Docket Copy
700
Murphy
Ellis

January 26, 1956

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-4063

Commodity: Uranium

Applicant: Simmons & Simmons, a partnership of Greenbury and Charles G. Simmons, Kentucky Home Life Bldg., Louisville 2, Kentucky

Property: 42 acres of land, leased from Mr. Willie Adkins et al., situated on the east flank of Elk Ridge about 1½ miles northeast of the community of Elk Park, Avery County, North Carolina.

Date of Application: October 28, 1955.

Referred to Field Team: December 6, 1955

Field Team Report Recd.: January 18, 1956

Amount of Application:
Proposal No. 1 $40,000.00 (Applicants total)
Alternate Proposal $61,038.28

Work Proposed and Costs (Proposal No. 1):

#2 Adkins:		
150 feet of incline shaft @ $60/ft.	$9,000	
140 feet of drifts (off shaft) @ $45/ft.	6,300	
#1 Adkins:		
150 feet of incline shaft @ $60/ft.	9,000	
140 feet of drifts (off shaft) @ $45/ft.	6,300	
Geological Consultants, etc.	5,000	
Contingencies	3,400	
Total Estimate Cost	$39,000	$40,000 ?

The alternate proposed work is presented as a detailed actual cost program. In addition to the above work it includes:

1200 feet core drilling @ $4.50/ft	$5,400
1200 feet straight drill hole (to be logged) @ $4.00/ft.	4,800

and additional drifting and shaft work.

Excerpts from Field Team Report:

Rocks on the lease consist entirely of the Cranberry granite-gneiss of Archean age. At other places the Cranberry has granitoid texture, but on the Simmons' property gneissic lineation and foliation are well developed. Rocks in the whole vicinity are contorted and compressed, and thrust faults are common.

Preliminary work done by the Applicant consists of two trenches, about 500 feet apart, cut into the steeply sloping mountainside, and are referred to as Adkins Nos. 1 and 2.

Adkins No. 1 - The rock in this cut is granite-gneiss with a pegmatite mass 5 feet long and 20 inches exposed. Anomalous radioactivity is limited to the pegmatite. A chemical analysis of a 5-foot chip sample across the pegmatite shows .017% U_3O_8.

Adkins No. 2 - The rock in this cut is granite-gneiss. In this cut also, a pegmatite mass is exposed. The maximum thickness of the pegmatite is 20 inches, and its length is about 20 feet. Chemical analyses of one 5-foot vertical chip sample and one 3-foot horizontal chip sample show .003 and .006% U_3O_8, respectively.

Because The anomalous radioactivity is restricted to small and scattered pegmatites in the granite-gneiss they would present very difficult targets. Searching for the tiny pegmatite masses, would be aimless prospecting, also, the grade of the pegmatite material is too low to be mined economically. The Field Team and field examiners therefore concur in recommending the subject application be denied.

Commodity Members' Comments: (excerpts)

U.S. Geological Survey, N. E. Nelson, January 20, 1956:

Concurs with the Field Team in recommending denial of the application. Mr. Nelson lists his reasons based on the field examiners findings.

U.S. Bureau of Mines, James Paone, January 24, 1956:

We concur in the recommendation of the field examiners that the application be denied. Results of samples indicate that mineralization is poor and at best would have to be at least 10 to 30 times greater to be marketable.

Rare and Miscellaneous Metals Division, F. M. Murphy, January 26, 1956:

This Division concurs in the Field Team's recommendation to deny the application. The small, scattered, low uranium grade pegmatites in the granite-gneiss country rock are not considered worth exploratory work.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

1-25-56

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

RECEIVED
JAN 25 1956

January 24, 1956

Memorandum

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

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

Subject: Report of Examination, DMEA Docket 4063, Willie Adkins Lease, Greenberry Simmons and Charles G. Simmons, Elk Park, Avery County, North Carolina

I have reviewed the Report of Examination of DMEA Docket 4063, dated January 18, 1955, and received in this office January 25. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

Simmons and Simmons applied to DMEA for assistance to explore for uranium on 42 acres of land located about one and a half miles northeast of the community of Elk Park, Avery County, N. C.

An examination of the subject property on December 15, 1955, by a DMEA Field Team revealed that anomalous radioactivity is confined to small pegmatitic masses in the Cranberry granite-gneiss. Consequently, the examiners recommend that the application for DMEA assistance be denied because an exploration project on the subject property would have a poor chance of discovering significant tonnages of ore.

We concur in the recommendation of the Field Examiners that the application be denied. Results of samples from the Adkins Lease, as shown in Table I of the Report of Examination, indicate that mineralization is poor and at best would have to be at least 10 to 30 times greater to be marketable.

James Paone
James Paone

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

RECEIVED
JAN 25 1956

January 24, 1956

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WASHINGTON 25, D. C.

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James Paone

1-20-56 dgm

IN REPLY REFER TO:

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

RECEIVED
JAN 30 1956

January 20, 1956

Re: DMEA 4063
Simmons and Simmons
Willie Adkins Lease
Avery Co., N. C.
$40,000.00
and - Uranium
$61,038.00

Memorandum

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

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

Subject: Review of Field Team report.

The applicants requested assistance in exploring a general area in which small lenses of radioactive pegmatite occur. Two proposals were submitted, one calling for shaft sinking and drifting at an estimated cost of $40,000.00, the other for diamond and plug bit drilling, sinking and drifting at a cost of $61,038.00.

Two small open cuts have been made in two small conformable pegmatites, in gneissic granitic rock. The cuts are about 500 feet apart.

The highest radiometric count obtained by the examiners was 0.25 Mr/Hr. Three chip samples were taken which on analysis showed:--

Sample No.	% U	% Eq. U	Remarks
Adkins 1 #1	.017	.019	5-foot chip sample across pegmatite in prospect cut.
Adkins 2 #1	.003	.007	5-foot vertical chip sample across pegmatite and gneiss in prospect cut.
Adkins 2 #2	.006	.019	3-foot vertical chip sample across pegmatite in prospect cut.

The examiners and the Field Team conclude that because of unfavorable characteristics the proposed project has a poor chance of discovering uranium deposits of any significance and recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
JAN 20 1956

January 20, 1956

Re: DMEA 4063
Simmons and Simmons
Willie Adkins Lease
Avery Co., N. C.
$40,000.00
and - Uranium
$61,038.00

Memorandum

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

From: N. M. Balsam, U. S. Geological Survey

Subject: Review of Field Team report.

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The examiners and the Field Team conclude that because of unfavorable characteristics the proposed project has a poor chance of discovering uranium deposits of any significance and recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-1/20/56

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Nested, 3210

IN REPLY REFER TO:

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

RECEIVED
JAN 20 1956

January 20, 1956

Re: DMEA 4063
Simmons and Simmons
Willis Adkins Lease
Avery Co., N. C.
$40,000.00
and - Uranium
$61,038.00

Memorandum

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

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

Subject: Review of Field Team report.

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Two small open cuts have been made in two small conformable pegmatites, in gneissic granitic rock. The cuts are about 300 feet apart.

The highest radiometric count obtained by the examiners was 0.25 Mr/Hr. Three chip samples were taken which on analysis showed:—

Sample No.	% U	% Eq. U	Remarks
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I concur with the recommendation.

W. E. Nelson

W. E. Nelson

WENelson:iml
G-1/20/56

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3) ✓
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

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

RECEIVED
JAN 20 1956

January 20, 1956

Re: DMEA 4063
Simmons and Simmons
Willie Adkins Lease
Avery Co., N. C.
$40,000.00
and - Uranium
$61,038.00

Memorandum

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

Subject: Review of Field Team report.

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I concur with the recommendation.

H. E. Nelson

H. E. Nelson

HENelson:iml
G-1/20/56

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

1-23-56 dgm

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

RECEIVED
JAN 23 1956

January 20, 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: DMEA-4063 (Uranium) Simmons & Simmons, Louisville, Ky.
Adkins Leases, Avery County, North Carolina

Reference is made to the Field Examination Report on the subject application, sent to you on January 16.

Analyses submitted by the applicant of samples sent to a commercial assayer in El Paso, Texas, showed cerium content as high as 3.5 percent. We have just received copies of spectrographic analyses of three channel samples taken during the field examination. Cerium was not even detected, and other rare earths are not present in significant quantities, in these samples.

This adds to our recommendation for denial.

Robert A. Laurence
Robert A. Laurence
Executive Officer, DMEA
Field Team, Region V

V. J. Lynch
V. J. Lynch, Member
Bureau of Mines

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

January 20, 1956

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Executive Officer, DMEA
Field Team, Region V

RAL/mm

V. J. Lynch, Member
Bureau of Mines

cc:
Lynch
Laurence

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1055 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

January 20, 1956

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Executive Officer, DMEA
Field Team, Region V

RAL/sm

V. J. Lynch, Member
Bureau of Mines

cc:
Lynch
Laurence

1-23-56 dzm

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D.C.
KNOXVILLE 2, TENN.

RECEIVED
JAN 18 1956

January 16, 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Field Examination Report, DMEA-4063 (Uranium)

Enclosed are four copies of the subject examination report. The results of the analyses clearly indicate a denial. Further, no clearly defined target indicating probable large tonnage exists, even if the samples had showed ore grades.

Since the examination, the applicant has written two letters purporting to strengthen his case, but actually providing no information of significance to the application. As he sent copies of these direct to Mr. Frank E. Johnson, we have not had copies made for your use.

Robert A. Laurence

R. A. Laurence, Executive Officer
DMEA Field Team, Region V

V. J. Lynch

V. J. Lynch, Member
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
1-20-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
JAN 18 1956

Defense Minerals Exploration Administration

Report of Examination by Field Team
Region V

DMEA-4063
WILLIE ADKINS LEASE
Uranium
Avery County, North Carolina

Joint Report
By

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

Wm. A. Beck, Mining Engineer
U. S. Bureau of Mines

December 21, 1955

Reviewed by
DMEA OPERATING COMMITTEE
1-20-56
(date)

FIELD EXAMINATION REPORT
On
DMEA-4063 (Uranium) WILLIE ADKINS LEASE
Avery County, North Carolina

RECEIVED
JAN 18 1956

Introduction and Summary

Greenberry Simmons and Charles G. Simmons, a partnership, Elk Park, North Carolina, have applied to the Defense Minerals Exploration Administration, Docket No. 4063, for assistance to explore for uranium. The property involved consists of 42 acres of land the applicant has leased from a Mr. Willie Adkins (Atkins). The property is located on the east flank of Elk Ridge about 1 1/2 miles northeast of the community of Elk Park, Avery county, North Carolina. The property is easily reached over North Carolina State Highway 194 which is at the southeast boundary of the property.

The Simmons & Simmons lease was examined on December 15, 1955 by a group that included R. A. Laurence, U. S. Geological Survey; Wm. A. Beck, U. S. Bureau of Mines; S. W. Maher and W. T. Hill, Geologic Division, Tennessee Department of Conservation; Greenberry and Charles G. Simmons; and W. P. Williams, U. S. Geological Survey.

Examination of the rocks on the property showed that anomalous radioactivity is confined to small pegmatitic masses in the Cranberry granite-gneiss. Because of that condition an exploration project would have a poor chance of discovering significant tonnages of ore; and, therefore, DMEA participation in the proposed work does not seem appropriate.

Geology

The applicant's leasehold is located on the west side of the Blue Ridge physiographic province. The terrain is mountainous with relief in the vicinity of Elk Ridge of almost a thousand feet.

Rocks on the Simmons & Simmons lease consist entirely of the Cranberry granite-gneiss of Archean age. At other places the Cranberry has granitoid texture, but on the Simmons' property gneissic lineation and foliation are well developed. According to Keith[1/] the gneissic structure is the result of

1/ Keith, Arthur; U. S. Geol. Survey Cranberry Folio No. 90, 1903.

heat and pressure developed by tectonic forces during mountain building. Rocks in the whole vicinity are contorted and compressed, and thrust faults are common. The regional trend of gneissic structure and foliation is northeast, but local variations are common.

The applicant has made two small cuts in the mountain side. The two cuts are about 500 feet apart and are identified by the applicant as Adkins No. 1 and Adkins No. 2.

Adkins No. 1.- This prospect is a small cut in the steeply sloping mountain side. The cut is about 15 feet wide and extends perhaps 3 to 5 feet into the slope. The face is vertical.

The rock in Adkins No. 1 cut is typical light to medium gray Cranberry granite-gneiss. Foliation is well developed. Strike of the foliation is N 5° W while the dip ranges from horizontal to 40° southwest. The rock is composed of quartz, plagioclase feldspar, hornblende and/or pyroxene, biotite, and muscovite. Accessory minerals are epidote and chlorite. Iron oxides are probably present but were too fine grained to be postively identified with low-power magnification.

Anomalous radioactivity is limited in the prospect cut to a small pegmatite mass that is exposed in the cut. The pegmatite is about 5 feet long, and its maximum thickness is about 20 inches. The pegmatite pinches out

completely at its extremities and appeared to be generally accordant with the foliation of the enclosing granite-gneiss. The same mineral components as in the Cranberry gneiss were in the pegmatite. Crystal sizes in the pegmatite, especially of the feldspar and quartz, were much coarser than in the gneiss.

Close examination of the cut with the aid of scintillation and geiger counters shows that any radioactivity present is confined to the pegmatitic rock. The pegmatitic rock gave a maximum count of 0.15 Mr/Hr. Background count for the area is about 0.025 Mr/Hr. The results of a sample from the cut are given in Table I.

