DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2968

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

EXPLORATION ASSISTANCE

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

CYS TO USGS, USBM. 1 cy retained Reg. VIII

To:	Code 700	Date	4/3/53
To:	Oper Com	Date	5-8-53
To:	Oper Com	Date	6-24-53
To:	Oper Com	Date	8-12-53
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

Mr. Robert G. Kay,
1743 P Street NW

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 21 1953

Washington, August 18, 1953.

~~Keating~~
Betty

United States Department of the Interior,

Defase Minerals Exploration Administration,

Washington 25, D.C.

Gentlemen,

It was with great regret that I read your letter of August 13th in which you rejected my application for a loan for the exploration of the Kay Mine.

I should like to have the whole application returned to me and beg you to give a release for same.

At the same time I want to extent my thanks to those gentlemen in the department who lend me their assistance with the filing of the necessary papers.

Sincerely yours, Robert G. Kay

Re; Docket No DMEA 2968 (Copper)
Kay Mine
Halifax County, Virginia

Aug 19-53 — Robert Kay called in person at this office and his papers were delivered to him.

Keating

August 17, 1953

Memorandum to the Files

From: Base Metals Division

Subject: Docket No. DMEA-2968, Robert Golden Kay, Halifax County, Va.

The following material was returned to Mr. Kay on this date:

1. Map showing location of core drill holes
2. Copy of Thomas Jefferson Boyles Assay and Core Drill Test at Kay Mine, May to September 1939
3. Itemized account of money spent on Mineral Transfer of Title
4. Report of Analysis, 11/6/51, by Aruther S. Roberts, Penman & Browne, Inc., Baltimore
5. Assay analysis by James F. Dale, Mineralogist, Boise City, Idaho Assay Office, October 19, 1910.
6. Two copies Denver Colorado Laboratories Mineralogist Report by Walter E. Nutting, Mineralogist & Mining Engineer (also two copies Bill of Lading of Shipment)

A. G. Keating

RECEIVED:

Robert Golden Kay

Robert Golden Kay

9/18/53 Delivered to Kay:
Photostats Halifax County, Virginia
letter from Ivy Mfg Co re drilling
K

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

AUG 13 1953

500/913

Keating
Griswold
Johnson
Martin
Kinkel
Hedges
Bishop

Mr. Robert Golden Kay
1417 - 20th Street, N. W.
Washington 6, D. C.

Re: Docket No. MEA 2968 (Copper)
Kay Mine
Halifax County, Virginia

Dear Mr. Kay:

Your application for aid for an exploration project and other data available to us in Washington relating to 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 indicates to us that the probability of disclosing mineable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

WRGriswold/hmj
(8/10/53)
CC to: Docket
Adm. R. File
Operating Committee
Base Metals Division
Mr. Kinkel
Mr. Bishop
Region VIII (2)
Chron.

8-13-53

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

August 10, 1953

Memorandum

To: The Administrator

From: Base Metals Division

Subject: Denial of application, Docket No. 2968
Robert Golden Kay, Kay Mine, Halifax County,
Virginia (Copper)

The subject application proposes 1,500 feet of diamond drilling from the surface to be contracted for at $6.00 per foot. The drilling is to consist of three holes approximately 500 feet each to cut a mineralized zone at a depth of approximately 300 feet below the surface. The total estimated cost of the project $11,900.00.

The examining engineers report the following:

1. No work has been done on the property since 1911.

2. Mine workings consist of two shafts, 55 feet to 65 feet deep and inaccessible.

3. No mineralization exposed for sampling.

4. Shaft dump mineralization very limited.

5. Description of previous drilling and sampling very vague.

6. Reports of returns from ore shipments are inaccurate and not substantiated.

7. Geological indications suggest very limited concentration of minerals.

The Field Team recommends denial of the application with which the Base Metals Division concurs.

W. R. Griswold

W. R. Griswold

Attachments

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

August 10, 1953

Memorandum

To: The Administrator

From: Base Metals Division

Subject: Denial of application, Docket No. 2968
Robert Golden Kay, Kay Mine, Halifax County,
Virginia (Copper)

The subject application proposes 1,500 feet of diamond drilling from the surface to be contracted for at $6.00 per foot. The drilling is to consist of three holes approximately 500 feet each to cut a mineralized zone at a depth of approximately 300 feet below the surface. The total estimated cost of the project $11,900.00.

The examining engineers report the following:

1. No work has been done on the property since 1911.

2. Mine workings consist of two shafts, 55 feet to 65 feet deep and inaccessible.

3. No mineralization exposed for sampling.

4. Shaft dump mineralization very limited.

5. Description of previous drilling and sampling very vague.

6. Reports of returns from ore shipments are inaccurate and not substantiated.

7. Geological indications suggest very limited concentration of minerals.

The Field Team recommends denial of the application with which the Base Metals Division concurs.

W. R. Griswold

W. R. Griswold

Attachments

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

500

Keating
Martin

August 10, 1953

Memorandum

To: The Administrator

From: Base Metals Division

Subject: Denial of application, Docket No. 2968
Robert Golden Kay, Kay Mine, Halifax County,
Virginia (Copper)

The subject application proposes 1,500 feet of diamond drilling from the surface to be contracted for at $6.00 per foot. The drilling is to consist of three holes approximately 500 feet each to cut a mineralized zone at a depth of approximately 300 feet below the surface. The total estimated cost of the project $11,900.00.

The examining engineers report the following:

1. No work has been done on the property since 1911.

2. Mine workings consist of two shafts, 55 feet to 65 feet deep and inaccessible.

3. No mineralization exposed for sampling.

4. Shaft dump mineralization very limited.

5. Description of previous drilling and sampling very vague.

6. Reports of returns from ore shipments are inaccurate and not substantiated.

7. Geological indications suggest very limited concentration of minerals.

The Field Team recommends denial of the application with which the Base Metals Division concurs.

AGKeating/hmj (8/7/53)
CC to: Docket
Base Metals Div.
Chron.

W. R. Griswold
W. R. Griswold

HHR
8-13-53

Attachments

IN REPLY REFER TO:

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

August 11, 1953

Re: DMEA-2968
Robert Golden Kay
Halifax County, Virginia
$11,900
Copper

Memorandum

To: Mr. W. R. Griswold

From: A. R. Kinkel, Jr.

Subject: Field team report and denial of the application of the Kay mine.

I concur with the field team's denial for the reasons stated in the field team's report.

A. R. Kinkel, Jr.

A. R. Kinkel, Jr.

IN REPLY REFER TO:

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

August 11, 1953

Re: IMEA-2968
Robert Golden Kay
Halifax County, Virginia
$11,900
Copper

Memorandum

To: Mr. W. R. Griswold

From: A. R. Kinkel, Jr.

Subject: Field team report and denial of the application of the Kay mine.

I concur with the field team's denial for the reasons stated in the field team's report.

A. R. Kinkel, Jr.

IN REPLY REFER TO:

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

August 11, 1953

Re: [illegible]A-2968
Robert Golden Kay
Halifax County, Virginia
11,900
Copper

Memorandum

To: Mr. [illegible] R. Griswold

From: A. R. Kinkel, Jr.

Subject: Field team report and denial of the application of the Kay mine.

I concur with the field team's denial for the reasons stated in the field team's report.

A. R. Kinkel, Jr.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG - 5 1953

August 4, 1953

Memorandum

To: George C. Selfridge, Chairman, DMEA Operating Committee

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Docket No. DMEA-2968 - (Copper)
Robert Golden Kay, Kay Mine,
Halifax County, Virginia

In reference to your letter of June 25, enclosed herewith in quadruplicate is the Field Team's Examination Report on subject docket.

W. T. Millar

W. T. Millar

Enclosures 4

Reviewed by
DMEA OPERATING COMMITTEE
8-10-53
(Date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG - 5 1953

FIELD TEAM EXAMINATION REPORT

DMEA Docket No. 2968 - (Copper)

Applicant: Robert G. Kay
1417 - 20th St., N. W.
Washington 6, D. C.

Location: Halifax County, Virginia

Reviewed by
DMEA OPERATING COMMITTEE

(date)

Summary:

A field examination of this property was made on July 15 & 16, 1953, by G. L. Neumann, Mining Engineer of the Bureau of Mines and E. L. Newcomb, Geologist of the Geological Survey, representing the Field Team. The applicant, Mr. Robert G. Kay, accompanied the Field Team on this examination.

There was no mineralization in place exposed for sampling. The old shaft dumps were examined and are considered adequate evidence for the amount of exploration claimed on this deposit, but the mineralization indicated by the material in the dumps appears to be very limited. The description of previous drilling and sampling by the applicant is very vague.

The reports of returns from ore shipments appear to be inaccurate and cannot be substantiated.

It seems probable that supervision for an operation of any kind on this property would have to be employed and the applicant has not to date provided for financing his portion of the cost of exploration.

Geological indications suggest very limited concentration of minerals.

Conclusions:

It is concluded that this prospect does not have sufficient merit to justify participation by the Government in any exploratory project.

Reviewed by
DMEA OPERATING COMMITTEE

8-10-53
(date)

Recommendations:

The Field Team recommends that this application be denied.

Location:

The Kay mine is located in Halifax County, Virginia. Access to the property from South Boston, Virginia, by automobile is to drive east on Virginia Highway No. 58 for 7 miles and turn left onto the Hyco Falls road, continue for about 2 miles on this road, then turn left on the old mine road and follow for approximately ½ mile to shaft No. 1. Highway 58 is a good, all weather road and the Hyco Falls road is a good gravel road, both of which are passable throughout the year. The old mine road is a badly washed out trail through woods and would require considerable repair for travel by automotive vehicles.

Description of Property:

The property consists of 261 acres of gently rolling land extending from the south bank of the Dan River southward for approximately 1½ miles. It was once under cultivation for tobacco but now most of the land is taken over by second growth timber and heavy underbrush.

The applicant claims to hold 51 percent interest in the mineral rights on this property and power of attorney for administering the remaining 49 percent, which is reported to be owned by a nephew. Also, the applicant claims to have two or three agreements for right-of-way for a road and 2 acres for a mill site on the Dan River. The records of deeds were not searched to verify the ownership of the property.

Mine Workings:

No work has been done on this property since 1911.

The remaining mine workings consist of two shafts which are caved and inaccessible. It was reported that shaft No. 1 was 8' x 10' in section and

55 feet deep on an incline of approximately 70 degrees. Shaft No. 2 is reported to have been 6'x12' in section and 65 feet deep on an incline of 70 degrees.

The accompanying sketch of the property, which was made during this examination, shows the relative location of the old workings. The applicant does not have a plat of the property and is not certain about the location of the property lines. A survey of the property at this time was not considered necessary.

Geology:

The geology on the Kay property is briefly described on page 118, Virginia Geological Survey Bulletin XIV, 1917, by F. B. Laney. The property is underlain by Aaron slates, which are described by Laney as tuffs and intermixed shales and sandy shales that have been metamorphosed to slate. Although the Aaron formation is described as a slate, evidence on the outcrops and in the mine dump material indicates that the "slate" varies from greenstone to sericitic schists or slates and is even conglomeratic in some beds. Most of the bedrock exposures on the property are schistose in character and are more like micaceous or sericitic phyllites or schists than true slates.

The dip of the rocks is about 65° E. and appears to be parallel to the schistosity or cleavage. Outcrops are scarce on the property, but both shafts were probably located in Aaron slate. This is inferred from the character of the dump material, as bedrock is only exposed in one shaft collar at the present time. Although a copper-bearing quartz vein is reported to have been followed in both shafts, there is only a limited quantity of quartz vein material on the dumps. Presumably most of the quartz was shipped as ore by the applicant. There is no evidence of the quartz vein in the slates at the shaft collar. According to Mr. Kay, the quartz vein was only an inch wide at the surface, but attained a width of 18 inches near the bottom of the No. 2 shaft. Chalcocite and bornite

are the primary copper minerals in the quartz vein material on the dump. However, malachite and azurite are common in some of the slate material on the dumps, which suggests that some copper mineralization probably occurs near the hanging wall and footwall of the quartz vein.

Two quartz veins, which are practically barren of copper mineralization, were found north of the shafts near the Dan River. These veins varied in width from 6 to 12 inches and are the only evidence of the representative width of quartz veins on the Key property. The veins are parallel to the eastward dip of the slates and appear to vary in width along the strike; however, they could only be traced about 12 feet along the strike because of the lack of exposure.

