A Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMA Docket No. 4010

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1 cy region V; cy USGS; cy B Mines

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Exploration

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Routing Slip

To:	700	Date	10/11/55
To:	Oper Com	Date	11-3-55
To:	Mr. Mittendorf	Date	11-9-55
To:	Operating Com.	Date	11-15-55
To:	Mr J Thurson	Date	11-16-55
To:	Mr. Quist	Date	11-16-55
To:	M & J	Date	11-16-55
To:	Operating Com.	Date	2-14-56
To:	F. E. Johnson	Date	2-15-56
To:	[illegible]	Date	2-15-56
To:		Date	
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FILE COPY
SURNAME:

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

APR 3 1956

Mr. Ryman Herr
Herr and Fisher
Flemington, New Jersey

Re: Docket No. DMEA-4010 (Uranium)
Gatling Mining & Development Co., Inc.
Raven Rock Quarry
Hunterdon County, New Jersey

Dear Mr. Herr:

Your letter dated March 22, 1956, addressed to the U. S. Bureau of Mines, has been referred to this office for reply.

The Gatling Mining and Development Company, on October 10, 1955, applied to the Defense Minerals Exploration Administration for Government aid in an exploration project on the subject property. In response to your inquiry, please be advised that the DMEA has not committed itself to a loan to this organization.

Sincerely yours,

C. O. Mittendorf

Administrator

MChing/FEJohnson/izm/bih
4/2/56
cc to: Docket
Admr. Reading File
DMEA FT, Region V (2)
Messrs. JECrawford, Room 3641
THKuilsgaard, Room 5224
JOHosted, Room 3210 - GSA
Ching
Johnson

700

FILE COPY
Surname: Ching

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

Mr. Ryman Herr
Herr and Fisher
Flemington, New Jersey

Re: Docket No. DMEA-4010 (Uranium)
Gatling Mining and Development Co., Inc.
Raven Rock Quarry
Hunterdon County, New Jersey

Dear Mr. Herr:

Your letter dated March 22, 1956, addressed to the U. S. Bureau of Mines, has been referred to this office for reply.

The Gatling Mining and Development Company, on October 10, 1955, applied to the Defense Minerals Exploration Administration for Government aid in an exploration project on the subject property. Under date of February 16, 1956, the application was denied on the grounds that the probability of disclosing minable uranium ore reserves was not sufficiently promising to justify Government participation.

We trust that this information satisfies your requirements.

Sincerely yours,

Administrator

MChing/izm 4-2-56
cc to: Docket
Code 700 Mr. Ching
Admr.'s Reading File
DMEA Field Team, Region V (2)
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

401

~~Minerals Division~~

3/30/56

LAW OFFICES
HERR AND FISHER
FLEMINGTON, N.J.
PHONE 180

RYMAN HERR
LLOYD FISHER

March 22, 1956

RECEIVED
MAR 29 1956

U.S. Bureau of Mines,
Washington, D.C.

Dear Sirs:

A firm of Vernon and Alvin Gatling, sometimes also known as the Gatling Mining & Development Company, claim to have a commitment from you for development of the Raven Rock Quarry above Stockton, N.J.

We represent the property owners and from what we can learn from experts who have been there, there is not enough ore to justify commercial mining.

I should appreciate it if you would let me know whether or not you have committed yourself to a loan to this organization, and if so, what the terms and conditions of the same are.

Sincerely yours,

RYMAN HERR

RH:FW

BUREAU OF MINES
WASHINGTON, D. C.
MAR 26 3 58 PM '56

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MAR 26 1956
BUREAU OF MINES
MINERALS DIVISION

RECEIVED
MAR 19 1956

March 13, 1956

4010

U. S. Dept. of the Interior
Defense Minerals Exploration Administration
Washington 25, D.C.

Attention: Mr. C. O. Mittendorf

Dear Mr. Mittendorf:

We have your letter of February 16th. Thank you sincerely for the consideration you have given our application.

Yours very truly,

GATLING MINING AND DEVELOPMENT CO., INC.

Vernon Gatling

Vernon Gatling, President

VG:jd

Surname copy

700

Ching
Ellis
Geehan
Kilgoar
Selfridge
Hofsman

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

FEB 16 1956

Mr. Vernon Gatling, President
Gatling Mining and Development Co., Inc.
Bissett Place
South River, New Jersey

Re: Docket No. DMEA-4010 (Uranium)
Raven Rock Quarry
Hunterdon County, New Jersey

Dear Mr. Gatling:

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

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

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

MChing/gla
2-14-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Ching
DMEA Field Team, Region V (2)

R.S.L.

DOCKET COPY

Ching
Ellis

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

February 14, 1956

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No. DMEA-4010

Commodity: Uranium

Applicant: Gatling Mining and Development Company
Bissett Place
South River, New Jersey

Property: That property belonging to George Laszlo, adjacent to the Raven Rock Quarry, situated in the Township of Delaware, Hunterdon County, New Jersey. The property is approximately 400 acres in area. Applicant is the Lessee.

Date of Application: October 10, 1955

Amount of Application: $242,000.00. (Details add up to $217,700.00 only.)

Work Proposed: No satisfactory description presented. Costs follow:

25,000 ft. of core drilling @ $3.25/ft. (contract)	$81,250.00
100 ft. 4x8 ft. shaft @ $60.00/ft. (contract)	6,000.00
Labor, supervision, consultants	28,320.00
Operating materials and supplies	7,665.00
Operating equipment	47,700.00
Other costs	16,765.00
Contingencies	30,000.00
Estimated total cost	$217,700.00
Government participation @ 75%	$163,275.00

Field Team Report: January 20, 1956 - H. L. Burmeister, USBM
W. P. Williams, USGS

The Raven Rock Quarry is in the Stockton sandstone of Triassic age. The quarry is roughly U-shaped, with the west side open and providing access to the quarry.

At the east, north, and south faces of the quarry from 40 to 60 feet of sandstone is exposed.

Careful survey of the entire accessible parts of the quarry resulted in finding two places where the radiometric count exceeded the background count of 0.025 MR/HR. The first place consisted of a spot about 5 feet in diameter on the floor of the quarry where crushed rock had been used as rock fill. The count was 2 to 3 times background. No individual pieces of radioactive rock could be found. Applicant stated that a hole had been drilled on the spot but the collar of the hole could not be found, and no core, drill logs, assays, or other data could be produced by the Applicant.

The other place showing anomalous radioactivity was found in a small 8-foot adit in the north face of the quarry. A thin, red to reddish-gray, fine-grained sandstone and siltstone seam gave a maximum count of 0.50 MR/HR. The seam is about 3 inches thick and pinches out completely toward the walls of the adit. Radiometric and chemical assays of a sample of the most radioactive material from the seam gave values of 0.041% eU and 0.049% U, respectively. Applicant stated that a drill hole collared at the top of the quarry and penetrating the rock behind the adit face showed 5 feet of core of ore grade. Again, no core or written records of the hole could be produced by the Applicant.

The Applicant has made extravagant claims for the property which were not substantiated by the field examination. It is recommended that the application be denied.

Commodity Group comments:

USGS - N. E. Nelson, February 6, 1956.

Concurs with the Field Team recommendation of denial.

USBM - John E. Crawford, February 7, 1956.

Discussed the report of examination with the AEC representative. It is understood that prior to the DMEA examination the property was examined

independently by the New Jersey Geological Survey, the AEC, and the USGS, all of which reported adversely regarding its uranium potentialities. The costs of the project are ridiculously out of order and unrealistic. Concurs in the recommendation of the field examiners that the application be denied.

Rare and Miscellaneous Metals Division, Michal Ching, February 13, 1956.

The subject application has been inadequate and unsatisfactory from the beginning. Some indication of the competency of the Applicant is shown by the following facts and developments:

1. Mail first directed to the designated address was returned by the Post Office marked "Out of business."

2. A Mining Lease submitted with the application contained several ambiguities and appeared to be quite inadequate. Property rights of the Applicant are obscure. At the time of the examination, the Applicant advised the examiners that a new and properly-drawn lease had been forwarded to the Washington Office on or about November 22, 1955, but such document was never received by this office.

3. An unrealistic estimate of cost was summed up as totaling $242,000, whereas the actual total was $217,700. The field examiners estimated that two used drill rigs listed as costing $32,000 could have been purchased new for $12,800. Other items were similarly out of line.

4. Applicant claimed to have drilled two core holes on the property and assured the examiners that the logs and assay results would be sent to Washington, but these were never received by this office. The examiners were unable to locate the collar of the holes or evidence that the holes had been drilled.

Conclusions and Recommendations:

Uranium mineralization on the subject property appears to be negligible. It is recommended that the application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare & Miscellaneous Metals Division

2/7/56 gla

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

February 7, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 4010, Gatling Mining & Development Co., Raven Rock Quarry, Hunterdon County, New Jersey

I have reviewed the report of examination, Gatling Mining & Development Co., DMEA Docket 4010, dated January 26 and received in this office January 31. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The Field Team report of examination of the Raven Rock Quarry recommends that the application for exploration assistance be denied.

The Gatling Mining & Development Co. made extravagant claims for the property which could not be substantiated by core, assays, and property mineral rights. No drill hole collars or other evidence of recent drilling could be detected on the property. Most of the data, which were requested by the field examiners and which data the applicant stated were in his possession, were either furnished with insufficient detail or disregarded entirely.

It is understood that prior to the DMEA examination the subject property was given the benefit of independent examinations by the New Jersey Geological Survey, the Atomic Energy Commission, and the U. S. Geological Survey, all of which reported adversely regarding the uranium potentialities of the Raven Rock Quarry.

The costs of the exploration project, as pointed out in my memorandum of October 14, 1955, and confirmed by the field examiners, are ridiculously out of order and unrealistic.

We concur in the recommendation of the field examiners that the application for exploration assistance be denied.

RECEIVED
FEB 7 1956

The report is being forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E. Crawford

John E. Crawford

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

February 7, 1956

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Uranium Commodity Committee, Room 4445

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RECEIVED
FEB - 7 1956

The report is being forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E. Crawford

2/8/56 gla

IN REPLY REFER TO:

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

February 6, 1956

Re: DMEA-4010
Gatling Mining & Development Co.
Raven Rock Quarry
Hunderdon Co., New Jersey
$242,000 - Uranium

Memorandum

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

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

Subject: Review of Field Team report

The applicant requested participation by the Government in a large exploration project actually based, as found by the examiners, on one small occurrence of uranium mineralization. Slight suggestions of mineralization were detected in two places by instrumental surveys in faces of the old rock quarry but prospects in any way proportionate to the proposed work cannot be inferred. Substantive evidence, requested and promised concerning drill holes whose existence has not been established, has not been provided.

The examiners conclude: "An extensive drilling project, with the holes on very close centers, might succeed in finding more interbedded mudstone seams and lenses. Such a project would, at best, result in the discovery of a few hundred pounds, or perhaps a few tons of material that, assays to date indicate, will have a maximum grade of about 0.045 percent uranium.

"The applicant has made extravagant claims for the property. Field examination, however, not only does not substantiate his claims but, on the contrary indicates that an exploration project would not result in a worthwhile discovery. For that reason it is recommended that the application be denied. If the applicant can, at some future time, produce reliable data, including core and assays, from the drill holes that are alleged to be on the property, then it might be appropriate to give the application new consideration."

I concur with the recommended action.

N. E. Nelson

N. E. Nelson

RECEIVED
FEB - 7 1956

IN REPLY REFER TO:

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

February 6, 1956

Re: DMEA-4010
Gatling Mining & Development Co.
Raven Rock Quarry
Hunderdon Co., New Jersey
$242,000 - Uranium

Memorandum

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

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

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I concur with the recommended action.

N. E. Nelson

N. E. Nelson

RECEIVED
FEB - 7 1956

Copy to: DMEA (3)

2-2-56 lgm

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1 PGSTON DEF. BLDG.
KNOXVILLE 2, TENN.

RECEIVED
JAN 30 1956

January 26, 1956

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V - Knoxville, Tennessee

Subject: Field Examination Report - DMEA-4010 (uranium)
Gatling Mining & Development Co., Raven Rock Quarry,
Hunterdon County, New Jersey.

Enclosed are four copies of the subject examination report.

Although the examination was completed on November 30, 1955, preparation of the report has been delayed because the applicants had agreed to send logs, analyses, and other essential data. None of this additional information has been received.

We are in agreement with the examiners' conclusions, and recommend denial of the application.

Robert A. Laurence
Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

L. E. Shirley
L. E. Shirley, for V. J. Lynch,
Member, Bureau of Mines.

Reviewed by
DMEA OPERATING COMMITTEE
2-1-56
(date)

Field Team Report of Examination of Property
by
W. P. Williams and H. L. Burmeister[1/]

RECEIVED
JAN 30 1956

DMEA Docket No. 4010 (Uranium)
Applicant: Gatling Mining and Development Co.
To Nov. 20, 1955 - 115 Albany Street, New Brunswick N.J.
After Nov. 20, 1955 - Bisset Place, South River, New Jersey

Reviewed by
DMEA OPERATING COMMITTEE
2-1-56
(date)

Summary, Conclusions, and Recommendations

Careful examination of the Raven Rock Quarry, near Stockton, New Jersey, with scintillometer and Geiger counter disclosed two places where radioactivity was above normal for the surrounding rocks. An area of a few square feet of road fill counted two to three times background count (Fig.2). No economic possibilities exist for the material.