Adkins No. 2.- This location is a small excavation about 5 feet wide and 5 feet deep cut into a nearly-vertical cliff-like exposure of Cranberry granite-gneiss. The cut is about 5 feet above normal water level and is along the bank of Cranberry Creek. The granite-gneiss is essentially like that at Adkins No. 1, with the constituents about the same. The foliation strikes N 40° E and dips about 35° northwest. In this prospect cut also, a small pegmatite is present and contains somewhat anomalous radioactivity. This pegmatite has a maximum thickness of about 20 inches and is about 10 feet long. The pegmatite seems to be accordant with the foliation of the enclosing gneiss.

The highest radiometric count obtained from the pegmatite was 0.25 Mr/Hr. Two samples were cut and the results are in Table I.

Field examination shows that any anomalous radioactivity present is confined to the small pegmatite bodies which are completely enclosed by relatively non-radioactive granite-gneiss. The size of pegmatitic masses in the Crabberry granite-gneiss is usually of the same magnitude as those found in the prospect cuts on the Adkins lease. From examination of cliff and ledge

outcrops it appears that pegmatites are widely and sporadically distributed in the Cranberry granite-gneiss. Pegmatitic material probably occupies no more than about 5 percent of the total volume of the granite-gneiss. Pegmatite ore bodies of the size described would contain only about 5 or 10 tons of ore each.

There are no known reserves of uranium ore either on the property or the vicinity.

Proposed Exploration

The applicant offers two proposals for exploration work on the property. One proposal includes 300 feet of inclined shaft at $60 per foot, and 280 feet of drift at $45 per foot, for a total cost of $40,000.00. According to the applicant's map two shafts, each 150 feet long, would be collared in the small pegmatites that have been exposed in the two cuts. The other proposal includes 1,200 feet of core drilling, 1,200 feet of plug-bit drilling, 138 feet of inclined shaft, and 100 feet of drift at a total estimated cost of $61,038.00.

The two small prospect cuts comprise the total work completed on the property by the applicant. There are no buildings, mine workings, or installations. A portable air compressor was the only piece of equipment at the property.

Conclusions and Recommendations

Anomalous radioactivity on the applicant's property is found in, and restricted to, small pegmatites in the Cranberry granite-gneiss. The pegmatites are small and scattered. They would be exceedingly difficult targets for a drilling project. Searching for the tiny pegmatitic masses by means of long shafts and drifts would be sheer, aimless prospecting. The grade of the pegmatitic material is too low to be mined economically.

The proposed project has a poor chance of discovering uranium deposits of any significance. Because of unfavorable characteristics of the property, it is recommended that the application for DMEA assistance be denied.

TABLE I

Results of samples from Adkins Lease, DMEA-4063, Simmons & Simmons

Sample No.	% U	% Eq.U	Remarks
Adkins 1 #1	.017	.019	5-foot chip sample across pegmatite in prospect cut.
Adkins 2 #1	.003	.007	5-foot vertical chip sample across pegmatite and gneiss in prospect cut.
Adkins 2 #2	.006	.019	3-foot vertical chip sample across pegmatite in prospect cut.

- 5 -

1-18-56 dgm

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 511 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

January 16, 1956

RECEIVED
JAN 18 1956

Memorandum

To: Operating Committee, DMEA - Washington

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

Subject: Field Examination Report, DMEA-4063 (Uranium)

Enclosed are four copies of the subject examination report. The results of the analyses clearly indicate a denial. Further, no clearly defined target indicating probable large tonnage exists, even if the samples had showed ore grades.

Since the examination, the applicant has written two letters purporting to strengthen his case, but actually providing no information of significance to the application. As he sent copies of these direct to Mr. Frank E. Johnson, we have not had copies made for your use.

R. A. Lawrence, Executive Officer
DMEA Field Team, Region V

V. J. Lynch, Member
Bureau of Mines

RAL/ms
cc:
Lynch
Williams
Files

Reviewed by
DMEA OPERATING COMMITTEE
1-20-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
JAN 18 1956

Defense Minerals Exploration Administration

Report of Examination by Field Team
Region V

DMEA-4063
WILLIE ADKINS LEASE
Uranium
Avery County, North Carolina

Joint Report
By

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

Wm. A. Beck, Mining Engineer
U. S. Bureau of Mines

December 21, 1955

Reviewed by
DMEA OPERATING COMMITTEE
1-28-56
(date)

FIELD EXAMINATION REPORT
On
DMEA-4063 (Uranium) WILLIE ADKINS LEASE
Avery County, North Carolina

RECEIVED
JAN 18 1953

Introduction and Summary

Greenberry Simmons and Charles G. Simmons, a partnership, Elk Park, North Carolina, have applied to the Defense Minerals Exploration Administration, Docket No. 4063, for assistance to explore for uranium. The property involved consists of 42 acres of land the applicant has leased from a Mr. Willie Adkins (Atkins). The property is located on the east flank of Elk Ridge about 1 1/2 miles northeast of the community of Elk Park, Avery county, North Carolina. The property is easily reached over North Carolina State Highway 194 which is at the southeast boundary of the property.

The Simmons & Simmons lease was examined on December 15, 1955 by a group that included R. A. Laurence, U. S. Geological Survey; Wm. A. Beck, U. S. Bureau of Mines; S. W. Maher and W. T. Hill, Geologic Division, Tennessee Department of Conservation; Greenberry and Charles G. Simmons; and W. P. Williams, U. S. Geological Survey.

Examination of the rocks on the property showed that anomalous radioactivity is confined to small pegmatitic masses in the Cranberry granite-gneiss. Because of that condition an exploration project would have a poor chance of discovering significant tonnages of ore; and, therefore, DMEA participation in the proposed work does not seem appropriate.

Geology

The applicant's leasehold is located on the west side of the Blue Ridge physiographic province. The terrain is mountainous with relief in the vicinity of Elk Ridge of almost a thousand feet.

Rocks on the Simmons & Simmons lease consist entirely of the Cranberry granite-gneiss of Archean age. At other places the Cranberry has granitoid texture, but on the Simmons' property gneissic lineation and foliation are well developed. According to Keith[1/] the gneissic structure is the result of

1/ Keith, Arthur; U. S. Geol. Survey Cranberry Folio No. 90, 1903.

heat and pressure developed by tectonic forces during mountain building. Rocks in the whole vicinity are contorted and compressed, and thrust faults are common. The regional trend of gneissic structure and foliation is northeast, but local variations are common.

The applicant has made two small cuts in the mountain side. The two cuts are about 500 feet apart and are identified by the applicant as Adkins No. 1 and Adkins No. 2.

Adkins No. 1.- This prospect is a small cut in the steeply sloping mountain side. The cut is about 15 feet wide and extends perhaps 3 to 5 feet into the slope. The face is vertical.

The rock in Adkins No. 1 cut is typical light to medium gray Cranberry granite-gneiss. Foliation is well developed. Strike of the foliation is N 5° W while the dip ranges from horizontal to 40° southwest. The rock is composed of quartz, plagioclase feldspar, hornblende and/or pyroxene, biotite, and muscovite. Accessory minerals are epidote and chlorite. Iron oxides are probably present but were too fine grained to be postively identified with low-power magnification.

Anomalous radioactivity is limited in the prospect cut to a small pegmatite mass that is exposed in the cut. The pegmatite is about 5 feet long, and its maximum thickness is about 20 inches. The pegmatite pinches out

completely at its extremities and appeared to be generally accordant with the foliation of the enclosing granite-gneiss. The same mineral components as in the Cranberry gneiss were in the pegmatite. Crystal sizes in the pegmatite, especially of the feldspar and quartz, were much coarser than in the gneiss.

Close examination of the cut with the aid of scintillation and geiger counters, shows that any radioactivity present is confined to the pegmatitic rock. The pegmatitic rock gave a maximum count of 0.15 Mr/Hr. Background count for the area is about 0.025 Mr/Hr. The results of a sample from the cut are given in Table I.

Adkins No. 2.- This location is a small excavation about 5 feet wide and 5 feet deep cut into a nearly-vertical cliff-like exposure of Cranberry granite-gneiss. The cut is about 5 feet above normal water level and is along the bank of Cranberry Creek. The granite-gneiss is essentially like that at Adkins No. 1, with the constituents about the same. The foliation strikes N 40° E and dips about 35° northwest. In this prospect cut also, a small pegmatite is present and contains somewhat anomalous radioactivity. This pegmatite has a maximum thickness of about 20 inches and is about 10 feet long. The pegmatite seems to be accordant with the foliation of the enclosing gneiss.

The highest radiometric count obtained from the pegmatite was 0.25 Mr/Hr. Two samples were cut and the results are in Table I.

Field examination shows that any anomalous radioactivity present is confined to the small pegmatite bodies which are completely enclosed by relatively non-radioactive granite-gneiss. The size of pegmatitic masses in the Crahberry granite-gneiss is usually of the same magnitude as those found in the prospect cuts on the Adkins lease. From examination of cliff and ledge

outcrops it appears that pegmatites are widely and sporadically distributed in the Cranberry granite-gneiss. Pegmatitic material probably occupies no more than about 5 percent of the total volume of the granite-gneiss. Pegmatite ore bodies of the size described would contain only about 5 or 10 tons of ore each.

There are no known reserves of uranium ore either on the property or the vicinity.

Proposed Exploration

The applicant offers two proposals for exploration work on the property. One proposal includes 300 feet of inclined shaft at $60 per foot, and 280 feet of drift at $45 per foot, for a total cost of $40,000.00. According to the applicant's map two shafts, each 150 feet long, would be collared in the small pegmatites that have been exposed in the two cuts. The other proposal includes 1,200 feet of core drilling, 1,200 feet of plug-bit drilling, 138 feet of inclined shaft, and 100 feet of drift at a total estimated cost of $61,038.00.

The two small prospect cuts comprise the total work completed on the property by the applicant. There are no buildings, mine workings, or installations. A portable air compressor was the only piece of equipment at the property.

Conclusions and Recommendations

Anomalous radioactivity on the applicant's property is found in, and restricted to, small pegmatites in the Cranberry granite-gneiss. The pegmatites are small and scattered. They would be exceedingly difficult targets for a drilling project. Searching for the tiny pegmatitic masses by means of long shafts and drifts would be sheer, aimless prospecting. The grade of the pegmatitic material is too low to be mined economically.

The proposed project has a poor chance of discovering uranium deposits of any significance. Because of unfavorable characteristics of the property, it is recommended that the application for DMEA assistance be denied.

TABLE I

Results of samples from Adkins Lease, DMEA-4063, Simmons & Simmons

Sample No.	% U	% Eq.U	Remarks
Adkins 1 #1	.017	.019	5-foot chip sample across pegmatite in prospect cut.
Adkins 2 #1	.003	.007	5-foot vertical chip sample across pegmatite and gneiss in prospect cut.
Adkins 2 #2	.006	.019	3-foot vertical chip sample across pegmatite in prospect cut.

- 5 -

note to Opr. Com.:

Mr Simmons' letter of Jan. 7 indicated that a copy was sent to Mr. Frank E. Johnson, so we have not made copies of the letter and accompanying comments. If these are needed, let us know.

R.A.L.

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

January 16, 1956

RECEIVED
JAN 18 1956

Mr. Greenberry Simmons
Simmons & Simmons
Kentucky Home Life Bldg.
Louisville 2, Kentucky

Re: DMEA-4063 (Uranium)
Adkins Leases, Avery County, N. C.

Dear Mr. Simmons:

Analyses of the samples taken during the field examination, made in the Geological Survey laboratory at Washington, gave the following results:

	% U	% equiv.U
Adkins 1 # 1	.017	.019
Adkins 2, # 1 (5 -foot channel sample)	.003	.007
Adkins 2, #2 (3 foot channel sample)	.006	.009

This information is made available to you at the request of the Atomic Energy Commission. On the basis of these results, further tests do not appear to be justified.

Your comments on "Are sizeable ore deposits possible near Elk Park, N. C.?" submitted with your letter of January 7 are interesting, but hardly significant in interpretation of the deposits on the Adkins property. Factual data on the deposits themselves, instead of comparisons with unrelated deposits of entirely different types, would be more useful.

Sincerely yours,

Robert A. Laurence, Executive Officer
DMEA Field Team, Region V

RAL/mm
cc:
Lynch
Opr. Com.-2
Williams
Olson - Files

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

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Sincerely yours,

Robert A. Laurence, Executive Officer
DMEA Field Team, Region V

RAL/sm
cc:
Lynch
Opr. Com.-2
Williams
Olson - Files

1-10-56 Lgm

COPY

SIMMONS & SIMMONS
HOME OFFICE
KENTUCKY HOME LIFE BUILDING
LOUISVILLE 2, KENTUCKY

GREENBERRY SIMMONS
CHARLES G. SIMMONS

REPLY TO BRANCH
ADDRESS BELOW:

January 7, 1956

Dept. of the Interior
Defence Minerals Exploration Administration
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Att. Mr. Robert A. Lawrence
Re: DMEA - 4063 (Uranium)
Adkins #1 and #2, Avery Co.,
North Carolina

Dear Mr. Lawrence:

Thanks for your letter of January 4.

Do you think it would be beneficial to all of us to request Mass - Spectrograph tests made on the samples Mr. Williams obtained in the above matter?

Enclosed are a few references on the subject "Are Sizeable Ore Deposits Possible Near Elk Park, N.C.?"

Sincerely,

Simmons and Simmons
by Greenberry Simmons
Greenberry Simmons

CC Mr. Frank E. Johnson, Acting Administrator

RECEIVED
JAN 9 1956

GS/bs

Are Sizeable Ore Deposits Possible Near Elk Park, N.C.?

