MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE

Contract No. _____ Docket No. 6638

Application
- [ ] Denied
- [x] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and Attachments

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)
- All other material filed in chronological order including the following reports if checked:
- [ ] Field Team Semiannual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [ ] On-site Exam. Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. _____: Reports
- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with Transmittal, Narrative and Maps

Folders No. _____: Maps (Use pocket folder or envelope)

Folders No. _____: Settlement Sheets

Folders No. _____: Drill Logs

Folders No. _____: Royalty Material

72195-65

AMERICAN NUCLEAR CORPORATION
FORMERLY
GAS HILLS URANIUM CO.

TELEPHONE (307) 745-7358
7088

BANNER BUILDING
410 GRAND
P. O. BOX 1011
LARAMIE, WYOMING

June 19, 1967

Mr. J. William Hasler
Field Officer, Region III
Office of Minerals Exploration
U.S.G.S., Federal Center
Denver, Colorado 80225

Dear Mr. Hasler:

Re: American Nuclear Corporation (Uranium)
Beaver Rim Area of Sweetwater Plateau
Fremont County, Wyoming and MME Form 40

I am returning the Application for Financial Assistance in Minerals Exploration relative to the abovementioned area. This is the original of the application, the copy was sent to Washington, D. C., Office of Minerals Exploration.

The application contains electric logs, maps which include proposed drill holes, DMEA-4047, and the divisions in the application are: Financial Eligibility, Applicant's Rights to Lands, Physical Description, Geology, Accessibility of Property, Exploration Work, Experience, and Estimate of Cost. The appendices include Correspondence with Banking Institutions, Ent. Corporation Agreement, Contract Bids, and Field Lithology Logs.

The MME Form 40 has now been signed and a copy has been sent--air mail, to Washington, D. C. to be placed with the copy of the application.

Your consideration of this application will be deeply appreciated.

Sincerely yours,

Cotter Ferguson, President
American Nuclear Corporation

encs.

lrm

MME Form 40
Jan. 65

Budget Bureau No. 42-R1308
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85-701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

AMERICAN NUCLEAR CORPORATION
BOX 1011, 410 BANNER BUILDING ROOM 209
LARAMIE, WYOMING 82070

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6636

DATE RECEIVED:

REGION: R-III

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [ ]
- CORPORATION [X]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED: Wyoming

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
Cotter Ferguson	Saratoga, Wyoming	President
Russell Holley	Salt Lake City, Utah	Vice-President
J. T. Banner	Laramie, Wyoming	Director & Secy.
R. W. Finkbiner	Lander, Wyoming	Director
E. A. Kalfahs	Neenah, Wisc.	Director
Harold A. Wohler	Colo. Spgs. Colo.	Director
Bob Peck	Riverton, Wyoming	Director

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Uranium

ESTIMATED COST OF PROJECT: $ 103,671.00

PROPERTY NAME	LOCATION COUNTY	LOCATION STATE
Beaver Rim	Fremont	Wyoming

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Office of Minerals Exploration, Department of the Interior,* ~~Washington, D.C. 20242, or with the nearest OME Field Office.~~ Washington, D. C., 20242, or with the nearest OME Field Office.

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, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

June 19, 1967
DATED

Cotter Ferguson
BY *(Signature)*

President
TITLE

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U.S. Code, Title 18, Sec. 1001

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on OME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *land boundaries* or to the closest identifiable corner.

(b) If an access road must be built, show the proposed location on the property map and state the length, type and construction methods proposed.

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

OFFICIAL COPY
O. I. E.
RECEIVED
JUN 23 1967
INITIALS | CODE
gla | 120 M
110
E.D. 120 P

Office of Minerals Exploration

June 16, 1967

American Nuclear Corporation
Beamer Building
Laramie, Wyoming 82070

Ack recd. yesterday

Subject: American Nuclear Corporation (Uranium)
Beaver Rim Area of Sweetwater Plateau
Fremont County, Wyoming

Gentlemen:

We received, in this morning's mail, one copy of your application for financial assistance in minerals exploration on the above-mentioned subject. The application is herewith returned as the MME Form 40 has not been signed or dated for the applicant company. There was no cover letter enclosed, and unless you submitted a copy of the application to Washington, D. C. it will be necessary to submit a duplicate one to this office in addition to this one. Specific instructions, in italics, are given on the front of MME Form 40, under GENERAL INSTRUCTIONS, lines 8 and 9 "PLEASE SUBMIT TWO COPIES OF THIS APPLICATION AND ALL ACCOMPANYING PAPERS EXCEPT AS OTHERWISE NOTED". Additional forms are enclosed for your convenience.

Sincerely yours,

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

cc: Chief, OME
Hasler chron
OME chron

OFFICIAL
COPY
O. M. B.
RECEIVED

APPLICATION FOR FINANCIAL ASSISTANCE

IN

MINERALS EXPLORATION

BEAVER RIM AREA

of the

SWEETWATER PLATEAU
FREMONT COUNTY, WYOMING

AMERICAN NUCLEAR CORPORATION
BANNER BUILDING
LARAMIE, WYOMING

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VIII	Estimate of Cost	

APPENDIX

Correspondence with Banking Institutes

Erie Corporation Agreement

Contract Bids

Field Lithology Logs

ILLUSTRATIONS

(Plates are in Pocket)

Plate 1 Topographic, Geologic and Claim Map indicating proposed drill holes.

Plate 2 Two (2) idealized cross-sections through the Sweetwater Plateau.

MME Form 40
Jan. 65

Budget Bureau No. 42-R1306
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85–701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

American Nuclear Corporation
Banner Building
Laramie, Wyoming

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6636

DATE RECEIVED: 6/19/67

REGION: ~~1~~ 11

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [ ]
- CORPORATION [X]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED: Wyoming

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
Cotter Ferguson	Saratoga Springs, Wyo.	Pres.
Russell Holley	Salt Lake City, Utah	V. Pres.
J.T. Banner	Laramie, Wyo.	Director
R.W. Finkbiner	Lander, Wyo.	"
E.A. Kalfahs	Neenah, Wisc.	"
Harold A. Wohler	Colo. Springs, Colo.	"
Bob Peck	Riverton, Wyo.	"

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Uranium

ESTIMATED COST OF PROJECT: $103,671.00

PROPERTY NAME	LOCATION COUNTY	STATE
Beaver Rim	Fremont	Wyoming

GENERAL INSTRUCTIONS

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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, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

DATED

BY *(Signature)*

President
TITLE

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

APPLICATION FOR FINANCIAL ASSISTANCE

IN MINERALS EXPLORATION

by

AMERICAN NUCLEAR CORP.
LARAMIE, WYOMING

I. FINANCIAL ELIGIBILITY

a. Efforts Made to Obtain Other Financing:

Two letters from banks are attached indicating their refusal to consider a loan, at this time, for this exploration effort.

b. Affiliated Companies:

Erie Corp. (see attached agreement)

c. Manner in which American Nuclear Will Furnish Share of Costs:

American Nuclear Corporation's share will be in cash.

II. APPLICANT RIGHTS IN LANDS

a. Property Rights:

American Nuclear Corp. owns all of the claims listed herein, subject to a 2.5% royalty payment to Erie Corp. A copy of the agreement is herewith attached.

b. Legal Description

The unpatented claims listed below constitute the group of claims being considered in this exploration program. A claim map is attached. All claims are located in Fremont County, Wyoming.