Past Operations:

As reported by the applicant, Shaft No. 1 was sunk during 1909 but no ore was shipped. During 1910 Shaft No. 2 was sunk and approximately 7 tons of ore was hand-cobbed from the material removed during the sinking operation and stockpiled. This material is reported to have been sold in August of 1915 to Beach and Company, Denver, Colorado. The returns of this shipment, which were exhibited to the examining engineers, showed 8.03 percent copper and 31¼ ounces of silver per ton as follows:

Payment for copper @ $12.76	$366.68
Deduction for freight	207.56
	$159.12
Payment for silver @ 56¢ oz.	8.12
Net return -	$167.24

No mention was made of deductions for extraction and no smelter charges were listed. The figures given do not check. Consider 13,650 pounds of copper ore assaying 8.03 percent copper would yield 1,096 pounds of copper. A payment

of $366.68 for copper would require a market price of 33¢ per pound, yet E&MJ lists copper at $12.76 per hundred pounds during 1915.

On silver payment, 14.5 ozs. @ 56¢/oz. would pay $8.12, yet 13,650 pounds of ore assaying 2.11 oz./ton would yield 14.5 ozs. The 2.11 oz./ton is more in keeping with other assays of the ore but the return stated 31½ oz./ton. These figures seem to be somewhat irregular.

The applicant also claims to have sorted 7200 pounds of ore from the dump sometime in 1951, which was sold to an individual for $72.00, who in turn sold it to the smelter at Mascott, Tennessee, for $600.00. This does not seem logical because it was evidently much lower grade ore yet it yielded 4 times as much per ton as the 1915 shipment.

Availability of Manpower, Materials, Supplies:

Labor is plentiful but experienced miners are problematical.

Electric power is available from a line of the Buggs Island project which crosses the property.

Water is available from a creek on the property and the Dan River which borders the property on the north.

Competency of Applicant and Operating Personnel:

The applicant was 71 years old on July 16, 1953. He has lead a rugged life and is apparently in fair health. He knows powder and blasting but that is about the extent of his mining knowledge. He cannot finance his share of the contract because he lives on a $92.00 a month pension and has a hard time just existing, especially since he has recently purchased a hearing-aid on installments.

Discussion

An effort was made to obtain more significant information from the applicant about his previous drilling. However, this proved to be fruitless as Mr. Kay was vague about the location of the holes and the depths at which his sampling was done. The only records available regarding the past drilling were submitted with the application. The past history of production in the Virgilina district has shown that small ore shoots were mined from quartz veins in the Virgilina greenstone. The Kay shafts were probably sunk on a quartz vein, but in Aaron slate rather than the more favorable Virgilina greenstone. From the evidence on the dumps and the width of known quartz veins in the area, there is no reason to believe that significant amounts of copper mineralization would be found by the proposed drilling project.

Mr. Kay tells that with the assistance of Mr. Nutting and Mr. Dale he drilled 5 churn drill holes in 1910 or thereabouts. His information as to the location of these holes is very hazy and confusing. He cannot tell anything of the location on the ore horizon or horizons, - width of ore zone or zones, - or the probable assay of the average ore. There is no authentic factual evidence to support the presence of a minable ore body at the Kay Mine.

In Mr. Kay's correspondence with DMA in 1951 it is stated that he drilled 16 core drill holes each 500 feet deep. Mr. Kay does not know what a core drill is and continually wants to core-drill holes with a Star rig. All of the holes previously drilled were churn drill holes.

Applicant's Proposal:

The applicant proposes to explore this prospect by diamond core drilling a total of 1500 feet under contract at $6.00 per foot. The proposed drilling is to consist of three drill holes approximately 500 feet each, inclined about

minus 50 degrees to cut the mineralized zone at a depth of approximately 300 feet below the surface. The cost of drilling is estimated at $9,000. The total estimated cost of the proposed exploration is $11,900.

In view of the information obtained during this examination and review of previous reports on the prospect, the Field Team concluded that the deposit does not have sufficient merits to justify participation by the Government in any exploratory work.

The geology is considered unfavorable for a concentration of mineralization in sufficient quantity to be of economic importance. The report of production which indicated approximately 7 tons of ore produced from an estimated 800 tons of material excavated, yielded only $167. from smelter returns.

The proposed core drilling for exploration is considered the most logical method and the estimated cost is reasonable, provided the indications for a deposit of marketable ore were favorable. In this case, no alternative method for exploration is suggested.

W. T. Millar

W. T. Millar, Executive Officer
Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

Allen V. Heyl

Allen V. Heyl, U. S. Geological Survey
Member, Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

August 3, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG - 5 1953

College Park, Maryland

August 4, 1953

Memorandum

To: George C. Selfridge, Chairman, DMEA Operating Committee

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Docket No. DMEA-2968 - (Copper)
Robert Golden Kay, Kay Mine,
Halifax County, Virginia

In reference to your letter of June 25, enclosed herewith in quadruplicate is the Field Team's Examination Report on subject docket.

W. T. Millar

Enclosures 4

WTM:rwa

copy for GeoCSelfridge
AllenVHeyl, USGS
DMEA Files 2

Reviewed by
DMEA OPERATING COMMITTEE
8-10-53
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 5 1953

9/12/53

FIELD TEAM EXAMINATION REPORT

DMEA Docket No. 2968 - (Copper)

Applicant: Robert G. Kay
1417 - 20th St., N. W.
Washington 6, D. C.

Location: Halifax County, Virginia

Reviewed by
DMEA OPERATING COMMITTEE
8-10-53
(date)

Summary:

A field examination of this property was made on July 15 & 16, 1953, by G. L. Neumann, Mining Engineer of the Bureau of Mines and E. L. Newcomb, Geologist of the Geological Survey, representing the Field Team. The applicant, Mr. Robert G. Kay, accompanied the Field Team on this examination.

There was no mineralization in place exposed for sampling. The old shaft dumps were examined and are considered adequate evidence for the amount of exploration claimed on this deposit, but the mineralization indicated by the material in the dumps appears to be very limited. The description of previous drilling and sampling by the applicant is very vague.

The reports of returns from ore shipments appear to be inaccurate and cannot be substantiated.

It seems probable that supervision for an operation of any kind on this property would have to be employed and the applicant has not to date provided for financing his portion of the cost of exploration.

Geological indications suggest very limited concentration of minerals.

Conclusions:

It is concluded that this prospect does not have sufficient merit to justify participation by the Government in any exploratory project.

Recommendations:

The Field Team recommends that this application be denied.

Location:

The Kay mine is located in Halifax County, Virginia. Access to the property from South Boston, Virginia, by automobile is to drive east on Virginia Highway No. 58 for 7 miles and turn left onto the Hyco Falls road, continue for about 2 miles on this road, then turn left on the old mine road and follow for approximately ½ mile to shaft No. 1. Highway 58 is a good, all weather road and the Hyco Falls road is a good gravel road, both of which are passable throughout the year. The old mine road is a badly washed out trail through woods and would require considerable repair for travel by automotive vehicles.

Description of Property:

The property consists of 261 acres of gently rolling land extending from the south bank of the Dan River southward for approximately 1½ miles. It was once under cultivation for tobacco but now most of the land is taken over by second growth timber and heavy underbrush.

The applicant claims to hold 51 percent interest in the mineral rights on this property and power of attorney for administering the remaining 49 percent, which is reported to be owned by a nephew. Also, the applicant claims to have two or three agreements for right-of-way for a road and 2 acres for a mill site on the Dan River. The records of deeds were not searched to verify the ownership of the property.

Mine Workings:

No work has been done on this property since 1911.

The remaining mine workings consist of two shafts which are caved and inaccessible. It was reported that shaft No. 1 was 8' x 10' in section and

55 feet deep on an incline of approximately 70 degrees. Shaft No. 2 is reported to have been 6'x12' in section and 65 feet deep on an incline of 70 degrees.

The accompanying sketch of the property, which was made during this examination, shows the relative location of the old workings. The applicant does not have a plat of the property and is not certain about the location of the property lines. A survey of the property at this time was not considered necessary.

Geology:

The geology on the Kay property is briefly described on page 148, Virginia Geological Survey Bulletin XIV, 1917, by F. B. Laney. The property is underlain by Aaron slates, which are described by Laney as tuffs and intermixed shales and sandy shales that have been metamorphosed to slate. Although the Aaron formation is described as a slate, evidence on the outcrops and in the mine dump material indicates that the "slate" varies from greenstone to sericitic schists or slates and is even conglomeratic in some beds. Most of the bedrock exposures on the property are schistose in character and are more like micaceous or sericitic phyllites or schists than true slates.

The dip of the rocks is about 65° E. and appears to be parallel to the schistosity or cleavage. Outcrops are scarce on the property, but both shafts were probably located in Aaron slate. This is inferred from the character of the dump material, as bedrock is only exposed in one shaft collar at the present time. Although a copper-bearing quartz vein is reported to have been followed in both shafts, there is only a limited quantity of quartz vein material on the dumps. Presumably most of the quartz was shipped as ore by the applicant. There is no evidence of the quartz vein in the slates at the shaft collar. According to Mr. Kay, the quartz vein was only an inch wide at the surface, but attained a width of 18 inches near the bottom of the No. 2 shaft. Chalcocite and bornite

are the primary copper minerals in the quartz vein material on the dump. However, malachite and azurite are common in some of the slate material on the dumps, which suggests that some copper mineralization probably occurs near the hanging wall and footwall of the quartz vein.

Two quartz veins, which are practically barren of copper mineralization, were found north of the shafts near the Dan River. These veins varied in width from 6 to 12 inches and are the only evidence of the representative width of quartz veins on the Kay property. The veins are parallel to the eastward dip of the slates and appear to vary in width along the strike; however, they could only be traced about 12 feet along the strike because of the lack of exposure.

Past Operations:

As reported by the applicant, Shaft No. 1 was sunk during 1909 but no ore was shipped. During 1910 Shaft No. 2 was sunk and approximately 7 tons of ore was hand-cobbed from the material removed during the sinking operation and stockpiled. This material is reported to have been sold in August of 1915 to Beach and Company, Denver, Colorado. The returns of this shipment, which were exhibited to the examining engineers, showed 8.03 percent copper and 31¼ ounces of silver per ton as follows:

Payment for copper @ $12.76	$366.68
Deduction for freight	207.56
	$159.12
Payment for silver @ 56¢ oz.	8.12
Net return -	$167.24

No mention was made of deductions for extraction and no smelter charges were listed. The figures given do not check. Consider 13,650 pounds of copper ore assaying 8.03 percent copper would yield 1,096 pounds of copper. A payment

of $366.68 for copper would require a market price of 33¢ per pound, yet E&MJ lists copper at $12.76 per hundred pounds during 1915.

On silver payment, 14.5 ozs. @ 56¢/oz. would pay $8.12, yet 13,650 pounds of ore assaying 2.11 oz./ton would yield 14.5 ozs. The 2.11 oz./ton is more in keeping with other assays of the ore but the return stated 31½ oz./ton. These figures seem to be somewhat irregular.

The applicant also claims to have sorted 7200 pounds of ore from the dump sometime in 1951, which was sold to an individual for $72.00, who in turn sold it to the smelter at Mascott, Tennessee, for $600.00. This does not seem logical because it was evidently much lower grade ore yet it yielded 4 times as much per ton as the 1915 shipment.

Availability of Manpower, Materials, Supplies:

Labor is plentiful but experienced miners are problematical.

Electric power is available from a line of the Buggs Island project which crosses the property.

Water is available from a creek on the property and the Dan River which borders the property on the north.

Competency of Applicant and Operating Personnel:

The applicant was 71 years old on July 16, 1953. He has lead a rugged life and is apparently in fair health. He knows powder and blasting but that is about the extent of his mining knowledge. He cannot finance his share of the contract because he lives on a $92.00 a month pension and has a hard time just existing, especially since he has recently purchased a hearing-aid on installments.

Discussion

An effort was made to obtain more significant information from the applicant about his previous drilling. However, this proved to be fruitless as Mr. Kay was vague about the location of the holes and the depths at which his sampling was done. The only records available regarding the past drilling were submitted with the application. The past history of production in the Virgilina district has shown that small ore shoots were mined from quartz veins in the Virgilina greenstone. The Kay shafts were probably sunk on a quartz vein, but in Aaron slate rather than the more favorable Virgilina greenstone. From the evidence on the dumps and the width of known quartz veins in the area, there is no reason to believe that significant amounts of copper mineralization would be found by the proposed drilling project.