For the size of ore deposits, veins and pegmatites in N.C. see the following;

(I) Article entitled, "To Find Lithium - Find Pegmatites" pp 80-81, Engineering and Mining Journal, Sept. 1955, it says among other things,

> "Kings Mountain district is 25 miles long and about 2 miles wide. Area has been estimated to contain 4,000,000 short tons units of I.7% Li_2O ore"xxx

(2) The Mining Industry in North Carolina from 1946 through 1953 by Sam D. Broadhurst, published by North Carolina Department of Conservation and Development, Economic Paper No. 66, at p 53 is as follows;

> "A series of Spodumene - bearing pegmatites from a belt nearly 25 miles long and 2 miles wide" xxx. xxx "as many as thirty minerals have been identified in the pegmatites." xxx"commercial sources of Lithium are rare and confined usualy to pegmatite or vein - like occurrences" xxx. "The largest known reserves of Spodumene in the Western hemisphere are in North Carolina."

(3) Bureau of Mines, Report of Investigations, Granberry Magnetite Deposits, R.I. 4274, covering 85 pages and many years of Core drilling near Elk Park, N.C. is as follows;

RECEIVED
JAN 9 1956

at p. 9, "The veins in which the ore occurs comprise more or less banded mixtures of pegmatite" xxx. xxx "the relation of the pegmatite to the coarse hornblende masses in the vein is difficult to determine."
p. IO "Much of the gneiss is unquestionably a mashed and sheared pegmatite in which the feldspar has been altered to epidote and the augite to hornblende."

p. 22 Core cut 30 ft. vein material.

p. 23 Core cut 50 ft. vein material.

p. 35 the core cut 20 ft. of granite gneiss, some pegmatite and I4 ft. of pegmatite total 34 ft., also 20 ft. mostly pegmatite.

p. 37 Core cut 86 ft. Schestose and pegmatic gneiss

p. 39 Core cut 70 ft. Granite gneiss, pegmatite.

p. 46 Core cut 2I ft. pegmatic granite gneiss.

p. 5I Core cut 24 ft. Pegmatic material.

There seems to be large veins and pegmatic zones in this area. Report says I,500,000 tons of iron ore has been recovered from the Cranberry Iron area.

Compiled by Greenberry Simmons

Simmons and Simmons

Ky. Home Life Bldg.

Louisville 2, Ky.

January 7, I956

1-6-56 dgm

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

RECEIVED
JAN 3 1956

January 4, 1956

Mr. Greenberry Simmons
Simmons & Simmons
Kentucky Home Life Bldg.
Louisville 2, Ky.

Re: DMEA-4063 (uranium)
Adkins Res. 1 and 2
Avery County, N. C.

Dear Mr. Simmons:

Thanks for your letter of December 27, with analyses of your samples from the Fishing Club No. 1 and Miller No. 1 prospects. They appear to be about the same as the Adkins samples.

We have not yet received results on Mr. Williams' samples.

I am familiar with the information on pages 135 to 137 of TEI-490, referred to in your letter. However, the pegmatites described there are 10 to 25 feet thick and much more continuous in length than any pre-cambrian pegmatites that I have seen in North Carolina or Tennessee.

Sincerely yours,

Robert A. Laurence
Executive Officer, DMEA
Field Team, Region V

RAL/sm
Cpr. Com.
Lynch
Williams, W.P.
Files

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

RECEIVED
JAN 6 1956

January 4, 1956

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Simmons & Simmons
Kentucky Home Life Bldg.
Louisville 2, Ky.

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Sincerely yours,

Robert A. Laurence
Executive Officer, DMEA
Field Team, Region V

RAL/sm
Opr. Com.
Lynch
Williams, W.P.
Files

12-30-55 dgm

C O P Y

SIMMONS & SIMMONS
HOME OFFICE
KENTUCKY HOME LIFE BUILDING
LOUISVILLE 2, KENTUCKY

GREENBERRY SIMMONS
CHARLES G. SIMMONS

December 27, 1955

RECEIVED
DEC 30 1955

Department of the Interior
Defense Minerals Exploration Administration
Room 13, Post Office Building
Knoxville 2, Tennessee

Att. Mr. R.A. Lawrence
Re: Docket No. DMEA - 4063
(Uranium) Simmons and Simmons
Nos. Iaand 2; Avery County, N.C.

Dear Mr. Lawrence:

Since your parties' field trip pertaining to above we have received the results of the Chemical Analysis of two additional Channel samples, of which may be of interest to you. A copy of which is enclosed. One a half a mile to the North East and one one half mile to the South West and along the general strike of the area North 40° East.

The Fishing Club #I, which you looked over, sample #25I, U_3O_8 - .I35, ThO_2 - .03.

The #I Eller, sample #250, which you did not see, U_3O_8 - .I6 ThO_2 - .05. A drilled hole I2 inches East of this and at 4½ feet deep in the hole holds on our logger at 6% equivalent. We wish to point out the small amount of ThO_2 in all results.

For confirmation and your record the following copies of Chemical analysis (assays) were given you on your field trip:

SIMMONS & SIMMONS
HOME OFFICE
KENTUCKY HOME LIFE BUILDING
LOUISVILLE 2, KENTUCKY

GREENBERRY SIMMONS
CHARLES G. SIMMONS

#210 - #1 Adkins U_3O_8 - 1.13%

#226 - #2 Adkins U_3O_8 - .42%, ThO_2 - .02%, Cerium - 3.5%

#240 - #2 Adkins 5 lb. Channel sample U_3O_8 - .15% ThO_2 - .20%, Cerium 2.30%

#240 - #1 Adkins 51lb. Channel sample, U_3O_8 - .17%, ThO_2 - none

We are glad to exchange scientific facts and will be glad if you will send us copies of your assay results on the samples Mr. Williams took from our leases.

We assume you have noted what TEI - 490 at pp. 135, 136 and 137 say about Pre-cambrian pegmatites, previously not recognized as a possible sources, are now potential sources of U_3O_8.

Sincerely,

Simmons and Simmons

by Greenberry Simmons
Greenberry Simmons

CC Mr. Frank E. Johnson, Acting Administrator

GS/bs

700

FILE COPY
Surname:
Murphy
Elks
Kilgore
Selfridge

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

DEC - 6 1955

Mr. Greenberry Simmons
Simmons and Simmons
P. O. Box 567
Elk Park, North Carolina

Re: Docket No. DMEA-4063 (Uranium)
Simmons and Simmons Nos. 1 and 2
Avery County, North Carolina

Dear Mr. Simmons:

The application for assistance in exploring the subject properties under the captioned docket number has been reviewed by the Rare and Miscellaneous Metals Division. It has been referred for a field examination to the Executive Officer of Region V at the following address:

Mr. R. A. Laurence
Executive Officer
DMEA Field Team, Region V
Rm. 13, P. O. Building
Knoxville 2, Tennessee

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

Sincerely yours,

Frank E. Johnson (by ES7)
Administrator

FMMurphy/izm 12-5-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region V (2)

700

FILE COPY
Surname:
Murphy
Selfridge

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

DEC - 6 1955

Mr. R. A. Laurence
Executive Officer
DMEA Field Team, Region V
Rm. 13, P. O. Building
Knoxville 2, Tennessee

Re: Docket No. DMEA-4063 (Uranium)
Simmons and Simmons
Simmons and Simmons Nos. 1 and 2
Avery County, North Carolina

Dear Mr. Laurence:

The captioned application is referred to Region V Field Team for investigation, a field examination, and recommendation. A copy of the application was retained by your office.

Enclosed are copies of memoranda, dated November 18 and 30, 1955, by M. E. Nelson, USGS, and J. E. Crawford, USBM, respectively, relating to the subject application.

We have noted the observation made in your memorandum of November 15, in regard to the lack of adequate geological and assay data in the subject application.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JB)

Enclosures

APPROVED:

P. F. Yopes (JB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JB)
Member, Geological Survey

FMMurphy/izm 12-5-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Code 700
Mr. Murphy
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JCHosted, Rm. 3210, GSA

R.C.

12-1-55 [illegible]

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

RECEIVED
DEC - 1 1955

November 30, 1955

Memorandum

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

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

Subject: Application for assistance, DMEA Docket 4063, Simmons & Simmons, Avery County, North Carolina

I have reviewed the attached application of Simmons & Simmons, DMEA Docket 4063, dated October 28 and received in this office November 17. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

Simmons & Simmons have applied for Federal assistance to explore for uranium on the Adkins properties in Avery County, North Carolina. The applicants submitted two exploration projects, either of which may be used, but not both. The first proposed project includes 300 feet of inclined shaft at $60 per foot and 280 feet of drift at $45 per foot. The total estimated cost of the first project is $40,000. The second proposed project includes 1,200 feet of core drilling at $4.50 per foot, 1,200 feet of rotary drilling at $4.00 per foot, 138 feet of inclined shaft at $60.00 per foot, and 100 feet of drift at $45.00 per foot. The total estimated cost of the alternate project is $61,038.28.

The subject property is not part of the Spruce Pine pegmatite district. Many of the uranium minerals found in this area are not associated with pegmatites.

We recommend that the application be referred to the Field Team for examination and report.

John E. Crawford

John E. Crawford

Attachment

11-21-55 [illegible]

IN REPLY REFER TO:

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

RECEIVED
NOV 21 1955

November 18, 1955

Re: DMEA 4063
Simmons and Simmons
Adkins Mine
Avery County, N. C.
(1) $40,000.00
(2) $61,038.28 - Uranium

Memorandum

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

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

Subject: Review of application.

Two proposals are submitted by the applicants, (1) to consist of straight underground work on two uranium-bearing veins and (2) would consist of bulldozing, diamond drilling and part of the underground work of (1).

As shown on the sketch map, two veins are to be explored (the drifts run at right angles but such may not have been intended).

The letter of the Executive Officer to the applicants implies that character samples have been assayed, possibly above average in grade, and the sample which assayed 0.42% U_3O_8 may not be representative of the several tons of material in the stock-pile.

To appraise the application, the Field Team considers an examination necessary and warranted, and with that opinion I concur.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
NOV 21 1955

November 18, 1955

Re: DMEA 4063
Simmons and Simmons
Adkins Mine
Avery County, N. C.
(1) $40,000.00
(2) $61,038.28 - Uranium

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As shown on the sketch map, two veins are to be explored (the drifts run at right angles but such may not have been intended).

The letter of the Executive Officer to the applicants implies that character samples have been assayed, possibly above average in grade, and the sample which assayed 0.48% U_3O_8 may not be representative of the several tons of material in the stockpile.

To appraise the application, the Field Team considers an examination necessary and warranted, and with that opinion I concur.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-11/18/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

11-30-55 gm

To: Operating Committee

RECEIVED
NOV 28 1955

SIMMONS & SIMMONS
HOME OFFICE
KENTUCKY HOME LIFE BUILDING
LOUISVILLE 2, KENTUCKY

GREENBERRY SIMMONS
CHARLES G SIMMONS

REPLY TO BRANCH
ADDRESS BELOW:

November 25, 1955

Department of the Interior
Defense Minerals Exploration Administration
Room 12, Post Office Bldg.
Knoxville, Tennessee

RECEIVED
NOV 30 1955

Re: DMEA - 4063
Att. Mr. Robert Lawerence

Dear Mr. Lawerence:

Your letter of November 8 pertaining to above received.

To comply with your suggestion enclosed are 4 copies of "Consent to Lien" signed by Willie Adkins the land owner and royalty owner of Simmons and Simmons #1 and #2 Adkins.

We have also complied with your suggestion and obtained Channel samples from the faces of the vein and ore zones of #1 and #2 and sent them to be assayed .

Due to the hardness of the formations the obtaining of these samples required a pointed Moil in an air compresser jack hammer, five foot pointed steel, 8 lb pointed sledge hammer. We used canvas to catch the ore. On #1 we took it accross the width of the ore zone 20 inches and a 4 inch strip, on #2, 24 inches by 4 inches.

We will send you a copy of the report when obtained. If you have any other suggestions we will be glad to hear from you.

Sincerely yours,,
Simmons and Simmons
by Greenberry Simmons
Greenberry Simmons

Please reply to
Elk Park, N.C.

SIMMONS & SIMMONS
HOME OFFICE
KENTUCKY HOME LIFE BUILDING
LOUISVILLE 2, KENTUCKY

GREENBERRY SIMMONS
CHARLES G. SIMMONS

RECEIVED
NOV 28 1955

REPLY TO BRANCH
ADDRESS BELOW:

November 25, 1955

Department of the Interior
Defense Minerals Exploration Administration
Room 12, Post Office Bldg.
Knoxville, Tennessee

RECEIVED
NOV 30 1955

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Sincerely yours,,
Simmons and Simmons
by Greenberry Simmons
Greenberry Simmons

Please reply to
Elk Park, N.C.

RECEIVED
NOV 28 1955

SIMMONS & SIMMONS
HOME OFFICE
KENTUCKY HOME LIFE BUILDING
LOUISVILLE 2, KENTUCKY

GREENBERRY SIMMONS
CHARLES G. SIMMONS

REPLY TO BRANCH
ADDRESS BELOW

November 25, 1955

Department of the Interior
Defense Minerals Exploration Administration
Room I2, Post Office Bldg.
Knoxville, Tennessee

RECEIVED
NOV 30 1955

Re: DMEA - 4063
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Sincerely yours,,
Simmons and Simmons
by Greenberry Simmons
Greenberry Simmons

Please reply to
Elk Park, N.C.