Name	Section	Township	Range
Jack 1 to 8	(2/3) 14	32 N	90 W
	(1/3) 23	32 N	90 W
Jack 9 to 13	(2/3) 15	32 N	90 W
	(1/3) 22	32 N	90 W
Jack 14 to 18	22	32 N.	90 W
Jack 19 to 26	23	32 N	90 W
Jack 27 to 31	22	32 N	90 W
Jack 32 to 39	23	32 N	90 W
Jack 40 to 44	22	32 N	90 W
Jack 45 to 52	23	32 N	90 W
Jack 53 to 60	(7/8) 26	32 N	90 W
	(1/8) 23	32 N	90 W
Jack 71 to 78	26	32 N	90 W
A-105 to A-106	3	31 N	90 W
A-107 to A-124	34	32 N	90 W
A-125 to A-140	27	32 N	90 W
Z-105 to Z-106	3	31 N	90 W
Z-107 to Z-124	34	32 N	90 W
Z-125 to Z-140	27	32 N	90 W
Y-105 to Y-106	2	31 N	90 W
Y-107 to Y-124	35	32 N	90 W
Y-125 to Y-132	26	32 N	90 W
X-105	1	31 N	90 W
X-106	2	31 N	90 W
X-107 to X-112	35	32 N	90 W
X-114	35	32 N	90 W
X-116	35	32 N	90 W
X-118	35	32 N	90 W
X-120	35	32 N	90 W
X-121 to X-124	35	32 N	90 W
X-125	25	32 N	90 W
X-127	25	32 N	90 W
X-129	25	32 N	90 W
X-131	25	32 N	90 W
X-126	26	32 N	90 W

Name	Section	Township	Range
X-128	26	32 N	90 W
X-130	26	32 N	90 W
X-132	26	32 N	90 W
W-105 to W-106	1	31 N	90 W
W-123 to W-126	25	32 N	90 W
V-105	6	31 N	89 W
V-106	1	31 N	90 W
V-107 to V-123	31	32 N	89 W
V-124 and V-126	25	32 N	90 W
V-125	30	32 N	89 W

Total Claims: 212

c. Lien and Subordination Agreements

None

III. PHYSICAL DESCRIPTION

a. Description of Past and Present Operations:

American Nuclear Corp. (formerly Gas Hills Uranium) located in the Jack group of claims in early 1957 and have maintained them in good standing. The A, V, W, X, Y, Z series of claim were located between April and August of 1966.

Over the past 10 years, American Nuclear Corp. has executed several programs of exploration, attempting to outline zones of uranium mineralization under the Beaver Rim within the claim area. Partial success was met with and based on this factor, an intensive exploration program is presently being formulated to determine if: (1) the radioactive indications are

related to the trend-theory already established below the Beaver Rim, or, (2) said evidence point to an entirely new concept of uranium deposition for that area south of the Beaver Rim escarpment.

b. Company Interest in Operations:

American Nuclear Corp. has entered into a participation agreement with Erie Corporation, a copy of which is attached.

c. Production:

None

d. Ore Reserves

None

IV. GEOLOGY

a. General:

The geology of the area under study is stratigraphically similar to that exposed at the northern face of the Beaver Rim escarpment.

A certain degree of information has been obtained, through preliminary drilling, to indicate that the favorable Wind River formation does extend under the Beaver Rim (or Sweetwater Plateau) for at least a

distance of 3.8 miles in a southerly direction between the Muskrat and Canyon Creek reentrants.

The past drilling efforts of American Nuclear were directed primarily at seeking information as economically as was possible. To this end only rotary type-drilling was used. Difficulties were experienced in each attempt so that the available drill-cuttings could not be accurately correlated without a very detailed study.

The importance of the results obtained from drill holes X-118-1, X-118-2, and X-118-3, is that, (1) each intersected a limonite-stained, radioactive, sandstone at a horizon depth of 1,000-ft. ±, (2) that the lithology at this approximate horizon does resemble, to a great degree, the lower Wind River formation, as described in USGS Bulletin 1164, page 13, and (3) that two of the three holes bottomed in either granite or large granite boulders. If the former is true, it follows that a pinch-out of the Wind River is evident, if only locally. It is also possible that the intersected granite represents deep seated roots of the granite Mountains. If this hypothesis is also true and if the subsurface granitic topography is similar to that of the present Granite Mountains it is conceivable that topo-

graphic traps existed within ancient drainage and sedimentation patterns throughout the subsurface of the Sweetwater Plateau. If, however, the intersected granite hypothesis is incorrect, and these are indeed granitic boulders, a pinch-out of the Wind River in this area would not exist and the region of interest, to the south, would have greater limits.

The included Cross Section, Plate #2, is an ideal representation of the Wind River formation and its proximity to the deep-seated roots of the Granite Mountains based on current lithology logs.

b. Reasons for Expecting to Find Ore:

Although some excellent geologic literature is available on the Gas Hills and Crooks Gap areas, similar guiding information for the vast potential area of the Sweetwater Plateau between the two areas is lacking. American Nuclear has attempted, in its limited financial capacity, to explore this region and by so doing establish some form of guidelines in its future search for uranium deposits. The information listed below in summary is presented here as evidence that a potential of unknown magnitude exists between Diamond Springs; Sec. 35, T 32 N., R 90 W;

Claim # X=118, and known deposits at the Muskrat Creek and Canyon Creek reentrants to the north:

1. The gamma-ray logs for the three drill holes indicate uranium mineralization at or near a common horizon. The interpreted and converted results are as follows:

Drill Hole No.	Distance	Results	Remarks
X-118-1	1030-1045	0.035% eU_3O_8	Logged through pipe
	1030-1045	0.05% eU_3O_8	Pipe removed
X-118-2	1019 - 1021	0.125% eU_3O_8	open
X-118-3	1021-1027	0.12% eU_3O_8	through pipe
	1021-1024	0.19% eU_3O_8	" "
	1021-1027	0.14% eU_3O_8	Pipe correction 20%
	1021-1024	0.23% eU_3O_8	Pipe correction 20%

2. Extensive normal and perhaps cross faulting, of presently unknown relationship to mineral concentration in this particular area, is present.

3. Sinclair Oil and Gas Company drilled a gas well in Sec. 22, T 32 N, R 90 W (Gamma log in pocket) which indicated two radioactive anomalus conditions: one between a depth of 300 and 850-ft. and the other

between 1830 and 1900-ft. with a collar elevation of 7,056.6-ft. Further investigation of this well has not been attempted at this time. It is presented here only to serve as further evidence in qualifying the claim-area as a possible extension of a known uranium province.

4. Similarity of type formation is evident but not entirely proven.

V. ACCESSIBILITY OF PROPERTY

a. Location:

Either of two people will meet the CME representative:

Cotter Ferguson Saratoga Springs, Wyo. Tel: 307-754-7088 307-742-2064 307-326-5308	OR	Walter W. Tyler 14060 Elderberry Rd. Golden, Colo. Tel: 279-5695

The property may be reached via Jeffery City, Wyoming. The exact location is rather difficult to explain so that in the interest of simplicity arrangements can be made before hand and transportation will be made available.

b. Supply Points:

The nearest supply point is Jeffery City, Wyoming.

VI. EXPLORATION WORK

a. Description of Proposed Work:

All proposed exploration work will consist of drilling. Certain standards will be set for all drilling under the contract. Holes are planned on minimum 200-ft. centers across interpreted trends. Holes will all be vertical. Drilling will be contracted to an outside contractor, and supervision will be furnished by the operator. Supervision will consist of a part-time consulting geologist and a full-time assistant to take care of all core, drill-cuttings, samples, and assist with surveying and other related work. Work is proposed no closer than 100-ft. to property boundaries. The holes will be rotary drilled to the approximate pay-horizon at which time diamond drilling will be carried out.

Only the first eleven (11) hole locations are specified on the map since it is expected that considerable flexibility will be required once new information is obtained from each hole. For the location of all proposed work, please refer to Plate #1.

The proposed exploration work is herewith listed and discussed by stages and secondarily by location within the larger target area in Sec. 22, 35 and 27, T 32 N, R 90 W.

STAGE I

East Diamond Springs Area (claims X-118 and X-111)

Drilling 3,120-ft.