Mr. Kay tells that with the assistance of Mr. Nutting and Mr. Dale he drilled 5 churn drill holes in 1910 or thereabouts. His information as to the location of these holes is very hazy and confusing. He cannot tell anything of the location on the ore horizon or horizons, - width of ore zone or zones, - or the probable assay of the average ore. There is no authentic factual evidence to support the presence of a minable ore body at the Kay Mine.

In Mr. Kay's correspondence with DMA in 1951 it is stated that he drilled 16 core drill holes each 500 feet deep. Mr. Kay does not know what a core drill is and continually wants to core-drill holes with a Star rig. All of the holes previously drilled were churn drill holes.

Applicant's Proposal:

The applicant proposes to explore this prospect by diamond core drilling a total of 1500 feet under contract at $6.00 per foot. The proposed drilling is to consist of three drill holes approximately 500 feet each, inclined about

minus 50 degrees to cut the mineralized zone at a depth of approximately 300 feet below the surface. The cost of drilling is estimated at $9,000. The total estimated cost of the proposed exploration is $11,900.

In view of the information obtained during this examination and review of previous reports on the prospect, the Field Team concluded that the deposit does not have sufficient merits to justify participation by the Government in any exploratory work.

The geology is considered unfavorable for a concentration of mineralization in sufficient quantity to be of economic importance. The report of production which indicated approximately 7 tons of ore produced from an estimated 800 tons of material excavated, yielded only $167.24 from smelter returns.

The proposed core drilling for exploration is considered the most logical method and the estimated cost is reasonable, provided the indications for a deposit of marketable ore were favorable. In this case, no alternative method for exploration is suggested.

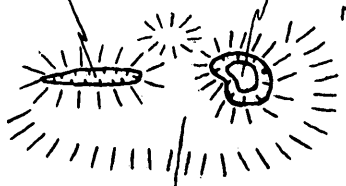
W. T. Millar

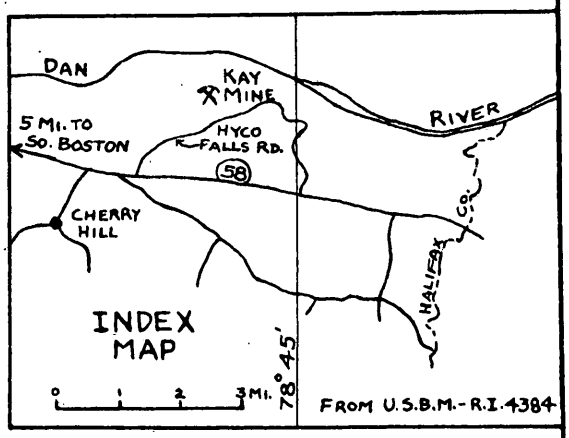
W. T. Millar, Executive Officer
Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

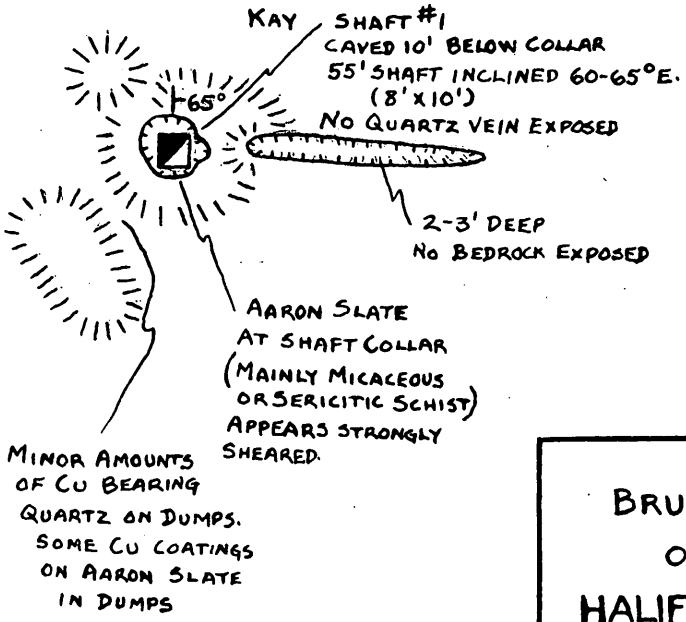
Allen V. Heyl

Allen V. Heyl, U. S. Geological Survey
Member, Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

August 3, 1953







SCALE
1" = 30'

BRUNTON-PACE MAP
OF KAY MINE
HALIFAX CO., VIRGINIA

E. L. NEWCOMB, U.S.G.S.
JULY 15, 1953

FILE COPY
SURNAME: 500

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

Keating
Selfridge
Kettenburg

Mr. W. T. Millar
Executive Officer, Region VIII
DMPA Field Team
Eastern Experiment Station
College Park, Maryland

JUN 2 5 1953

Re: Docket No. DMA 2968 (Copper)
Robert Golden Kay
Kay Mine
Halifax County, Virginia

Dear Mr. Millar:

This refers to your memorandum dated June 4, 1953, directed to this office, in which you recommend that the subject application be denied without a field examination.

Recently we have learned that Mr. J. B. Gowen, DMPA Copper Branch, has visited the Kay mine and is of the opinion that an examination should be made before definitely concluding that the application should be denied.

If an examination is to be made, Mr. Gowen suggests that it is important for the Applicant, Robert Kay, to accompany the Government engineers or meet them at the project so that he can point out the several drill holes reported to have been drilled. Also, his presence would provide a means of checking the authenticity of assay values and other unsupported data submitted. A copy of a recent recommendation from Mr. C. H. Johnson is enclosed.

In view of the foregoing, it appears that it will be well to make a field examination and, if you concur, we suggest that you arrange for Mr. Kay's presence at that time.

Sincerely yours,

S.H.
6-25-53

George C. Selfridge
(2HB)

Chairman, Operating Committee

Enclosure
APPROVED:

J. H. Hedges
Member, Bureau of Mines (2HB)

A. R. Kinkel, Jr.
Member, Geological Survey (2HB)

AGKeating/hmj
(6/23/53)

CC to: Docket
Adm. R. File
Op. Committee
Base Metals Division
Mr. Kinkel
Mr. Bishop

6/18/53 Robert Golden Kay application DMEA 7968

6/18/53 Mrs Laurie B. Ashburn called at our office
1908 Florida Ave
Dupont 7-2874

Robert Kay
1743 P. St NW.
Dupont 71538.

Telephone conversation.
J. B. Upman - Ext 2433. From 7025 G.S Bldg
Upman recommends →
Kay says 16 holes were drilled - check every spot as reported. Try to ascertain the nearity of mines & alerts of copper indications. - if there is any truth in them.
Suggests money be provided for one or two drill holes but have Kay go along with the field engineers.

Keating

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

June 19, 1953

Memorandum

To: A. G. Keating, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA 2968 (Copper) Robert G. Kay, Kay Copper Prospect, Halifax County, Virginia

I have reviewed the Field Team report by Millar and Handley, dated June 4, 1953, transmitted to the Operating Committee June 8. The report recommends that the application be denied. The denial is based on several points. For one thing, the Virgilina District is characterized by small deposits of low-grade copper ore. The Kay property is said to be outside of the main Virgilina copper belt and in slate rather than greenstone which is the country rock of the main belt. The applicant claims to have obtained high-grade samples from drill holes but it is questioned that these samples were representative. A State Geological Survey bulletin is quoted to the effect that the veins on the Kay property are irregular and lack continuity.

No field examination was made because it was believed that no additional information could be obtained.

I am forced to agree that the prospect is likely to be unsuccessful in the sense that it would be too small to repay the cost of exploration. However, I feel that the DMEA field team should have visited the property and talked with Mr. Kay about the project. If you wish to request that this be done, I shall be glad to concur.

The file is returned herewith.

C. H. Johnson

C. H. Johnson

Attachment

Copy to: Mr. Kinkel, USGS
Minerals Division
C. H. Johnson
Files

IN REPLY REFER TO:

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

Department of the Interior
Defense Minerals Administration
RECEIVED
JUN 11 1953

June 11, 1953

Re: Docket DMEA-2968
Robert Golden Kay
Kay Mine
Halifax County, Virginia
Copper

Memorandum

To: Mr. W. R. Griswold

From: A. R. Kinkel, Jr.

Subject: Concurrence with field team denial

I concur with the field team in denying this application.

A R Kinkel Jr.

A. R. Kinkel, Jr.

IN REPLY REFER TO:

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

June 11, 1953

Re: Docket DMEA-2968
Robert Golden Kay
Kay Mine
Halifax County, Virginia
Copper

Memorandum

To: Mr. W. R. Griswold

From: A. R. Kinkel, Jr.

Subject: Concurrence with field team denial

I concur with the field team in denying this application.

A. R. Kinkel, Jr.

IN REPLY REFER TO:

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

June 11, 1953

Re: Docket LMEA-2968
Robert Golden Kay
Kay Mine
Halifax County, Virginia
Copper

Memorandum

To: Mr. W. R. Griswold

From: A. R. Kinkel, Jr.

Subject: Concurrence with field team denial

I concur with the field team in denying this application.

A. R. Kinkel, Jr.

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

June 8, 1953

Memorandum

To: George C. Selfridge, Chairman, DMEA Operating Committee

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Docket No. DMEA-2968 - (Copper)
Robert Golden Kay, Kay Mine
Halifax County, Virginia

Transmitted herewith in quadruplicate is recommendation for denial by the Field Team, for subject docket.

W. T. Millar

W. T. Millar

Enclosures - 4

Reviewed by
DMEA OPERATING COMMITTEE
6-12-53
(date)

Kay Mine, Virgilina District, Halifax County, Virginia

DMEA Docket No. 2968 - (Copper)

Summary, Conclusion and Recommendation

After reviewing this application and all available information on the property described in the subject application, and results of exploratory work by the Bureau of Mines in the Virgilina District, it is concluded that the indications for proving a deposit of sufficient extent to be of economic importance are unfavorable.

It is recommended that the application be denied.

Discussion:

The application as presented does not show geological justification for an exploration project. The property is located north and west of the main mineralized belt and this deposit is in Aaron slate. Copper in the Virgilina District usually occurs in quartz in the Virgilina greenstone, according to F. B. Laney in Virginia Geological Survey Bulletin No. 14. Laney also states that the mineralized quartz veins on the Kay property are irregular and lack continuity, and indications are that the ore body is small.

The assays accompanying the application were made in 1910 and 1915 and may have been good character samples but are not considered as representative of the deposit.

Work in the Virgilina District by the Bureau of Mines, which was started in 1942 and described in R.I. 4384, shows a number of small deposits, some of which were mined during the early 1900's. The inferred ore averages 2 percent but the indications are that the reserves are insufficient to justify the cost of development needed to attain a production to compete successfully with modern copper mining operations.

G. H. Espenshade of the Geological Survey states that no additional information can be obtained by further field investigations. He agrees with Laney on the type of deposit that may be found on the property, and judges this deposit to be too small to repay the cost of exploration.

It is concluded that the present knowledge of this property does not justify Government participation in further exploratory work.

W. T. Millar

W. T. Millar, Executive Officer
Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

Reviewed by
DMEA OPERATING COMMITTEE
6-12-53
(date)

John B. Hanley

John B. Hanley, U. S. Geological Survey
Member, Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

Date: June 4, 1953

GCP
6/24/53

Kay Mine, Virgilina District, Halifax County, Virginia

DMEA Docket No. 2968 - (Copper)

Summary, Conclusion and Recommendation

After reviewing this application and all available information on the property described in the subject application, and results of exploratory work by the Bureau of Mines in the Virgilina District, it is concluded that the indications for proving a deposit of sufficient extent to be of economic importance are unfavorable.

It is recommended that the application be denied.

Discussion:

The application as presented does not show geological justification for an exploration project. The property is located north and west of the main mineralized belt and this deposit is in Aaron slate. Copper in the Virgilina District usually occurs in quartz in the Virgilina greenstone, according to F. B. Laney in Virginia Geological Survey Bulletin No. 14. Laney also states that the mineralized quartz veins on the Kay property are irregular and lack continuity, and indications are that the ore body is small.

The assays accompanying the application were made in 1910 and 1915 and may have been good character samples but are not considered as representative of the deposit.