MF-203
Revised March 24, 1955

RECEIVED
NOV 30 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator Simmons and Simmons
Docket No. DMEA- 4063
Contract No. Idm-E
Contract Date

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Avery, State of North Carolina, described ~~as follows~~:1/

in a deed recorded in Avery County Register of Deeds Office, Book 46 P. 608 also in deed registered in same office, Book 33 P. 610, also same description as above in "Exhibit #2", leases filed with application.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

None

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

_____

_____

_____

_____

_____

_____

_____

Dated this 17 day of November, 1955.

Willie Adkins [Seal]

_____ [Seal]

_____ [Seal]

I, _____ certify that I am the _____ _____ (Secretary, etc.) of the corporation named herein; that _____ _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

MF-203
Revised March 24, 1955

RECEIVED
NOV 30 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator Simmons and Simmons
Docket No. DMEA- 4063
Contract No. Idm-E
Contract Date

CONSENT TO LIEN

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_____ [Seal]

_____ [Seal]

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[Corporate Seal]

MF-203
Revised March 24, 1955

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NOV 30 1955

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EXPLORATION PROJECT CONTRACT
Operator Simmons and Simmons
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_____

[Corporate Seal]

November 17, 1955
Subject: DMEA-4063
Re: Exploration Assistance
Simmons & Simmons # I & II

Simmons & Simmons
P. O. Box 567
Elk Park, North Carolina

Gentlemen:

The receipt of your application dated October 28, 1955, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4063 and referred to the Rare & Misc. Metals 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

November 17, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region V

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region V.

DMEA - 4063 Simmons & Simmons

Robert E. Adams
Chief, Operation's Control
and Statistics Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 5 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

RECEIVED
NOV 17 1955

November 15, 1955

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V -

Subject: Application from Simmons & Simmons, Elk Park, N. C. (uranium)

Enclosed are three copies of an application from Simmons & Simmons, P.O. Box 567, Elk Park, N. C., which was received here yesterday, accompanied by one copy of each lease and one copy of each lease assignment. Also enclosed are 3 copies of our letter to the applicant, and 3 copies of a letter from the State Geologist of North Carolina in reply to our inquiry about these prospects. We are keeping the fourth copy of the application for our use.

Mr. Greenberry Simmons spent about three hours in conference with us on November 4, before submitting his application a week later. Most of the suggestions we made were not incorporated in the application. Especially lacking are adequate geological and assay data. We doubt that correspondence will produce anything additional and therefore believe that a field examination will be necessary, in order to make any kind of recommendation on this proposal.

This property is in a 5-county area in which there has been a great deal of prospecting for uranium, with many occurrences of uranium minerals, not all of which are associated with pegmatites. In spite of all the excitement over the past 15 months, and drilling of 3 properties by New Jersey Zinc Company, as well as drilling by at least three different local prospectors, no ore bodies have been discovered, so far as we know. This district is not part of the Spruce Pine pegmatite district.

Robert A. Laurence
Robert A. Laurence, Exec. Officer
DMEA Field Team, Region V

V. J. Lynch
V. J. Lynch, Member
Bureau of Mines

Processing Plant Sought In ET For Uranium

ROAN MOUNTAIN, Nov. 13 (AP)—Congressman Charles R. Jonas of North Carolina today assured uranium prospectors he would support their efforts to secure a processing plant for this area.

Jonas told the Appalachian Uranium Association meeting he would request a meeting with the Atomic Energy Commission and "see if they could work out something for this section."

He added the association will assure the area of a concentrated effort in getting the plant.

A committee was appointed to study a proposed contract with a uranium processing company which is interested in placing a mill in the East Tennessee area.

A company spokesman said the plant would need 200 tons of ore daily to assure its continued operation.

The association is composed of uranium prospectors of the Upper East Tennessee-Western North Carolina area.

RECEIVED
NOV 17 1956

November 15, 1955

Mr. Greemberry Simmons
Simmons & Simmons
P.O. Box 567
Elk Park, North Carolina

Dear Mr. Simmons:

Your application for aid in exploration for uranium on the Adkins Properties in Avery County, North Carolina has been forwarded to our Washington office, in accordance with established procedure. We will notify you in advance if a field examination is to be made.

Although the executed Owner's Consent to Lien is not needed until a contract has been approved, it is advisable to submit these documents while the application is being processed, to avoid further delay in the event an exploration contract is approved.

If, in the meanwhile, you can get a channel sample which represents a true sample of your vein and have it assayed, the results would be most helpful in evaluating your proposal. As we explained during your visit here, the analyses given in item 5d of your application are interesting and encouraging, but they represent specimens and not samples, and your proposal will be much stronger if supported with analyses of properly taken samples.

Very truly yours,

Robert A. Laurence
Executive Officer, DMEA
Field Team, Region V

RAL/sm
cc:
Lynch
Shirley
Files
Opr. Com.-3

700

Murphy
Ellis
Kilsgaard
Gleason
Selfridge
Hyldman

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

JAN 27 1956

Mr. Greenbury Simmons
Simmons and Simmons
Kentucky Home Life Building
Louisville 2, Kentucky

Re: Docket No. DMEA-4063 (Uranium)
Simmons and Simmons Nos. 1 and 2
Ashey County, North Carolina

Dear Mr. Simmons:

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

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

Careful study of all our information, although noting a small amount of uranium mineralization on your property, indicates to us that the possibility of disclosing significant ore reserves is not sufficiently promising to justify Government participation in an exploration project. 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. Mittelsdorf

Administrator

FMMurphy/ism 1-26-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
DMEA Field Team, Region V (2)
Messrs. JECrawford, Rm. 3641
THKillsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

P.C.G.

RECEIVED
NOV 17 1955

STATE OF NORTH CAROLINA
DEPARTMENT OF CONSERVATION AND DEVELOPMENT
BEN E. DOUGLAS, DIRECTOR
RALEIGH

November 7, 1955

BOARD

CHAIRMAN
LUTHER H. HODGES
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1ST VICE CHAIRMAN
MILES J. SMITH
SALISBURY

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CHARLES H. JENKINS
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FAYETTEVILLE

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TARBORO

T. MAX WATSON
SPINDALE

SECRETARY
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DIVISIONS

COMMERCE & INDUSTRY
DALLAS T. DAILY

ADVERTISING
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F. H. CLARIDGE

COMMERCIAL FISHERIES
C. G. HOLLAND

PARKS
THOMAS W. MORSE

WATER RESOURCES
INLAND & COASTAL WATERWAYS
[illegible]

MINERAL RESOURCES
DR. J. L. STUCKEY

W. RAY BISHOP
AUDITOR

Mr. Robert A. Laurence
Executive Officer, DMEA
Room 13, Post Office Building
Knoxville 2, Tennessee

Dear Mr. Laurence:

Mr. Richard J. Councill of this department has visited at least twice the prospecting project of Simmons & Simmons for uranium in Avery County, North Carolina. No report has been prepared covering the project nor have any letters been written making specific recommendations. Mr. Councill has simply gone over the work on the ground and tried to indicate what seemed to him to be the best procedure to follow. On his last visit to the site two or three weeks ago, he told the people he thought they might be cautiously encouraged. I regret that we do not have any information we can furnish you which would be of value in passing on the proposal.

If an application for DMEA assistance is made and you so desire, Mr. Councill will be glad to visit the property with your men and give them the full benefit of all he has learned about it.

Very truly yours,

Jasper L. Stuckey

Jasper L. Stuckey
State Geologist

JLS:mrm

RECEIVED
NOV 10 1955
U. [illegible]

SIMMONS & SIMMONS
HOME OFFICE
KENTUCKY HOME LIFE BUILDING
LOUISVILLE 2, KENTUCKY

GREENBERRY SIMMONS
CHARLES G. SIMMONS

REPLY TO BRANCH
ADDRESS BELOW:

RECEIVED
NOV 17 1955

November 9, 1955

Defense Minerals Exploration Administration
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Att. Mr. Lawrence

Dear Mr. Lawrence:

Enclosed is four copies of our application for aid in Exploration Project, Pursuant to DMEA Order I, under the Defense Production Act of 1950, as Amended. Exploration for uranium for Simmons and Simmons #1 and #2 Adkins, 1½ miles N.E. of Elk Park, N.C., Avery County.

After talking to you we have tried to set out the information as you suggested.

We have presented Proposal #1 on page 3(a) and Proposal #2 on page 4 as alternate proposals, either one to be accepted but not both.

We shall be glad to cooperate in exchanging technical information which shall aid in the production of uranium in this area assuming it can be expeditiously done.

Sincerely yours,

by_____
Greenberry Simmons
P.O. Box 567
Elk Park, N.C.
Tel. [illegible] 4508

Reply to
temporary
address
GS/bs

RECEIVED
NOV 1 1955
[illegible]
Knoxville, Tenn.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
NOV 17 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-4063
Metal or Mineral Uranium
Date Received 11-17-55
Estimated Cost $40,000.00
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: Greenberry Simmons and Charles G. Simmons, a partnership d/b as Simmons and Simmons, Kentucky Home Life Bldg., Louisville 2, Ky. Temporary mailing address for this application- Elk Park, N.C. PO Box 567

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract See attached discription marked "Exhibit No.I" assignment of leases and "Exhibit No.2" duplicated copies of 3 leases each including legal discription of the land involved.

(*b*) State any mine name by which the property is known. Simmons and Simmons No.I and No.2

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Willie Adkins Assignee - lessee

(*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 attached "Exhibit No.I" and "Exhibit No.2"

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

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See attached list

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. See attached list 4(a)

(*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 attached list

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

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

16—66551-1

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

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

(*c*) The work will start within 5 days and be completed within 23 months from the date of an exploration project contract.

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

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 attached list for all of No.6

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

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

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

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

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

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

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

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

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

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

☐ Money ☒ Use of equipment owned by you ☒ Other Supervision Geological Radiometric testing Auditing and Accounting

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 28, 1955

Simmons and Simmons
(Applicant)

By Greenberry Simmons
Charles G. Simmons

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

Attached List

Simmons and Simmons

Answers to Numbered Questions

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NOV 17 1955

4(a) Open cuttings in several places - Scintillation Counter, Geiger Counter, Gamma Ray logging and radiometric tests made - Geological study of rocks and formations made. Drilling and blasting - several tons of U_3O_8 (Uranium) assayed at 0.42% stockpiled. We have supervised all work and own 80 to 81% of the working interest. We are the mining operators and the lease operators.

4(c) On South East end of property at Adkins #2 vein deposit and ore shoot in fault, strike N 40E, dip 45° N.W. On N.E. side of property at Adkins #I radioactive annomolies as show by open cut on face 500 ft. from Adkins #2 - Pegmatite dikes located between #I and #2. For area geology and nature of the rocks generally- see the report showing core results of Bureau of Mines Report of Investagators, Cranberry Magnetite Deposits R.I. 4274. This report shows that I,500,000 tons of Magnetic iron ore was taken out of large veins in this area. So there are large veins in this immediate area.

4(d) Along and adjoining State Highway #I94, N.E. of Elk Park, N.C. and between same and Heaton, N.C. Adkins #I and #2 are I½ miles N.E. of Elk Park on good black top road. All the o other questions on this paragraph good except the shipping is by truck for 24 miles over good road U.S. #I9E to Elizabethton, Tenn. to R.R.

4(e) All are good, man power sufficent, materials, supplies, equipment, water and power available. Cranberry Creek and Elk River run all along leases. Power line also goes along leases. (Cheap T.V.A. Power). Adkins #I and #2 on bank of Cranberry Creek.

5(b) Make all necessary exploration and geophysical investagation Core drill, Gamma Ray logging of drill holes, where it is ch cheaper and better todo so. Open cut testing, drifting down the vein, laterals and shaft todetermine the present ore zone. Collect and determine scientific data on the hard rocks in this crystalized area todetermine the best methods of exploration, discovering, blasting and determining the extent of the ore, veins shoots and zones.

5(d) Simmons and Simmons have been inthis area since July. Have worked on Uranium lease near Charleston, S.C.for 6 months. Have been operating as oil producers for 6 years. Separate contractors will do most of the core drilling, probably E.J. Longyear and Co., Minneapolis, Minn. or Sprague and Henwood Inc., Scranton, Pa. The latter Core drilled in this area for Bureau of Mines for several years in the I940's. The N.C. State Geolpgist and Mining Engineer have been working with us in

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this matter since July and have been here three times and is optimistic about it. The Du Pont Co. and Hercules Powder Co. technicians on powder blasting have been sent here and are cooperating on these leases.

For general data on this area we have obtained all available information from the State of N.C., Tenn., U.S. Geological Survey, Bureau of Mines.

We have had Chemical Engineers and Assay Companies test the Uranium samples and have reports showing U_3O_8 at 0.42% and I.I3% with only small amount of Thorium 0.02%.

Proposal #I

6. #2 Adkins:

I50 ft. of Incline shaft $60 per ft.	$9,000
I40 ft. of Drifts (off of shaft) $45 per ft.	$6,300

#I Adkins:

I50 ft. of Incline shaft $60 per ft.	$9,000
I40 ft. Drifts (off of shaft) $45 per ft.	$6,300
Geological Consultants and etc. -	$5,000
Contingencies -	$3,400
Total -	$40,000

Exploration of Proposal #I

See the map which shows Simmons and Simmons #2 Adkins. We will drive an incline shaft following the vein down N 45° W to depth of I50 ft. The ore vein or zone is two ft. in width . We will drift off of the shaft for I40 ft. laterally as the vein necessitates. This vein is in a fault zone, N 40°E along the strike. This entrance in the hill would be 50 ft. below the level of the entrance to #I Adkins. The entrance of #I goes into the hill where it is much steeper than the entrance to #2.