A thin red mudstone seam in a small adit gave a maximum count of 2.0 MR/HR (Fig.2). The material, however, gave an assay value of only 0.044 percent uranium. Because the thin seam is lens-like and only a few feet wide, there seems to be only a small volume of the material present.

The application as submitted is completely unsatisfactory. Most of the data required is either furnished with insufficient detail or disregarded entirely and cost estimates are unreasonable. At the time of examination the applicants agreed to submit specific data necessary to revise their application. None of this data has been received to date.

An extensive drilling project, with the holes on very close centers, might succeed in finding more interbedded mudstone seams and lenses. Such a project would, at best, result in the discovery of a few hundred pounds, or perhaps a few tons of material that, assays to date indicate, will have a maximum grade of about 0.045 percent uranium.

1/ W. P. Williams, Geological Survey, H. L. Burmeister, Bureau of Mines.

The applicant has made extravagant claims for the property. Field examination, however, not only does not substantiate his claims but, on the contrary indicates that an exploration project would not result in a worthwhile discovery. For that reason it is recommended that the application be denied. If the applicant can, at some future time, produce reliable data, including core and assays, from the drill holes that are alleged to be on the property, then it might be appropriate to give the application new consideration.

General Discussion

The Raven Rock Quarry was examined on Nov. 30, 1955 by W. P. Williams and H. L. Burmeister. The Field Team representatives were accompanied by Messrs. Vernon Gatling, Pres., Alvin Gatling, Vice-Pres., and Wendell Keene, an associate of the Gatling brothers. Six hours were spent on the property.

The quarry is located in Delaware Twsp., Hunterdon County, New Jersey and is reached from the Post Office in the village of Stockton, New Jersey by proceeding north on Rt. 29 a distance of 2.7 miles to the indistinct quarry road entering Rt. 29 from the right or north. The quarry lies about 100 yards from Rt. 29 (Fig.1).

Property rights of the applicant are obscure. The application contains a poorly drawn lease on a parcel of land, "adjacent to the Raven Rock Quarry." The lease recites that the land is owned by George Laszlo, but the lease indicates that it was signed by Richard Spurgeon and Joseph Busik, Jr. No signatures appear on the document.

At the time of examination Mr. Vernon Gatling informed the examiners that a completely new and properly drawn lease on the land embracing the quarry had been forwarded to the Washington office on or about Nov. 22, 1955. Neither the new lease or "Consent to Lien" had been received in Washington on Jan. 17, 1956.

The quarry produced only rock and has been idle for years. Old operations apparently consisted of advancing the quarry face into the hill with the floor on the approximate present level of Rt. 29. The quarry road lies on this level. A deeper and presently water-filled portion of the quarry was later excavated along the nearly vertical northern wall (Fig.2).

Exploration work claimed by the applicant includes the removal of 600 cu.yds. of overburden and blasting 1,800 cu.yds. of rock in the east end of the quarry, driving a 25-foot drift and diamond drilling two holes (Fig.2). It is estimated that the visible results of stripping and blasting account for no more than 50% of the amounts claimed. The 25-ft. drift claimed is not to exceed 8 ft. long. No indications of the verbally claimed drill holes were found; no sludge, grease or oil was in evidence.

The applicant proposes to diamond drill 25,000 feet in an unspecified number of holes to reach a mineralized area from 40 ft. to 60 ft. below the surface. Drilling is to be done with two used rigs of unknown make for which the company paid $32,000. It is estimated that at least five similar new machines with accessories could be purchased for this price. Costs for labor, engineering, consultant, administration, and buildings are all unrealistic. The entire application was reviewed with the applicant.

At the time of examination no drill core was available for inspection. It was stated that a new lease had been sent to Washington, and that executed "Consent to Lien" forms, core logs, all results of analysis and a map of the property showing projected work would all be sent to College Park immediately. To January 19, 1956 neither a new lease or any of the above data have been received.

Geology

The Raven Rock Quarry and vicinity are in the Piedmont Plateau Division of the Appalachian physiographic province. The Piedmont Plateau is, generally, a plain of gently rounded hills separated by wide valleys, with some ridges and isolated hills. In northern New Jersey the Piedmont Plateau is underlain almost wholly by Triassic strata and associated volcanic and intrusive igneous rocks. The Triassic rocks in New Jersey consist of red and gray shale and sandstone, black and brown argillite and varicolored conglomerate. These rocks compose the Newark Series and are in three formations which are, in ascending order: the Stockton sandstone, the Lockatong argillite, and the Brunswick shale.

The Raven Rock Quarry is in the Stockton Formation, which is 2,000 to 3,000 feet thick. The quarry is probably in the central or upper third of the formation. Structure of the formation is generally monoclinal with low-angled dip to the northwest. At the quarry the strike of the beds is N.65°E, and the dip is 12° northwest. Locally, broad shallow folds have been developed. The material from which the formation is composed was derived from the disintegration of crystalline rocks.

At the east face of the quarry a nearly vertical thickness of about 40 feet of sandstone is exposed. At the top of the face the arkosic sandstone is gray to grayish tan color, and medium-grained. Main constituents of the rock appear to be quartz and pink and white feldspars. Small amounts of black accessory minerals are probably pyroxene and/or amphibole. Locally, limonitic staining discolors the rock. This bed is 10 to 15 feet thick and overlies thicker-bedded reddish brown sandstone which extends to the quarry floor.

In the north face of the quarry a vertical thickness of about 60 feet of gray to purplish gray, medium-grained sandstone is exposed. The rock is massive and thick-bedded. Two main joint systems at roughly right angles to each other dip about 80° to the souwest and southeast.

At the south quarry face the sandstone is thick and even-bedded and much resembles the rock in the north face. The quarry is roughly U-shaped, with the west side open and providing access to the quarry.

The applicant claimed that abnormally radioactive rock had been present at the top of the east face but that it had been blasted down. Careful examination of the east face and the broken rock below, with the aid of scintillometer and geiger counter failed to disclose any such material.

Careful survey of the entire accessible parts of the quarry resulted in finding two places where the rock gave a radiometric count above the normal background for the vicinity of 0.025 MR/HR.

A spot about 5 feet in diameter was found on the roadway on the floor of the quarry which gave a radiometric count two to three times background. Radioactive material at that place apparently consisted of crushed rock used as road fill. No individual pieces of radioactive rock could be found. The applicant stated a hole had been drilled on the spot, but the collar of the hole could not be found, and no core, drill logs, assays, or other data were available concerning the hole.

The other place where anomalous radioactivity was found is in a small adit in the north face of the quarry. At this place the lower parts of the quarry are filled with water, and a short adit about 8 feet long has been driven with the bottom about 6 inches above water level. In the face of the adit, a thin, red to reddish-gray, fine-grained sandstone and siltstone seam gave a maximum count of 0.50 MR/HR. The seam is about 3 inches thick and pinches out completely toward the walls of the adit. The seam contains abundant pyrite and is much stained in places by brown and yellow limonite. No uranium minerals could be seen in the material by eye alone. Pieces, up to 6 inches in diameter, of the same kind of material were found on the floor of the adit. Selected pieces gave a maximum count of 2.0 MR/HR. The seam appears to be pinching out in the direction the adit is heading because of the discrepancy in present seam thickness and the size of loose material on the floor. The seam is accordant with the bedding and has, therefore, a strike of N. 65° E. and dips about 12° northwest. The total volume of the material in the seam appears to be measurable in a few tens of pounds.

Radiometric and chemical assays of a sample of the most radioactive material gave a value of 0.041 percent equivalent uranium and 0.044 percent uranium - which is far below ore grade.

The applicant stated that a drill hole, collared at the top of the quarry and penetrating the rock behind the adit face afforded 5 feet of core of ore grade. Again, no core or written records for such a hole were produced although asked for.

The applicant further stated that splits of the core from the drill holes had been sent to the Atomic Energy Commission in Washington, D. C. for assay. Mr. Jack Kratchman of the AEC was consulted with regard to the core and to obtain assistance in evaluating the property. Mr. Kratchman had no knowledge of any core from the property and was certain none had been sent.

The occurrence of uranium mineralization in the Raven Rock Quarry and vicinity has been described in U.S.Geological Survey reports TEM 255 and TEIR 414.

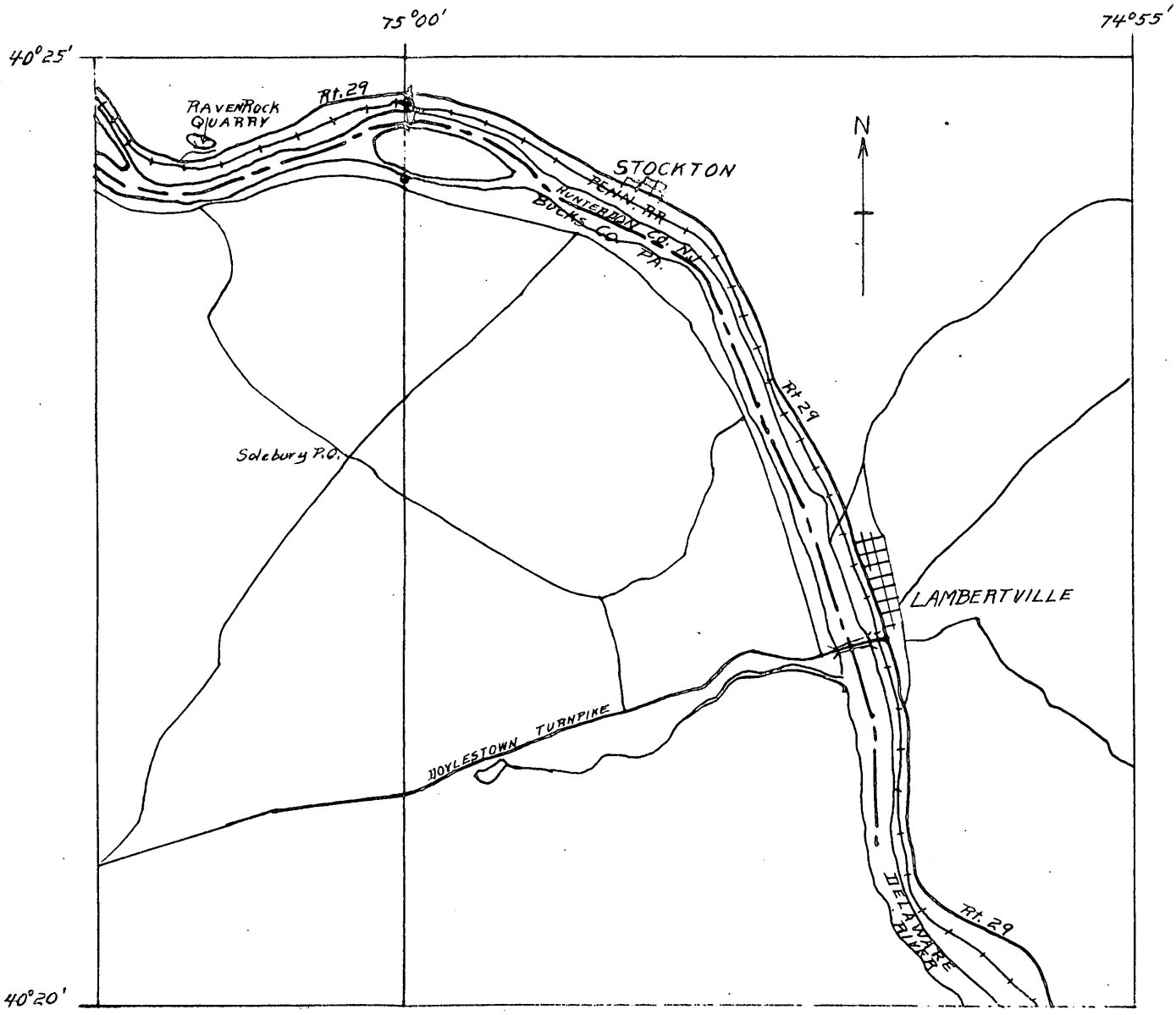
H. L. Burmeister

H. L. Burmeister, Mine Exam.
& Exploration Engr. Bureau of
Mines.

W P Williams

W. P. Williams, Geologist,
U. S. Geological Survey

January 20, 1956



GATLING MINING CO.
HUNTERDON CO., N.J.

DOCKET No. DMEA 4010

U.S.G.S. LAMBERTVILLE N.J.-PA. QUAD.
DOYLESTOWN, PA. QUAD.