Work in the Virgilina District by the Bureau of Mines, which was started in 1942 and described in R.I. 4384, shows a number of small deposits, some of which were mined during the early 1900's. The inferred ore averages 2 percent but the indications are that the reserves are insufficient to justify the cost of development needed to attain a production to compete successfully with modern copper mining operations.

G. H. Espenshade of the Geological Survey states that no additional information can be obtained by further field investigations. He agrees with Laney on the type of deposit that may be found on the property, and judges this deposit to be too small to repay the cost of exploration.

It is concluded that the present knowledge of this property does not justify Government participation in further exploratory work.

W. T. Millar

W. T. Millar, Executive Officer
Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

John B. Hanley

John B. Hanley, U. S. Geological Survey
Member, Bureau-Survey Field Team
Defense Minerals Exploration
Administration, Region VIII

Date: June 4, 1953

Subject DMEA-2968
Re; Exploration Assistance, Kay Mine

RECEIVED
MAY 11 1953

Mr. Robert Golden Kay has authorized me to inform you that he has moved from 1417 20th Street NW to 1743 P Street NW. Please to send mail to his new address.

Mrs R. B. Dazey

Mrs. Laurin B. Askew jr.,
1908 Florida Avenue NW
Washington D.C.

WASHINGTON, D.C.
MAY 8
6-PM
1953

THIS SIDE OF CARD IS FOR ADDRESS

UNITED STATES POSTAL CARD

ARMED FORCES DAY

THIRD SATURDAY IN MAY

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

700
FILE COPY
SURNAME:

Schmidt
Ellis

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

MAY 2 0 1953

Mr. Robert Golden Kay
1743 K Street, N. W.
Washington, D. C.

Re: Docket No. [illegible]-2[illegible]
(Copper, zinc, lead)
Kay Mine
Halifax County, Virginia

Dear Mr. Kay:

We acknowledge the postcard from Mrs. Laurin H. Laskew, Jr., advising of your change of address from 1317 20th Street, N. W. to the one above. We have changed our records in connection with the above-docketed application accordingly.

Sincerely yours,

SIGNED
Ernest W. Ellis, Chief
Share and Sec. Metals Division

P.N.
5-20-53

GLA:lt/a
5-20-53
cc to: Adm. Reading File
Docket
Messrs. A. R. Winkel, Jr. Rm. D-242A, DOA
C. F. Johnson, Rm. 3621
Ellis
DMA Field Team, Region VIII (2)

700
FILE COPY
SURNAME:

Schmidt
Ellis
Hedges
Kimball
Selfridge
Fitzsimmons

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

MAY 8 1953

Robert Golden Kay
1417 20th Street, N. W.
Washington, D. C.

(see change of address)

Re: Docket No. DMEA-2968 (Copper)
Kay Mine
Halifax County, Virginia

Dear Mr. Kay:

The application for assistance in exploring your property, docketed under the above number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. Your application has been referred to the Executive Officer of Region VIII at the following address:

Mr. H. P. Millar
Executive Officer, Region VIII
DMEA Field Team
Eastern Experiment Station
College Park, Maryland

The Regional Office will contact you if additional information is required.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

S.H.
5-8-53

GLAult/a
5-6-53
cc to: Adm. Reading File
Docket
Mr. Ellis Mr. Schmidt
DMEA Field Team, Region VIII (2)

FILE COPY
SURNAME:

Schmidt
Ellis
Selfridge
Hagman

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

Mr. W. T. Millar
Executive Officer
DMEA Field Team, Region VIII
Eastern Experiment Station
College Park, Maryland

MAY 8 1953

Re: Docket No. DMEA-2963 (Copper)
Robert Golden Kay, Kay Mine
Halifax County, Virginia

Dear Mr. Millar:

The subject application lacks sufficient information to justify a recommendation for a field examination. However it is thought that since some interesting assays have been submitted that an outright denial of the application without a further attempt to get more information would not be constructive.

In the past 42 years since the mine was accessible, new economic conditions, improved methods of exploration, and new geological data may justify a reappraisal of the possibilities in this property.

This referral to your office may or may not require a field examination, depending on the amount of information you already have. We wish to take you into consultation on this matter before resorting to such a drastic step as a denial, on strength of the very limited information available to us from the application. It has been our thought that little additional information of the kind we need could be obtained by further correspondence with the Applicant.

We therefore refer this application to your office for your recommendation.

Enclosed are copies of memorandums by Mr. A. L. Newcomb of the Geological Survey dated April 1[illegible], and Mr. C. H. Johnson of the Bureau of Mines dated April 30, 1953.

Sincerely yours,

George C. Selfridge (SWB)
Chairman, Operating Committee

Enclosures 4

APPROVED:

J. E. Hedges
Member, Bureau of Mines (SWB)

A. R. Kinkel Jr.
Member, Geological Survey (SWB)

FSSchmidt/eef 5/5/53

cc to: Oper. Committee
Mails and Files
Docket

Messrs. CHJohnson, Room 3621
ARKinkel Jr. Room B-242A
Ellis
Schmidt

S.N. 5-8-53

DMEA 2968 Copper

4/23/53

Kay Robert halifax Co Va.

Memo from Newcomb commodity man denial. on grounds that he has discussed with Survey man familiar with the district and also this mine.

No comments from Chas Johnson as yet.

Newcomb's ~~The~~ point is that the mine is inaccessible since 1916 and therefore a field team could not see much. The origihal ore body is reported by Espenshade of the Survey to have been small and irregulat.

The application does not provide any assays of croppings but does give assays from 4 drill holes without a ny map to show where the drill holes were located. It is impossible to get any idea of the kind of deposit it is

Get Survey bulletin No. 14 by Laney 1917

Very unsatisfactory application.

Wait from Hohnson comments.

Mr. Oland pinch hitting for Chas Johnson, conference wishes to make Field referral after reading the Newcomb denial.

It was agreed that the operator is not well informed / That his application is such that if he were asked for further information that it would probably not be satisfactory for our purpose and that therefore we had better make a field referral not necessaruly a field examination but a report from them.

Oland and I are in complete agreement.

5/4/53 gla

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

April 30, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 30 1953

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-2968 (Copper) Robert G. Kay, Kay Copper Prospect, Halifax County, Virginia

I have reviewed the above-named application and considering the difficulty of attempting to get more complete information from the Applicant, I suggest the application be referred to the Field Team of Region VIII for consideration and recommendation. Attention perhaps should be called to various inadequacies of the application, such as a lack of geological justification for the project, the question about the advisability of the proposed exploration plan, the estimates of cost - which seem rather high, but may not be in view of the small footage of drilling involved - the ability of the Applicant to supervise the work as proposed, also his ability to finance a share of the project in view of his statement that he has no funds.

The Bureau of Mines has no information on this property in its files that would be helpful in appraising the application, and although general reports on the area may suggest that the chances of making an important discovery are not great, I believe it would be unwise to process the application without an adequate field examination.

It may be of interest to you to know that J. B. Gowen, of the DMPA Copper Branch, has some first-hand knowledge of the property, as he visited it sometime ago when Mr. Kay though of making application for a production expansion loan.

C. H. Johnson

C. H. Johnson

Attachment

Copy to - Mr. Kinkel, GSA
Minerals Division
C. H. Johnson
Files

4/15/53 gla

IN REPLY REFER TO:

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

Memorandum

April 14, 1953

Re: DMEA-2968
Kay Mine
Halifax County, Va.
$11,900
Copper, lead-zinc?

To: Mr. E. Wm. Ellis

From: E. L. Newcomb

Subject: Recommendation for denial

The applicant requests assistance to explore a zone of copper mineralization on the Kay prospect which is located 6 miles east of South Boston, Virginia. The proposed work consists of 3 inclined 500-foot holes which are planned to intersect the ore zone at a depth of 265 feet.

The application presents little data to indicate that further exploration on the Kay property is warranted. The only information presented is in the form of old reports on well cuttings sampled in 1910 and 1915. These reports are incomplete and serve only to show that some copper mineralization occurs on the Kay prospect.

The Kay prospect is in the Virgilina district of Virginia-North Carolina. The only available geological information on the mine * is in the publication, The Geology and Ore Deposits of the Virgilina District of Virginia and North Carolina, by F. B. Laney, 1917, Virginia Geological Survey Bulletin No. 14. At the time Laney examined the mine, probably 1916, all of the old workings were inaccessible. The property has not been reopened since that date.

The mine is located in Aaron slate, which is considered to be metamorphosed tuffs. Copper mineralization occurs in quartz veins in the Aaron slate. This occurrence is unusual in that most of the copper ore in the district has been obtained from mineralized quartz veins in Virgilina greenstone. In general, though quartz veins are as common in the Aaron slate as in the greenstone, they are usually barren in the slate. According to Laney, mineralized quartz veins on the Kay property are irregular and not well-defined. They lack the continuity and abrupt boundaries which characterize the typical minable ore-bearing veins in the Virgilina district. Although the Kay prospect contains chalcocite and bornite, which are typical ore minerals of the district, only a small, irregular ore body was developed by the old workings. Mr. G. Espenshade of the U. S. Geological Survey, with whom the writer discussed the Kay prospect because of his familiarity with the Virgilina district, estimated the ore body probably is small.

* also Copper Deposits of the Appalachian States by W. H. Weed Bull 455 USGS 1911 (73031) data concerning district Schmidt

Mr. Espenshade has been on the property recently and reports that very little new information could be obtained by a field team examination. It is his opinion that the possible tonnage which might be developed by exploration would be too small to justify the expenditure of Government funds.

I recommend the application be denied.

E. L. Newcomb

E. L. Newcomb
Geologist

College Park, Maryland

April 1, 1953

(Formerly OF WAR MINERALS)
Defense Minerals Administration
RECEIVED
APR 30 1953

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMA

From: Executive Officer, DMA Field Team, Region VIII

Subject: Kay Mine, Halifax County, Virginia
Robert Golden Kay (Partner: John S. Major)
(Copper - Zinc - Lead)

Transmitted herewith are three copies of an application, together with documentations, received from Mr. Robert G. Kay, on subject mine.

W. A. Hilertson for
W. T. Millar

Enclosures - 3

WAH:rwm

copy for GeoCSelfridge - Orig. & 2
JBHanley, USGS
DMA Files 2

rs. Laurin . Asl jr.,
1908 Florida Avenue NW
Washington D.C.

March 30, 1953.

Bureau of Mines,

Eastern Exploration Station,

attention: Mr. Millar,

College Park, Maryland

Dear Mr. Miller,

Since it is not convenient for me to drive out to Maryland today and tomorrow I am sending you enclosed - according to your wishes - the original letter from the Joy Manufaturing Company plus 2 copies of the letter. Perhaps you could return the original letter sometimes to me.

I had also written to the

Pensylvania Drilling Co., 1201 Chartiers Ave

Pittsburg, Pa and the

Cunningham Core Drilling & Grouting Corporation,

P. O. Box 513,

Salem, Virginia,

but have thus far not heard from these companies.

I hope that on hand of the enclosed letter you are able to rush our application ahead. As soon as I get other replies to my inquiries, I shall let you know.

Thanking you for your kind cooperation

I remain

sincerely yours

F. H. Pazzeo

JOY MANUFACTURING COMPANY
900 WOODLAND AVENUE
MICHIGAN CITY, INDIANA
TELEPHONE 7-7231

March 19, 1953

Mrs. Laurin B. Askew, Jr., Agent
1908 Florida Avenue NW
Washington D. C.

Dear Madam:

This will acknowledge receipt of your letter dated March 16th in which you have advised that you are filing an application with the Government for a DMEA loan covering exploration work at the Kay Mining Company property in Halifax County, Virginia, and would like to have a proposition from us covering the drilling of three "AX" or "BX" holes to a depth of 500 feet each.

On the condition that you will guarantee us a minimum of 1500 feet of drilling we will undertake the work at a price of $3.75 per foot for drilling with "AX" fittings and at a price of $4.25 per foot for drilling with "BX" fittings and holes not to exceed a depth of 500 feet. We understand that water for drilling purposes is located in a creek about 500 feet from proposed drill holes. We will pump water up to a maximum of 1,000 feet from the drill holes at our expense.

If it becomes necessary to resort to reaming, [illegible] or cementing of the drill holes in order to reach the [illegible] depths, then such work will be conducted at the rate of [illegible] per 8-hour shift plus cost of materials used up. We will [illegible] core boxes to accommodate the cores at our expense.