Four holes are specifically located and should be drilled at these locations regardless of progressive results obtained. These are planned to obtain a true lithologic section for this area; to determine the lateral extent of the mineralization encountered in earlier independent drilling; and to establish, if possible, the limits of a trend of mineralization. These are shown on Plate #1 and are listed as follows:

Drill Hole No.	Approximate Depth
X-118-4	1,040 '
X-118-5	1,040 '
X-118-6	1,040 '
X-111-1	1,050 '
Total	4,170 '

An additional 3,000-ft. of drilling is allotted for additional holes to be located based on the results from the initial three holes. It is impossible at this time to specifically locate these, but they are expected to be about equal in depth and offset in the direction of best mineralization.

X-124 Claim.

Again, a certain amount of footage is specifically allotted to certain holes and the balance to be located after these first holes are completed. Three holes are indicated on Plate #1 and are listed as follows:

Drill Hole No.	Approximate Depth
X-124-1	1,050 '
X-124-2	1,050 '
X-124-3	1,050 '
Total	3,150 '

The three holes listed above are destined to test for mineralization at or near what appears to be a fault at a location where an ore-trend pattern should project northerly from claim X-118.

Jack 43, Jack 42, Z-139, and Z-140 Claims

Four drill holes in this area, 400-ft. apart, are so located as to test for a projection under the Beaver Rim of the ore trend so well established below the Beaver Rim and within the Wind River Basin.

Secondly, since faulting has been related to mineral concentration at several of the producing pits in the basin, it follows that a similar control may be indica-

tive of ore concentration at the area under study.

The Sinclair Oil and Gas Company, gas well log of Diamond Springs #1, indicates two radioactive zones. Lithologic logs are not available so that it is difficult to make a correlation. However, the proximity of said well to the indicated trend lends some impetus to the scope of exploration thought.

Hole #Z-139-1 is located south of the fault, and although it will be deeper than the three holes north of the fault, certain displacement information will be obtained and the possibilities of a solution trap investigated. The four holes are shown on Plate #1, and are listed as follows:

Drill Hole No.	Approximate Depth
Z-139-1	1,070 '
Jack 42-1	1,000 '
Jack 42-2	1,000 '
Z-140-1	1,000 '
Total	4,070 '

STAGE I I

Since it is impossible at this time to know which of the three areas will require intense additional drilling and in what amounts, 10,000-ft. of drilling is allotted for Stage II to be divided between the three areas. Specific approval will be

obtained from the field officer for each hole once approval has been received to proceed with Stage II exploration.

SUMMARY

Stage I -

Bulldozing drill sites	45 hrs.
Drilling	11,390-ft.

Stage II -

Bulldozing drill sites	50 hrs.
Drilling	10,000-ft.

b. Access Roads:

None are required except for drill roads.

c. Time:

If the OME Contract is executed, the work will start within 10 days, and it is anticipated that the seven (7) months will be sufficient to complete the entire contract, but it is requested that one year be allowed to provide for unforseen delays.

Anticipated rates of progress are as follows:

Bulldozing	8 hrs./day
Drilling	81 feet/day

VII. EXPERIENCE

Technical supervision will be provided by Walter W. Tyler, Consulting Geologist and Engineer, Golden, Colorado. Mr. Tyler graduated from the Colorado School of Mines in 1957 with a degree in Geological Engineering and lacking only several subjects for an additional degree in Mining Engineering. His experience includes mine operation, management of mining operations and consultant to extensive and large-scale exploration programs in South America, Central America, Canada, U.S. and Mexico for and to such companies as Union Pacific Railroad, W.S. Moore Co., Baumgartner Oil Co., Standard Beryllium Corp., Suriname Development Corp., Lajo Mines Ltd., Ottawa Mines, Ltd., Utica Mines Ltd., South American Mining, Century Refining, Western Ventures, and numerous other companies and individuals.

Mr. Cotter Ferguson, President of American Nuclear Corp. (formerly Gas Hills Uranium) has been general manager of all exploration efforts for an undivided twelve (12) years. His personal good judgement has resulted in an increasing success to his company through continued exploration activities.

VIII. ESTIMATE OF COST

a. Independent Contracts

All drilling will be contracted to a drilling company, and three bids accompany this application. A D-8 bulldozer is owned by the operator and will be used at the competitive rate of $16.00/hr.

STAGE I

Drilling ... 11,390 feet at $3.95 Avg.....	$44,990.50
Mobilization charge	150.00
Drilling mud.....	500.00
Bulldozing - drill sites ... 45 hrs	
.....at $16.00/hr.....	720.00
Gamma Probing...11,390-ft. at $0.15/ft. ..	1,708.50
	$48,069.00

STAGE II

Drilling . . . 10,000-ft. at $3.95 Avg.....	$39,500.00
Drilling mud.....	500.00
Bulldozing - drill sites.....50 hrs.....	
.....at $16.00/hr.....	800.00
Gamma probing...10,000 ft. at $0.15/ft....	1,500.00
	$42,300.00

b. Personal Services

The only personal services required will be the consulting geologist-engineer for the logging of core and cuttings and supervision, and a non-technical assistant to take care of the cores, cuttings and samples and

assist in surveying. This work is included as an incidental allowance at a per-foot rate, in line with other similar OME contracts.

STAGE I

Incidental allowance 11,390-ft at $0.55/ft.	$6,264.50

STAGE II

Incidental allowance 10,000-ft. at $0.55/ft.	$5,500.00

c. Operating Materials and Supplies

STAGE I

Core boxes . . . 55 at $1.00.....	$ 55.00
Paper bags . . . 2,000 at $0.03.....	60.00
	$ 115.00

STAGE II

Core boxes . . . 50 at $1.00.....	$ 50.00
Paper bags . . . 2,000 at $0.03.....	60.00
	$ 110.00

d. Operating Equipment

None

e. Initial Rehabilitation and Repairs

None

f. New Buildings

None

g. Miscellaneous

In determining assay expense, it is assumed that about 2% of each hole will require U_3O_8 assays at 2-ft. intervals.

STAGE I

Assays	U_3O_8...	55 at $7.50.....	$ 412.50
ppm	SE.....	55 at $3.50.....	192.50
ppm	Mo.....	55 at $1.50.....	82.50
			$ 687.50

STAGE II

Assays	U_3O_8...	50 at $7.50.....	$ 375.00
ppm	Se.....	50 at $3.50.....	175.00
ppm	Mo....	50 at $1.50.....	75.00
			$ 625.00

COST SUMMARY

STAGE I

Independent contracts.....	$48,069.00
Personal services.....	6,264.50
Operating materials and supplies.....	115.00
Miscellaneous.....	687.50
Total	$55,136.00

STAGE II

Independent contracts.....	$42,300.00
Personal services.....	5,500.00
Operating materials and supplies.....	110.00
Miscellaneous.....	625.00
Total	$48,535.00

GRAND TOTAL $103,671.00

The **FIRST NATIONAL BANK** 1st OF *Laramie*

P.O. BOX 1307 • AREA CODE 307
3RD AND IVINSON PHONE 745-4874 WYOMING 82070

FRANK H. MILLER
Vice President and Trust Officer

May 19, 1967

Mr. Cotter Ferguson
President
American Nuclear Corporation
P.O. Box 1011
Laramie, Wyoming 82070

Dear Mr. Ferguson:

We have considered your application for a loan of $250,000.00 to finance exploration work. While we feel this work is necessary and should be done now rather than over an extended period of time, we do not feel we can qualify the loan for the length of time you indicate you would need to pay it off.

Sincerely,

Frank H. Miller

Frank H. Miller
Vice President
& Trust Officer

FHM/lt

University National Bank

of Laramie, Wyoming

TOM R. PECK
PRESIDENT

2107 GARFIELD
TELEPHONE 745-7351

May 19, 1967

Mr. Cotter Ferguson, President
American Nuclear Corporation
Post Office Box 1011
Laramie, Wyoming 82070

Dear Mr. Ferguson:

We have considered your company's request for a line of credit of $250,000 for the purpose of mining exploration in the Gas Hills area of Central Wyoming.

