 1631, but results of work under docket 1896 were negative. Another DMEA project (Docket 2970) explored property seven miles south of the applicant's claim with negative results. An application (Docket 4054) for DMEA assistance to explore adjoining claims in this area was denied because of the small size and low frequency of known ore deposits.

According to the application, 16 holes out of a total of 20 holes drilled on the claims reportedly cut ore-grade material. Subsequent mining operations on the Edna No. 3 claim produced 88 tons of ore-grade material out of a total of 255 tons shipped. The highest uranium content

was 0.21 percent U_3O_8 in one ten-ton shipment. The average content of ore was 0.08 percent U_3O_8 and about 0.90 percent V_2O_5. The lime content is high, averaging 10 percent. This probably represents the tenor of ore likely to be found. The unit price of several items of work in the applicant's cost estimate are high and the use of equipment for the proposed underground exploration is charged as a rental item at a high rate, even though it is owned by the applicant. The costs would be subject to considerable revision.

Although the applicant's claims are located in an area where the chances of finding ore deposits of significant tonnage and grade are poor, a field examination of the property is probably advisable because exploratory drilling and drifting has shown uranium mineralization, and a small amount of ore has been produced.

W. B. Gazdik,
Geological Survey

M. H. Salsbury,
Bureau of Mines

WBG/mlr

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

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DATE	INITIALS	CODE
1-9-57	E-8609	700

224 New Customhouse
Denver 2, Colorado

January 7, 1957

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Docket DMEA 4566 (Uranium) Columbia Uranium, Inc. (Edna No. 3 Mine) Grand County, Utah.

Enclosed are two copies of assay results submitted by the subject applicant. Will you please place a copy of the assay results with each copy of the brochure you now have.

DMEA Field Team, Region III

E. N. Harshman

By E. N. Harshman
Acting Executive Officer

Enclosures

GArfield 6666

METALLURGICAL LABORATORY

WILLIS H. OTT

ASSAYERS
Umpire and Smelter Control

METALLURGISTS
1519 WESTLAKE AVENUE NORTH
SEATTLE 9, WASHINGTON

CHEMISTS
Physical and Chemical Testing

No. 162 **CERTIFICATE OF ANALYSIS** Date April19, 1956

Submitted by Columb ia Uranium Inc., 517 Arctic Building, Seattle

Sample No. 1 Uranium (U_3O_8) 0.011%

Sample No. 2 Uranium (U_3O_8) 0.014%

Sample No. 3 Uranium (U_3O_8) 0.30%

Sample No. 4 Uranium (U_3O_8) 0.94%

METALLURGIVAL LABORATORY.

Willis H. Ott

Samples taken at 5 feet of the entrance of the drift
Edha No. 3 Claim

RECEIVED
JAN 9 1957
D.M.E.A.

DMEA
DEPARTMENT OF THE INTERIOR
DEC 13 1956
REGION III
DENVER, COLORADO

Smith's Laboratory

CHEMIST AND ASSAYER

MOAB, UTAH

25

5

Columbia Uranium, Inc.

By Robert D. Phillips

June 4, 1956

Sample Description	% U_3O_8	% V_2O_5	%	%	%	%			
Sample # 1	0.048	4.28							
# 2	0.114	0.57							
# 3	0.621	4.85							
# 4	0.405	1.94							

CHARGES $ 16.00

J. Earl Smith
CHEMIST

Smith's Laboratory

CHEMIST AND ASSAYER

MOAB, UTAH

Columbia Uranium Co
Seattle, Washington

July 21, 1954

By Robert D. Phillips

Sample Description	% U_3O_8	% V_2O_5	% $CaCO_3$	%	%	%			
C-1	0.203	2.55	13.30		10 ft	core			
C-2	0.168	1.52	15.10		5½ ft	core			

TOTAL CHARGES $ 15.00

J. Earl Smith
CHEMIST

224 New Customhouse
Denver 2, Colorado

January 7, 1957

Mr. William A. Lindman
Columbia Uranium Inc.
517 Arctic Building
Seattle 4, Washington

Re: Docket DMEA 4566 (Uranium)
Edna No. 3 Mine
Grand County, Utah

Dear Mr. Lindman:

Your letter, transmitting the assay reports on the captioned docket, stated that your geologist was sending us separate estimates for drifting and drilling for your proposed exploration work, together with three drilling bids.