U.S.G.S. DEC. 1955

0 miles 1

FIG. 1

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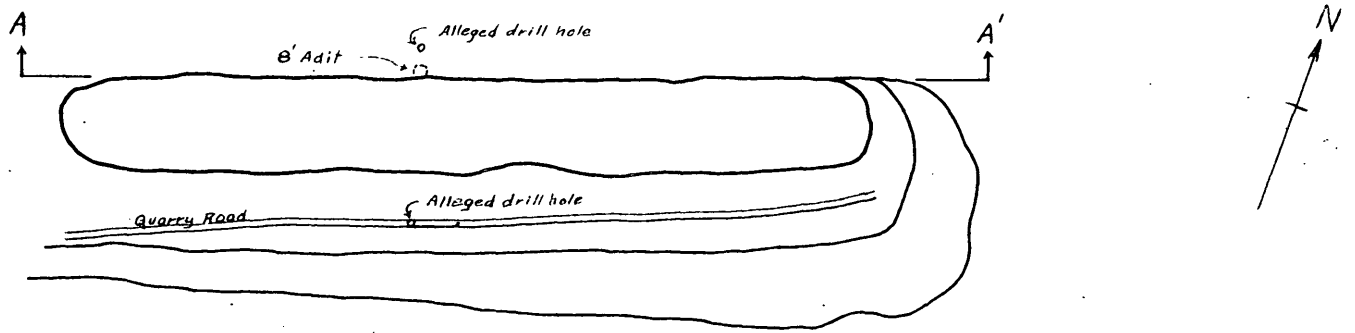
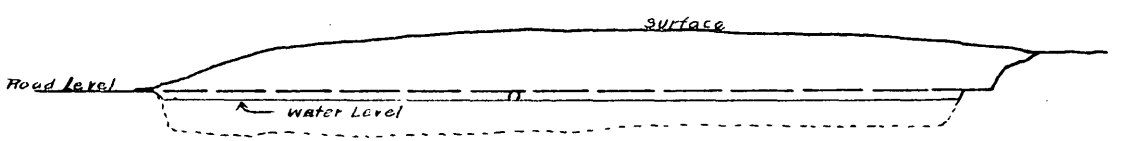
PLAN



SECT. A-A'



GATLING MINING CO.
RAVEN ROCK QUARRY
HUNTERDON CO., N.J.
- SKETCH - Scale about 1"=200'

U.S.B.M. DEC. 1955

FIG. 2

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1/30/56 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
ROOM 1 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

RECEIVED
JAN 30 1956

January 26, 1956

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V - Knoxville, Tennessee

Subject: Field Examination Report - DMEA-4010 (uranium)
Gatling Mining & Development Co., Raven Rock Quarry,
Hunterdon County, New Jersey.

Enclosed are four copies of the subject examination report.

Although the examination was completed on November 30, 1955, preparation of the report has been delayed because the applicants had agreed to send logs, analyses, and other essential data. None of this additional information has been received.

We are in agreement with the examiners' conclusions, and recommend denial of the application.

Robert A. Laurence
EXECUTIVE OFFICER
DMEA REGION V

RAL/sm
cc:
Lynch

L. E. Shirley, for V. J. Lynch,
Member, Bureau of Mines.

Burmeister
Files

Reviewed by
DMEA OPERATING COMMITTEE

(date)

Field Team Report of Examination of Property

by

W. P. Williams and H. L. Burmeister[1]

RECEIVED
JAN 30 1956

DMEA Docket No. 4010 (Uranium)
Applicant: Gatling Mining and Development Co.
To Nov. 20, 1955 - 115 Albany Street, New Brunswick N.J.
After Nov. 20, 1955 - Bisset Place, South River, New Jersey

Reviewed by
DMEA OPERATING COMMITTEE
(date)

Summary, Conclusions, and Recommendations

Careful examination of the Raven Rock Quarry, near Stockton, New Jersey, with scintillometer and Geiger counter disclosed two places where radioactivity was above normal for the surrounding rocks. An area of a few square feet of road fill counted two to three times background count (Fig.2). No economic possibilities exist for the material.

A thin red mudstone seam in a small adit gave a maximum count of 2.0 M./HR (Fig.2). The material, however, gave an assay value of only 0.044 percent uranium. Because the thin seam is lens-like and only a few feet wide, there seems to be only a small volume of the material present.

The application as submitted is completely unsatisfactory. Most of the data required is either furnished with insufficient detail or disregarded entirely and cost estimates are unreasonable. At the time of examination the applicants agreed to submit specific data necessary to revise their application. None of this data has been received to date.

An extensive drilling project, with the holes on very close centers, might succeed in finding more interbedded mudstone seams and lenses. Such a project would, at best, result in the discovery of a few hundred pounds, or perhaps a few tons of material that, assays to date indicate, will have a maximum grade of about 0.045 percent uranium.

1/ W. P. Williams, Geological Survey, H. L. Burmeister, Bureau of Mines.

The applicant has made extravagant claims for the property. Field examination, however, not only does not substantiate his claims but, on the contrary indicates that an exploration project would not result in a worthwhile discovery. For that reason it is recommended that the application be denied. If the applicant can, at some future time, produce reliable data, including core and assays, from the drill holes that are alleged to be on the property, then it might be appropriate to give the application new consideration.

General Discussion

The Raven Rock Quarry was examined on Nov. 30, 1955 by W. P. Williams and H. L. Burmeister. The Field Team representatives were accompanied by Messrs. Vernon Gatling, Pres., Alvin Gatling, Vice-Pres., and Wendell Keene, an associate of the Gatling brothers. Six hours were spent on the property.

The quarry is located in Delaware Twsp., Hunterdon County, New Jersey and is reached from the Post Office in the village of Stockton, New Jersey by proceeding north on Rt. 29 a distance of 2.7 miles to the indistinct quarry road entering Rt. 29 from the right or north. The quarry lies about 100 yards from Rt. 29 (Fig.1).

Property rights of the applicant are obscure. The application contains a poorly drawn lease on a parcel of land, "adjacent to the Raven Rock Quarry." The lease recites that the land is owned by George Laszlo, but the lease indicates that it was signed by Richard Spurgeon and Joseph Busik, Jr. No signatures appear on the document.

At the time of examination Mr. Vernon Gatling informed the examiners that a completely new and properly drawn lease on the land embracing the quarry had been forwarded to the washington office on or about Nov. 22, 1955. Neither the new lease or "Consent to Lien" had been received in Washington on Jan. 17, 1956.

The quarry produced only rock and has been idle for years. Old operations apparently consisted of advancing the quarry face into the hill with the floor on the approximate present level of Rt. 29. The quarry road lies on this level. A deeper and presently water-filled portion of the quarry was later excavated along the nearly vertical northern wall (Fig.2).

Exploration work claimed by the applicant includes the removal of 600 cu.yds. of overburden and blasting 1,800 cu.yds. of rock in the east end of the quarry, driving a 25-foot drift and diamond drilling two holes (Fig.2). It is estimated that the visible results of stripping and blasting account for no more than 50% of the amounts claimed. The 25-ft. drift claimed is not to exceed 8 ft. long. No indications of the verbally claimed drill holes were found; no sludge, grease or oil was in evidence.

The applicant proposes to diamond drill 25,000 feet in an unspecified number of holes to reach a mineralized area from 40 ft. to 60 ft. below the surface. Drilling is to be done with two used rigs of unknown make for which the company paid $32,000. It is estimated that at least five similar new machines with accessories could be purchased for this price. Costs for labor, engineering, consultant, administration, and buildings are all unrealistic. The entire application was reviewed with the applicant.

At the time of examination no drill core was available for inspection. It was stated that a new lease had been sent to Washington, and that executed "Consent to Lien" forms, core logs, all results of analysis and a map of the property showing projected work would all be sent to College Park immediately. To January 19, 1956 neither a new lease or any of the above data have been received.

Geology

The Raven Rock Quarry and vicinity are in the Piedmont Plateau Division of the Appalachian physiographic province. The Piedmont Plateau is, generally, a plain of gently rounded hills separated by wide valleys, with some ridges and isolated hills. In northern New Jersey the Piedmont Plateau is underlain almost wholly by Triassic strata and associated volcanic and intrusive igneous rocks. The Triassic rocks in New Jersey consist of red and gray shale and sandstone, black and brown argillite and varicolored conglomerate. These rocks compose the Newark Series and are in three formations which are, in ascending order: the Stockton sandstone, the Lockatong argillite, and the Brunswick shale.

The Raven Rock Quarry is in the Stockton Formation, which is 2,000 to 3,000 feet thick. The quarry is probably in the central or upper third of the formation. Structure of the formation is generally monoclinal with low-angled dip to the northwest. At the quarry the strike of the beds is N.65°E, and the dip is 12° northwest. Locally, broad shallow folds have been developed. The material from which the formation is composed was derived from the disintegration of crystalline rocks.

At the east face of the quarry a nearly vertical thickness of about 40 feet of sandstone is exposed. At the top of the face the arkosic sandstone is gray to grayish tan color, and medium-grained. Main constituents of the rock appear to be quartz and pink and white feldspars. Small amounts of black accessory minerals are probably pyroxene and/or amphibole. Locally, limonitic staining discolors the rock. This bed is 10 to 15 feet thick and overlies thicker-bedded reddish brown sandstone which extends to the quarry floor.

In the north face of the quarry a vertical thickness of about 60 feet of gray to purplish gray, medium-grained sandstone is exposed. The rock is massive and thick-bedded. Two main joint systems at roughly right angles to each other dip about 80° to the southwest and southeast.

At the south quarry face the sandstone is thick and even-bedded and much resembles the rock in the north face. The quarry is roughly U-shaped, with the west side open and providing access to the quarry.

The applicant claimed that abnormally radioactive rock had been present at the top of the east face but that it had been blasted down. Careful examination of the east face and the broken rock below, with the aid of scintillometer and geiger counter failed to disclose any such material.

Careful survey of the entire accessible parts of the quarry resulted in finding two places where the rock gave a radiometric count above the normal background for the vicinity of 0.025 Mr/HR.

A spot about 5 feet in diameter was found on the roadway on the floor of the quarry which gave a radiometric count two to three times background. Radioactive material at that place apparently consisted of crushed rock used as road fill. No individual pieces of radioactive rock could be found. The applicant stated a hole had been drilled on the spot, but the collar of the hole could not be found, and no core, drill logs, assays, or other data were available concerning the hole.

The other place where anomalous radioactivity was found is in a small adit in the north face of the quarry. At this place the lower parts of the quarry are filled with water, and a short adit about 8 feet long has been driven with the bottom about 6 inches above water level. In the face of the adit, a thin, red to reddish-gray, fine-grained sandstone and siltstone seam gave a maximum count of 0.50 Mr/Hr. The seam is about 3 inches thick and pinches out completely toward the walls of the adit. The seam contains abundant pyrite and is much stained in places by brown and yellow limonite. No uranium minerals could be seen in the material by eye alone. Pieces, up to 6 inches in diameter, of the same kind of material were found on the floor of the adit. Selected pieces gave a maximum count of 2.0 Mr/Hr. The seam appears to be pinching out in the direction the adit is heading because of the discrepancy in present seam thickness and the size of loose material on the floor. The seam is accordant with the bedding and has, therefore, a strike of N. 65° E. and dips about 12° northwest. The total volume of the material in the seam appears to be measurable in a few tens of pounds.

Radiometric and chemical assays of a sample of the most radioactive material gave a value of 0.041 percent equivalent uranium and 0.044 percent uranium - which is far below ore grade.

The applicant stated that a drill hole, collared at the top of the quarry and penetrating the rock behind the adit face afforded 5 feet of core of ore grade. Again, no core or written records for such a hole were produced although asked for.

The applicant further stated that splits of the core from the drill holes had been sent to the Atomic Energy Commission in Washington, D. C. for assay. Mr. Jack Kratchman of the AEC was consulted with regard to the core and to obtain assistance in evaluating the property. Mr. Kratchman had no knowledge of any core from the property and was certain none had been sent.

The occurrence of uranium mineralization in the Raven Rock Quarry and vicinity has been described in U.S.Geological Survey reports TEM 255 and TEM 414.