We very much appreciate the accelerated need for an extensive exploration program, however, due to our inexperience relative to mining exploration and claims, and also due to the repayment schedule that we must, by policy, require on credit of this nature, we will have to decline your request.

We very much appreciate the good business relationship we now enjoy with American Nuclear Corporation and trust that our business relationship in the future will grow.

Best personal regards,

T. R. Peck
President

TRP/ga

AGREEMENT

This Agreement made and entered into as of the 25th day of August, 1966 by and between Gas Hills Uranium Company, a Colorado corporation, hereinafter "Gas Hills" and Erie Corporation, hereinafter "Erie"

Witnesseth:

Whereas the parties hereto have previously entered into various agreements pertaining to the location of certain mining claims by Gas Hills Uranium Company in the Sweetwater area of Fremont and Natrona Counties, Wyoming (hereinafter "The Sweetwater Claims"), and

Whereas the parties hereto desire to supersede with this Agreement all prior agreements;

Now, therefore, in consideration of mutual promises herein contained it is agreed as follows:

1. Erie Corporation will advance to Gas Hills Uranium Company prior to August 31, 1966 a total of $30,000 of which amount $20,000 has been advanced as of the date of execution of this Agreement.

2. The amounts advanced by Erie Corporation to Gas Hills shall not bear interest and it shall be repayable at such time as Gas Hills Uranium Company may have working capital in excess of $100,000; working capital being defined for this purpose as the excess of current assets over current liabilities.

3. Gas Hills shall as soon as feasible convey to Erie Corporation a royalty consisting of 2½% of 100% of the gross proceeds from the sale of uranium from the Sweetwater Claims. For purposes of this paragraph gross proceeds shall be determined on the value of the contained uranium as crude ore at the mine mouth and shall be payable within 30 days after sold as crude ore or after such uranium ores are processed and the concentrates derived therefrom are sold, whichever first occurs. Royalty deeds shall be without any warranties whatsoever. Gas Hills shall retain exclusive right to directly or through its assigns or any other arrangement executed by Gas Hills to develop the Sweetwater Claims. Gas Hills shall retain complete discretion to determine the particular location within the Sweetwater area in which to locate mining claims; to determine the number of mining claims located thereon; to determine the work, if any, to be done thereon and to abandon any or all of such claims. Gas Hills shall have no obligation expressed or implied to perform assessment or other work thereon.

4. Gas Hills may at any time reacquire from Erie Corporation a royalty of 1½% of 100% of the gross proceeds as heretofore defined thereby reducing the royalty of Erie Corporation to 1% of 100% of the gross proceeds as heretofore defined by delivering to Erie Corporation 60,000 shares of its one cent par value common stock or in the event of a stock split or reverse stock split the equivalent number of shares of any then authorized class of stock. Provided, however, that the right contained herein must be exercised by Gas Hills by giving a written notice prior to May 13, 1968. Erie

Corporation hereby represents and agrees that any shares issued pursuant to the provisions of this paragraph will be acquired for investment and not with a view to distribution and unless covered by an effective registration statement and current prospectus will not be sold, offered for sale, transferred or assigned unless upon opinion of Counsel to Gas Hills that such offer, sale, transfer or assignment will not violate the registration provisions of the Securities Act. Provided, further, that an appropriate legend setting forth the foregoing restriction may be placed on the certificate or certificates issued for said shares.

5. This Agreement represents the entire agreement of the parties and shall inure to the benefit of and binding upon the parties hereto, their successor and assigns. This Agreement supersedes all prior agreements oral or written by these parties.

Executed as of the day and year first above written.

GAS HILLS URANIUM COMPANY

President

ERIE CORPORATION

President

EXHIBIT A

All of Sections 31, 32, 33 and 34, S 1/2 of Section 27, S 1/2 of Section 28, S 1/2 of Section 29 and S 1/2 of Section 30. All in T. 32 N R. 89 W.

All of Sections 27, 28, 33, 34 and 35, S 1/2, W 1/2 NW 1/4 of Section 26, S 1/2 of Section 25, E 1/2 of Section 28 and E 1/2 of Section 29. All in T. 32 N R. 89 W.

All of that area bounded on the North by the line dividing T. 31 N and T. 32 N, bounded on the East by the section line dividing Sections 2 and 3 in T. 31 N R. 89 W bounded on the West by the section line dividing Section 2 and 3 and bounded on the South by a line formed by the northern boundary of the following claims located, or being located by Gas Hills:

N-95, N-96, O-99, O-100, P-99, P-100, Q-99, Q-100, E-103, E-104, S-103, S-104, T-103, T-104, U-103, U-104, V-103, V-104, W-103, W-104, X-89, X-90, Y-89, Y-90, Z-91, Z-92, A-91, A-92, B-89, B-90, C-89, C-90, D-89, D-90, E-91, E-92, F-89, F-90, G-89, G-90, H-89, H-90, I-89, I-90.

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

Boyles Bros.
DRILLING COMPANY
CONTRACTORS-ENGINEERS-GEOLOGISTS
2960 W. 7th Avenue
DENVER 4, COLORADO
Phones: ALpine 5-9244
ALpine 5-0855

General Offices and Plant
1624 Pioneer Road P. O. Box 58
SALT LAKE CITY 10, UTAH
HUnter 7-7595

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
SACRAMENTO
ST. LOUIS

June 2, 1967

COPY

American Nuclear Corp.
Laramie, Wyoming
% Mr. Walt W. Tyler
14060 Elderberry
Golden, Colorado 80401

Dear Mr. Tyler:

For your proposed drilling program for the American Nuclear Corp. near Jeffery City, Wyoming, we submit the following estimate of charges.

1. Mobilization and demobilization of men and equipment $500.00

2. Rotary Drilling

0 to 500 Feet	per foot	$ 4.65
500 to 1000 Feet	per foot	$ 5.25

3. Core drilling in bottom of rotary holes NC size. Not to exceed 50 feet $ 7.80

4. Water truck rental of $190.00 per month plus $.12 per mile and drivers wages and payroll taxes. Water to be from your source of supply.

5. All roads and drill sites and sumps to be built and maintained at no cost to Boyles Bros.

6. Drilling mud and additives to be charged at invoice cost.

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
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HUnter 7-7595

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
SACRAMENTO
ST. LOUIS

COPY

7. Mixing mud and conditioning hole for recovering lost circulation, at hourly rate of $16.50 plus material used.

8. If requested, cardboard core boxes for 10 feet of core. each $1.00

These prices are subject to inspection of the property.

Sincerely,

BOYLES BROS. DRILLING COMPANY

W.D. Smith, Field Superintendent

WDS/js

May 31, 1967

American Nuclear Corp.
Laramie, Wyoming
Att. Mr. Walt Tyler

Gentlemen:

We Would like to quote the following on approximately20, 000ft. of drilling. Drilling located near Beaver Rim , Gas Hills Area, Wyoming.

0-1000 ft----------	$4.50 per. Ft.
Approx. 50 Ft. core ea. hole----	$15.00 " "
N. X.	

We thank you for the opportunity to bid on this work.

LIVINGSTON & WILSON EXPLORATION DRILLING.

Fred L. Livingston

Ormsbee Development Co.
315 Twentieth Street
Phone 442-0062
BOULDER, COLORADO 80302

June 9, 1967.

American Nuclear Corp.
Laramie, Wyo.
c/o Mr. Walter W. Tyler,
14060 Elderberry Rd.,
Golden, Colo. 80401.

Dear Mr. Tyler:

In consideration of a rotary drilling program on your client's property near Jeffrey City, Wyoming, we submit the following proposal on approximately 20,000 feet of drilling:

1. Rotary drilling: 0 to 1100', including "NC" Core for a distance not to exceed 50' near bottom.....$3.95/ft.

2. Mobilization of men and equipment.....$150.00

3. Water truck, including driver's wages and payroll taxes, will be included in the per foot bid. Water to be from your suppoy point.