Also see map showing Simmons and Simmons #I Adkins. It is 475 ft. north by I0° west from Adkins #2. We will drive a incline shaft 45° SE following the ore zone for I50 ft. We will drift off the shaft lateraly I40 ft. as the ore zone necessitates.

Proposal #2

Alernate Plan

(Either plan but not both)

6(a) Independent Contracts -

I200 ft. Core drilling per foot @ $4.50	$5,400
I200 ft. Straight drill hole (to be logged) per foot @ $4.00	$4,800
I38 ft. Incline shaft per foot @ $60.00	$8,970
I00 ft. Drifts (Laterals off shaft) per ft. $45.00	$4,500
80,000 cubic yards of material per yard	$ 200
Roads to build 48 hrs. of bulldozing per hr. $I0	$ 480

6(b) Labor, Supervision, Consultants -

2880 hrs. labor per hr. @ $I.00	$2,880
I440 hrs. supervision per hr.@ $3.00	$4,320
960 hrs. supervision and engineering per hr.@ $4.00	$3,840
I00 hrs. mining engineering per hr. @ $5.00	$ 500
2I2½ hrs. chemical engineering per hr. @ $4.00	$ 850
I00 hrs. geological consultants per hr. @ $5.00	$ 500
480 hrs. scientific testing of radioactive minerals per hr. @ $5.00 (and radiometric testing and gamma ray logging)	$2,360

6(d) Operating Equipment -

I2 months air compressors and jack hammers per mo. @ $250	$3,000
80 hrs. bulldozer per hr. @ $I0.00	$ 800
80 hrs. truck (heavy)	$ 250
I60 hrs. truck (light)	$ 250

288 days automobiles @ $5.00 per day (furnished by operator)	$I,440
6 mos. catapillar tractor shovel bucket (on purchase plan if desired)	$I,500
Scintillation Counter (owned and furnished by operator)	$ 300
Geiger Counter (owned and furnished by operator)	$ I50
Gamma Ray logging equipment for formation testing bore holes (owned and furnished by operator)	$ I50
Blasting Machine (DuPont)	$ I35
Galvometer for testing blast caps (safety device)	$ 25
Water pump	$ 250
IOOO ft. of 2 inch water hose (plastic) per IOO ft. $35.00	$ 350

6(c) Operating Materials and Supplies -

IO,000 lbs. blasting and explosive materials (40%) per IOO lbs (average) $25.I4	$2,5I4
8,000 lbs blasting and explosive materials (60%) per IOO lbs $26.74	$2,I39.20
2,500 blasting caps (instant and delayed) $23.50 per IOO	$ 587.50
2000 ft. of wiring for blasting (small wire)	$ 25

I00 Drill bits (carbon inset) each $I5.90 (jack hammer)	$I,590
30 peices drill steel for jack hammer each $I0.00	$ 300
500 ft. Air Compresser hose 60¢ per foot	$ 300
400 ft. blasting machine lead line $II Per roll of 200 ft.	$ 25
20 shovels @ $4.00	$ 80
I0 picks @ $3.75	$ 37.50
2 mattocks @ $3.75	$ 7.50
5 sledge hammers @ $6.00	$ 30
I0 pad locks @ I.50	$ I5
6(e) Rehabilitation and Repairs -	
Repairs to buildings - for blast magazine and tools	$ 500
Repairs to close buildings hit by blasting rocks and repairs to blasted fences	$ 500
6(f) New Building etc. -	
6(g) Miscellaneous -	
Analytical work	$ 250
I440 hrs. Accounting and booking per hr. $I.50	$2,I60
Workmen's compensation and Employer's liability insurance (above ground $9.8I per $I00) (below ground $7.27 per $I00)	$ 665.I8
Payroll taxes	$ 4I7.40
6(h) Contingencies	$ 500
Total -	$6I,038.28

Copies of "Exhibit No. I" and "Ehibit No. 2" and the map are filed with the original copy only.

EXHIBIT NO. I

NORTH CAROLINA

AVERY COUNTY

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NOV 17 1955

ASSIGNMENT AFFECTING RECORD TITLE TO MINERAL LEASES

The undersigned, as owners of record title interest as hereinafter specified in the mineral leases designated below, for good and valuable considerations do hereby assign to GREENBERRY SIMMONS and CHARLES C. SIMMONS, a partnership, doing business as SIMMONS and SIMMONS, Kentucky Home Life Building, Louisville 2, Kentucky, the right title, and interest in and to the lands embraced in such leases as specified below, giving and granting to assignee rights and privileges as lessee in such lands, to the extent indicated, subject to the reservations of overriding royalties as herein noted:

Lands affected by this assignment:

1. That certain Mining Lease executed by Willie Atkins, dated March 19, 1955, to George W. Nesbitt, Clark Ellis and Charlie Ogyn, containing 8- 3/16 acres, more or less, and being of record in the Office of the Register of Deeds for Avery County, North Carolina, in Book No. 51, at page 175, to which reference is hereby made.

2. That certain Mining Lease executed by Willie Adkins, dated January 15, 1955, to George W. Nesbitt, containing 13 acres, more or less, and being of record in the Office of the Register of Deeds for Avery County, North Carolina in Book No. 51, at page na- 100, to which reference is hereby made.

3. That certain Mining Lease executed by Willie Adkins, Edith Adkins, Frances Adkins Hicks, and John H. Holtsclaw, dated January 14, 1955, to George W. Nesbitt, containing 8-2/5 acres, more or less, and being of record in the Office of the Register of Deeds for Avery County, North Carolina in Book No. 51, at page 104, to which reference is hereby made.

4. That certain Mining Lease executed by A. L. Miller and wife, Penny Miller, dated April 11, 1955, to George W. Nesbitt, Clark Ellis and Charlie Ogyn, containing 8 acres, more or less, and being of record in the Office of the Register f Deeds for Avery County, North Carolina in Book No. 51, at page 316, to which reference is hereby made.

5. That certain Mining Lease executed by Mrs. Nora Johnson, Administrator for Ernest Johnson Estate, dated April 15, 1955, to George W. Nesbitt, Clark Ellis and Charlie Ogyn, containing Two Tracts, the first tract containing 4 acres, more or less, and the second tract being as described, the same being of record in the Office of the Register of Deeds for Avery County, North Carolina, in Book No. 51, at page 318, to which reference is hereby made.

6. That certain Mining Lease executed by W. M. Oakes and wife, Mary Oakes, dated April 11, 1955, to George W. Nesbitt, Clark Ellis and Charlie Guyn, containing several tracts of land as described in said lease, and being of record in the Office of the Register of Deeds for Avery County, North Carolina in Book No. 50, at page 120, to which reference is hereby made.

7. That certain Mining Lease executed by Sindy (Cindy) Bare, dated March 3, 1955, to George Nesbitt and Charlie Guyn, containing 9 acres, more or less, and being of record in the Office of the Register of Deeds for Avery County, North Carolina in Book No. 51 at pages 138 and 139, to which reference is hereby made.

8. That certain Mining Lease executed by Roly M. Greer and wife, Alice Greer, dated February 28, 1955, to George W. Nesbitt and Charlie Guyn, containing 11½ acres, more or less, and being of record in the Office of the Register of Deeds for Avery County, North Carolina in Book No. 51, at page 153, to which reference is hereby made.

9. That certain Mining Lease executed by Chessie Lunsford and wife, Lucy Lunsford, dated March 14, 1955, containing several tracts of land as described in said lease, to George W. Nesbitt, Clark Ellis and Charlie Guyn, and being of record in the Office of the Register of Deeds of Avery County, North Carolina in Book No. 51, at page 171, to which reference is hereby made.

10. That certain Mining Lease executed by Mr. and Mrs. Virgil Johnson, dated March 15, 1955, to George W. Nesbitt, Clark Ellis and Charlie Guyn, containing several tracts of land as described in said lease, and being of record in the Office of the Register of Deeds for Avery County, North Carolina, in Book No. 51, at page 173, to which reference is hereby made.

11. That certain Mining Lease executed by Elk River Falls Fishing and Country Club, Inc., dated March 3, 1955, to George W. Nesbitt and Charlie Guyn, containing several tracts of land as described in said lease, and being of record in the Office of the Register of Deeds for Avery County, North Carolina in Book No. 51, at pages 140 and 141, to which reference is hereby made.

12. That certain Mining Lease executed by Nelson Hicks and wife dated January 15, 1955, to George W. Nesbitt, containing 6½ acres, more or less, and being of record in the Office of the Register of Deeds for Avery County, North Carolina, in Book No. 51, at page 97, to which reference is hereby made.

13. That certain Mining Lease executed by Martha Sheppard, dated February 24, 1955, to George W. Nesbitt and Charlie Guyn, containing 14½ acres, more or less, and being of record in the Office of the Register of Deeds for Avery County, North Carolina in Book No. 51, at page ~~402~~ 402, to which reference is hereby made.

14. That certain Mining Lease executed by Charlie Guyn and wife, Pearl Guyn, dated February 25, 1955, to George W. Nesbitt, containing 242 acres, more or less, and being of record in the Office of the Register of Deeds for Avery County, North Carolina in Book No. 50 at pages 119 and 120, to which reference is hereby made. A correction of the above lease has been made and is of record in the said Register of Deeds office in Deed Book No. 51 at pages 535

The assignor , George W. Nesbitt ———————— retain 1/20th royalty on lease number 14 in addition to the 1/20th specified in said lease

All of the lessee-assignors of each lease are to retain collectively a total of one ten per cent (10%) of the working interest under leases numbers 1 through 6 inclusive, and also lease number 14; and retain seven and one-half per cent (7½%) of the working interest under leases numbers 7 through 13 both inclusive.

If the U. S. Government pays a bonus on uranium discovery the assignees relinquish any right they have to the assignors to the first such Ten Thousand Dollars paid ($10,000.00). If the assignors do not collect the said Ten Thousand Dollars ($10,000.00) then the assignees are to allow the assignors a mineral payment of Ten Thousand Dollars ($10,000.00), to be paid out of the first one-half (½) of the proceeds obtained from the sales of the minerals until it is equal to the sum of Ten Thousand Dollars ($10,000.00).

If the assignees do not commence operations on the land of at least one of the leases within six (6) months after the date of this assignment, then the assignees releases their further rights under this assignment.

In Testimony Whereof, the assignors herein have executed, subscribed their names, and affixed their seals hereunto, this the 6th day of July, 1955.

George W. Nesbitt (SEAL)
George W. Nestdtt, Assignor

Avis Nesbitt (SEAL)
Avis Nesbitt, Assignor

Charlie Gwyn (SEAL)
Charlie Gwyn, Assignor

X Pearl Gwyn (SEAL)
Pearl Gwyn, Assignor

Clark Ellis (SEAL)
Clark Ellis, Assignor

Maxine Ellis (SEAL)
Maxine Ellis, Assignor

NORTH CAROLINA

Guilford COUNTY

I, G. P. Brinkley, a Notary Public in and for said State and County, do hereby certify that George W. Nesbitt and wife, Avis Nesbitt, Charlie Gwyn and wife, Pearl Gwyn, and Clark Ellis and wife, Maxine Ellis, did each personally appear before me this date and acknowledge the due execution of the foregoing Assignment Affecting Record Title To Mineral Leases, for the purposes therein expressed.

Witness my hand and Notarial Seal, this the 6 day of July, 1955.

G. P. Brinkley
Notary Public

My commission expires:

June 3, 1957

In testimony whereof the assignors after approving the alterations and changes, herein have reexecuted, and subscribed their names the second time, and affixed their seals hereunto, this the 12 day of Sept. 1955.

Geo. W. Nesbitt SEAL
George W. Nesbitt, Assignor

Avis Nesbitt SEAL
Avis Nesbitt, Assignor

Charlie Gwyn SEAL
Charlie Gwyn, Assignor

× Pearl Gwyn SEAL
Pearl Gwyn, Assignor

Clark Ellis SEAL
Clark Ellis, Assignor

Maxine Ellis SEAL
Maxine Ellis, Assignor

North Carolina

Avery County.

I, A.P. Brinkley Notary Public in and for said State and County, do hereby certify that George W. Hobbitt and wife, Avis Hobbitt, Charlie Guyn and wife, Pearl Guyn, and Clark Ellis and wife, Mandro Ellis, did personally appear before me this date and acknowledge the due execution of the foregoing Assignment Affecting Record Title to Mineral Leases, for the purposes therein expressed.

Witness my hand and Notorial Seal, this the 12 day of Sept. 1955.

A.P. Brinkley
Notary Public

My commission expires:
June 3, 1957

State of North Carolina, Avery County

The foregoing certificate of A.P. Brinkley a Notary Public of Avery County, State of N.C. under his official seal, is adjudged to be correct. Let the said instrument and the certificate be registered.

This 29 day of October 1955 J.W. Buchanan (signed)
Clerk of Superior Court

North Carolina
Office of Register of deeds
Avery County

Filed for registration at 10:57 AM, on the 29 day of Oct. 1955, and registered in this office in Book 52 at page 2,3,&4 this the 29 day of Oct. 1955. Grant Webb (signed)
Register of Deeds

MINING LEASE

EXHIBIT NO 2

RECEIVED NOV 17 1955

State of North Carolina Avery County:

This indenture made this 15 day of January 1955, between Willie Adkins of Avery County and State of North Carolina as party of the first part, and known as lessor, and George W. Nesbitt of Avery County and State of North Carolina, party of the second part and known as lessee.