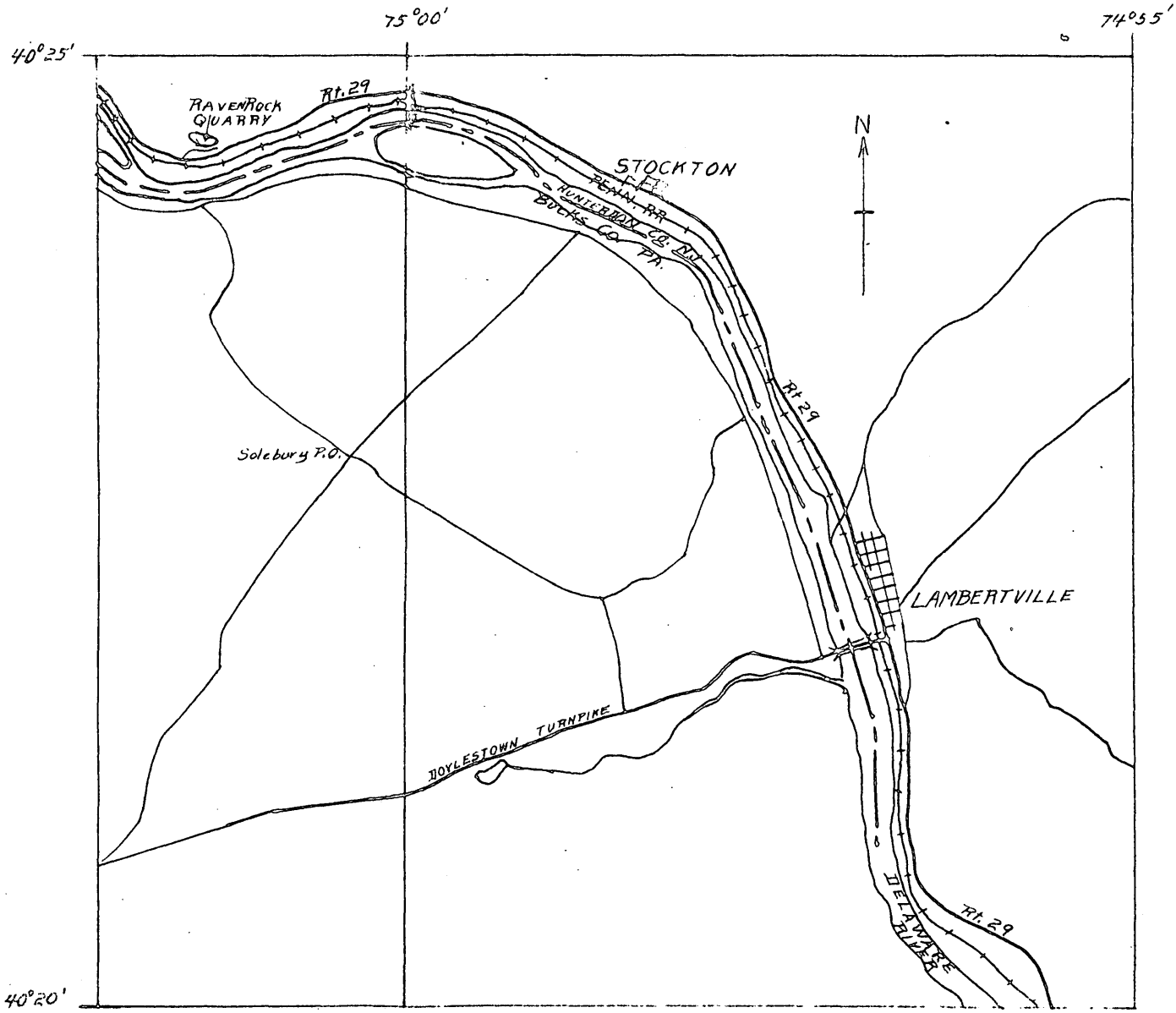
R. L. Burmeister

R. L. Burmeister, Mine Exam.
& Exploration Engr. Bureau of
Mines.

W. P. Williams

W. P. Williams, Geologist,
U. S. Geological Survey

January 20, 1956



GATLING MINING CO.
HUNTERDON CO., N.J.

DOCKET No. DMEA 4010

U.S.G.S. LAMBERTVILLE N.J.-PA. QUAD.
DOYLESTOWN, PA. QUAD.

U.S.G.S. DEC. 1955

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FIG. 1

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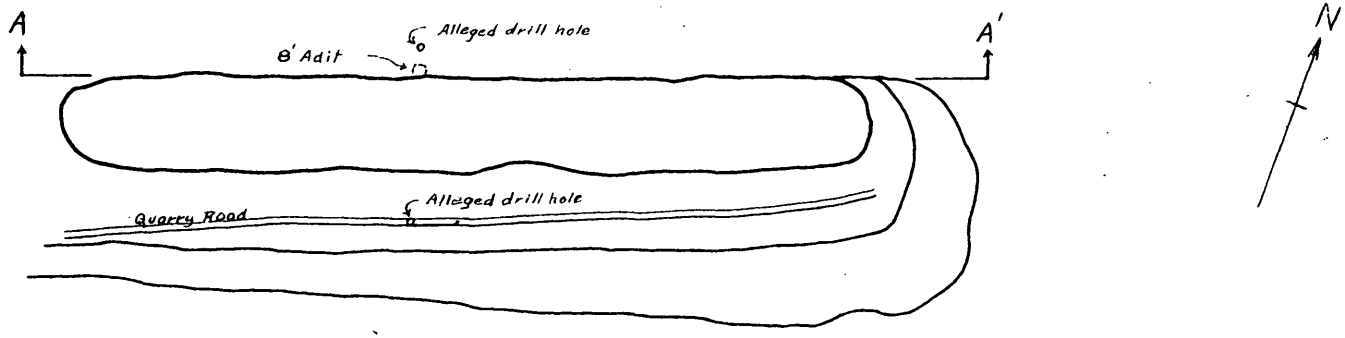

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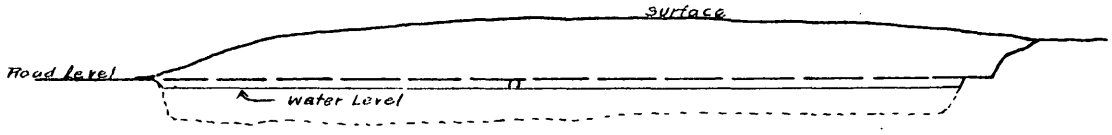

GATLING MINING CO.
RAVEN ROCK QUARRY
HUNTERDON CO., N.J.
- SKETCH - Scale about 1"=200'

U.S.B.M. DEC. 1955

FIG. 2

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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM ASH POST OFFICE BLDG.
KNOXVILLE 2, TENN.

RECEIVED
DEC 16 1955

December 14, 1955

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V - Knoxville

Subject: DMEA-4010 (Uranium) Gatling Mining & Development Co.
Raven Rock Quarry, Hunterdon County, New Jersey

Enclosed are four copies of a memorandum from the Field Examiners, following the November 30, examination of the Raven Rock Quarry.

The examination report will be withheld until the revised application is received. No specific recommendations can be made at this time.

Robert A. Laurence

Robert A. Laurence
Executive Officer, DMEA
Region V

Wm. A. Beck

Wm. A. Beck, Acting Member
Bureau of Mines

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM POST OFFICE BLDG.
KNOXVILLE 2, TENN.

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Executive Officer, DMEA
Region V

Wm. A. Beck, Acting Member
Bureau of Mines

RAL/zm.

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

DEC 14
RECEIVED
DEC 16 1955

Memorandum December 9, 1955

To: V. J. Lynch, Bureau of Mines Member, DMEA Field Team, Region V

From: William P. Williams, Geological Survey
H. L. Burmeister, Bureau of Mines

Subject: Docket No. DMEA 4010 (Uranium), Gatling Mining & Development Co.
Raven Rock Quarry, Hunterdon County, New Jersey

The subject property was visited on November 30 by H.L.Burmeister, Bureau of Mines, and W. P. Williams, Geological Survey. The Field Team representatives were accompanied by Messrs. Vernon Gatling, Pres., Alvin Gatling, Vice Pres. and Wendell Keene, an associate of the Gatling brothers.

The Raven Rock quarry is in the Stockton sandstone of Triassic age. The rock in the quarry is gray to reddish-gray, fine- to medium-grained arkosic sandstone. Careful examination of the quarry with scintillometer and geiger counter revealed two places where anomalous radioactivity was noted. A radiometric count about twice that of background was noted in some sandy, detrital material around the collar of a drill hole. A thin mudstone seam, about 1 to 3 inches thick, at the end of a very short adit gave a radiometric count of about 0.5 MR/HR. The material in the thin seam was sampled and will be assayed for uranium. Core from existing drill holes on the property was not available for inspection.

Much of the data contained in the application are unrealistic, and some that are required were not furnished at all.

The lease accompanying the application is not clear in a number of particulars. The applicants informed the examiners that a completely new lease had been executed and forwarded to the Washington office about November 22. Consent to lien had not been obtained from the property owners. The necessary forms were furnished the applicants who stated that they would be completed at once and submitted.

It was agreed that the applicants would furnish a map of the exploration area indicating the location of two completed core drill holes and the location of proposed DMEA exploration holes. Core from the existing holes was said to have been logged by a Dr. Smith, a professor in geology at Rutgers.

The applicants agreed to furnish copies of core logs and certified copies of all analyses of core and surface samples made to date.

The exploration program and attending costs were completely unrealistic as outlined in the application. All items were reviewed with the applicants and the method of developing a unit cost when using company-owned equipment was explained. There is some reason to believe that drills are not owned by the company. Bids will be obtained from drilling contractors and used to develop a unit cost program.

The applicants wish to submit all of the above-mentioned data to be incorporated in a revised application.

H. L. Burmeister

H. L. Burmeister

W. P. Williams

W. P. Williams

cc: V. J. Lynch (5 copies)
W. T. Millar
W. P. Williams (Room 5225 Int.)
Thos Kiilsgaard

RECEIVED
DEC 16 1955

xxxxxxxxxxxxxxxxx
College Park, Maryland

Memorandum December 5, 1955

To: V. J. Lynch, Bureau of Mines Member, DMEA Field Team, Region V

From: William F. Williams, Geological Survey
H. L. Burmeister, Bureau of Mines

Subject: Docket No. DMEA 4610 (Uranium), Catling Mining & Development Co.
Raven Rock Quarry, Hunterdon County, New Jersey

The subject property was visited on November 30 by H.L.Burmeister, Bureau of Mines, and W. F. Williams, Geological Survey. The Field Team representatives were accompanied by Messrs. Vernon Catling, Pres., Alvin Catling, Vice Pres. and Randel Keene, an associate of the Catling brothers.

The Raven Rock quarry is in the Stockton sandstone of Triassic age. The rock in the quarry is gray to reddish-gray, fine- to medium-grained arkosic sandstone. Careful examination of the quarry with scintillometer and geiger counter revealed two places where anomalous radioactivity was noted. A radiometric count about twice that of background was noted in some sandy, detrital material around the collar of a drill hole. A thin mudstone seam, about 1 to 3 inches thick, at the end of a very short adit gave a radiometric count of about 0.5 Mr/hr. The material in the thin seam was sampled and will be assayed for uranium. Core from existing drill holes on the property was not available for inspection.

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The applicants wish to submit all of the above-mentioned data to be incorporated in a revised application.

H. L. Burmeister

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W. E. Williams

W. E. Williams

cc: V. J. Lynch (5 copies)
W. T. Millar
W. F. Williams (Acct. 2285 Int.)
Thos Hillegaard

RECEIVED

DEC 16 1955

xxxxxxxxxxxxxxxxx
College Park, Maryland

Memorandum December 5, 1955

To: W. J. Lynch, Bureau of Mines Member, Field Team, Region V

From: William L. Williams, Geological Survey
H. L. Burmeister, Bureau of Mines

Subject: Docket No. [illegible] 4010 (Uranium), Catling Mining & Development Co.
Raven Rock Quarry, Hunterdon County, New Jersey

The subject property was visited on November 30 by H.L.Burmeister, Bureau of Mines, and W. L. Williams, Geological Survey. The Field Team representatives were accompanied by Messrs. Vernon Catling, Pres., Alvin Catling, Vice Pres. and Mandel Keene, an associate of the Catling brothers.

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It was agreed that the applicants would furnish a map of the exploration area indicating the location of two completed core drill holes and the location of proposed LMA exploration holes. Core from the existing holes was said to have been logged by a Dr. Smith, a professor in geology at Rutgers.

The applicants agreed to furnish copies of core logs and certified copies of all analyses of core and surface samples made to date.

The exploration program and attending costs were completely unrealistic as outlined in the application. All items were reviewed with the applicants and the method of developing a unit cost when using company-owned equipment was explained. There is some reason to believe that drills are not owned by the company. Bids will be obtained from drilling contractors and used to develop a unit cost program.

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W. R. Williams

W. R. Williams

cc: V. J. Lynch (5 copies)
W. T. Miller
W. R. Williams (Room 2425 Int.)
Thos Hillsgaard

RECEIVED
DEC 16 1955

xxxxxxxxxxxxxxxxxx
College Park, Maryland

Memorandum December 9, 1955

To: V. J. Lynch, Bureau of Mines Member, DMEA Field Team, Region V

From: William F. Williams, Geological Survey
H. L. Burmeister, Bureau of Mines

Subject: Docket No. DMEA 4010 (Uranium), Gatling Mining & Development Co.
Raven Rock Quarry, Hunterdon County, New Jersey

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H. L. Burmeister

H. L. Burmeister

W. P. Williams

W. P. Williams

cc: V. J. Lynch (5 copies)
W. T. Miller
W. P. Williams (Room 5225 Int.)
Thos. Kiilsgard

Surname copy

700

Ching
Ely
Selfridge
Hetherington
Hetherington

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

NOV 17 1955

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
Room No. 13, P. O. Building
Knoxville 2, Tennessee

Re: Docket No. DMEA-4010 (Uranium)
Gatling Mining and Development Company
Raven Rock Quarry
Hunterdon County, New Jersey

Dear Mr. Laurence:

Reference is made to the above-docketed application which was referred to you with our letter of November 4, 1955, for investigation, a field examination if warranted, and recommendation.

We are quoting below the contents of Mr. Alvin Gatling's letter, dated November 14, which was received in reply to our inquiry of November 10 requesting that we be advised of the Applicant's correct office address for direction of mail in the future:

"Kindly forward all correspondence of Gatling Mining and Development Co. Inc. to: Bissett Place, South River, New Jersey."

Sincerely yours,

By EST

Chairman, Operating Committee

APPROVED:

By EST

Member, Bureau of Mines

By EST

Member, Geological Survey

MChing/gla
11-15-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Ching

R.C.S.

Gatling Mining and Development Co., Inc.

NEW JERSEY
115 ALBANY STREET
NEW BRUNSWICK, N. J.

COLORADO
FIRST NATIONAL BANK
GRAND JUNCTION, COLO.

RECEIVED
NOV 16 1955

November 14, 1955

Mr. Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division
U.S. Dept. of the Interior
Defense Minerals Exploration Administration
Washington 25, D.C.