We will furnish for this proposed drilling one [illegible] modern gasoline driven core drills complete with operating [illegible] ment and will conduct the drilling operations on a basis of [illegible] or two 8-hour shifts per day and not less than 6 days per [illegible]

We hope that the Government will approve your [illegible] to have this proposed drilling done. In that event you [illegible] communicate with us at that time and we will advise how [illegible] outfit and crew can be made available for this proposed [illegible]

Yours very truly,

JOY MANUFACTURING COMPANY

W. J. Pilarski, Mgr.
Contract Drill Division

WJP/bb

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
RECEIVED
APR 2 1953

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

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-2968
Metal or Mineral
Date Received 4-2-53
Estimated Cost
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: ~~Robert Golden Kay~~ (Partner: Mr. John C. Major)
~~1417 20th Street NW~~ 1743 O St. N.W.
Washington D.C.

(*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 The Kay Mine is situated 6 miles East of South Boston, Halifax County, Virginia, on the property known as the old Pearl King Plantation, 261 acres, more or less. We hold the Court Title, clear of any Liens or Debts, to the Mining Rights of this land

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
~~We have the Mineral Rights to this property~~

(*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 copy of deed attached and Sheet 1

(*e*) If you own the land, describe any liens or encumbrances on it
none

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

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

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. see sheet 1

(*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. Copy of Mineralogist herewith

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

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

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

(*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. as seen on plats hereto attached

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated March 6, 1953

Robert G. Kay
(Applicant)

By

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

SHEET 1)

4 (a) At present there is no operation going on on MAY MINE ---

(b) There never has been a full exploration of the Mine, except in the days of rule teams and due to lack of funds in a small measure (1907 - 1911)

(c) Attached is a copy of the Geologist's report on the MINE made in 1919 as well as photostatic copies of the plat made by Mr. John Parker, County Engineer for Collier County. There is also a sketch of the Mine on the back of this sheet.

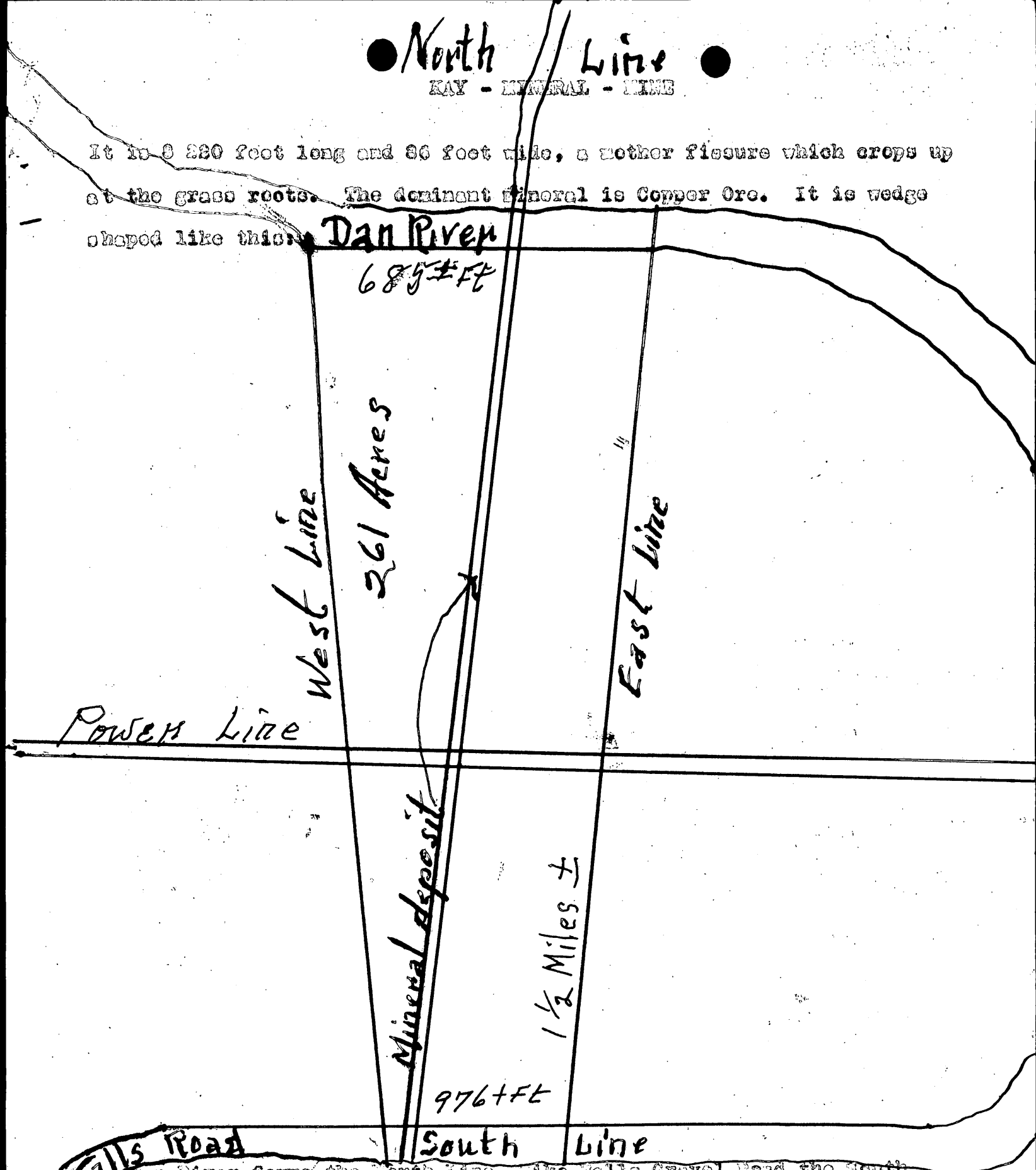
(d) The Mine is accessible via Lake Trail gravel road from the South, by water via Ten Mile River of the North. There is a project under way to make Ten Mile River navigable (Fuqua Island Power Co.) Also there is railroad transportation available from South Boston, 6 miles from MAY MINE There are several residences within 1 mile radius where there is boarding facility.

(e) There is sufficient manpower available right near MINE, a sub-contractor will furnish materials and equipment. There is sufficient water and a 33 000 Volt Power Line crosses the MAY MINE about the center from East to West.

North Line

KAY - MINERAL - MINE

It is 8 220 feet long and 86 feet wide, a mother fissure which crops up at the grass roots. The dominant mineral is Copper Ore. It is wedge shaped like this:



Dan River forms the North Line, Mike Falls Gravel Road the South Line. A 33 000 Volt Power Line crosses the Mine about the center from East to West.

5;(d)

My uncle, Mr. Zack Lee Kay, original owner of the Kay Mine near South Boston, Virginia and founder of the United Virdie Mines at Bisbee, Arizona, had no sons and expressed the wish that I learn all about the mining business so as to be able to explore some day the afore said Kay Mine.

Thus as a very young man, in 1903, I started out working as a miner in the Portland Lead Mines at Webb City, Missouri. While there I became interested in Minerals and went to Netterland, Colorado, where I worked and studied in the TUNGSTEAN Mines, then on to Butte City, Montana, to the Original ANNACONDA CO. mining in the Never sweat, Speculator etc Mines. From there I went on to Miami, Arizona, for the Inspiration Copper Co., worked in the AJO and various other mines until in 1905 I went with the U.S. Federal Government as a miner to Panama; where in a short time I was put in charge of the blasting.

In 1909 I returned to my uncle and started work on the Kay Mine, but due to lack of funds we were forced down in 1911, when I took up my former position in Panama - until 1914.

I then went prospecting on my own and opened the Copper Mine in Scholl New Mexico, Valinchie County. After 4 years of operation I was forced to close down.

In 1919 I went into business with the MASON & HANGER CONSTRUCTION CO., Lackowack, New York, as General Construction Supervisor. After completion of the job assigned to me I went that same year to Bradentown in the West Indies, and worked for the Utah Construction CO; which was under contract to the KENNECOT COPPER CO. to cut a 10.000 foot canal to drain all water from a crater which was 6-000 feet deep.. I remained there during 34 months and then went into business for myself in various different fields.

Now I am very anxious to get the Kay Mine under exploration and since I have no funds or machinery, I should appreciate it very much if the

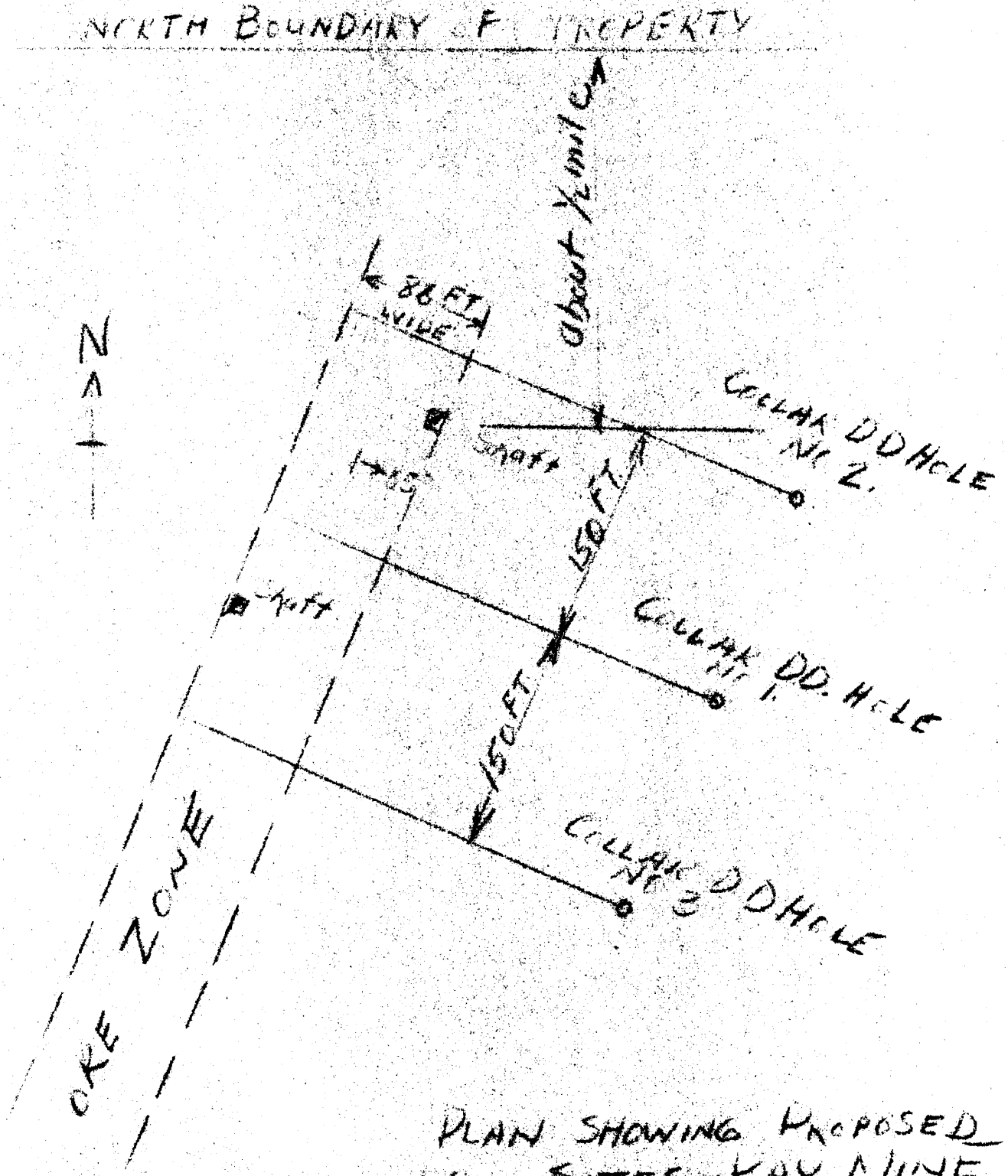
Government would grant me a loan. I shall have a drilling co; do the work and shall supervise the exploration myself.

A nephew of mine, Mr. John C. Major of COULEE CITY, Washington owns 49 % of the mining rights. He has given me Power-of-Attorney to act in his behalf as seen by enclosed photostats.