WITNESSETH, That the party of the first part in consideration of One Dollar in hand received and hereby acknowledged by the lessor, and in consideration of the agreements hereinafter contained, on the part of the party of the second part to be performed, hereby bargains, leases and grants to the party of the second part, and his heirs and assigns, for the period of five years from the date of this agreement, the following described real property, for mining purposes, in the County and State first above written to wit: BEGINNING on a stake corner at the creek near the bridge and runs runs north 10 degrees west 9½ poles to a stake in Cooper's Bottom; thence north 40 degrees East 1 pole to a maple; thence north 81 degrees west 23 poles to a chestnut oak corner; thence with Staples line 5 poles to a stake in Staples' line; thence north 42 poles to a stake corner in the flat near top of ridge at a white oak and chestnut pointers; thence with the meanders of ridge n north east 60 poles to a stake corner; thence north 56½ degrees east 49½ poles to a stake corner in the middle of the creek near a birch snag; thence with the creek south 8½ degrees west 59½ pole 11 links, more or less, to a maple corner; Jim Baird's corner; thence south 55 degrees west with Highway 45 poles to the beginning, containing 13 acres, more or less. This property is recorded in Avery County Reg. of Deeds Office, Book 46, page 608

TO HAVE AND TO HOLD the said lands to him, for mining purposes, the said lessee and his heirs and assigns for the aforesaid period of five years in compliance with the condition of this instrument, for the purpose and with the right to dig, quarry, search, explore for, obtain, and remove any kind of minerals, metals or fossils, and particularly mica, and to conduct the same to any extent the said party of the second part, the lessee, may desire. And it is hereby agreed between the parties to this agreement that the party of the second part is to have the use of any unoccupied buildings on said lands for mining purposes, and that he shall have the right to erect such buildings as he needs to carry on such mining operatins during the period of this lease, and that the party of the second part shall keep the same in as good condition as when received, unavoidable accidents excepted. And it is also agreed by the party of the second part that no unnecessary damage is to be done to the lands herein leased during the period of this lease and the continuance of said lease, but the said party of the second part shall have the right to take from said lands leased to the party of the second part any wood or timber the party of the second part may need to carry on said mining operations or which may be needed to carry on the addition to existing buildings or to erect new buildings or sheds on said lands. (Timber of high or special market value is excepted and shall not be used by the lessee.) And it is hereby agreed that the party of the second part, the lessee, is to have right-of-way of ingress and egress to said mines or land upon which exploration is being conducted.

AND IT IS FURTHER AGREED That the party of the second part, the lessee hereby agrees to pay to the said part of the first part, or his or their heirs or assigns, a rental royalty of 1/10th on all Minerals

on the minerals taken and sold from said mines which shall be for the use of the said lands for the aforesaid period of five years. The said amounts shall be payable on the computation of selling bills on the tenth day of each month covering sales made during the previous month. Any minerals other than those set forth above which may be taken and sold shall be paid for and at the usual royalty rate of the minerals taken.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, shall have the option to renew this lease and to extend the period of its running for an additional five years from the date of its present termination. The option shall be exercised by giving formal written notice to the party of the first part or by the continuation of any mining operations then being conducted. The lessor reserve the right to use the land, or convey the same not conflicting with this lease, but under any conveyance the terms of this lease must be recognized by the grantee, purchaser, or assigns thereof. And it is agreed that the lessee may assign this mining lease or any part thereof and that he may sublease.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, is hereby given an option to purchase all the right, title and interest, legal and equitable to and in the real estate described and set forth in this lease for a total purchase price of _____, said purchase price to be paid in full within three years from the date of this instrument and it is agreed that all rental royalties paid to the party of the first part shall apply toward and be a part of the total purchase price above set forth, and that at such time that the total purchase price is paid in the form of royalties or a lump sum payment or a combination of both, the party of the first part will execute a special warranty deed to the party of the second part and that a tender of the remaining purchase price at any time within the next three years shall entitle the party of the second part to specific performance of this option contract.

BUT IT IS EXPRESSLY AGREED That unless mineral or fossil material of practical value for mining purposes shall be found within a period of ten years from the date of this instrument, the ~~lease may be terminated by the lessee at any time thereafter on thirty days notice to the lessor~~. ~~The lessee agrees that during the period of this lease or the continuance of this lease work in said mines or exploration for new mines within the area leased shall not cease longer than ninety days at any one time, unavoidable accidents excepted~~

WITNESS our hands and seals the day and year first above written.

Witness: A. G. Birchfield

Willie Adkins (Seal)

(Seal)

(Seal)

NORTH CAROLINA,
AVERY COUNTY.

I, A. P. Brinkley a Notary Public in and for Avery County, N.C.

do hereby certify that Willie Adkins

personally appeared before me this day and acknowledged the due execution of the

foregoing or attached lease, for the purposes therein expressed.

Witness my hand and Notarial Seal, this the 24 day of Jan 19 55

My commission expires on the 3 day of

June 19 55

A. P. Brinkley

STATE OF NORTH CAROLINA, AVERY COUNTY

The foregoing certificate of A. P. Brinkley

a Notary Public of Avery County, State of N.C.

~~under his official seal, is adjudged to be correct.~~ Let the said instrument

and the certificate be registered.

This 17 day of February 1955

J. W. Buckner
Clerk of Superior Court

NORTH CAROLINA
AVERY COUNTY

OFFICE OF REGISTER OF DEEDS

Presented for registration at 1:00 o'clock P.M.

this the 17 Feb 1955, and registered in this office in Book 57 at page 100, this the 22 day of Feb 195

Grant Webb
Register of Deeds

MINING LEASE

State of North Carolina Avery County:

This indenture made this 19 day of March 1955, 1953,

between Willie Atkins

of Avery County and State of North Carolina as party of the first part, and known as lessor, and George W. Nesbitt, Clark Ellis & Charlie Gwyn

of Avery County and State of North Carolina, party of the second part and known as lessee.

WITNESSETH, That the part of the first part in consideration of One Dollar in hand received and hereby acknowledged by the lessor, and in consideration of the agreements hereinafter contained, on the part of the party of the second part to be performed, hereby bargains, leases and grants to the party of the second part, and his heirs and assigns, for the period of five years from the date of this agreement, the following described real property, for mining purposes, in the County and State first above written to wit: Beginning on a stake in Middle of creek, John Adkins corner, and runs down said creek 36½ poles to Elk River; thence down Elk river 47 poles to a stake, corner thence south 4 degrees west 64 poles to a stake, corner in John Adkins line; thence with John Adkins line 21½ poles to a stake, corner John Adkins line; thence with John Adkins line 21½ poles to a stake, corner of John Adkins corner; thence north 56½ degrees east with John Adkins line 49½ poles to the beginning containing 8-3/16 acres, more or less.
Registered in Avery County Reg. of Deeds Office Book No. 33, page 610

TO HAVE AND TO HOLD the said lands to him, for mining purposes, the said lessee and his heirs and assigns for the aforesaid period of five years in compliance with the condition of this instrument, for the purpose and with the right to dig, quarry, search, explore for, obtain, and remove any kind of minerals, metals or fossils, ~~and particularly mica~~, and to conduct the same to any extent the said party of the second part, the lessee, may desire. And it is hereby agreed between the parties to this agreement that the party of the second part is to have the use of any unoccupied buildings on said lands for mining purposes, and that he shall have the right to erect such buildings as he needs to carry on such mining operatins during the period of this lease, and that the party of the second part shall keep the same in as good condition as when received, unavoidable accidents excepted. And it is also agreed by the party of the second part that no unnecessary damage is to be done to the lands herein leased during the period of this lease and the continuance of said lease, but the said party of the second part shall have the right to take from said lands leased to the party of the second part any wood or timber the party of the second part may need to carry on said mining operations or which may be needed to carry on the addition to existing buildings or to erect new buildings or sheds on said lands. (Timber of high or special market value is excepted and shall not be used by the lessee.) And it is hereby agreed that the party of the second part, the lessee, is to have right-of-way of ingress and egress to said mines or land upon which exploration is being conducted.

AND IT IS FURTHER AGREED That the party of the second part, the lessee hereby agrees to pay to the said part of the first part, or his or their heirs or assigns, a rental royalty of 1/10th on all Minerals, Espacially Radioactive ores.

on the minerals taken and sold from said mines which shall be for the use of the said lands for the aforesaid period of five years. The said amounts shall be payable on the computation of selling bills on the tenth day of each month covering sales made during the previous month. Any minerals other than those set forth above which may be taken and sold shall be paid for and at the usual royalty rate of the minerals taken.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, shall have the option to renew this lease and to extend the period of its running for an additional five years from the date of its present termination. The option shall be exercised by giving formal written notice to the party of the first part or by the continuation of any mining operations then being conducted. The lessor reserve the right to use the land, or convey the same not conflicting with this lease, but under any conveyance the terms of this lease must be recognized by the grantee, purchaser, or assigns thereof. And it is agreed that the lessee may assign this mining lease or any part thereof and that he may sublease.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, is hereby given an option to purchase all the right, title and interest, legal and equitable to and in the real estate described and set forth in this lease for a total purchase price of _____, said purchase price to be paid in full within three years from the date of this instrument and it is agreed that all rental royalties paid to the party of the first part shall apply toward and be a part of the total purchase price above set forth, and that at such time that the total purchase price is paid in the form of royalties or a lump sum payment or a combination of both, the party of the first part will execute a special warranty deed to the party of the second part and that a tender of the remaining purchase price at any time within the next three years shall entitle the party of the second part to specific performance of this option contract.

~~BUT IT IS EXPRESSLY AGREED That unless mineral or fossil material of practical value for mining purposes shall be found within a period of two years from the date of this instrument, the lease may be terminated by the lessee at any time thereafter on thirty days notice to the lessor. The lessee agrees that during the period of this lease or the continuance of this lease work in said mines or exploration for new mines within the area leased shall not cease longer than ninety days at any one time, unavoidable accidents excepted.~~

WITNESS our hands and seals the day and year first above written.

Witness:

A. J. Kinsley

Willie Atkins (Seal)

(Seal)

(Seal)

NORTH CAROLINA,
AVERY COUNTY.

I, G. P. Brinkley, a Notary Public in and for Avery County, N.C., do hereby certify that Willie Atkins

personally appeared before me this day and acknowledged the due execution of the foregoing or attached lease, for the purposes therein expressed.

Witness my hand and Notarial Seal, this the 23 day of March, 1957

My commission expires on the 3 day of June, 1958

G. P. Brinkley
Notary Public

STATE OF NORTH CAROLINA, AVERY COUNTY

The foregoing certificate of G. P. Brinkley a Notary Public of Avery County, State of N.C., under his official seal, is adjudged to be correct. Let the said instrument and the certificate be registered.

This 28 day of March 1957

J. W. Buchanan
Clerk of Superior Court

NORTH CAROLINA
AVERY COUNTY } OFFICE OF REGISTER OF DEEDS

Filed for Registration at 2 o'clock P.M. on the 28 day of March 1957, and registered in this office in Book 57 at page 175 this the 28 day of March 1957

Register of Deeds

Being the same land conveyed by Jim Beard and others to the party of the first partyby deed dated April 1, 1939 and of record in the office of the register of deeds for Avery County in book 33 at page 612.

MINING LEASE

RECEIVED
NOV 17 1955

State of North Carolina Avery County:

This indenture made this 14 day of Jan. 1955 1953,

between Willie Adkins, Edith Adkins, Frances Adkins, John H. Holtsclaw

of AVERY County and State of North Carolina as party of the first part, and known as lessors, and Geo. W. Nesbitt

of Avery County and State of North Carolina, party of the second part and known as lessee.

WITNESSETH, That the part of the first part in consideration of One Dollar in hand received and hereby acknowledged by the lessor, and in consideration of the agreements hereinafter contained, on the part of the party of the second part to be performed, hereby bargains, leases and grants to the party of the second part, and his heirs and assigns, for the period of five years from the date of this agreement, the following described real property, for mining purposes, in the County and State first above written to wit:

Beginning on a stake, Pearl Oaks cornerand John Adkins corner, a nd runs with John Adkins' line 41 poles, more or less , to a stake corner in a flat near a white oak; thence north Westwardly with Pruetts line 12 poles, more or less, to a locust on a rock ; thence with Pruetts line 154 poles, more or less, to a rock corner near the river; thence back up the river60 poles, more or less, to Pearl Oaks Corner; thence with Pearl Oaks line south 4 degrees west 64 poles to, the beginning; containing 8 2/5 acres, more or less.

TO HAVE AND TO HOLD the said lands to him, for mining purposes, the said lessee and his heirs and assigns for the aforesaid period of five years in compliance with the condition of this instrument, for the purpose and with the right to dig, quarry, search, explore for, obtain, and remove any kind of minerals, metals or fossils, and particularly mica, and to conduct the same to any extent the said party of the second part, the lessee, may desire. And it is hereby agreed between the parties to this agreement that the party of the second part is to have the use of any unoccupied buildings on said lands for mining purposes, and that he shall have the right to erect such buildings as he needs to carry on such mining operatins during the period of this lease, and that the party of the second part shall keep the same in as good condition as when received, unavoidable accidents excepted. And it is also agreed by the party of the second part that no unnecessary damage is to be done to the lands herein leased during the period of this lease and the continuance of said lease, but the said party of the second part shall have the right to take from said lands leased to the party of the second part any wood or timber the party of the second part may need to carry on said mining operations or which may be needed to carry on the addition to existing buildings or to erect new buildings or sheds on said lands. (Timber of high or special market value is excepted and shall not be used by the lessee.) And it is hereby agreed that the party of the second part, the lessee, is to have right-of-way of ingress and egress to said mines or land upon which exploration is being conducted.