4. All drill sites and roads are to be prepared at no cost to Ormsbee Development Co.

5. Drilling mud and necessary additives will be charged to our cost, F. O. B. Jeffrey City.

6. The mixing of mud and hole-conditioning is included in the per foot bid.

7. Cardboard core-boxes (10' capacity) are available at our cost of $1.00 each.

Our quotation is subject to the inspection of the property.

Yours truly,

A. R. Ormsbee

A. R. Ormsbee

TETON EXPLORATION DRILLING CO., INC.

254 N. CENTER ~~BOX 1~~ ASPEN, WYO. 82601

R. K. "DICK" LISCO
PH. 23 4-8558

D. L. "HANK" HANKINS
PH. 23 4-0490

June 8, 1967

Mr. Walt Tyler
14060 Elderberry Road
Golden, Colorado 80401

Dear Mr. Tyler:

We appreciate your phone call regarding an invitation to prepare an estimate of costs for the drilling of 20,000 feet of plug bit hole on the American Nuclear property south of Beaver Rim, Fremont County, Wyoming.

We understand that the specifications will call for a minimum 4¼" diameter hole to an average depth of 1,000 feet and that 10 to 20 feet of NX core (2-1/8" diameter) will be attempted at the bottom of each hole. We further understand that the client will be responsible for all drilling mud and lost circulation additives, as well as, all rig time on a hourly basis while fighting lost circulation, blow out or water flow. It was further specified that the client would be responsible for all permitting for ingress and egress, road and location preparation and maintenance, logging, and rig time for logging on an hourly basis after four hours after completion of hole. We would want the option to pursue this work on a 24 hour basis should we be the successful bidder.

Our bid as per the above specifications follows:

1. Drilling - - - - - - - - - - - - - - - $5.50/foot including coring.
2. Hourly rates on rig - - - - - - - - $25.00/hour.

Respectfully submitted,

TETON EXPLORATION DRILLING CO., INC.

Richard K. Lisco

Richard K. Lisco
President

RKL/gm

SOI - Lithology

Drilling Contractor Grimsbee Development Co. Driller Warren Jesson

GHUCo.	Drill Hole	Y118-1, located approx 200' westerly from disc post Y118 SENW sec. 35, T32N R70W Elev. 6820'		
8/23/66	0	5	surface sand + gravel grey	ox Lime
	5	85	MdSTN, light grey, some floating sand med. grey	
	85	105	As above with red clay stringers	
	105	120	MdSTN light grey red clay stringers	
	Copy 120	145	Sand Med. Vari colored, gravel grey	
	145	155	As above with some green siltstn hard drilling	
Wind River	155	400	MdSTN blue dries white or light grey	
8/24/66	400	530	As above	
Wind River	530	585	Sand Med Vari Colored	
	585	590	Shale grey, sticky, some floating sand med. grey some vari colored	
8/25/66	590	620	Shale grey + blue sticky	
	620	650	Sand Med Vari colored, mostly grey NOT TOO hard	
	650	695	Sand fine grey, some vari colored clean hard drilling	
8/26/66	695	725	As above	
	725	740	Greenish Clay sticky, some blue shale stringers	
	740	780	Sand Med greenish, some vari colored, some shale bluish hard	
8/29/66	780	785	As above	No lime
	785	860	siltstn green, shale stringers tan blue, sand stringers med grey	
	860	880	Sand Med greenish, mostly grey, some greenish blue shale stringers	
			some green siltstn, few vari colored sand grains med hard	limonite lime
8/30/66	880	930	As above	
	930	935	As above, some black mag, Rock bit locked	some lime
8/31/66	935	975	As above	
	975	1000	Sand Med vari colored, some green siltstn, green + bluish shale	
			some tan limestone stringers	limonite
9/1/66	1000	1035	As above with a small amount of red shale waxy, Kaolin	
9/2/66	1035	1060	As above but more sand med + more red waxy shale fairly hard	
9/6/66	1060	1070	As above very hard samples poor	
9/7/66	1070	1075	Sand fine grey, many pinks med very hard, twisted off	
9/8/66	Picked up by Century			
	120	130	High background	
	810	816	∅ .01	
	816	835	High background	
		835	Fair Kick	

Drilling Contractor Ormsbee Development Co. Driller Warren Jessen

G.H.U. Co.	Drill Hole	Y 105-1	located in the NE NW sec. 2 T31N. R90W Fremont Co.						E/V	6,860'
Approx	750' east	Thence	approx 150' south from discovery post Y 105-1							
9/9/66	0	205	Conq, very coarse gravel grey & black, some Mdstn grey							Lime
	205	245	sand grey med. well sorted							
	245	300	Mdstn fine. limestone buff (clayey siltstn)							
	300	450	Mdstn blue grey, shale blue grey Kick at 455'							
Wind River	450	560	siltstn green, some blue grey Mdstn, boulders limonite							
9/12/66	560	580	As above							
	580	640	sand grey med-fine, some siltstn green							
	640	680	Gravel very coarse, vari colored, siltstn green, buff limestone stringers							
9/13/66	680	720	As above harder. some finer bit locked							
9/14/66	720	780	sand Med Coarse, some vari colored, some siltstn green. buff limestone stringers							
9/15/66	780	845	sand Med vari colored, siltstn green, some buff limestone stringers							
9/16/66	845	860	As above sand finer, abundant red to pink feldspar med						hard	
9/19/66	860	870	sand med grey, abundant red to pink feldspar very hard							
9/20/66	870	895	sand med dark grey, some red to pink feldspar, some blue shale						hard	
9/21/66	895	910	As above sand finer, some sand med limonite stain						softer	
	910	915	As above with some red shale stringers Chug?							
	915	925	sand med dark grey, some red to pink feldspar med, some blue shale small amount red shale Chug?						hard	
	925	935	As above but finer, calcium incrustations						very hard	
9/23/66			Waited for Probe							
9/23/66	Probed	925	Century							
	785	797	Good Kick slightly less than .01							

Drilling Contractor Ormsbee Development Co. Driller Warren Tessin

O.N.U.Co.	X 118-1	Drill hole	located in the SW NE Sec. 35 T 32 N R 90 W					
Approx	400' East from N.W. Cor Claim X 118 Thence 100' south					Fremont Co.	Elv	6,890'
9/29/66	0	10	surface Sand med-fine, grey + buff			ledges	ox	
	10	25	sand med grey, some fine sand stringers grey hard					lime
	25	40	sand med coarse grey, some fine sand stringers grey hard					hung.
9/30/66	40	175	sand very fine, clayey siltstn buff some hard			boulders		
9/30/66	175	220	Mdstn buff, Clayey siltstn, gravel Coarse vari colored limonite					
	220	280	Cong very coarse gravel, vari colored, some greenish grey siltstn Pyrite					limonite
	280	285	Mdstn buff, Clayey siltstn Dries white					Mag
	285	300	Sand clean fine grey					
	300	380	Mdstn buff, Clayey siltstn, some blue shale stringers, + vari colored gravel					
10/4/66	380	740	As above dries white					
	740	765	As above, some sand coarse vari colored dries white					
	765	775	Sand med. grey well sorted, some clayey siltstn buff					
	775	805	Clayey siltstn buff, some blue clay, some sand vari colored coarse dries white limonite					
10/5/66	805	855	sand med grey, some vari colored					
	855	880	sand fine grey, some med-coarse grey, some blue clay					limonite
10/6/66	880	930	sand med, vari colored, blue + buff shale					
10/7/66	930	1030	sand med grey, some vari colored, some blue + buff shale					
	(1030	1045	As above all rust colored)					
10/10/66	1045	1055	sand grey fine, very little vari colored, some blue + buff shale			hard		
10/11/66	1055	1057	As above			Poor cuttings		
10/12/66	1057	1060	As above					
10/13/66	1060	1065	As above				Choppy softer	
10/17/66						Trying to get water		
10/18/66								
10/19/66	1065	1075	Blue + buff shale, sand med grey hard			Poor cuttings		
10/20/66	1075	1077	As above					
10/21/66	1077	1082	As above					
10/24/66	1082	1085	As above, some calcium incrustations, some limonite				hard	
10/25/66	1085	1086	As above					
10/26/66	1086	1087	As above					
Probed	970	985	MIN					
To	1010	1025	MIN					
1068'	1030	1045	.035	Thru Pipe 250 C.P.S.				
10/27/66								
Probed								
To								
1071'								
Open	970	985	MIN					
	1010	1025	MIN					
	1030	1045	.05	Open				
	1055	1065	MIN					