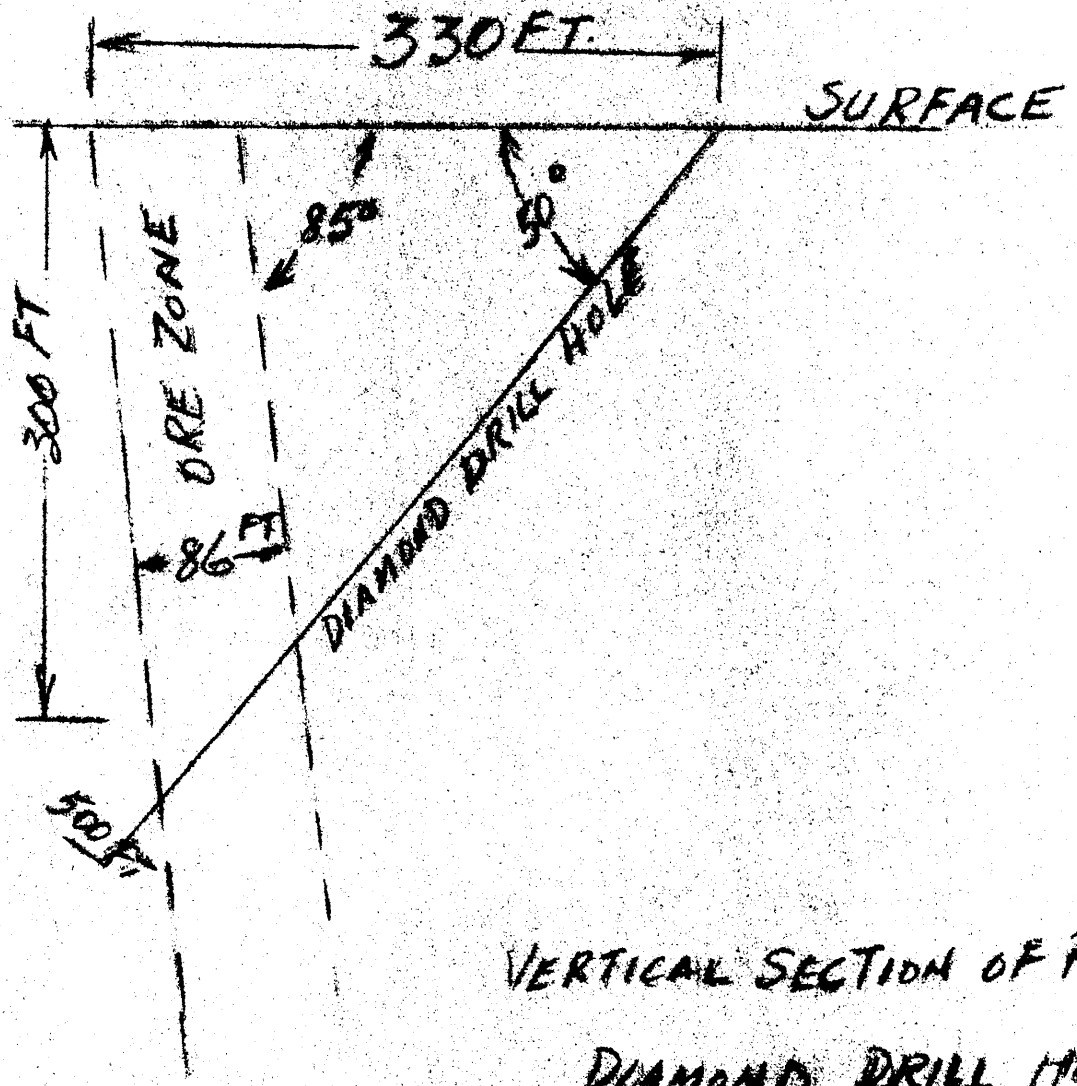
Respectfully submitted, March 6, 1953

by

Robert G. Kay



PLAN SHOWING PROPOSED
DRILL SITES - KAY MINE
Scale 1" = 100 FT.
Robert L. Kay



VERTICAL SECTION OF PROPOSED

DIAMOND DRILL HOLES

KAY MINE

Scale 1" = 100'

Robert G. Kay

GRANT COUNTY TITLE ABSTRACT COMPANY *"Complete Land Title Service"* **Ephrata, Washington**

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, That John C. Major

whose address is Coulee City, Washington

hereinafter called "Principal," whether one or more, has made, costituted and appointed, and by these presents does make, constitute and appoint R. G. Kay

whose address is 1417-20th St N.W. Washington 6 D.C.,

hereinafter called "Attorney," whether one or more, its true and lawful attorney for it and in the name, place and stead and for the use and benefit of the principal.

To do all things necessary to make a transfer of all my rights, title, and interest in any and all lands located in Halifax County, State of Virginia, including the right, with respect to said land only

to ask, demand, sue for, recover, collect and receive all such sums of money, debts, dues, accounts, legacies, bequests, interests, dividends, annuities and demands whatsoever, as are now or shall hereafter become due, owing, payable or belonging to the principal and have, use and take all lawful ways and means in the name of the principal, or otherwise, for the recovery thereof, by attachments, arrest, distress or otherwise, and to compromise and agree for the same, and to make, sign, seal and deliver acquittances, or other sufficient discharges for the same; for the prinicipal and in the name of the principal, to bargain, contract, agree for, purchase, receive and take lands, tenements, hereditaments, and accept the seizin and possession of all lands, and all deeds, and other assurances in the law therefor; and to lease, let, demise, bargain, sell, remise, release, convey, mortgage and hypothecate lands, tenements and hereditaments, upon such terms and conditions and under such covenants as the attorney shall think fit; to assign and transfer any note or mortgage; to dedicate any street, avenue, alley, place, way or park for public uses. Also to bargain and agree for, buy, sell, mortgage, hypothecate, and in any and every way and manner deal in and with goods, wares and merchandise, choses in action and other property, in possession or in action, and to release mortgages on lands or chattels, and to make, do and transact all and every kind of business of what nature and kind soever. And also for the principal and in the name of the principal and as the act and deed of the principal to sign, seal, execute, deliver and acknowledge such deeds, leases and assignments of leases, covenants, indentures, agreements, mortgages, hypothecations, bottomries, charter parties, bills of lading, bills, bonds, notes, receipts, evidences of debt, releases and satisfactions of mortgage, judgment and other debts, and such other instruments in writing, of whatsoever kind or nature, as may be necessary or proper in the premises:

GIVING AND GRANTING unto the attorney full power and authority to do and perform all and every act and thing whatsoever requisite and necessary to be done in and about the premises as fully to all intents and purposes as the principal might or could do if personally present and

hereby ratifying and confirming all that the said attorney shall lawfully do or cause to be done, by virtue of these presents.

Dated this 6th day of September, 1951

x John C. Major (SEAL)

Mrs Millie J. Major (SEAL)

(SEAL)

(SEAL)

STATE OF WASHINGTON,

County of Grant } *ss.*

I, Curtiss M. Clark

a Notary Public in and for said State, do hereby certify that on this 6th *day of* September, 1951

personally appeared before me John C. Major

to me known to be the individual described in and who executed the within instrument, and acknowledged that he *signed and sealed the same* his *free and voluntary act and deed, for the uses and purposes therein mentioned.*

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Curtiss M. Clark

Notary Public in and for the State of Washington residing at Coulee City *in said County.*

My commission expires June 12, 1955

JOHNSON, DOELL & CO.

COPY OF MINERALOGIST REPORT.

I, Walter L. Butting, Assayer and Engineer for U.S.A. Bureau of Mines, Denver, Colorado, have this day, October 14, 1910, made this report on the HAY MINE, 6 miles East of South Boston, Virginia, Halifax County, on 261 acres known as the Old Pearl King Plantation.

The Mineral Deposit is a Mother Fissure Vein with 11 different kinds of minerals of commercial value.

My first test by well drill cuttings 300 feet in depth - 400 pounds of cuttings bailed out of drill holeNr. 1 gave from top to bottom of the hole 6-18-100 % COPPER, 1 3/4 ozs silver per ton. Drill Hole Nr. 2; 300 pounds of cutting gave assay of 7-3/100 % COPPER and 2 1/4 ozs of silver per ton. These holes are 400 feet apart. Drill Hole Nr. 3, 400 feet South of Hole Nr. 2, 400 pounds gave 4 50/100 % COPPER and 3 1/8 ozs of Silver per ton. Drill Hole Nr. 4; 300 pounds of cuttings gave 4 10/100 % and 2 3/10 ozs of Silver per ton.

From the above tests, it is my opinion that this vein extends to great depth.

signed:

Walter L. Butting;

Walter L. Butting,

Mineralogist and Mining Engineer

Cop. File Nr 9491
Record Book F - COPPER
W.L.N. Report

Copy of report by Mineralogist

James F. Dale, Boise City, Idaho Assay Office:

October 19, 1910.

I, Doctor James F. Dale, at our Laboratories, have this 19th day of October, made a complete Mineralogist Report of copper well drill samples shipped to this office by Robert G. Kay, from Copper Ore shipped from South Boston, Virginia, via express, two bags of Ore 229 pounds taken from two well drill bores 300 feet North of Shaft I and from hole Nr. 1 and Hole Nr. 2. Bag No 1, 107 lbs. gave 8-2/100 % of Copper and 1 3/4 ozs of silver per ton;
Bag No 2, 122 lbs. of ore gave - 18/100 % Copper and 2 9/10 ozs of silver per ton.

This Ore was received September 28, 1910, but assay was held up by inquiry to find out whose property the mineral came from. We were informed it came from a tract of land known as the KAY MINE SMELTING CO. which is on the old Pearl King Plantation, 261 acres, 6 miles East of South Boston, Virginia, in Halifax County, Virginia.

I am Chief Chemist of the Assay Office on Minerals.

signed:

James F. Dale,
Mineralogist

(Both holes were bored by Mr. Kay himself. Hole 1 was 527 feet deep, hole 2 was 490 feet deep. (on the vein) Original is in hands of Mr. John C. Major)

6 (a)	Contract Drilling 1500 feet à 6.oo dollars (contractor to furnish core boxes and all supplies)	9.000.-- dlrs.
(b)	Supervision at 75.oo dollars a week, 16 weeks	1;200.-- "
	Consultation ----------	300.-- "
(g)	Assaying ----------	800.-- "
(h)	Contingencies ------- 10 % ----------	1.000.-- "
		11;900.-- "

College Park, Maryland

April 1, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 2 1953

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA

From: Executive Officer, DMA Field Team, Region VIII

Subject: Kay Mine, Halifax County, Virginia
Robert Calden Kay (Partner: John C. Major)
(Copper - Zinc - Lead)

Transmitted herewith are three copies of an application, together with documentations, received from Mr. Robert C. Kay, on subject mine.

[illegible] Albertson for
[illegible] T. Miller

Enclosures - 3

NAE:rwa

copy for GeoSelfridge - Orig. & 2
JBHanley, USGS
DMEA Files 2

Mr. Louis [illegible] Jr.,
[illegible] Florida Avenue N.W.
Washington D.C.

March 20, 1956.

Bureau of Mines,

Eastern Exploration Station,

Attention: Mr. Miller,

College Park, Maryland

Dear Mr. Miller,

Since it is not convenient for me to drive out to Maryland today or tomorrow I am enclosing, you will find closed - according to your wishes - the original letter from the Joy Manufacturing Company along with copies of the letter. Perhaps you could return the original letter sometimes to me.

I have also written to the

Pennsylvania Drilling Co., 1201 Chartiers Ave

Pittsburg, Pa. and the

Cunningham Core Drilling & Grouting Corporation,

P. O. Box 515,

Salem, Virginia,

but have thus far not heard from these companies.

I hope that on hand of the enclosed letter you are able to push our application ahead. As soon as I get other replies to my inquiries, I will let you know.

Thanking you for your kind cooperation

Sincerely yours

[signature]

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 2 1953

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

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-2968
Metal or Mineral
Date Received 4-2-53
Estimated Cost
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: Robert Golden Kay (Partner Mr. John C. Major)
~~1417 20th Street NW~~ 1743 P St. N.W.
Washington D.C. c/o ~~Mrs. Lauren Askew~~
~~1208 Florida Ave~~

(*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 The Kay Mine is situated 6 miles East of South Boston, Halifax County, Virginia, on the property known as the old Pearl King Plantation, 261 acres, more or less. We hold the Court Title, clear of any Liens or Debts, to the Mining Rights of this land

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
We have the Mineral Rights to this property

(*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 on forms attached and SHEET 1

(*e*) If you own the land, describe any liens or encumbrances on it
~~none~~

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

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

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

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

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

5. *The exploration project.*—(a) State the mineral or minerals for which you [illegible] to explore Conner, Zinc and Lead

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

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

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

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

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

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

(*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)? Yes

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

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Washington, March 6, 1953

Robert G. Kay
(Applicant)

By

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

5;(d)

My uncle, Mr. Zack Lee Kay, original owner of the Kay Mine near South Boston, Virginia and founder of the United Virdie Mines at Bisbee, Arizona, had no sons and expressed the wish that I learn all about the mining business so as to be able to explore some day the afore said Kay Mine.