Dear Mr. Ellis:

Thank you very much for forwarding our correspondence of Nov. 4th.

We are in the process of changing our office and undoubtedly the post office did not take note of the change of address notification.

Would you be so kind as to forward all future correspondence to Bissett Place, South River, New Jersey.

Thank you again for forwarding this correspondence.

Respectfully yours,
Vernon Gatling
Vernon Gatling, President
GATLING MINING & DEVELOPMENT CO. INC.

VG/aag

Gatling Mining and Development Co., Inc.

NEW JERSEY
115 ALBANY STREET
NEW BRUNSWICK, N. J.

COLORADO
FIRST NATIONAL BANK
GRAND JUNCTION, COLO.

4010

November 14, 1955

Mr. Frank E. Johnson, Acting Administrator
Defense Minerals Exploration Administration
United States Department of the Interior
Washington 25, D.C.

Dear Mr. Johnson:

Kindly forward all correspondence of Gatling Mining and Development Co. Inc to: Bissett Place, South River, New Jersey.

Thank you.

Yours very truly,

Alvin Gatling

Alvin Gatling, Secretary
GATLING MINING AND DEVELOPMENT CO. INC.

AG/elh

Surname copy

700

Ching
Ellis
Mattendorf

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

NOV 10 1955

Mr. Vernon Gatling, President
Gatling Mining and Development Company, Inc.
Bissett Place
South River, New Jersey

Re: Docket No. DMEA-4010 (Uranium)
Raven Rock Quarry
Hunterdon County, New Jersey

Dear Mr. Gatling:

Forwarded herewith is our letter of November 4, 1955, concerning the captioned application, which was directed to you at 115 Albany Street, New Brunswick, New Jersey, the address shown on your application and your letterhead as the New Jersey office of your Company. The letter was returned to this office and you will note that the envelope has been marked by the Post Office as "Out of Bus.".

We would appreciate being advised by return mail as to your correct office address in order that future mail will reach you promptly.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

MChing/gla
11/9/55
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, OSA
Code 700
Mr. Ching
DMEA Field Team, Region V (2)

R.C.

Surname Copy
700

Ching
Eli
Keehen
Kilegaard
Selfridge

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

NOV - 4 1955

Mr. Vernon Gatling, President
Gatling Mining and Development Company, Inc.
115 Albany Street
New Brunswick, New Jersey

Re: Docket No. DMEA-4010 (Uranium)
Raven Rock Quarry
Hunterdon County, New Jersey

Dear Mr. Gatling:

The application for assistance in exploring the subject property in Hunterdon County, New Jersey, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to the Executive Officer of Region V at the following address:

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
Room No. 13, P. O. Building
Knoxville 2, Tennessee

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

Sincerely yours,

Frank E. Johnson

Administrator

MChing/izm
11/3/55
cc to: Admr. Reading File
Docket
Code 700
Mr. Ching
DMEA Field Team, Region V (2)

R.C.

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

NOV 4 1955

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
Room No. 13, P. O. Building
Knoxville 2, Tennessee

Re: Docket No. DMEA-4010 (Uranium)
Gatling Mining and Development Company
Raven Rock Quarry
Hunterdon County, New Jersey

Dear Mr. Laurence:

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

Enclosed are two copies each of memoranda by James Paone, USBM, dated October 14, and W. P. Williams, USGS, dated October 25, 1955.

Also enclosed are two copies of a memorandum, dated October 31, 1955, by the Associate Solicitor, Division of Mineral Resources, discussing the adequacy of the mining lease attached to the application.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

/s/ Robert W. Geehan

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

MChing/izm
11/2/55
cc to: Admr. Reading File
Operating Committee
Docket
Code 700
Mr. Ching
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

Surname Copy
700

Ching
Elly
Selfridge
Johnson

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

NOV - 4 1955

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
Room No. 13, P. O. Building
Knoxville 2, Tennessee

Re: Docket No. DMEA-4010 (Uranium)
Gatling Mining and Development Company
Raven Rock Quarry
Hunterdon County, New Jersey

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Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

/s/ Robert W. Gesham (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

MChing/izm
11/2/55
cc to: Admr. Reading File
Operating Committee
Docket
Code 700
Mr. Ching
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.C.S.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

OCT 31 1955

Memorandum

To: The Administrator, DMEA
Attention: Chief, Rare and Miscellaneous Metals Division

From: Associate Solicitor, Division of Mineral Resources

Subject: Adequacy of mining lease attached to Application of Gatling Mining and Development Company, Inc. (Docket No. DMEA-4010)

This responds to your request of October 20 as to the adequacy of the mining lease on the basis of which the Gatling Mining and Development Company, Inc. has applied for an Exploration Project Contract. The copy of the mining lease attached to the file is dated September 28, 1955.

The lease purports to be a lease of "that property belonging to George Laszlo adjacent to the Raven Rock Quarry being approximately a mile and one quarter north of Stockton, New Jersey, on the Raven Rock Road." The lease is made by one Richard Spurgeon of Center Point, Pennsylvania, and one Joseph Busik, Jr. of Point Pleasant, Pennsylvania, as co-landlords. If the property belongs to a person named George Laszlo, it is not apparent how Messrs. Spurgeon and Busik have the right to grant a mining lease thereon.

The lease provides that it "shall remain in full force and effect until such time as prospecting and exploration and/or the ore is exhausted." It further provides that "If ore is found on the premises, the parties hereby agree to form a new company to mine and extract the minerals . . ." An additional paragraph provides that "If the tenant, upon termination of prospecting, decides that ore does not exist in commercial quantity, this agreement shall be terminated." The lease appears to be for a term adequate to cover the period of exploration, but it is questionable whether it is sufficient to cover the period of production and payment of royalty. Hence a contract may be made only if the owner files a

Consent to Lien. DMEA Circular 20 (Revised March 24, 1955) states that ordinarily the Government does not waive the protection of such Consent to Lien.

If the phrase "property belonging to George Laszlo adjacent to the Raven Rock Quarry" is intended to describe only such property as continues to belong to George Laszlo, it may be that the area covered by the lease would be subject to diminution if Mr. Laszlo sold any portion of it. On the other hand, if the phrase is intended to apply to a tract which is specifically identifiable and known as "belonging to George Laszlo," the description of the land may be adequate.

It should also be pointed out that the first sentence in the WITNESSETH clause purports to state that the "tenant" is making the grant of the lease. Undoubtedly, the word "tenant" should have read "landlord."

In view of the foregoing, it is suggested that the ambiguities here noted be clarified and a memorandum thereon placed in the Docket file.

Robert P. Dwyer

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

Judrich Duryea

Memorandum

OCT 31 1955

To: The Administrator, DMEA
Attention: Chief, Rare and Miscellaneous Metals Division

From: Associate Solicitor, Division of Mineral Resources

Subject: Adequacy of mining lease attached to Application of Gatling Mining and Development Company, Inc. (Docket No. DMEA-4010)

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Robert P. Dwyer

PIndritz/wog

Copy to: DMEA Docket
Solicitor's Docket
E. W. Ellis (2)
G. C. Selfridge
R. P. Dwyer
P. Indritz
chron.

10/26/55-gla

IN REPLY REFER TO:

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

RECEIVED
OCT 25 1955

October 25, 1955

Memorandum

To: E. W. Ellis
Defense Minerals Exploration Administration

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

Subject: Review of application, DMEA 4010, Gatling Mining and Development Co., Inc., Raven Rock Quarry, Hunterdon County, New Jersey.

The applicant proposes to spend $242,000 on an exploration project for uranium ore. The project would consist of 25,000 feet of core drilling and sinking a 100 foot shaft.

The property has been visited by members of the U. S. Geological Survey. Results of past inspections are in Trace Elements Memorandum 255 and Trace Elements Investigation Report 414. None of the several representative samples taken by the USGS were of ore grade. Very small, carefully selected samples may assay well above ore grade. There is not enough high grade material present, however, to delineate a potential ore zone or exploration target.

The uranium mineralization is found in the Stockton sandstone of Triassic age. Torbernite is known in the area, while some of the best material consists of uranium minerals associated with pyrite in sandstone.

Very small, extremely local occurrences of uranium minerals have been known in the New Jersey highlands for at least twenty years. The applicant has not demonstrated that exploration work on the property has a reasonable chance of discovering a significant uranium ore body.

I believe the application should be denied without prejudice until more work is done on the property. A Field examination, however, may be desirable in the interests of public relations.

W P Williams

W. P. Williams

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

RECEIVED
OCT 25 1955

October 25, 1955

Memorandum

To: E. W. Ellis
Defense Minerals Exploration Administration

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

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I believe the application should be denied without prejudice until more work is done on the property. A Field examination, however, may be desirable in the interests of public relations.

W. P. Williams

cc: DMEA (3)

Surname copy 700

Ching
Ellis

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

October 20, 1955

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Michael Ching, Mining Engineer
Rare and Miscellaneous Metals Division, DMEA

Subject: Docket No. DMEA-4010 (Uranium)
Gatling Mining and Development Co., Inc.
George Lemale Property
Hunterdon County, New Jersey

Will you kindly determine the adequacy of the Mining Lease attached to the subject application for the purposes of an exploration project.

Michael Ching

MChing/gla
cc to: Docket
Code 700, Mr. Ching

10/17/55 gla

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

RECEIVED
OCT 14 1955

October 14, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

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

Subject: Application for Assistance, DMEA Docket 4010, Gatling Mining and Development Co., Inc., Hunterdon County, New Jersey

I have reviewed the attached application, Gatling Mining and Development Co., Inc., DMEA Docket 4010; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The Gatling Mining and Development Co., Inc., has applied for Government aid to explore for uranium in Hunterdon County, in the Raven Rock Quarry, which is about 1¼ miles from Stockton, New Jersey.

The applicant has not outlined a specific exploration program with a definite target. Some proposed drill holes are shown on a crudely drawn map, but no mention is made of depth or spacing of drill holes. The total estimated cost is $242,000.00.

Although the property warrants some exploration work, the project proposed by the applicant is too costly and too elaborate, in view of the lack of geologic data and the lack of a definite exploration plan. The estimate of costs seems out of order. For example, the applicant is letting independent contractors do the drilling and shaft sinking for $92,250.00, yet an additional $50,000.00 is charged to operating materials, supplies, and equipment.

We recommend that the application be sent to the Field Team for review, and that they consult with Jack Kratchman, Atomic Energy Commission, Washington, D. C.

James Paone
James Paone

Attachment

FILE COPY
SURNAME:

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

OCT 14 1955

Hon. H. Alexander Smith
United States Senate
Washington 25, D. C.

Re: Docket No. DMEA-4010 (Uranium)
Gatling Mining & Development Co.
Raven Rock Quarry
Hunterdon County, New Jersey

My Dear Senator Smith:

Reference is made to your letter of October 12, 1955, concerning the application of the Gatling Mining & Development Company, for Government financial aid to explore for uranium in Hunterdon County, New Jersey.

This application was received on October 10, 1955 and assigned the docket number shown above. It is now being reviewed by our Commodity Committee members. We expect that in a very short time the application will be referred to our field engineers for review and possibly a field examination. Mr. Vernon Gatling will be informed promptly regarding such referral.

I trust this is the information you desire.

Sincerely yours,

Frank E. Johnson

Acting Administrator

EWEllis/FEJohnson/gla/bih
10/14/55
cc to: Docket
Admr. Reading File
DMEA Field Team, Region V (2)
Messrs. J.W.Crawford - Room 3641
J.O.Hosted - Room 3210 GSA
T.H.Kiilsgaard - Room 5224
E. W. Ellis

700

Dmea-4010

LISTER HILL, ALA., CHAIRMAN

JAMES E. MURRAY, MONT.
MATTHEW M. NEELY, W. VA.
PAUL H. DOUGLAS, ILL.
HERBERT H. LEHMAN, N. Y.
JOHN F. KENNEDY, MASS.
PAT MCNAMARA, MICH.

H. ALEXANDER SMITH, N. J.
IRVING M. IVES, N. Y.
WILLIAM A. PURTELL, CONN.
BARRY GOLDWATER, ARIZ.
GEORGE H. BENDER, OHIO
GORDON ALLOTT, COLO.

STEWART E. MCCLURE, STAFF DIRECTOR

United States Senate

COMMITTEE ON
LABOR AND PUBLIC WELFARE

October 12, 1955

RECEIVED
OCT 13 1955

Dear Mr. Mittendorf:

I am writing to you with reference to an application filed by Mr. Vernon Gatling, President of the Gatling Mining and Development Company of 115 Albany Street, New Brunswick, New Jersey, for an exploratory loan.

Any consideration which you can extend to expediting action on this application will be appreciated by me and I will look forward to hearing from you as to the present status of the matter.

With many thanks for your kind attention to this request, I remain

Always cordially yours,

H. Alexander Smith

Mr. C. O. Mittendorf
Administrator
Defense Minerals Exploration Adm.
Department of the Interior
Washington 25, D. C.

HAS:T

October 11, 1955

Subject: DMEA 4010
Re: Exploration Assistance
Raven Rock Quarry

Gatling Mining and Development Co.Inc.
115 Albany Street
New Brunswick, New Jersey

Gentlemen:

The receipt of your application dated October 10, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 4010 and referred to the Rare & Miscellaneous Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

RECEIVED
OCT 10 1955

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER 1, UNDER

THE DEFENSE PRODUCTION

ACT OF 1950

AS AMENDED

(New Jersey Exploration Project)

Gatling Mining And Development Co. Inc,
115 Albany Street
New Brunswick, New Jersey

Gatling Mining and Development Co., Inc.