Drilling Contractor Ormsbee Development Co. Driller Warren Jessen

G.H.U.Co	Drill hole	No X118-2	located in the SE NE Sec 35 T32N. R90W Fremont County					
Approx	100' south	from NSC	Post Claim X118 and approx 300' east from drill hole X118-1					Elv 6,87
10/28/66	0	30	surface sand & gravel grey, some vari colored med					lime
	30	155	clayey siltstn buff, some hard sandstone ledges					
	155	160	sandstone fine grey					
	160	180	clayey siltstn buff, some sand vari colored, boulders					
11/1/66	180	300	Cong					
	300	540	Clayey siltstn buff, some blu shale stringers					
11/2/66	540	800	As above					
11/3/66	800	845	Sand med-fine vari colored, some blue buff shale, black mag flakes					
			some boulders hard					
11/4/66	845	855	As above no mag, calcium incrustations hard.					
	855	860	As above with more boulders choppy hard					
	860	900	Sand med vari colored, more blue buff shale. calcium incrustations					softe
			some sand fine slightly darker grey.					
11/7/66	900	985	As above but softer					
11/11/66	985	995	As above, some sand fine grey, some, some coarse grey, blue buff shale					
	(995	1020	some fine greenish siltstn, limonite or rust saturation, choppy boulders)					
11/14/66	1020	1030	As above					
11/15/66	0	0	Put clutch in Drill					
11/16/66	1030	1045	As above sand is finer some darker, some black biotite.					
11/17/66	1045	1052	sand med grey, black, orange, some darker grey fine. some blue buff shale					
			some biotite, some calcium incrustations, some mag				hard	
11/18/66	1052	1060	cored Diorite Diabase, quartz Granite					
11/21/66			Washed + Probed					
			Kick	900'-915'				
			"	950'-961'				
11/21/66	Probed	1060	3'-125	1019'-1021'				
	0'	100'	No samples sacked Poor circulation and snow.					

Drilling Contractor Ormsbee Development Co. Warren Jessen Driller

6.4[illegible] X118-2 Drill hole located in the SENE Sec. 35 T32N R90W Fremont Co. E/V 6870

Located 66' east from Drill Hole X118-2 and south 45° E approx 130' from NSC Post Claim X118 lime

12/6/66	0	60	Boulders, Grey, black, green SS fine grey
	60	195	SS fine grey, Clayey siltstn, some vari colored gravel & boulders
12/7/66	0	195	As above
12/8/66	195	225	As above
	225	240	Clay buff sticky, some vari colored gravel med.
	240	260	Boulders, vari colored sand rock med-coarse, hard.
12/9/66	260	260	Broken bit in hole boulders hard.
12/[illegible]/66	260	290	Boulders, vari colored sand rock med-coarse hard.
	290	366	Clayey siltstn buff, some blue shale stringers, some vari colored sand coarse, some boulders.
12/13/66	360	820	Clayey siltstn buff, some blue mdstn, some blue shale stringers, some floating sand vari colored med. some buff sand stringers very fine.
	820	835	As above with more sand med vari colored.
12/14/66	835	880	Blue mdstn, buff sand stringers very fine, some sand vari colored med. some blue shale, some boulders.
	880	930	Sand med grey, some sand med-coarse vari colored, shale + mdstn blue buff, tarnished pyrites fine, some very fine sand grey + buff to T.D.H.
*			Med sand is limonite stained.
12/15/66	930	955	Sand med grey, shale + mdstn blue + buff. some sand very fine grey + buff to T.D.H.
	955	990	Sand med grey, some shale + mdstn blue + buff.
	990	1000	Sand med grey well sorted a little darker, some choppy boulders.
	(1000	1005	Sand med grey, some rust colored.)
	1005	1030	Sand med grey, slight greenish cast, some choppy boulders some mag.
12/[illegible]/66	1030	1040	As above slight greenish cast, calcium incrustations, hard, granite.
12/[illegible]/66	Probed	885	Open
12/19/66	Probed	1030	Thru Pipe

895' - 915' Min
936' - 954' Min
1020' 1023' 2½ - .25

* Twisted off bit at 195' started new hole

* Pyrites are obvious & best recognized in this hole.

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/29/67	Peterson	120
9/29/67	Kirkemo	120
		110
		220

September 29, 1967

Memorandum

To: The File

From: Chief, Office of Minerals Exploration

Subject: OME-6636 (Uranium)
American Nuclear Corporation
Beaver Rim Area
Fremont County, Wyoming

The Applicant has not replied to our letter of August 29, 1967. Accordingly, the subject docket is referred to the inactive file and the application considered as having been withdrawn.

Frank E. Johnson

Frank E. Johnson

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
OME Region III
Mr. Peterson

GLAult/a 9-29-67

23263

General Delivery
Riverton, Wyoming
9/21/67

OME-6636

Dear Bill:

Are these the claims on which an application was made? If they are, what of these developments?

Best,
Frank

OFFICIAL COPY
U. S. M. E.
RECEIVED
SEP 22 1967
INITIALS | CODE
JH | 10
HK | 120
ZD | 120

OME Region III
RECEIVED
SEP 22 1967
Denver, Colorado

Today in History

Claim Fight Moves on To Trial

Copy to Washington
9-22-67.

District Court in Casper last week denied injunctive relief in advance of the trial in the suit in which Vipont Mining and Federal Resources have brought against American Nuclear, Cotter Ferguson and others.

The court ruled as it had in the previous suit filed by American Nuclear against Vipont and Kerr McGee, that no decision could be reached until the facts of the case could be heard.

The American Nuclear - Kerr McGee suit is dormant for the time being as an effort is being made to settle the differences between the parties.

On the suit in which Vipont-Federal are the plaintiffs and American Nuclear the defendant, depositions are scheduled to be taken starting Sept. 25.

The disputes center about the validity of claims in the Gas Hills-Beaver Rim areas where old claims have been restaked and refiled on the basis assessment work was not done, and where a drilling race developed on newly-staked and filed claims, the challenge based on the question of whether mineral discovery had been made.

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
8/29/67	Peterson	120
8/29	RM Smith	120
		110
8/29	CAC	220
		120M

AIRMAIL

AUG 29 1967

American Nuclear Corporation
Box 1011, 410 Banner Building, Room 209
Laramie, Wyoming 82070

Re: OME-6636 (Uranium)
American Nuclear Corporation
Beaver Rim Area
Fremont County, Wyoming

Gentlemen:

We have not had a reply to our letter of July 27, 1967. If you require additional time to prepare the information previously requested, please let us know. If we do not receive a reply from you within thirty days from the date of this letter, we will assume that you are no longer interested in proceeding with your application and shall consider it as having been withdrawn.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Econ. Geol. file
OME Docket
OME Reading File
OME Region III
Mr. Peterson

ECPeterson/gla 8-29-67

23263

So. 157 Howard Street
Spokane, Washington 99204
August 22, 1967

OFFICIAL
COPY
O. M. E.
RECEIVED
AUG 24 1967
INITIALS CODE
170 M
110
120 P

AIR MAIL

Mr. J. William Hasler
Office of Minerals Exploration
Geological Survey, Building 25
Denver Federal Center
Denver, Colorado 80225

Re: OME-6636 (Uranium)
American Nuclear Corporation
Beaver Rim Area of Sweetwater Plateau
Fremont County, Wyoming

Dear Bill:

Enclosed is a memorandum concerning American Nuclear Corporation's OME application to explore the "Beaver Rim Area of the Sweetwater Plateau, Fremont County, Wyoming," for uranium.