Thus as a very young man, in 1903, I started out working as a miner in the Portland Lead Mines at Webb City, Missouri. While there I became interested in Minerals and went to Netterland, Colorado, where I worked and studied in the TUNGSTEN Mines, then on to Butte City, Montana, to the Original ANNACONDA CO. mining in the Never sweat, Speculator etc Mines. From there I went on to Miami, Arizona, for the Inspiration Copper Co., worked in the AJO and various other mines until in 1905 I went with the U.S. Federal Government as a miner to Panama; where in a short time I was put in charge of the blasting.

In 1909 I returned to my uncle and started work on the Kay Mine, but due to lack of funds we were forced down in 1911, when I took up my former position in Panama - until 1914.

I then went prospecting on my own and opened the Copper Mine in Soho New Mexico, Valimchie County. After 4 years of operation I was forced to close down.

In 1919 I went into business with the MASON & HANGER CONSTRUCTION CO., Lackowack, New York, as General Construction Supervisor. After completion of the job assigned to me I went that same year to Pradentown in the West Indies, and worked for the Utah Construction CO; which was under contract to the KENNECOT COPPER CO. to cut a 10.000 foot canal to drain all water from a crater which was 6-000 feet deep.. I remained there during 34 months and then went into business for myself in various different fields.

Now I am very anxious to get the Kay Mine under exploration and since I have no funds or machinery, I should appreciate it very much if the

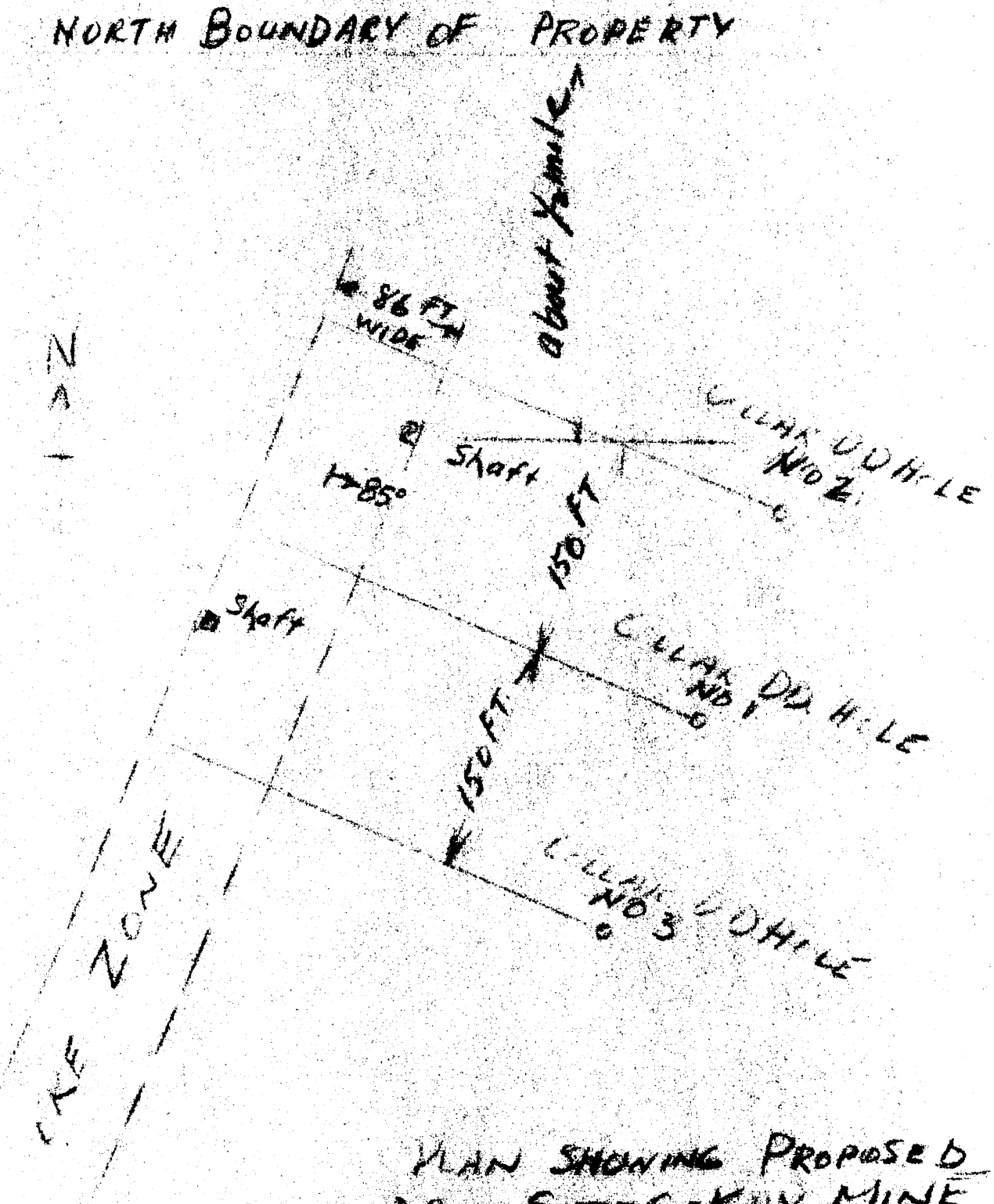
Government would grant me a loan. I shall have a drilling co; do the work and shall supervise the exploration myself.

A nephew of mine, Mr. John C. Major of COULEE CITY, Washington owns 49 % of the mining rights. He has given me Power of Attorney to act in his behalf as seen by enclosed photostats.

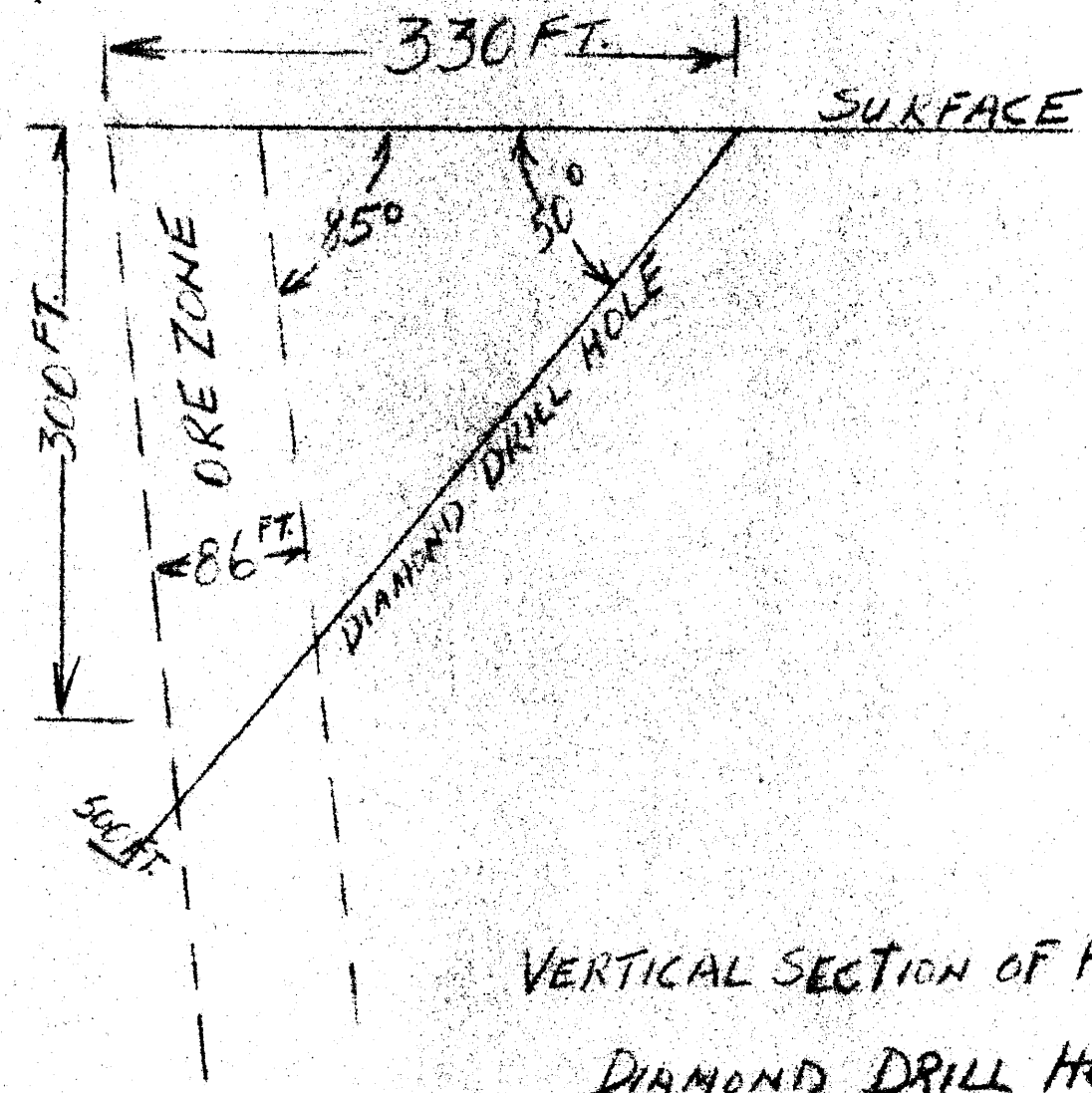
Respectfully submitted, March 6, 1953

by

Robert G. Kay



PLAN SHOWING PROPOSED
DRILL SITES - KAY MINE
Scale 1" = 100 FT.
Robert G. Kay



VERTICAL SECTION OF PROPOSED

DIAMOND DRILL HOLES

KAY MINE

Scale 1" = 100'

Robert G. Kay

GRANT COUNTY TITLE ABSTRACT COMPANY *"Complete Land Title Service"* **Ephrata, Washington**

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, That John C. Major

whose address is Coulee City, Washington

hereinafter called "Principal," whether one or more, has made, costituted and appointed, and by these presents does make, constitute and appoint R. G. Kay

whose address is 1417-20th St N.W. Washington 6 D.C.,

hereinafter called "Attorney," whether one or more, its true and lawful attorney for it and in the name, place and stead and for the use and benefit of the principal.

To do all things necessary to make a transfer of all my rights, title, and interest in any and all lands located in Halifax County, State of Virginia, including the right, with respect to said land only

to ask, demand, sue for, recover, collect and receive all such sums of money, debts, dues, accounts, legacies, bequests, interests, dividends, annuities and demands whatsoever, as are now or shall hereafter become due, owing, payable or belonging to the principal and have, use and take all lawful ways and means in the name of the principal, or otherwise, for the recovery thereof, by attachments, arrest, distress or otherwise, and to compromise and agree for the same, and to make, sign, seal and deliver acquittances, or other sufficient discharges for the same; for the prinicipal and in the name of the principal, to bargain, contract, agree for, purchase, receive and take lands, tenements, hereditaments, and accept the seizin and possession of all lands, and all deeds, and other assurances in the law therefor; and to lease, let, demise, bargain, sell, remise, release, convey, mortgage and hypothecate lands, tenements and hereditaments, upon such terms and conditions and under such covenants as the attorney shall think fit; to assign and transfer any note or mortgage; to dedicate any street, avenue, alley, place, way or park for public uses. Also to bargain and agree for, buy, sell, mortgage, hypothecate, and in any and every way and manner deal in and with goods, wares and merchandise, choses in action and other property, in possession or in action, and to release mortgages on lands or chattels, and to make, do and transact all and every kind of business of what nature and kind soever. And also for the principal and in the name of the principal and as the act and deed of the principal to sign, seal, execute, deliver and acknowledge such deeds, leases and assignments of leases, covenants, indentures, agreements, mortgages, hypothecations, bottomries, charter parties, bills of lading, bills, bonds, notes, receipts, evidences of debt, releases and satisfactions of mortgage, judgment and other debts, and such other instruments in writing, of whatsoever kind or nature, as may be necessary or proper in the premises:

GIVING AND GRANTING unto the attorney full power and authority to do and perform all and every act and thing whatsoever requisite and necessary to be done in and about the premises as fully to all intents and purposes as the principal might or could do if personally present and

hereby ratifying and confirming all that the said attorney shall lawfully do or cause to be done, by virtue of these presents.