We have not as yet received this information. Will you please advise the date on or before which we may expect to receive this additional information, so that we may continue to process your application.

Yours very truly,

Original signed by
E. N. HARSHMAN

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

HMC:ytl
cc
Sec. Op. Comm. (2)
Harshman
Shaw (2)
Hasler
Docket 4566
Chron.

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 9 1957
DATE | INITIALS | CODE

Mr. George Selfridge

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 7 1957

DATE	INITIALS	CODE
1-8	[illegible]	700

DN 235 BUR MINES 1-7-57 12-29

CHAIRMAN, OPERATING COMMITTEE, DMEA

REURTT JANUARY 4 MEMORANDA FOR DMEA 4566 COLUMBIA-URANIUM, INC., FORWARDED YOU THI DATE. DMEA 4573, CHESAPEAKE -8$ COLORADO CORP., FORWARDED YOU JANUARY 3.

E N HARSMXX
E N HARSHMAN ACTING FOR W M TRAVER
2ND LINE CHESAPEAKE AND

Special

Denver, Colo.

700

Docket

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

OFFICIAL FILE COPY
D M E A
RECEIVED JAN 4 195

DATE	INITIALS	CC
1-7	C	220
		700

4 JAN 1957

T E L E T Y P E

W. M. TRAVER

REURTT JANUARY 3, DMEA 4559 MINERALS INC., NOW WE WILL PROCESS APPLICATION. PLEASE ADVISE WHEN WE MAY EXPECT GRAND JUNCTION MEMORANDA FOR DMEA 4566 COLUMBIA URANIUM INC., AND DMEA 4573 CHESAPEAKE AND COLORADO CORPORATION.

FLKnouse/izm 1-4-57
cc to: Confirmation to Reg. III
Hosted,
Crawford
Kiilsgaard
Operating Committee
Admr.'s Reading File
Code 700
Mr. Knouse

Docket 4566 DMEA
Docket 4573 DMEA

George C. Selfridge

Chairman, Operating Committee

R.C.S.

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

December 10, 1956

Columbia Uranium Inc.
517 Arctic Bldg.
704 3rd Avenue
Seattle 4, Washington

Subject: DMEA-4566

Gentlemen

Your application for exploration assistance, dated December 6, 1956 submitted to our office at Denver, has been assigned Docket Number DMEA-4566 and referred to the Rare and Miscellaneous Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

(Sgd) Allen S. Dakan

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region III, Denver 2, Colorado