Also enclosed are the application with maps and other supporting data.

Best regards,

Frank C. Armstrong
Geologist

Enclosures
cc: Mr. Jerry Olson, Chief
Branch of Radioactive Materials

So. 157 Howard Street
Spokane, Washington 99204
August 22, 1967

Memorandum

To: J. William Hasler, Office of Minerals Exploration

From: Frank C. Armstrong, Branch of Radioactive Materials

Subject: OME-6636 (Uranium)
American Nuclear Corporation
Beaver Rim Area of Sweetwater Plateau
Fremont County, Wyoming

General Remarks

It has been some time since I have been in the Gas Hills, consequently, although I have tried to read everything published on the area, some of what I have to say may be dated.

The application seems to me to be a mixture of not-necessarily-related ideas combined in a not-necessarily-logical manner with incomplete data obtained from four drill holes.

Trend-theory.--The application speaks of "the trend-theory already established," (p. 4), and "the ore-trend so well established below the Beaver Rim" (p. 11). Whether the ore extends southward beyond the Beaver Rim has always been a big question. The next question of course is, even if the mineralized trends extend southward, can they be profitably mined at the greater depths south of Beaver Rim?

In Prof. Paper 525-A, p. 12-13, is a short statement outlining my thoughts about the relations among the west, central, and east Gas Hills ore-trends. The west ore-trend almost certainly extends southward beneath Beaver Rim. The southward extension of the middle Gas Hills ore-trend, however, is not nearly so certain. If the middle ore-trend connects with the east ore-trend, as I suggested, the middle ore-trend need not extend very far south of the Peach shaft, which is in SE¼ sec. 3 2+ miles north of the northern boundary of the Jack claims. On the other hand such a connection between the middle and east ore-trends could be many miles south of the Peach shaft. Or it's even possible that my ideas are all wet.

Has the "trend-theory" that the application speaks about really been "established"?

The extreme sinuosity (in plan view) of ore bodies within the known ore-trends suggests caution in making projections. It seems to me that a search for the southward projection of the middle Gas Hills ore-trend might better begin in the northwestern part of the Jack claims rather than farther south.

Pinch-out.--The application speaks of a possible southward pinch-out of the Wind River Formation. The Wind River almost certainly pinches-out southward; and it probably pinches-out over an irregular, pre-Wind River topographic surface. Just where the pinch-out takes place is not known. The Wind River-filled irregularities ~~with~~*topography might provide sites suitable for the deposition of uranium minerals. However, I do not know of any criteria for identifying such possible ore sites for drilling. Extensive drilling might develop criteria.

Faulting and ore.--Although nowhere in the application is it explicitly stated that deposition of ore is genetically related to faulting, this genitic relation is implicit in the statement on page 7, in the justification for drill holes Z-139-1, Jack 42-1, Jack 42-2, and Z-140-1 (p. 11 and 12), and apparently has influenced the placement of drill holes X-124-1, X-124-2, and X-124-3.

In occurrences I have seen most faults are post-ore; at a few places the evidence is conflicting and it could not be told whether movement on the fault had been pre- or post-ore. At none of the occurrences that I have seen was there convincing evidence that the ore is genetically related to the faulting. I think that most geologists agree that the ore is not genetically related to the faulting. In reaching this agreement, the geologists have in mind the area north of Beaver Rim and north of the Continental fault. It is my guess that most of them would also agree that the ore is not genetically related to the Continental fault or any of its subsidiary faults. To do otherwise would raise the spectre of a hydrothermal origin which most geologists consider to have been laid to rest long since for these deposits. My opinion is that the ore and faulting (including the Continental fault system) are not genetically related, at least in the normal hydrothermal sense; I do think, however, that it has not yet been conclusively demonstrated beyond all doubt that these deposits cannot be of hydrothermal origin. (Gasps from all sides!) I'll be surprised, perhaps even shaken, if they are. Drilling south of Beaver Rim may help to settle the question.

*in the

Exploration

Exploration south of Beaver Rim certainly can be justified and needs to be done. In all such drilling it will be vital to make good lithologic logs that note bleached and unbleached rock particularly. I question that the drilling proposed in the application has been well justified.

East Diamond Springs Area.--The East Diamond Springs Area is being drilled (4 holes) to:

1. "obtain a true lithologic section for this area." One hole could do this.

2. "to determine the lateral extent of the mineralization . . . and . . . the limits of a trend of mineralization." Isn't it wishful thinking to expect to demonstrate either or both objectives with 3 holes? Several score holes could be drilled and not attain either objective. "A trend of mineralization" is spoken of here. I see no evidence in the application, or on the map or cross sections that suggests that "a trend of mineralization" has been indicated. Similarly, the reason for drilling the 4 proposed holes in a straight line east of hole X-118-3 also escapes me.

X-124 Claim.--The drill holes on Claim X-124 are "at a location where an ore-trend pattern should project northerly from Claim X-118." The applicant has not presented any evidence for such a statement. Moreover, his suggested placement of holes in the East Diamond Springs Area seems to me to contradict the justification for the holes on Claim X-124.

Perhaps the presence of a fault has influenced the placement of these holes. In my opinion, solely the presence of a fault is not a good reason for drilling.

Jack 43, Jack 42, Z-139, and Z-140 Claims.--Again placement of drill holes appears to have been strongly influenced by the presence of a fault, despite the stated intent to investigate the southward projection of an ore-trend. The reference to "a solution trap" (p. 12) of course implies pre-ore faulting.

Suggestions.--

1. If the southward projection of the middle Gas Hills ore-trend is to be investigated, the northwestern or central western part of the Jack claims might be the best place to start. Initially holes could be spaced 500 to 1,000 feet apart.

2. The mineralized sections found in drill holes X-118-2 and X-118-3 probably should be investigated further. I do not have information for suggesting drilling sites. Perhaps, the applicant has. I doubt that the holes as laid out on the map will make the best use of the footage drilled. It seems to me that in this area after drilling the first hole the selection of other drilling sites should be governed by the information obtained.

3. Drilling on Claim X-124 should not be done at this time, unless the applicant can advance more cogent reasons than he has presented in his application.

4. If the amount of drilling footage in Stage I allows it, two holes might be drilled in the Jack 43, Jack 42, Z-139, and Z-140 area. These holes should be drilled last. They could be drilled on opposite sides of the fault. Their east-west position would be determined by the results of the drilling farther north, presuming that the southward projection of the middle Gas Hills ore-trend had been found in this drilling.

Other Items

Claims (p. 2-3).--The following claims are listed as being included in the application:

Y-131	W-126	V-116
Y-132	V-108	V-118
X-131	V-110	V-120
X-132	V-112	V-125
W-125	V-114	V-126

I am unable, however, to find any of these claims on the claim map.

The following claims are shown on the claim map but are not listed as being included in the application:

X-119	W-121
	W-122

East Diamond Springs Area (p. 10).--I am unable to determine the source or significance of the figure given at the top of the page:

"Drilling 3,120 ft."

The holes already drilled in that area total 3,187 feet.

Stage II (p. 12).--The application asks that the drilling of Stage II "be divided between the three areas." I suggest that this type of statement be avoided. One or more of the areas may be a complete bust and not warrant any Stage II drilling.