NEW JERSEY
115 ALBANY STREET
NEW BRUNSWICK, N. J.

COLORADO
FIRST NATIONAL BANK
GRAND JUNCTION, COLO.

October 10, 1955

RECEIVED
OCT 10 1955

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

Dear Sir:

We are submitting with this letter our Application For Aid In An Exploration Project, Pursuant to DMEA Order 1, Under the Defense Production Act of 1950, as amended.

This project is located in Hunterdon County, New jersey. This area has been throughly prospected by the Company since 1953 and some exploratory work has been done by us, much remains to be done.

I trust that the application merits the approval of the Defense Minerals Exploration Administration.

Respectfully yours,

Vernon Gatling

Vernon Gatling, President
GATLING MINING AND DEVELOPMENT Co.Inc.

VG/aag
Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
OCT 10 1955

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

Not to be filled in by applicant

Docket No. DMEA 4010
Metal or Mineral Uranium
Date Received 10-10-55
Estimated Cost 242,000
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: Gatling Mining And Development Co. Inc.
~~115 Albany Street~~
~~New Brunswick, New Jersey~~
see letter 11/14/55
Bissett Place
South River New Jersey

(*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. see page 1

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. see page 1

(*d*) If a partnership, add to the above statement the names and addresses of all partners. see page 1

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

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

(*b*) State any mine name by which the property is known. see page 2

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise see page 2

(*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. see page 2, 11-12

(*e*) If you own the land, describe any liens or encumbrances on it see page 2

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. see page 2

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 2

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. see page 2-3

(*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. see page 3, 9-10

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. see page 3

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. see page 3

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore see page 3

(*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. see page 13

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract. see page 3

(*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 4

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 5

(*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 5

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. see page 5

(*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 5

(*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. SEE page 5

(*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. see page 5

(*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 6

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. see page 6

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

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

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

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated October 10, 1955, 195...

Gatling Mining And Development Co. Inc.
(Applicant)

By Vernon Gatling President
Vernon Gatling

Alvin Gatling Vice Pres-Treasurer
Alvin Gatling

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

Gatling Mining and Development Co., Inc.

NEW JERSEY
115 ALBANY STREET
NEW BRUNSWICK, N. J.

COLORADO
FIRST NATIONAL BANK
GRAND JUNCTION, COLO.

RECEIVED
OCT 10 1955

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

1. Name of Applicant

   (a) Gatling Mining And Development Co. Inc.
   115 Albany Street
   New Brunswick, New Jersey

   (b) A New Jersey Corporation

   (c) Director-President
   Vernon Gatling: Bissett Place, South River, New Jersey

   Director-Vice President-Treasurer
   Alvin Gatling: 6 Little Martin Street, South River, New Jersey

   Executive Vice President
   John Pleskun: 66 Hillside Avenue, South River, New Jersey

   Director-Secretary
   Merrill E. Richardson: 105 Atkins Avenue, Asbury Park, New Jersey

2. Applicant's Property Rights

   (a) The applicant's Property Rights embraces the property known and described as the Raven Rock Quarry and George Laszlo's property, being a mile and one quarter north of Stockton, New Jersey on the Raven Rock Road. It is located in Hunterdon County. The property in approximately four hundred acres in area.

   The Proposed exploration described herein will extendd the present information concerning the geology of the entire Piedmont Belt which runs for miles through western New Jersey and South Eastern Pennslyvania. Preliminary study of this belt has been made

by the Atomic Energy Commission and the United States Geological Survey.

(b) Inapplicable

(c) The Company is lessee with mining rights.

(d) A copy of the lease is submitted herewith.

(e) Inapplicable

(f) Inapplicable

4. Physical Description

(a) Over a period of two anda half years the Company has carried out the following exploratory operations:

(1) driven a 25 foot drift in a weathered outcropping which extends roughly 800 feet across the quarry face.

(2) Taken channel samples along the outcropping and quarry face.

(3) Blasted 48,000 cubic feet from the face of the quarry

(4) Excavated 16,000 cubic feet of overburden from the top of the quarry.

(5) Made a radiometric survey of the entire area with geiger counters scintillation counter.

The drift can be examined by crossing a creek approximately 75 feet wide and 30 feet deep. The outcroppings are easily accessible by foot.

(b) There has been no production to date and ore reserves, if any, are

undetermined. Approximately 2 tons of ore has been extracted by hand methods over a 2 year period.

(c) Samples* taken from the drift and outcroppings have been identified as weathered pitchblende being hydrothermal in origin. The intrusion is in the light samples of sandstone and varies from 3 to 7 inches in thickness. The vein dips about 14 degrees and should be relocated at a depth from the surface of 40 to 60 feet. The actual geological fo formation appears identical to that of the Happy Jack Mine in Colorado.

(d) The property is easily accessible by motor vehicle. New Jersey highway #29 going north out of Stockton, New Jersey goes directly pass the quarry. The quarry begins just where the asphalt road ends and highway #29 becomes a dirt road.

(e) Availability of the following is very good:

1. Manpower
2. materials
3. supplies
4. equipment
5. water
6. Power

5. <u>The Exploration Project</u>

(a) The Company wishes to explore for uranium ore.

(b) See map

(c) The work will start within 15 days and be completed within 8 months

* See AEC report contained herein

from the date of an exploration project contract.

(d) Operation experience and background of applicant: The chief officers of the Company (President and Secretary Treasurer) have been engaged actively in exploration and mining of uranium for four years. They have conducted aerial surveys in New Jersey and the West, (the President is a licensed pilot). The Lambertville Quarry Company of New Jersey has contracted their services as consultants in contemplated drilling operations by that company. Gatling Mining and Development Co. Inc. has surveyed by foot and by motor vehicle hundreds of miles in North Jersey and West Jersey from February of 1951. As a result of its work other companies have become interested in the exploration for uranium ore in New Jersey.

The Company plans to employ the services of Dr. Phillip L.Merritt, Director, Senior Geologist, E.J. Longyear Co., Assistant Director, Division of Raw Materials in charge of exploration, U.S. Atomic Energy Commission (1947-1954). Chief of Raw Materials, Manhattan Project, Corps of Engineers, U.S. Army (1942-46)

Gatling Mining and Development Co., Inc.

NEW JERSEY
115 ALBANY STREET
NEW BRUNSWICK, N. J.

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6. **Estimate of costs**

(a) Independent Contracts:	
Core Drilling (25,000' @ 3.25/ft, average depth 200')	$81,250
Core Boxes (@ .20/ft)	5,000
Exploratory Shaft (100' deep, 4 X 8 @ $60/ft)	6,000
(b) Labor, supervision, consultants:	
Laborers (2 unskilled @ $60/wk)	3,840
Laborers (2 skilled @ 80/wk)	5,120
Geology Consultants ($100/dy, average 2 dy per wk)	6,400
Engineer ($250/wk)	8,000
General Forman ($125.00/wk)	4,960
(c) Operating materials and supplies:	
Picks, shovels, hand augers, etc.	225
Water pump (6 in.)	520
Fuel and oil ($60/wk)	1,920
(d) Operating equipment: furnished by applicant	
2 diamond core drilling rigs & accessory equipment	32,000
3/4 ton truck	1,200
Trailer, Laboratory, field office	3,000
Nuclear instruments	1,500
Labor	10,000
(e) Rehabiliation and repairs:	
Repair to existing building	3,000
(f) New buildings, improvements, installations:	
Core shack	520
Building for equipment	1,250
(g) Miscellaneous:	
Assaying (field)	1,500
Administration	8,000
Liability Insurance	1,200
Equipment	1,295
(h) Contingencies:	
Contingencies	30,000
	$242,000 ?
	$ 217,700

Gatling Mining and Development Co., Inc.

NEW JERSEY
115 ALBANY STREET
NEW BRUNSWICK, N. J.

COLORADO
FIRST NATIONAL BANK
GRAND JUNCTION, COLO.

7. (a) The applicant is preparedto furnish its share of the cost of the proposed project in accordance with the regulations on Government participation.

(b) The applicant will furnish $72,000 in labor and equipment.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner or otherwise, both in his own behalf and acting forthe 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..October.10....., 1955

Gatling Mining And Development Co. Inc.
Applicant

By Vernon Gatling President
Vernon Gatling

Alvin Gatling Vice President
Alvin Gatling Treasurer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
OCT 10 1955

August 16, 1954

Mr. Vernon Gatling
Bissett Place
South River, New Jersey

Dear Mr. Gatling:

The material you sent has been examined in this laboratory.

Your material approximate weight 2 lbs., has been given the number RW-6601. It consists of sandstone with pyrite. This sample contains 0.20% uranium. This assay was made for the Atomic Energy Commission and is being sent to you at the Commission's specific request. Should the material represented by this sample occur in sufficiently large tonnages the deposit may be of commercial interest. The enclosed circulars explain the specifications as to grade and quantity set forth by the Atomic Energy Commission for mine and concentration products.

The Geological Survey would appreciate receiving any further information concerning the exact location, size, and type of deposit from which the sample was taken. A form and a stamped envelope are enclosed for your convenience in recording and forwarding this information to Mr. Q.D. Singewald. Such information will be held in strict confidence and will not be revealed to unauthorized persons. If, upon receipt of such information, further investigation seems warranted, the Geological Survey would be interested in arranging to make a brief examination of the locality for uranium when a field party is available.

Additional samples to be examined for radioactivity should be sent to the U.S. Geological Survey Laboratory, Building 213 Naval Gun Factory Washington 25, D.C. Thank you for sending this material. We would like to retain a small part of this material: The rest will be held for 30 days from the date of this letter when it will be discarded unless you wish it returned.

Sincerely yours,

(Signed Hugh H. Waesche CJS)

Hugh H. Waesche, Liaison Officer
Atomic Energy Commission Program
Geochemistry and Petrology Branch

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
COLLEGE PARK, MARYLAND

RECEIVED
OCT 10 1955

October 7, 1955

Gatling Mining and Development Co., Inc.
115 Albany Street
New Brunswick, New Jersey

Attention: Mr. Vernon Gatling, President

Dear Mr. Gatling:

The eight samples from New Jersey you brought to this station yesterday have been examined petrographically and were tested for radioactivity.

The results are as follows:

No. 1 is an uranium-bearing carbonaceous material, with associated carnotite having a radioactivity of 7.0% equivalent uranium.

No. 2 is a calcareous sandstone with a radioactivity of 0.30% equivalent uranium.

No. 3 is a silicious or sandy limestone with a radioactivity of 0.05% equivalent uranium.

No. 4 is a calcareous, hematitic, feldspatic sandstone with chalcopyrite and a radioactivity of 1.4% equivalent uranium.

No. 5 is similar to No. 4 with a radioactivity of 0.52% equivalent uranium.

No. 6 is a feldspatic sandstone with a radioactivity of 0.01% equivalent uranium.

No. 7 is similar to No. 6 with a radioactivity of 0.006% equivalent uranium.

No. 8 is similar to Nos. 4 and 5 with less chalcopyrite and a radioactivity of 1.5% equivalent uranium.

Fluorescent bead tests and other techniques indicate that this radioactivity is due essentially to uranium.

A copy of this letter is being sent to the U. S. Atomic Energy Commission, Division of Raw Materials, Washington 25, D. C. for their future reference.

Sincerely yours,

P. M. Ambrose

P. M. AMBROSE, Superintendent
Eastern Experiment Station

ATOMIC ENERGY COMMISSION REPORT ON
RAVEN ROCK QUARRY
AT STOCKTON, N.J.

RECEIVED
OCT 10 1955

A roughly tabular copper-uranium-iron-manganese mineralized zone 10 feet wide, the longer exposed dimension of which trends N-30 degrees W, extends through the ridge from quarry face to quarry face but is absent on the quarry floors, sandstones and shales within this zone are light to reddish-gray. The joint surfaces within the mineralized zone are coated with manganese stains, hematite, limonite films, boxwork structures and in places with tobernite and muscovite. The rock within the zone averages about 0.009%uranium with a few small spots containing up to 1.24% uranium.

Taking surface measurements of the most highly radioactive part of the mineralized zone as 25 feet high by 60 feet long and 10 feet wide and taking 160 pounds as the weight per cubic foot of sandstone, there is estimated to be 1,000 tons of rock containing 0.009% uranium or 180 pounds of uranium ore.

The mineralogy suggests a possible hydrothermal origin, and primary uranium minerals may exist below the zone of oxidation, beneath the ridge. Exploratory drilling might extend knowledge of the mineralized zone.

Background on the meter was 1-2 divisions on the 2.0 scale, with the 2-X-20 inch gamma probe 1-2 divisions on the 0.2 scale with the beta gamma probe. A reading of 2-4 scale divisions with either probe indicated an equivalent uranium content of 0.001%.