Code 700

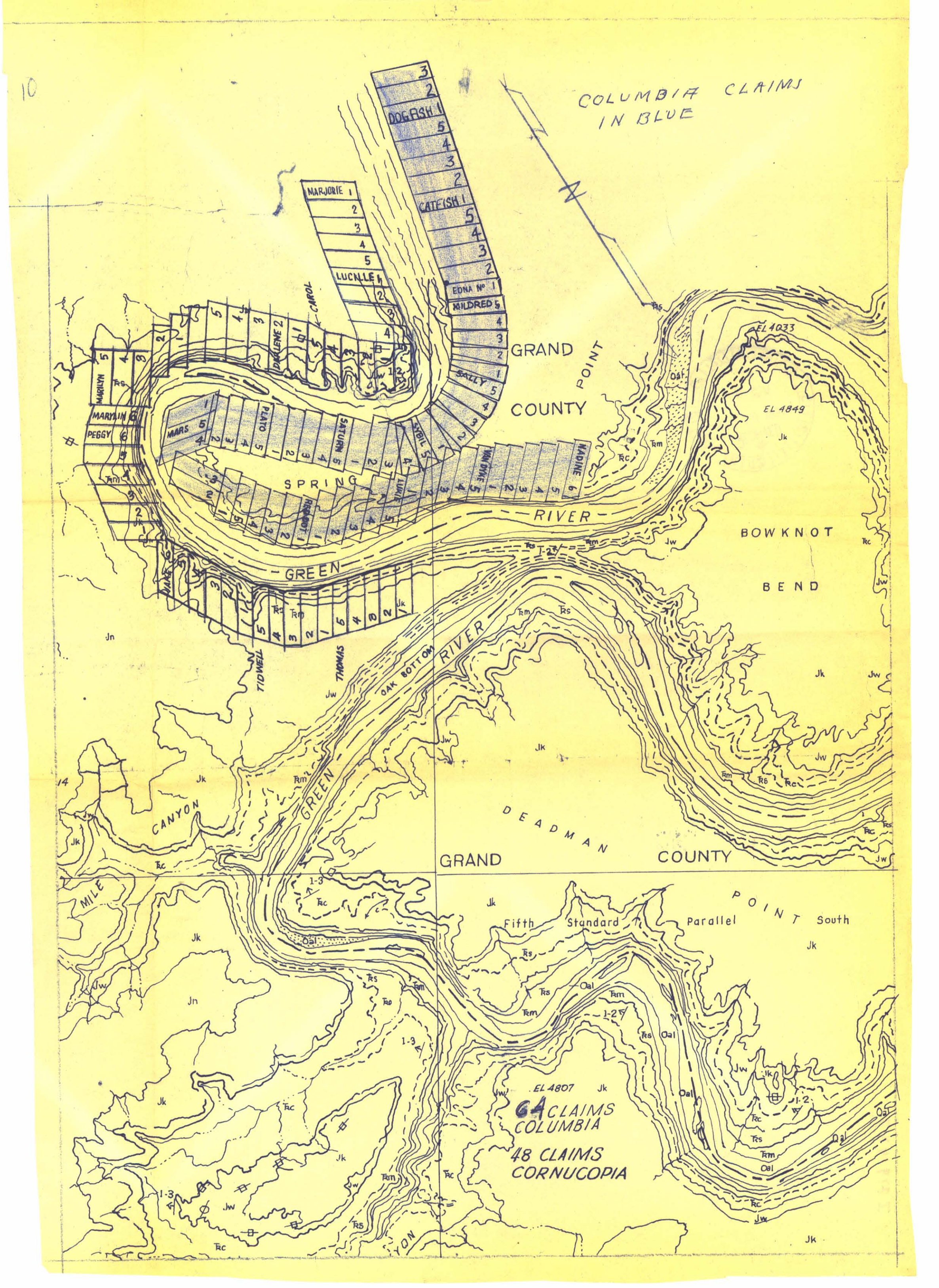
6416

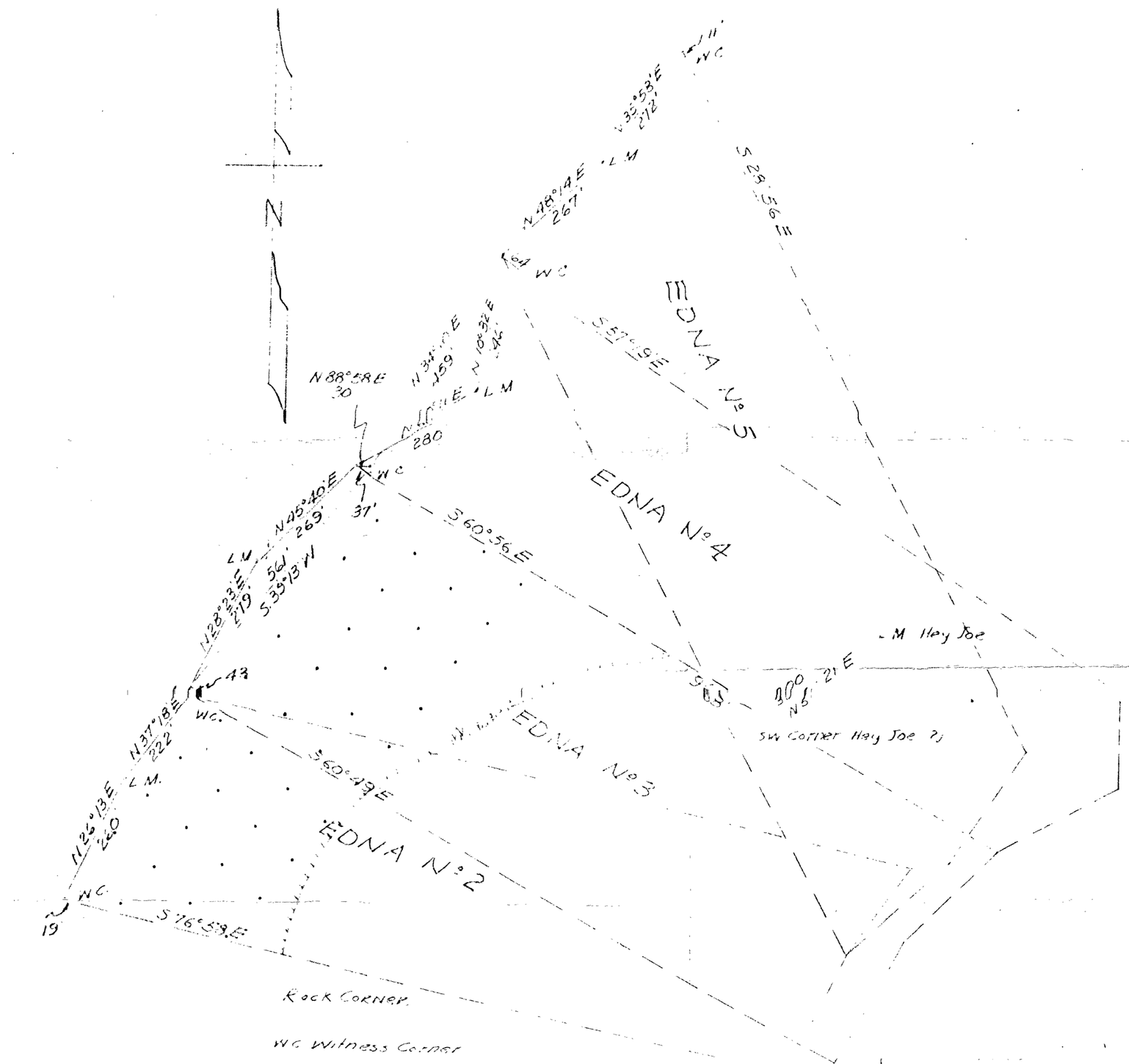
SPOKANE, WASHINGTON

SPOKANE, WASH. DEC 4 6:30PM 1956

DEC 4 6:30 1956

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.


10
COLUMBIA CLAIMS
IN BLUE
DOGFISH 1
CATFISH 1
MARJORIE 1
LUCILLE 1
EDNA No 1
MILDRED 5
SALLY
CAROL
DARLENE 2
MARILYN
MARYLIN
PEGGY
MARS
PLATO
SATURN
SYBIL
VAN DYKE
NADINE
LUNA
ROBERT
DAKE
GRAND
POINT
COUNTY
SPRING
RIVER
GREEN
BOWKNOT
BEND
TIDWELL
THOMAS
OAK BOTTOM
RIVER
GREEN
CANYON
DEADMAN
GRAND
COUNTY
MILE
Fifth
Standard
Parallel
South
POINT
EL 4807
64 CLAIMS
COLUMBIA
48 CLAIMS
CORNUCOPIA
EL 4033
EL 4849
14



Rock Corner.