Bulldozing (p. 13).--I am surprised that so many hours of bulldozing with a D-8 would be required for drill sites in that area (4 hours per site in Stage I, and 5 hours per site in Stage II), but perhaps that many hours will be required.

cc: Jerry Olson, Chief
Branch of Radioactive Materials

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/26/67	Peterson	120
7/27/67	Kirkham	120
		110
		220
		120M

AIRMAIL

JUL 27 1967

American Nuclear Corporation
Box 1011, 410 Banner Building, Room 209
Laramie, Wyoming 82070

Re: OMX-6636 (Uranium)
American Nuclear Corporation
Beaver Rim Area
Fremont County, Wyoming

Gentlemen:

On June 26, 1967, we wrote you outlining certain information which is necessary to continue the processing of your application. To date, we have not had a reply to our letter. Will you please inform us of your plans regarding the application. If you have decided not to pursue it further, will you please so inform us.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Econ. Geol. file
OME Docket
OME Reading File
OME Region III
Mr. Peterson

ECPeterson/gla 7-26-67

23263

Kerr-McGee Is Called 'Modern Claim-Jumper' By Small Mining Firm

7/17/67

* * *

American Nuclear Styles Itself A 'Little David' in Contested Search for Wyoming Uranium

By a WALL STREET JOURNAL *Staff Reporter*

JEFFREY CITY, Wyo.—Amid charges of "modern-day claim-jumping," two companies are drilling furiously for possible uranium ore near this west-central Wyoming town.

Seven rigs are exploring in a general area about 15 miles east of here. Five of the rigs are being operated by American Nuclear Corp., a small Laramie, Wyo., concern, which calls itself the "little David" in the contest. The other two rigs are under contract to Kerr-McGee Corp., Oklahoma City.

American Nuclear says it was here first, and its president, Cotter Ferguson, charges Kerr-McGee with "modern-day claim-jumping." "Apparently, Kerr-McGee is still sneaking up at night and driving in stakes," says George E. Allen, Mr. Ferguson's executive assistant.

A Kerr-McGee spokesman said the company "has acquired about 500 mineral claims from Alfred Ellerby, president of Vipont Mining Co., Lander, Wyo.," and is "in the process of doing annual assessment work by core drilling on these properties."

"We have acted in good faith and have been advised that Vipont's title to the claims is valid," the Kerr-McGee statement said.

American Nuclear maintains, however, that the claims in dispute have been neglected and unworked and that they have thus reverted to public domain. Wyoming regulations stipulate that $100 of work must be done on each claim annually in order to hold it.

American Nuclear says it staked its own claims last summer and fall and began drilling operations. Mr. Allen says there is "a possibility of uranium ore being in the area, although American Nuclear hasn't found any yet. The nearest producing uranium mine in the area is about 10 miles away, Mr. Allen says.

On July 8, a Kerr-McGee rig began drilling operations about 100 yards from two Amercan Nuclear rigs. A second Kerr-McGee rig arrived July 9 and started drilling near the first, American Nuclear says.

The rigs are now racing downward. One American Nuclear crew, working around the clock, has penetrated to about 800 feet. Kerr-McGee's deepest penetration was estimated at 400 feet.

Mr. Allen says American Nuclear told the Kerr-McGee drilling crew that it is trespassing, and that Mr. Ferguson has protested to "high management levels" of Kerr-McGee. Ironically, American Nuclear has leased some other claims to Kerr-McGee, says Mr. Allen.

Compared with Kerr-McGee, "we'd be petty cash," says Mr. Allen. "Maybe that's why they think they can stomp on little David." Mr. Allen says American Nuclear plans to seek an injunction against Kerr-McGee.

Mr. Allen says uranium exploratory activity is getting "vicious" in this area, adding: "People are sitting out on the hillsides with telescopes to see who's doing what."

American Nuclear changed its name from Gas Hills Uranium Co. last March.

Agency Approves Loan For Turkish Steel Firm To Buy Goods in U.S.

Eregli to Use the $22,350,000 to Nearly Double Ingot Capacity; Funds to Go to Government First

By a WALL STREET JOURNAL *Staff Reporter*

WASHINGTON—The State Department's Agency for International Development approved a $22,350,000 loan to finance purchases of equipment and services in this country by a steel company in Turkey.

Eregli Iron & Steel Works Inc., the largest private enterprise in Turkey and partly owned by U.S. interests, will use the loan proceeds to nearly double its annual ingot capacity to about 900,000 metric tons from 470,000.

The U.S. foreign aid agency said its loan, repayable in dollars, will be on a long-term, low-interest basis to the government of Turkey. The government will relend the funds to the steel company at a higher interest rate. But this secondary loan will be repayable in Turkish currency. The dollar loan from AID to the Turkish government is repayable over 40 years, with annual interest of 1% during the first 10 years and 2½% thereafter. The loan to the company carries annual interest of 6% and is repayable over 20 years.

Eregli's integrated steel mill, completed in 1965 by a consortium of suppliers formed by Koppers Co., Pittsburgh, cost $300 million. Financing was provided through a $129.6 million AID loan and other capital provided by banks and businesses in the U.S., France, West Germany and Turkey. AID said U.S. interests hold 21% ownership in the company.

The total cost of the expansion project is estimated at $30 million. In addition to the AID credit, the Turkish government will lend about $5 million in local currency, while European sources will provide $2.8 million in long-term credits to cover purchase of an oxygen plant from a French manufacturer.

Conventional Mortgage Rates On New Homes Rose in June

WASHINGTON—The average interest rate on conventional new-home mortgage loans rose in June, the Federal Housing Administration said.

As of July 1, the average rate for such mortgages was 6.5%, up from 6.45% on June 1 and 6.4% a year earlier, it said.

OFFICIAL COPY

Office of Minerals Exploration

June 27, 1967

Memorandum

To: Frank Armstrong

From: J. William Hasler

Subject: OME-6636 (Uranium)
American Nuclear Corporation
Beaver Rim Area of Sweetwater Plateau
Fremont County, Wyoming

Transmitted herewith is our copy of the application on the above-stated subject which you kindly agreed to review in our telephone conversation yesterday.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

cc: Chief, OME
Hasler chron
OME chron
6636

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
6/26/67	Peterson	120
6/26/67	Kirkham	120
		110
		220
		120M

AIRMAIL

American Nuclear Corporation
Box 1011, 410 Banner Building, Room 209
Laramie, Wyoming 82070

JUN 26 1967

Re: OME-6636 (Uranium)
American Nuclear Corporation
Beaver Rim Area
Fremont County, Wyoming

Gentlemen:

A preliminary review of your application for exploration assistance indicates that additional information is needed to continue its processing.

Although you have submitted copies of letters from two banks refusing to grant an exploration loan, it is also necessary for you to furnish copies of your letters to the banks requesting such a loan. Your letters should state the amount of the loan requested (in the amount of the Government's share of the estimated project cost), purpose, date, and terms requested.

Please furnish Lien and Subordination Agreements signed by the Erie Corporation covering their overriding royalty interest in the group of claims listed in the application. Six Lien and Subordination Agreements Forms (MME Form 52) are enclosed for your possible use. Five copies should be returned to this office.

To determine your eligibility for OME assistance, a recent financial statement of the American Nuclear Corporation is required. Also, state the interest that the Erie Corporation has in the Applicant.

We will be glad to consider your application further upon receipt of the required information; however, nothing in this letter should be construed as a commitment by the Government to grant an exploration contract.

cc: Director's Reading File
Division File
Economic Geology File
OME Reading File
OME Docket
OME Region III
Mr. Peterson

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosures

ECPeterson/gla 6-23-67
Rewritten: ECPeterson/gla 6-26-67

23263

June 19, 1967

Mr. Cotter Ferguson
American Nuclear Corporation
Banner Building
Laramie, Wyoming 82070

Subject: OME-6636

Dear Mr. Ferguson:

Your application for exploration assistance, undated and submitted to our office at Washington, D. C., has been assigned Docket No. OME-6636.

Please identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Frank E. Johnson
Chief, Office of Minerals
Exploration

Copy to Region III