I. Survey by car showed 2-3 times background count.

II. Uranium deposits may be present in the Piedmont belt and flanking sedimentary rocks.

CONCLUSIONS:

"...the relative high level of radioactivity in south eastern Pa. and western New Jersey as compared with other areas studied in the North East states, the presence of tobernite at Stockton, New Jersey and the radioactive minerals at Easton, Pennsylvania suggest that this section of the Piedmont belt and the flanking sediments are worthy of additional study as areas that may contain potential economic deposits of thorium and uranium minerals. The Geological Survey plans to do this study and work."

Dec. 1951, TEM-255

Table I —— SUMMARY OF INFORMATION ON SAMPLES COLLECTED AT RAVEN ROCK QUARRY BY THE U.S. GEOLOGICAL SURVEY.

Type of Material	Locality	Equivalent U	Chemical U %
sandstone	1/2 mi N. of	0.033	0.029
sandstone	stockton	0.033	0.029
sandstone	on railroad	0.002	0.090
sandstone	on railroad	0.004	0.094
Flourescent sandstone	on railroad	0.004	0.002
Flourescent water	from lake	0.099	0.085

MINING LEASE

THIS AGREEMENT, made and entered into this 28th day of September, 1955 by and between GATLINC MINING AND DEVELOPMENT CO. INC. of 115 Albany street New Brunswick, New Jersey AND Richard Spurgeon of Center Point Pennslyvania and Joseph Busik, Jr. of Point Pleasant, Pennslyvania, parties of the second part, hereinafter called the "Landlord".

WITNESSETH: That the said tenant, for and in consideration of one dollar (1.00) cash in hand paid, receipt of which is hereby acknowledged. Hereby does grant, lease, and let unto the said tenant for the sole and only purpose of prospecting for, mining and milling, storing, taking out and removing ores containing uranium and other valuable minerals, from said premises on that certain tract, piece or parcel of land situated in the township of Deleware and of Hunterdon and State of New Jersey, described as follows: That property belonging to George Lasalo adjecent to the Raven Rock Quarry being approximately a mile and one quarter north of Stockton, Nerw Jersey on the Raven Rock rOad.

IT IS FURTHER AGREED THAT, this lease shall remain in full force and effect until such time as prospecting and exploration and/gr the ore is exhausted. In consideration of the premises the said Tenant covenants and agrees:

1) To pay the landlord for minerals mined from said premises fifty per cent (50%) of the net proceeds of sale of any and all valuable minerals removed from the premises.

   Payments to be made monthly upon receipt of payment for said minerals by tenant.

2) If ore is found on the premises the parties hereby agree to form a new company to mine and extract the minerals from the earth and it is further agreed that all expenses of mining are to be shared jointly and equally. All profits accruing from said minerals are to be shared equally.

3) If the tenant, upon termination of prospecting, decides that ore does not exist in commercial quantity, this agreement shall be terminated. A statement in writing to this effect shall be made to the landlord.

WITNESS:

(Signed) Josh Pleskun

(Signed) Richard Spurgeon

(Signed) Joseph Dusik, Jr.

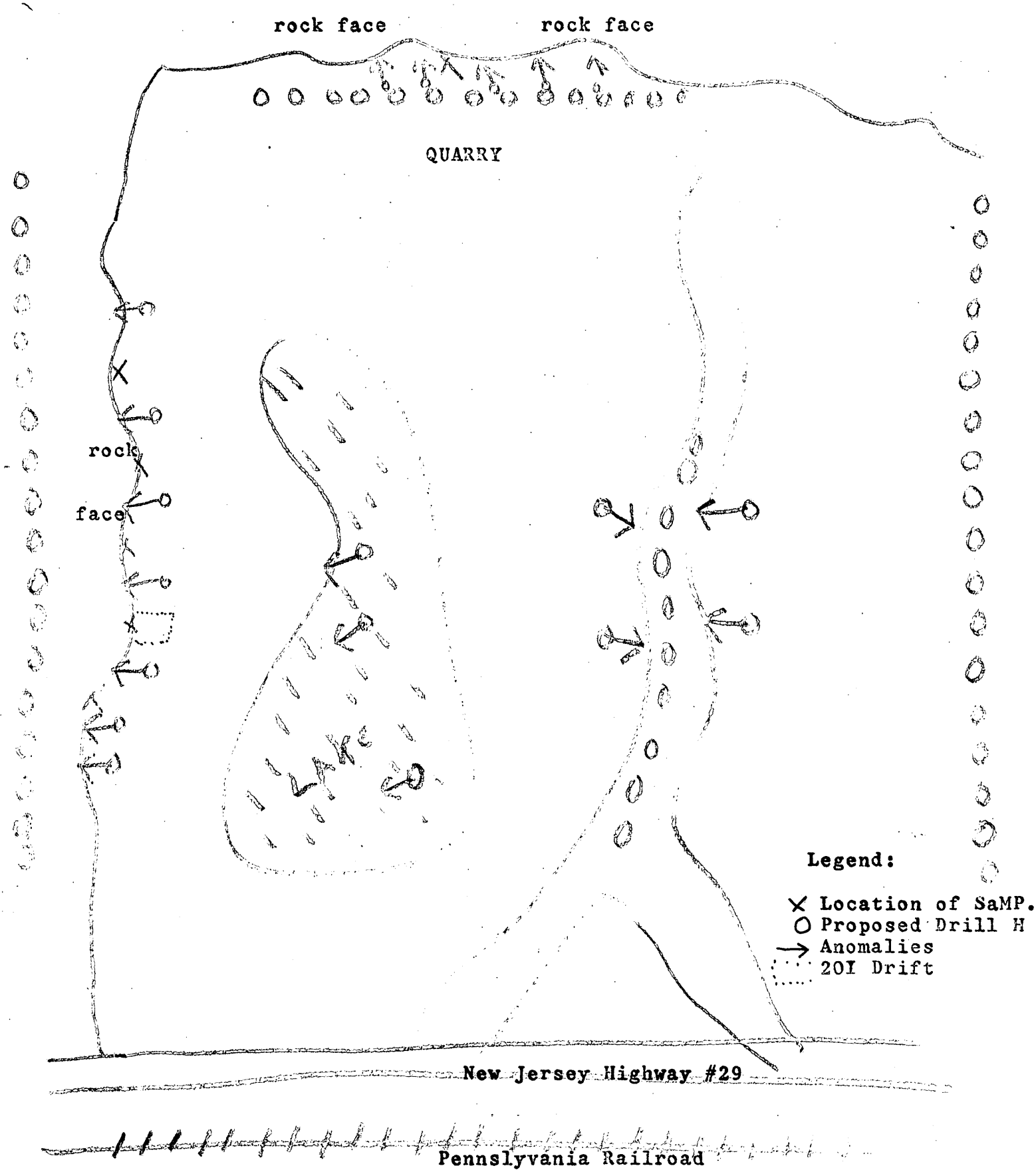
GATLING MINING AND DEVELOPMENT CO. INC.

(Signed) Vernon Gatling, President

(Signed) Alvin Gatling, Secretary-Treas.

SKETCH OF EXPLORATION ACTIVITIES AT

RAVEN ROCK, N.J.



Crawford

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OCT 10 1955

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER 1, UNDER

THE DEFENSE PRODUCTION

ACT OF 1950

AS AMENDED

(New Jersey Exploration Project)

Gatling Mining And Development Co.
115 Albany Street
New Brunswick, New Jersey

Gatling Mining and Development Co., Inc.

RECEIVED
OCT 10 1955

NEW JERSEY
115 ALBANY STREET
NEW BRUNSWICK, N. J.

COLORADO
FIRST NATIONAL BANK
GRAND JUNCTION, COLO.

October 10, 1955

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

Dear Sir:

We are submitting with this letter our Application For Aid In An Exploration Project, Pursuant to DMEA Order 1, Under the Defense Production Act of 1950, as amended.

This project is located in Hunterdon County, New Jersey. This area has been throughly prospected by the Company since 1953 and some exploratory work has been done by us, much remains to be done.

I trust that the application merits the approval of the Defense Minerals Exploration Administration.

Respectfully yours,

Vernon Gatling

Vernon Gatling, President
GATLING MINING AND DEVELOPMENT Co.Inc.

VG/aag
Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
OCT 10 1955

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

Not to be filled in by applicant

Docket No. DME A-4010
Metal or Mineral uranium
Date Received 10-10-55
Estimated Cost $242,000
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: Gatling Mining And Development Co. Inc.
115 Albany Street
New Brunswick, New Jersey

(*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. see page 1

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. see page 1

(*d*) If a partnership, add to the above statement the names and addresses of all partners. see page 1

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

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

(*b*) State any mine name by which the property is known. see page 2

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise see page 2

(*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. see page 2, 11-12

(*e*) If you own the land, describe any liens or encumbrances on it see page 2

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. see page 2

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 2

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. see page 2-3

(*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. see page 3, 9-10

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. see page 3

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. see page 3

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore see page 3

(*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. see page 13

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract. see page 3

(*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 4

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: see page 5

(*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 5

(*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 5

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. see page 5

(*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 5

(*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. see page 5

(*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. see page 5

(*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 5

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. see page 5

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)? see page 6

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

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated October 10, 1955, 195..

Gatling Mining And Development Co.Inc.
(Applicant)

By Vernon Gatling President
Vernon Gatling

Vice Pres-Treasurer
Alvin Gatling

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

Gatling Mining and Development Co., Inc.

NEW JERSEY
115 ALBANY STREET
NEW BRUNSWICK, N. J.

COLORADO
FIRST NATIONAL BANK
GRAND JUNCTION, COLO.

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

1. Name of Applicant

   (a) Gatling Mining And Development Co. Inc.
   115 Albany Street
   New Brunswick, New Jersey

   (b) A New Jersey Corporation

   (c) Director-President
   Vernon Gatling: Bissett Place, South River, New Jersey

   Director-Vice President-Treasurer
   Alvin Gatling: 6 Little Martin Street, South River, New Jersey

   Executive Vice President
   John Pleskun: 66 Hillside Avenue, South River, New Jersey

   Director-Secretary
   Merrill E. Richardson: 105 Atkins Avenue, Asbury Park, New Jersey

2. Applicant's Property Rights

   (a) The applicant's Property Rights embraces the property known and described as the Raven Rock Quarry and George Laszlo's property, being a mile and one quarter north of Stockton, New Jersey on the Raven Rock Road. It is located in Hunterdon County. The property in approximately four hundred acres in area.

   The Proposed exploration described herein will extendd the present information concerning the geology of the entire Piedmont Belt which runs for miles through western New Jersey and South Eastern Pennslyvania. Preliminary study of this belt has been made

by the Atomic Energy Commission and the United States Geological Survey.

(b) Inapplicable

(c) The Company is lessee with mining rights.

(d) A copy of the lease is submitted herewith.

(e) Inapplicable

(f) Inapplicable

4. Physical Description

(a) Over a period of two anda half years the Company has carried out the following exploratory operations:

(1) driven a 25 foot drift in a weathered outcropping which extends roughly 800 feet across the quarry face.

(2) Taken channel samples along the outcropping and quarry face.

(3) Blasted 48,000 cubic feet from the face of the quarry

(4) Excavated 16,000 cubic feet of overburden from the top of the quarry.

(5) Made a radiometric survey of the entire area with geiger counters scintillation counter.

The drift can be examined by crossing a creek approximately 75 feet wide and 30 feet deep. The outcrippings are easily accessible by foot.

(b) There has been no production to date and ore reserves, if any, are

undetermined. Approximately 2 tons of ore has been extracted by hand methods over a 2 year period.

(c) Samples* taken from the drift and outcroppings have been identified as weathered pitchblende being hydrothermal in origin. The intrusion is in the light samples of sandstone and varies from 3 to 7 inches in thickness. The vein dips about 14 degrees and should be relocated at a depth from the surface of 40 to 60 feet. The actual geological formation appears identical to that of the Happy Jack Mine in Colorado.

(d) The property is easily accessible by motor vehicle. New Jersey highway #29 going north out of Stockton, New Jersey goes directly pass the quarry. The quarry begins just where the asphalt road ends and highway #29 becomes a dirt road.

(e) Availability of the following is very good:

1. Manpower
2. materials
3. supplies
4. equipment
5. water
6. Power

5. <u>The Exploration Project</u>

(a) The Company wishes to explore for uranium ore.

(b) See map

(c) The work will start within 15 days and be completed within 8 months

* See AEC report contained herein

from the date of an exploration project contract.

(d) Operation experience and background of applicant: The chief officers of the Company (President and Secretary Treasurer) have been engaged actively in exploration and mining of uranium for four years. They have conducted aerial surveys in New Jersey and the West, (the President is a licensed pilot). The Lambertville Quarry Company of New Jersey has contracted their services as consultants in contemplated drilling operations by that company. Gatling Mining and Development Co. Inc. has surveyed by foot and by motor vehicle hundreds of miles in North Jersey and West Jersey from February of 1951. As a result of its work other companies have become interested in the exploration for uranium ore in New Jersey.

The Company plans to employ the services of Dr. Phillip E.Merritt, Director, Senior Geologist, U.J. Longyear Co., Assistant Director, DAvision of Raw Materials in charge of exploration, U.S. Atomic Energy Commission (1947-1954). Chief of Raw Materials, Manhatten Project, Corps of Engineers, U.S. Army (1942-46)

Gatling Mining and Development Co., Inc.

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OCT 10 1955

NEW JERSEY
115 ALBANY STREET
NEW BRUNSWICK, N. J.