WC Witness Corner

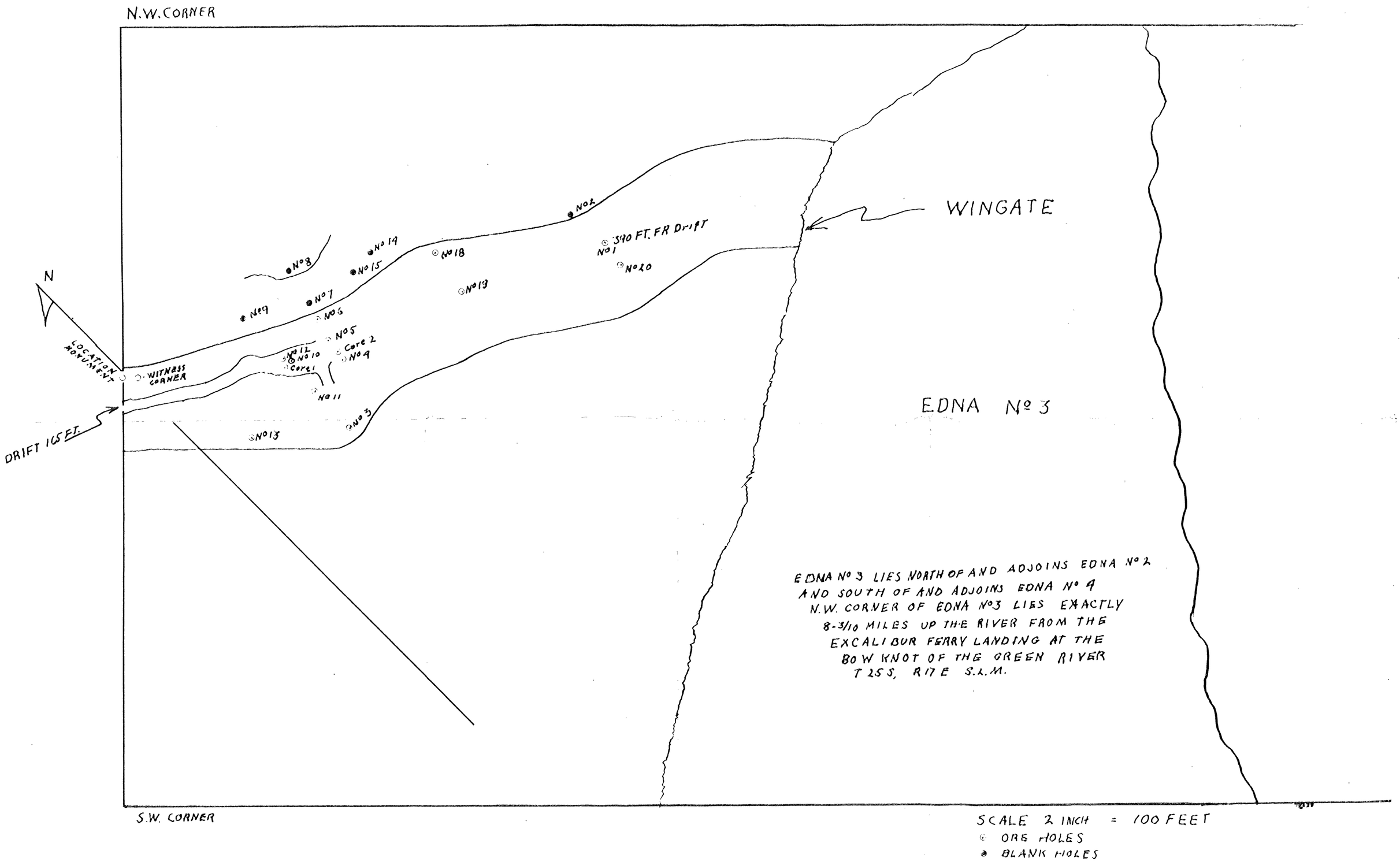
LM Location Monument and End Corner

The Monument 4.5 high, 3' in diameter at mouth of Hay Joe Canyon approximately 250' Easterly of East bank of the Green River 8.5 miles by trail up River from Excalibur Ferry

Scale: 1 inch = 200 Feet

Claim Location Map of the Edna Claims
Claim located in Hay Joe Canyon area
in T 25 S. R 17 E. S.L.M.
Grand County Utah.
Claims Surveyed by J.E. Keogh
March 22, 1956

Certified to be Correct
George H Newell


N.W. CORNER
N
LOCATION MONUMENT
WITNESS CORNER
DRIFT 165 FT.
No 8
No 14
No 15
No 18
No 2
340 FT. FR Drift
No 1
No 20
No 19
No 9
No 7
No 6
No 5
No 12
No 10
Core 1
Core 2
No 4
No 11
No 3
No 13
WINGATE
EDNA No 3
EDNA No 3 LIES NORTH OF AND ADJOINS EDNA No 2
AND SOUTH OF AND ADJOINS EDNA No 4
N.W. CORNER OF EDNA No 3 LIES EXACTLY
8-3/10 MILES UP THE RIVER FROM THE
EXCALIBUR FERRY LANDING AT THE
BOW KNOT OF THE GREEN RIVER
T 25 S, R 17 E S.L.M.
S.W. CORNER
SCALE 2 INCH = 100 FEET
ORE HOLES
BLANK HOLES