AND IT IS FURTHER AGREED That the party of the second part, the lessee hereby agrees to pay to the said parties the first part, or his or their heirs or assigns, a rental royalty of 1/10 On all minerals

on the minerals taken and sold from said mines which shall be for the use of the said lands for the aforesaid period of five years. The said amounts shall be payable on the computation of selling bills on the tenth day of each month covering sales made during the previous month. Any minerals other than those set forth above which may be taken and sold shall be paid for and at the usual royalty rate of the minerals taken.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, shall have the option to renew this lease and to extend the period of its running for an additional five years from the date of its present termination. The option shall be exercised by giving formal written notice to the party of the first part or by the continuation of any mining operations then being conducted. The lessor reserve the right to use the land, or convey the same not conflicting with this lease, but under any conveyance the terms of this lease must be recognized by the grantee, purchaser, or assigns thereof. And it is agreed that the lessee may assign this mining lease or any part thereof and that he may sublease.

AND IT IS FURTHER AGREED That the lessee, the party of the second part, his heirs or assigns, is hereby given an option to purchase all the right, title and interest, legal and equitable to and in the real estate described and set forth in this lease for a total purchase price of _____, said purchase price to be paid in full within three years from the date of this instrument and it is agreed that all rental royalties paid to the party of the first part shall apply toward and be a part of the total purchase price above set forth, and that at such time that the total purchase price is paid in the form of royalties or a lump sum payment or a combination of both, the party of the first part will execute a special warranty deed to the party of the second part and that a tender of the remaining purchase price at any time within the next three years shall entitle the party of the second part to specific performance of this option contract.

BUT IT IS EXPRESSLY AGREED That unless mineral or fossil material of practical value for mining purposes shall be found within a period of ~~five~~ 15 years from the date of this instrument, the lease may be terminated by the lessee at any time thereafter on thirty days notice to the lessor. ~~The lessee agrees that during the period of this lease or the continuance of this lease work in said mines or exploration for new mines within the area leased shall not cease longer than ninety days at any one time, unavoidable accidents excepted.~~

WITNESS our hands and seals the day and year first above written.

Witness:

Willie Adkins (Seal)

Edith Adkins (Seal)

Frances Adkins Hicks (Seal)

Guardian for John H. Holtsclaw — Willie Adkins Holtsclaw

I, A. P. Brinkley, Notary Public, hereby certify that Millie Adkins Hallsclaw, guardian of John H. Hallsclaw Willie Adkins, Edith Adkins, Francis Adkins and Geo. W. Nesbitt all personally appeared before me this date and acknowledge the due executionof the forthgoing mining lease for the use and purposes therein expressed.

Witness my hand and notrial seal this 14 day of Feb 1955.

A. P. Brinkley
Notary Public

My commission expires: June 3 1955

STATE OF NORTH CAROLINA, AVERY COUNTY

The foregoing certificate of A. P. Brinkley a Notary Public of Avery County, State of N. C. under his official seal, is adjudged to be correct. Let the said instrument and the certificate be registered.

This 15th day of February 1955

J. Walter Buchanan
Clerk of Superior Court.

NORTH CAROLINA
AVERY COUNTY
OFFICE OF REGISTER OF DEEDS

Filed for Registration at 3:15 o'clock P.M., on the 15 day of Feb 1955, and registered in this office in Book 57 at page 104, this the 15 day of Feb 1955

Grant Webb
Register of Deeds

Crawford

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1025 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

RECEIVED
NOV 17 1955

November 15, 1955

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V -

Subject: Application from Simmons & Simmons, Elk Park, N. C. (uranium)

Enclosed are three copies of an application from Simmons & Simmons, P.O. Box 567, Elk Park, N. C., which was received here yesterday, accompanied by one copy of each lease and one copy of each lease assignment. Also enclosed are 3 copies of our letter to the applicant, and 3 copies of a letter from the State Geologist of North Carolina in reply to our inquiry about these prospects. We are keeping the fourth copy of the application for our use.

Mr. Greenberry Simmons spent about three hours in conference with us on November 4, before submitting his application a week later. Most of the suggestions we made were not incorporated in the application. Especially lacking are adequate geological and assay data. We doubt that correspondence will produce anything additional and therefore believe that a field examination will be necessary, in order to make any kind of recommendation on this proposal.

This property is in a 5-county area in which there has been a great deal of prospecting for uranium, with many occurrences of uranium minerals, not all of which are associated with pegmatites. In spite of all the excitement over the past 15 months, and drilling of 3 properties by New Jersey Zinc Company, as well as drilling by at least three different local prospectors, no ore bodies have been discovered, so far as we know. This district is not part of the Spruce Pine pegmatite district.

Robert A. Laurence, Exec. Officer
DMEA Field Team, Region V

V. J. Lynch, Member
Bureau of Mines

Rtl/mm

Processing Plant Sought In ET For Uranium

ROAN MOUNTAIN, Nov. 13 (AP)—Congressman Charles R. Jonas of North Carolina today assured uranium prospectors he would support their efforts to secure a processing plant for this area.

Jonas told the Appalachian Uranium Association meeting he would request a meeting with the Atomic Energy Commission and "see if they could work out something for this section."

He added the association will assure the area of a concentrated effort in getting the plant.

A committee was appointed to study a proposed contract with a uranium processing company which is interested in placing a mill in the East Tennessee area.

A company spokesman said the plant would need 200 tons of ore daily to assure its continued operation.

The association is composed of uranium prospectors of the Upper East Tennessee-Western North Carolina area.

RECEIVED
NOV 17 1955

November 15, 1955

Mr. Greenberry Simmons
Simmons & Simmons
P.O. Box 567
Elk Park, North Carolina

Dear Mr. Simmons:

Your application for aid in exploration for uranium on the Adkins Properties in Avery County, North Carolina has been forwarded to our Washington office, in accordance with established procedure. We will notify you in advance if a field examination is to be made.

Although the executed Owner's Consent to Lien is not needed until a contract has been approved, it is advisable to submit these documents while the application is being processed, to avoid further delay in the event an exploration contract is approved.

If, in the meanwhile, you can get a channel sample which represents a true sample of your vein and have it assayed, the results would be most helpful in evaluating your proposal. As we explained during your visit here, the analyses given in item 5d of your application are interesting and encouraging, but they represent specimens and not samples, and your proposal will be much stronger if supported with analyses of properly taken samples.

Very truly yours,

Robert A. Laurence
Executive Officer, DMEA
Field Team, Region V

RAL/sm
cc:
Lynch
Shirley
Files
Opr. Com.-3

RECEIVED
NOV 17 1955

STATE OF NORTH CAROLINA
DEPARTMENT OF CONSERVATION AND DEVELOPMENT
BEN E. DOUGLAS, DIRECTOR
RALEIGH

November 7, 1955

BOARD

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B. C. SNOW

MINERAL RESOURCES
DR. J. L. STUCKEY

W. RAY BISHOP
AUDITOR

Mr. Robert A. Laurence
Executive Officer, DMEA
Room 13, Post Office Building
Knoxville 2, Tennessee

Dear Mr. Laurence:

Mr. Richard J. Councill of this department has visited at least twice the prospecting project of Simmons & Simmons for uranium in Avery County, North Carolina. No report has been prepared covering the project nor have any letters been written making specific recommendations. Mr. Councill has simply gone over the work on the ground and tried to indicate what seemed to him to be the best procedure to follow. On his last visit to the site two or three weeks ago, he told the people he thought they might be cautiously encouraged. I regret that we do not have any information we can furnish you which would be of value in passing on the proposal.

If an application for DMEA assistance is made and you so desire, Mr. Councill will be glad to visit the property with your men and give them the full benefit of all he has learned about it.

Very truly yours,

Jasper L. Stuckey

Jasper L. Stuckey
State Geologist

JLS:mrm

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NOV 10 1955
U. S. ... Geologic Division
Knoxville, Tenn.

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NOV 17 1955

SIMMONS & SIMMONS

LOUISVILLE 2, KENTUCKY

November 9, 1955

Defense Minerals Exploration Administration
Room 13, Post Office Bldg.
Knoxville 2, Tennessee

Att. Mr. Lawrence

Dear Mr. Lawrence:

Enclosed is four copies of our application for aid in Exploration Project, Pursuant to DMEA Order I, under the Defense Production Act of 1950, as Amended. Exploration for uranium for Simmons and Simmons #1 and #2 Adkins, 1½ miles N.E. of Elk Park, N.C., Avery County.

After talking to you we have tried to set out the information as you suggested.

We have presented Proposal #1 on page 3(a) and Proposal #2 on page 4 as alternate proposals, either one to be accepted but not both.

We shall be glad to cooperate in exchanging technical information which shall aid in the production of uranium in this area assuming it can be expeditiously done.

Sincerely yours,

by_____
Greenberry Simmons
P.O. Box 567
Elk Park, N.C.
Tel. Republic 3-4508

Reply to
temporary
address
GS/bs

RECEIVED
NOV 14 1955
Geology Division
Knoxville, Tenn.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
NOV 17 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-4063
Metal or Mineral Uranium
Date Received 11-17-55
Estimated Cost $40,000.00
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: Greenberry Simmons and Charles G. Simmons, a partnership d/b as Simmons and Simmons, Kentucky Home Life Bldg., Louisville 2, Ky. Temporary mailing address for this application- Elk Park, N.C. P.O. Box 567

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract See attached discription marked "Exhibit No.I" assignment of leases and "Exhibit No.2" duplicated copies of 3 leases each including legal discription of the land involved.

(*b*) State any mine name by which the property is known. Simmons and SimmonsNo.I and No.2

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Willie Adkins Assignee - Leasee

(*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 attached "Exhibit No.I"and "Exhibit No.2"

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

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See attached list

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. See 4(a) attached list

(*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 attached list

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

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

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NOV 14 1955
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

16—62551-1

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

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

(*c*) The work will start within 5 days and be completed within 23 months from the date of an exploration project contract.

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

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 attached list for all of No.6

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

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

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

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

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

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

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

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

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

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

☐ Money ☒ Use of equipment owned by you ☒ Other Supervision Geological Radiometric testing Auditing and Accounting

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 28, 1955, 195

Simmons and Simmons
(Applicant)

By Greenberry Simmons
Charles D. Simmons

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

Attached List

Simmons and Simmons

Answers to Numbered Questions

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NOV 17 1955

4(a) Open cuttings in several places - Scintillation Counter, Geiger Counter, Gamma Ray logging and radiometric tests made - Geological study of rocks and formations made. Drilling and blasting - several tons of U_3O_8 (Uranium) assayed at 0.42% stockpiled. We have supervised all work and own 80 to 81% of the working interest. We are the mining operators and the lease operators.

4(c) On South East end of property at Adkins #2 vein deposit and ore shoot in fault, strike N 40E, dip 45° N.W. On N.E. side of property at Adkins #I radioactive annomolies as show by open cut on face 500 ft. from Adkins #2 - Pegmatite dikes located between #I and #2. For area geology and nature of the rocks generally- see the report showing cobe results of Bureau of Mines Report of Investagators, Cranberry Magnetite Deposits R.I. 4274. This report shows that I,500,000 tons of Magnetic iron ore was taken out of large veins in this area. So there are large veins in this immediate area.

4(d) Along and adjoining State Highway #I94, N.E. of Elk Park, N.C. and between same and Heaton, N.C. Adkins #I and #2 are I½ miles N.E. of Elk Park on good black top road. All the other questions on this paragraph good except the shipping is by truck for 24 miles over good road U.S. #I9E to Elizabethton, Tenn. to R.R.

4(e) All are good, man power sufficent, materials, supplies, equipment, water and power available. Cranberry Creek and Elk River run all along leases. Power line also goes along leases. (Cheap T.V.A. Power). Adkins #I and #2 on bank of Cranberry Creek.

5(b) Make all necessary exploration and geophysical investagation Core drill, Gamma Ray logging of drill holes, where it is cheaper and better to do so. Open cut testing, drifting down the vein, laterals and shaft to determine the present ore zone. Collect and determine scientific data on the hard rocks in this crystalized area to determine the best methods of exploration, discovering, blasting and determining the extent of the ore, veins shoots and zones.

5(d) Simmons and Simmons have been in this area since July. Have worked on Uranium lease near Charleston, S.C. for 6 months. Have been operating as oil producers for 6 years. Separate contractors will do most of the core drilling, probably E.J. Longyear and Co., Minneapolis, Minn. or Sprague and Henwood Inc. Scranton, Pa. The latter Core drilled in this area for Bureau of Mines for several years in the I940's. The N.C. State Geologist and Mining Engineer have been working with us in

this matter since July and have been here three times and is optimistic about it. The Du Pont Co. and Hercules Powder Co. technicians on powder blasting have been sent here and are cooperating on these leases.

For general data on this area we have obtained all available information from the State of N.C., Tenn., U.S. Geological Survey, Bureau of Mines.

We have had Chemical Engineers and Assay Companies test the Uranium samples and have reports showing U_3O_8 at 0.42% and I.I3% with only small amount of Thorium 0.02%.