COLORADO
FIRST NATIONAL BANK
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6. Estimate of costs

(a) Independent Contracts:	
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Core Boxes (@ .20/ft)	5,000
Exploratory Shaft (100' deep, 4 x 6 @ $60/ft)	6,000
(b) Labor, supervision, consultants:	
Laborers (3 unskilled @ $60/wk)	3,840
Laborers (2 skilled @ $80/wk)	5,120
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Engineer ($250/wk)	8,000
General Forman ($125/wk)	4,000
(c) Operating materials and supplies:	
Picks, shovels, hand augers, etc.	225
Water pump (6 in.)	520
Fuel and oil ($60/wk)	1,920
(d) Operating equipment: furnished by applicant	
2 diamond core drilling rigs @ accessory equipment	32,000
3/4 ton truck	1,200
Trailer, laboratory, field office	3,000
Nuclear instruments	1,500
Labor	10,000
(e) Rehabilitation and repairs:	
Repair to existing building	3,000
(f) New buildings, improvements, installations:	
Core shack	520
Building for equipment	1,250
(g) Miscellaneous:	
Assaying (field)	1,000
Administration	8,000
Liability Insurance	1,200
Equipment	1,255
(h) Contingencies:	
Contingencies	30,000
	$242,000

Gatling Mining and Development Co., Inc.

NEW JERSEY
115 ALBANY STREET
NEW BRUNSWICK, N. J.

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GRAND JUNCTION, COLO.

7. (a) The applicant is preparedto furnish its share of the cost of the proposed project in accordance with the regulations on Government participation.

(b) The applicant will furnish $72,000 in labor and equipment.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner or otherwise, both in his own behalf and acting forthe 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..October.10....., 1955

Gatling Mining And Development Co. Inc.
Applicant

By Vernon Gatling President
Vernon Gatling

Vice President
Alvin Gatling Treasurer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
OCT 10 1955

August 16, 1954

Mr. Vernon Gatling
Bissett Place
South River, New Jersey

Dear Mr. Gatling:

The material you sent has been examined in this laboratory.

Your material approximate weight 2 lbs., has been given the number RW-6601. It consists of sandstone with pyrite. This sample contains 0.20% uranium. This assay was made for the Atomic Energy Commission and is being sent to you at the Commission's specific request. Should the material represented by this sample occur in sufficiently large tonnages the deposit may be of commercial interest. The enclosed circulars explain the specifications as to grade and quantity set forth by the Atomic Energy Commission for mine and concentration products.

The Geological Survey would appreciate receiving any further information concerning the exact location, size, and type of deposit from which the sample was taken. A form and a stamped envelope are enclosed for your convenience in recording and forwarding this information to Mr. Q.D. Singewald. Such information will be held in strict confidence and will not be revealed to unauthorized persons. If, upon receipt of such information, further investigation seems warranted, the Geological Survey would be interested in arranging to make a brief examination of the locality for uranium when a field party is available.

Additional samples to be examined for radioactivity should be sent to the U.S. Geological Survey Laboratory, Building 213 Naval Gun Factory Washington 25, D.C. Thank you for sending this material. We would like to retain a small part of this material: The rest will be held for 30 days from the date of this letter when it will be discarded unless you wish it returned.

Sincerely yours,

(Signed Hugh H. Waesche CJS)

Hugh H. Waesche, Liaison Officer
Atomic Energy Commission Program
Geochemistry and Petrology Branch

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

RECEIVED
OCT 10 1955

College Park, Maryland

October 7, 1955

Gatling Mining and Development Co. Inc.
115 Albany Street
New Brunswick, New Jersey

Attention: Mr. Vernon Gatling, President

Dear Mr. Gatling:

The eight samples from New Jersey you brought to this station yesterday have been examined petrographically and were tested for radioactivity.

The results are as follows:

No. 1 is an uranium-bearing carbonaceous material, with associated carnotite having a radioactivity of 7.0% equivalent uranium.

No. 2 is a calcareous sandstone with a radioactivity of 0.30% equivalent uranium.

No. 3 is a silicious or sandy limestone with a radioactivity of 0.05% equivalent uranium.

No. 4 is a calcareous, hematitic, feldspatic sandstone with chalcopyrite and a radioactivity of 1.4% equivalent uranium.

No. 5 is similar to No. 4 with a radioactivity of 0.52% equivalent uranium.

No. 6 is a feldspatic sandstone with a radioactivity of 0.01% equivalent uranium.

No. 7 is similar to No. 6 with a radioactivity of 0.006% equivalent uranium.

No. 8 is similar to Nos. 4 and 5 with less chalcopyrite and a radioactivity of 1.5% equivalent uranium.

Fluorescent bead tests and other techniques indicate that this radioactivity is due to essentially uranium.

A copy of this letter is being sent to the U.S. Atomic Energy Commission Division of Raw Materials, Washington 25, D.C. for their future reference.

Sincerely yours,

Signed: P.H.Ambrose, Superintendent
Eastern Experiment Station

ATOMIC ENERGY COMMISSION REPORT ON
RAVEN ROCK QUARRY
AT STOCKTON, N.J.

A roughly tabular copper-uranium-iron-manganese mineralized zone 10 feet wide, the longer exposed dimension of which trends N-30 degrees W, extends through the ridge from quarry face to quarry face but is absent on the quarry floors, sandstones and shales within this zone are light to reddish-gray. The joint surfaces within the mineralized zone are coated with manganese stains, hematite, limonite films, boxwork structures and in places with tobernite and muscovite. The rock within the zone averages about 0.009 uranium with a few small spots containing up to 1.24% uranium.

Taking surface measurements of the most highly radioactive part of the mineralized zone as 25 feet high by 50 feet long and 10 feet wide and taking 160 pounds as the weight per cubic foot of sandstone, there is estimated to be 1,000 tons of rock containing 0.009% uranium or 180 pounds of uranium ore.

The mineralogy suggests a possible hydrothermal origin, and primary uranium minerals may exist below the zone of oxidation, beneath the ridge. Exploratory drilling might extend knowledge of the mineralized zone.

Background on the meter was 1-2 divisions on the 2.0 scale, with the 2-X-20 inch gamma probe 1-2 divisions on the 0.2 scale with the beta gamma probe. A reading of 2-4 scale divisions with either probe indicated an equivalent uranium content of 0.001%.

I. Survey by car showed 2-3 times background count.

II. Uranium deposits may be present in the Piedmont belt and flanking sedimentary rocks.

CONCLUSIONS:

"...the relative high level of radioactivity in south eastern Pa. and western New Jersey as compared with other areas studied in the North East states, the presence of tobernite at Stockton, New Jersey and the radioactive minerals at Easton, Pennsylvania suggest that this section of the Piedmont belt and the flanking sediments are worthy of additional study as areas that may contain potential economic deposits of thorium and uranium minerals. The Geological Survey plans to do this study and work." Dec. 1951, TEM-255

Table I — SUMMARY OF INFORMATION ON SAMPLES COLLECTED AT RAVEN ROCK QUARRY BY THE U.S. GEOLOGICAL SURVEY.

Type of Material	Locality	Equivalent U	Chemical U %
sandstone	1/2 mi N. of	0.033	0.029
sandstone	stockton	0.033	0.029
sandstone	on railroad	0.082	0.090
sandstone	on railroad	0.004	0.094
Flourescent sandstone	on railroad	0.004	0.002
Flourescent water	from lake	0.099	0.085

MINING LEASE

RECEIVED
OCT 10 1955

THIS AGREEMENT, made and entered into this 28th day of September, 1955 by and between GATLING MINING AND DEVELOPMENT CO. INC. of 115 Albany street New Brunswick, New Jersey AND Richard Spurgeon of Center Point Pennslyvania and Joseph Busik, Jr. of Point Pleasant, Pennslyvania, parties of the second part, hereinafter called the "Landlord".

WITNESSETH: That the said tenant, for and in consideration of one dollar (1.00) cash in hand paid, receipt of which is hereby acknowledged. Hereby does grant, lease, and let unto the said tenant for the sole and only purpose of prospecting for, mining and milling, storing, taking out and removing ores containing uranium and other valuable minerals, from said premises on that certain tract, piece or parcel of land situated in the township of Deleware and of Hunterdon and State of New Jersey, described as follows: That property belonging to George Lasslo adjacent to the Raven Rock Quarry being approximately a mile and one quarter north of Stockton, Nerw Jersey on the Raven Rock rOad.

IT IS FURTHER AGREED THAT, this lease shall remain in full force and effect until such time as prospecting and exploration and/gr the ore is exhausted. In consideration of the premises the said Tenant covenants and agrees:

1) To pay the landlord for minerals mined from said premises fifty per cent (50%) of the net proceeds of sale of any and all valuable minerals removed from the premises.

   Payments to be made monthly upon receipt of payment for said minerals by tenant.

2) If ore is found on the premises the parties hereby agree to form a new company to mine and extract the minerals from the earth and it is further agreed that all expenses of mining are to be shared jointly and equally. All profits accruing from said minerals are to be shared equally.

3) If the tenant, upon termination of prospecting, decides that ore does not exist in commercial quantity, this agreement shall be terminated. A statement in writing to this effect shall be made to the landlord.

WITNESS:

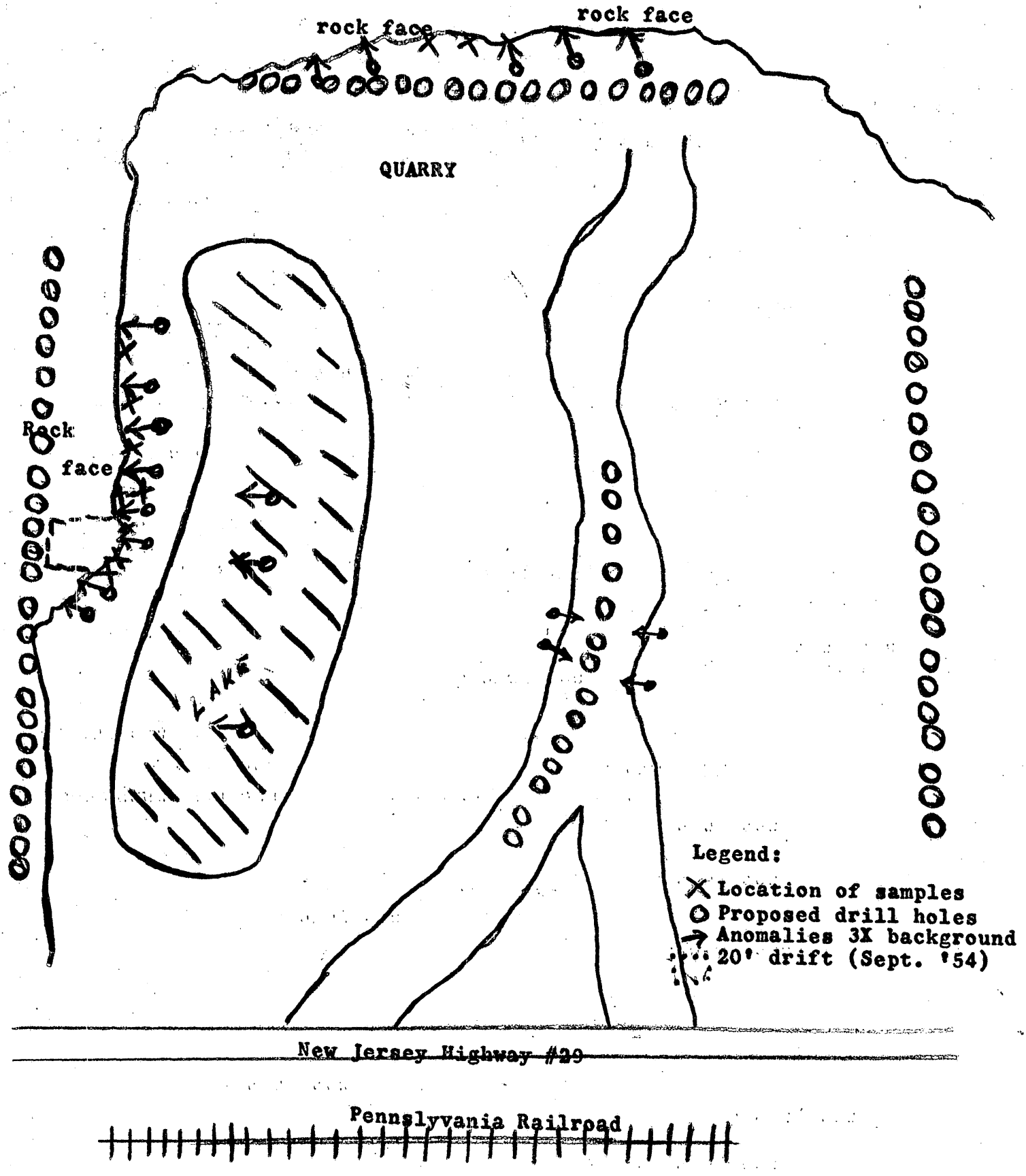
(Signed) Josh Pleskun

(Signed) Richard Spurgeon

(Signed) Joseph Busik, Jr.

GATLING MINING AND DEVELOPMENT CO. INC.

(Signed) Vernon Gatling, President

(Signed) Alvin Gatling, Secretary-Treas.

SKETCH OF EXPLORATION ACTIVITIES AT
RAVEN ROCK, N.J.