Proposal #I

6. #2 Adkins:

I50 ft. of Incline shaft $60 per ft.	$9,000
I40 ft. of Drifts (off of shaft) $45 per ft.	$6,300

#I Adkins:

I50 ft. of Incline shaft $60 per ft.	$9,000
I40 ft. Drifts (off of shaft) $45 per ft.	$6,300
Geological Consultants and etc. -	$5,000
Contingencies -	$3,400
Total -	$40,000

$39,000

Exploration of Proposal #I

See the map which shows Simmons and Simmons #2 Adkins. We will drive an incline shaft following the vein down N 45° W to depth of I50 ft. The ore vein or zone is two ft. in width . We will drift off of the shaft for I40 ft. laterally as the vein necessitates. This vein is in a fault zone, N 40°E along the strike. This entrance in the hill would be 50 ft. below the level of the entrance to #I Adkins. The entrance of #I goes into the hill where it is much steeper than the entrance to #2.

Also see map showing Simmons and Simmons #I Adkins. It is 475 ft. north by I0° west from Adkins #2. We will drive a incline shaft 45° E following the ore zone for I50 ft. We will drift off the shaft lateraly I40 ft. as the ore zone necessitates.

Proposal #2

Alternate Plan

(Either plan but not both)

6(a) Independent Contracts -

I200 ft. Core drilling per foot @ $4.50	$5,400
I200 ft. Straight drill hole (to be logged) per foot @ $4.00	$4,800
I38 ft. Incline shaft per foot @ $60.00	$8,970
I00 ft. Drifts (Laterals off shaft) per ft. $45.00	$4,500
80,000 cubic yards of material per yard	$ 200
Roads to build 48 hrs. of bulldozing per hr. $I0	$ 480

6(b) Labor, Supervision, Consultants -

2880 hrs. labor per hr. @ $I.00	$2,880
I440 hrs. supervision per hr. @ $3.00	$4,320
960 hrs. supervision and engineering per hr. @ $4.00	$3,840
I00 hrs. mining engineering per hr. @ $5.00	$ 500
2I2½ hrs. chemical engineering per hr. @ $4.00	$ 850
I00 hrs. geological consultants per hr. @ $5.00	$ 500
480 hrs. scientific testing of radioactive minerals per hr. @ $5.00 (and radiometric testing and gamma ray logging)	$2,360

6(d) Operating Equipment -

I2 months air compressors and jack hammers per mo. @ $250	$3,000
80 hrs. bulldozer per hr. @ $I0.00	$ 800
80 hrs. truck (heavy)	$ 250
I60 hrs. truck (light)	$ 250

288 days automobiles $5.00 per day (furnished by operator)	$1,440
6 mos. catapillar tractor shovel bucket (on purchase plan if desired)	$1,500
Scintillation Counter (owned and furnished by operator)	$ 300
Geiger Counter (owned and furnished by operator)	$ 150
Gamma Ray logging equipment for formation testing bore holes (owned and furnished by operator)	$ 150
Blasting Machine (DuPont)	$ 135
Galvometer for testing blast caps (safety device)	$ 25
Water pump	$ 250
1000 ft. of 2 inch water hose (plastic) per 100 ft. $35.00	$ 350

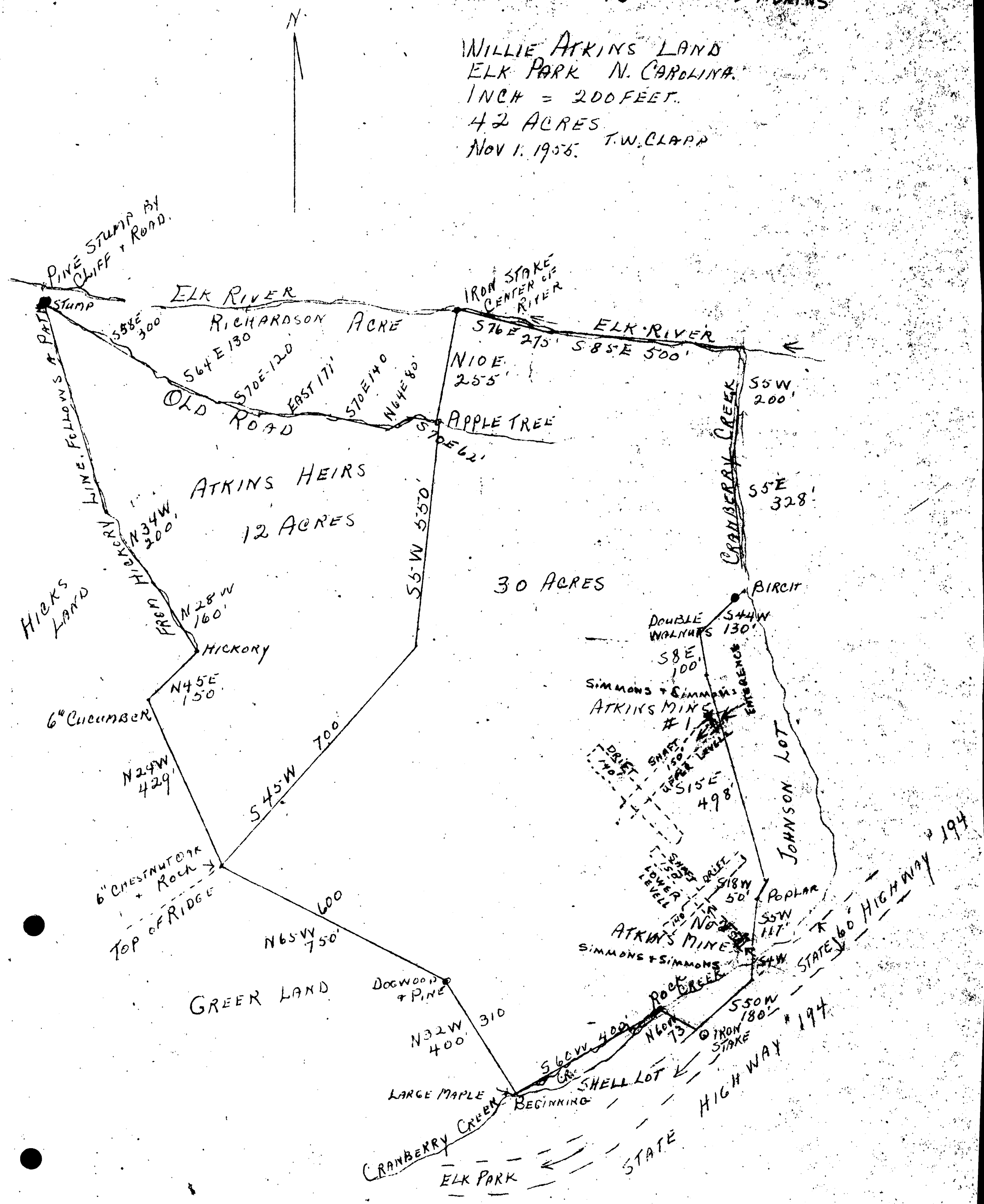
6(c) Operating Materials and Supplies -

10,000 lbs. blasting and explosive materials (40%) per 100 lbs (average) $25.14	$2,514
8,000 lbs blasting and explosive materials (60%) per 100 lbs $26.74	$2,139.20
2,500 blasting caps (instant and delayed) $23.50 per 100	$ 587.50
2000 ft. of wiring for blasting (small wire)	$ 25

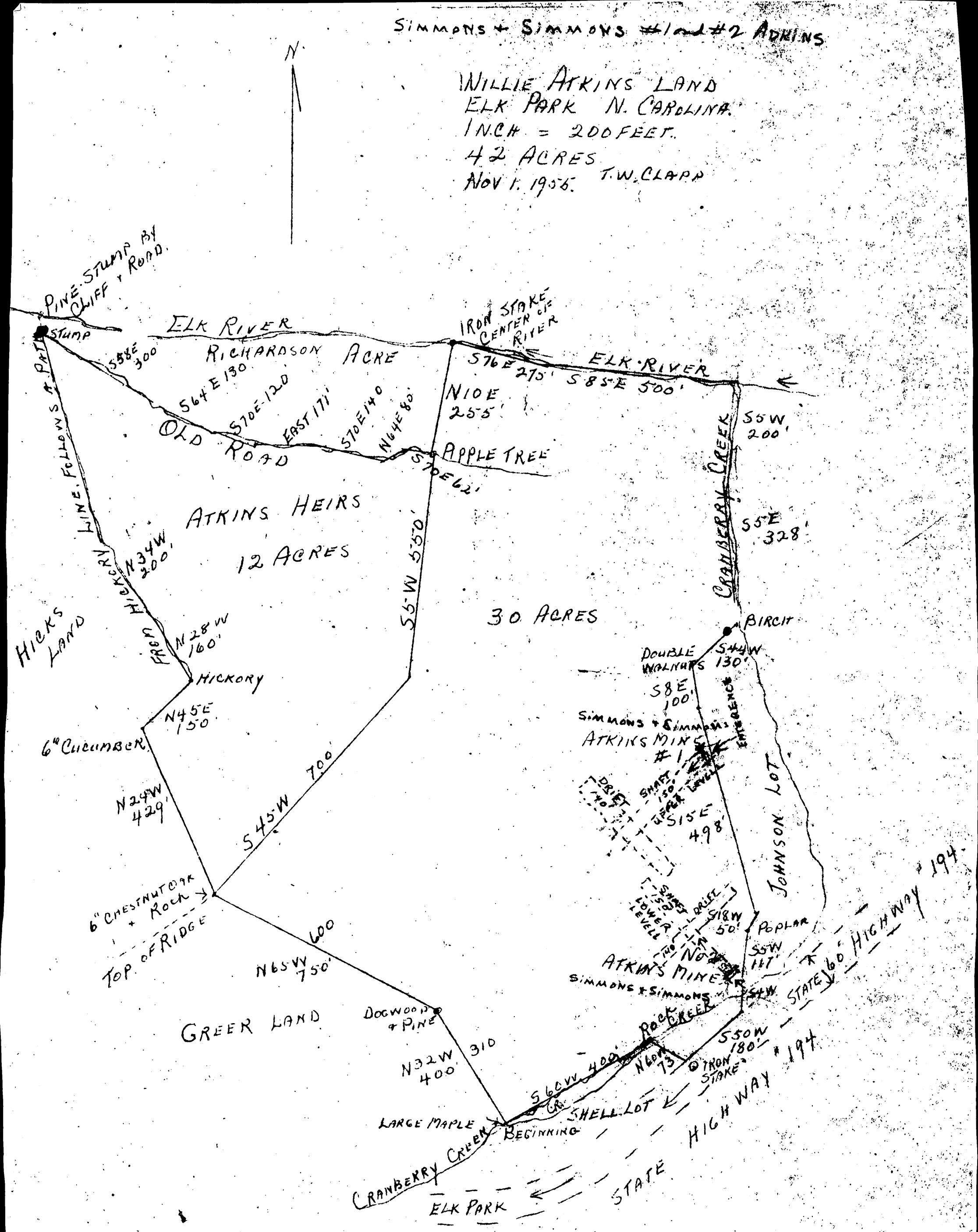
100 drill bits (carbon inset) each $15.90	
(jack hammer)	$1,590
30 pieces drill steel for jack hammer each $10.00	300
500 ft. Air compressor hose 60¢ per foot	300
400 ft. blasting machine lead line $11 per roll	
of 200 ft.	25
20 shovels @ $4.00	80
10 picks @ $3.75	37.50
2 mattocks @ $3.75	7.50
5 sledge hammers @ $6.00	30
10 pad locks @ 1.50	15
6(e) Rehabilitation and Repairs -	
Repairs to buildings - for blast magazine and tools	500
Repairs to close buildings hit by blasting rocks	
and repairs to blasted fences	300
6(f) New building etc. -	
6(g) Miscellaneous -	
Analytical work	250
1440 hrs.	
Accounting and booking per hr. $1.50	$2,160
Workmen's compensation and employer's liability	
insurance (above ground $9.81 per $100) (below	
ground $7.27 per $100)	665.18
Payroll taxes	417.40
6(h) Contingencies	500
Total -	$61,038.28

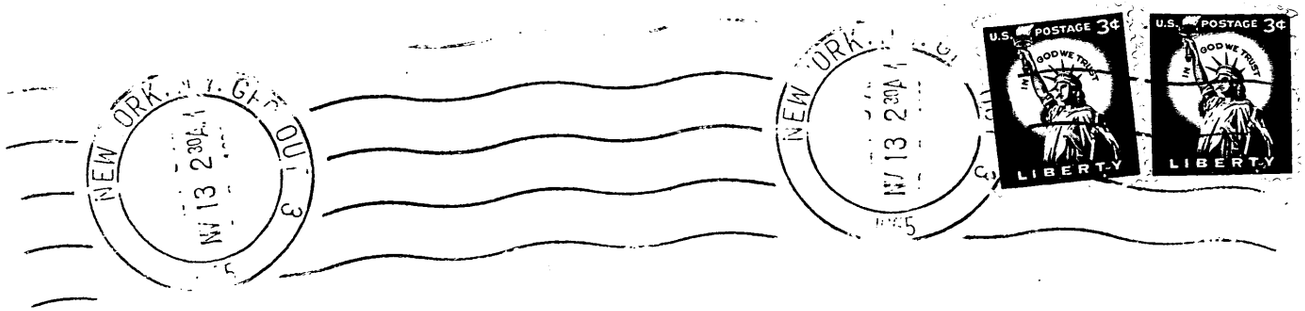
Copies of "Exhibit No. 1" and "Exhibit No. 2" and the map are filed with the original copy only.

SIMMONS + SIMMONS #1 and #2 ADKINS



SIMMONS + SIMMONS #1 and #2 ADKINS





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