Dated this 6th day of September, 1951

x John C. Major (SEAL)

Mrs Millie J. Major (SEAL)

(SEAL)

(SEAL)

STATE OF WASHINGTON,

County of Grant } *ss.*

I, Curtiss M. Clark

a Notary Public in and for said State, do hereby certify that on this 6th *day of* September, 1951

personally appeared before me John C. Major

to me known to be the individual described in and who executed the within instrument, and acknowledged that he *signed and sealed the same* his *free and voluntary act and deed, for the uses and purposes therein mentioned.*

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Curtiss M. Clark

Notary Public in and for the State of Washington residing at Coulee City *in said County.*

My commission expires June 12, 1955

JOHNSON, DOELL & CO.

COPY OF MINERALOGIST REPORT.

I, Walter E. Nutting, Assayer and Engineer for U.S.A. Bureau of Mines, Denver, Colorado, have this day, October 14, 1915, made this report on the KAY MINE, 6 miles East of South Boston, Virginia, Halifax County, on 261 acres known as the Old Pearl King Plantation.

The Mineral Deposit is a Mother Fissure Vein with 11 different kinds of minerals of commercial value.

My first test by well drill cuttings 300 feet in depth - 400 pounds of cuttings bailed out of drill holeNr. 1 gave from top to bottom of the hole 6-18-100 % COPPER, 1 3/4 ozs silver per ton. 6.18 (Schmitt)
Drill Hole Nr. 2; 300 pounds of cutting gave assay of 7-2/100 % COPPER and 2 1/4 ozs of silver per ton. These holes are 400 feet apart.
Drill Hole Nr. 3, 400 feet South of Hole Nr. 2, 400 pounds gave 4 50/100 % COPPER and 3 1/8 ozs of Silver per ton. Drill Hole Nr. 4; 300 pounds of cuttings gave 4 99/100 % and 2 3/10 ozs of Silver per ton.

From the above tests, it is my opinion that this vein extends to great depth.

signed:

Walter E. Nutting;

Walter E. Nutting,
Mineralogist and Mining Engineer

Cop. File Nr 9491
Record Book F - COPPER
W.E.N. Report

Copy of report by Mineralogist

James F. Dale, Boise City, Idaho Assay Office:

October 19, 1910.

I, Doctor James F. Dale, at our Laboratories, have this 19th day of October, made a complete Mineralogist Report of copper well drill samples shipped to this office by Robert G. Kay, from Copper Ore shipped from South Boston, Virginia, via express, two bags of Ore 229 pounds taken from two well drill bores 300 feet North of Shaft 1 and from hole Nr. 1 and Hole Nr. 2. Bag No 1, 107 lbs. gave 8-2/100 % of Copper and 1 3/4 ozs of silver per ton;
Bag No 2, 122 lbs. of ore gave - 13/100 % Copper and 2 9/10 ozs of silver per ton.

This Ore was received September 28, 1910, but assay was held up by inquiry to find out whose property the mineral came from. We were informed it came from a tract of land known as the KAY MINE MINING CO. which is on the old Pearl King Plantation, 261 acres, 6 miles East of South Boston, Virginia, in Halifax County, Virginia.

I am Chief Chemist of the Assay Office on Minerals.

signed:

James F. Dale,
Mineralogist

(Both holes were bored by Mr. Kay himself. Hole 1 was 327 feet deep, hole 2 was 490 feet deep. (on the vein) Original is in hands of Mr. John O. Major)

	Contract Drilling 1500 feet à 6.00 Dollars	9.000.-- dlrs.
6 (a)	(contractor to furnish core boxes and all supplies)	
(b)	Supervision at 75.00 dollars a week, 16 weeks	1;200.-- "
	Consultation ----------	500.-- "
(g)	Assaying ----------	200.-- "
(h)	Contingencies ------- 10 % ----------	1.000.-- "
		11;900.-- "

4/7/53
DMEA-2968

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 6 1953

April 6, 1953

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Kay Mine, Halifax County, Virginia
Robert Golden Kay - (Partner: John C. Major)
(Copper - Zinc - Lead)

Attached are three photostatic copies of a letter of March 30, 1953 from the Cunningham Core Drilling and Grouting Corporation of Salem, Virginia to Mrs. Laurin B. Askew, regarding diamond core drilling at the Kay Mine. These are to be attached to subject application forwarded to you under date of April 1, 1953.

W. T. Millar

W. T. Millar

Enclosures - 3

DIAMOND & SHOT CORE DRILLIN
FOUNDATION INVESTIGATION
SOIL SAMPLING

FOUNDATION GROUTING
TEST PITS
MINERAL & QUARRY TESTING

CUNNINGHAM CORE DRILLING AND GROUTING CORP.

P. O. BOX 513, SALEM, VA.

TELEPHONE 2396

March 30, 1953

Mrs. Laurin B. Askew, Jr.
1908 Florida Avenue, N. W.
Washington, D. C.

Dear Madam:

I have received your letter of March 16, 1953, asking for bids on core drilling the Kay Mining Property in Halifax County, near South Boston, Virginia.

I visited the vicinity of this property on Friday, March 20. While you show this property North of Route 58 between Route 58 and the Dan River on your sketch, the people living in that vicinity told me the old Hudson farm lay south of Route 58 on the Hikes Falls road. I found the old Hudson farm and two mine shafts north of it. Willie Hudson now lives on the old Hudson farm.

I have been informed that there are numerous old mining shafts scattered widely around in that section.

However, my bid given herewith is based on the property being just north of the old Hudson farm now occupied by Willie Hudson, two or three miles south of the Route 58 along the Hikes Falls Road.

I will do this drilling using BX size bits to start holes, but do most of the drilling with AX size bits for a minimum of 1,500 ft. in three holes on an angle no flatter than a 45 degree for $4.25 per foot from surface to bottom of hole, provided that no more than 5% of drilling is in quartz or quartzite. However, if more than 5% of drilling is in quartz or quartzite, an adjustment will be made to take care of extra bit cost.

We could at the present time put two drills on this work and could complete it in a very short time. As to the quality of our work, we can refer you to the Director of the Government DMEA work since we are drilling one ore job under his direction.

Very truly yours,

CUNNINGHAM CORE DRILLING
AND GROUTING CORPORATION

Sam J. Cunningham

Sam J. Cunningham

DIAMOND & SHOT CORE DRILLIN
FOUNDATION INVESTIGATION
SOIL SAMPLING

FOUNDATION GROUTING
TEST PITS
MINERAL & QUARRY TESTING

CUNNINGHAM CORE DRILLING AND GROUTING CORP.

P. O. BOX 513, SALEM, VA.

TELEPHONE 2396

March 30, 1953

Mrs. Laurin B. Askew, Jr.
1908 Florida Avenue, N. W.
Washington, D. C.

Dear Madam:

I have received your letter of March 16, 1953, asking for bids on core drilling the Kay Mining Property in Halifax County, near South Boston, Virginia.

I visited the vicinity of this property on Friday, March 20. While you show this property North of Route 58 between Route 58 and the Dan River on your sketch, the people living in that vicinity told me the old Hudson farm lay south of Route 58 on the Hike Falls road. I found the old Hudson farm and two mine shafts north of it. Willie Hudson now lives on the old Hudson farm.

I have been informed that there are numerous old mining shafts scattered widely around in that section.

However, my bid given herewith is based on the property being just north of the old Hudson farm now occupied by Willie Hudson, two or three miles south of the Route 58 along the Hike Falls Road.

I will do this drilling using BX size bits to start holes, but do most of the drilling with AX size bits for a minimum of 1,500 ft. in three holes on an angle no flatter than a 45 degree for $4.25 per foot from surface to bottom of hole, provided that no more than 5% of drilling is in quartz or quartzite. However, if more than 5% of drilling is in quartz or quartzite, an adjustment will be made to take care of extra bit cost.

We could at the present time put two drills on this work and could complete it in a very short time. As to the quality of our work, we can refer you to the Director of the Government DMEA work since we are drilling one ore job under his direction.

Very truly yours,

CUNNINGHAM CORE DRILLING
AND GROUTING CORPORATION

Sam J. Cunningham

DIAMOND & SHOT CORE DRILLI
FOUNDATION INVESTIGATION
SOIL SAMPLING

FOUNDATION GROUTING
TEST PITS
MINERAL & QUARRY TESTING

CUNNINGHAM CORE DRILLING AND GROUTING CORP.

P. O. BOX 513, SALEM, VA.

TELEPHONE 2396

March 30, 1953

Mrs. Laurin B. Askew, Jr.
1908 Florida Avenue, N. W.
Washington, D. C.

Dear Madam:

I have received your letter of March 16, 1953, asking for bids on core drilling the Kay Mining Property in Halifax County, near South Boston, Virginia.

I visited the vicinity of this property on Friday, March 20. While you show this property North of Route 58 between Route 58 and the Dan River on your sketch, the people living in that vicinity told me the old Hudson farm lay south of Route 58 on the Hiko Falls road. I found the old Hudson farm and two mine shafts north of it. Willie Hudson now lives on the old Hudson farm.

I have been informed that there are numerous old mining shafts scattered widely around in that section.

However, my bid given herewith is based on the property being just north of the old Hudson farm now occupied by Willie Hudson, two or three miles south of the Route 58 along the Hiko Falls Road.

I will do this drilling using BX size bits to start holes, but do most of the drilling with AX size bits for a minimum of 1,500 ft. in three holes on an angle no flatter than a 45 degree for $4.25 per foot from surface to bottom of hole, provided that no more than 5% of drilling is in quartz or quartzite. However, if more than 5% of drilling is in quartz or quartzite, an adjustment will be made to take care of extra bit cost.

We could at the present time put two drills on this work and could complete it in a very short time. As to the quality of our work, we can refer you to the Director of the Government DMEA work since we are drilling one ore job under his direction.

Very truly yours,

CUNNINGHAM CORE DRILLING
AND GROUTING CORPORATION

Sam J. Cunningham

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

April 3, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region VIII

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 VIII

DMEA - 2968 Kay, Robert Golden

ROBERT E. ADAMS

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

38226

April 3, 1953

Mr. Robert Golden Kay
1417 20th Street, N. W.
Washington, D. C.

Subject: DMEA-2968
Exploration Assistance
Re: Kay Mine

My dear Mr. Kay:

The receipt of your application dated March 6, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2968 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2968 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Operations Control and
Statistics Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
College Park, Maryland

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 2 1953

April 1, 1953

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region VIII

Subject: Kay Mine, Halifax County, Virginia
Robert Golden Kay (Partner: John C. Major)
(Copper - Zinc - Lead)

Transmitted herewith are three copies of an application, together with documentations, received from Mr. Robert G. Kay, on subject mine.

N. A. Ellertsen
N. A. Ellertsen for
W. T. Millar

Enclosures - 3

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 2 1953

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

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-2968
Metal or Mineral
Date Received 4-2-53
Estimated Cost
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: Mr. Robert Golden Kay (Partner Mr. John C. Major)
~~1417 20th Street NW~~ 1743 Pa. N.W.
Washington D.C.

(*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 The Kay Mine is situated 6 miles East of South Boston, Halifax County, Virginia, on the property known as the old Pearl King Plantation, 261 acres, more or less. We hold the Court Title, clear of any liens or Debts to the Mining Rights of this land

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
We have the Mineral Rights to this property

(*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 on form attached. also SHEET 1

(*e*) If you own the land, describe any liens or encumbrances on it
none

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

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

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Copper, Zinc and Lead

(*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. as seen on plats hereto attached

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

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations overall cost 6 dollars p.f t.

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 explanation herto attached

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

(*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)? Yes

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

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Washington, March 6, 1953

Robert G. Kay
(Applicant)

By

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

SHEET 1)

4 (a) At present there is no operation going on on KAY MINE

(b) There never has been a full exploration of the Mine, except in the days of mule teams and due to lack of funds in a small measure (1907 - 1911)

(c) Attached is a copy of the Mineralogist's report on the MINE made in 1910 as well as photostatic copies of the plat made by Mr. John Farmer, County Engineer for Halifax County. There is also a sketch of the Mine on the back of this sheet.

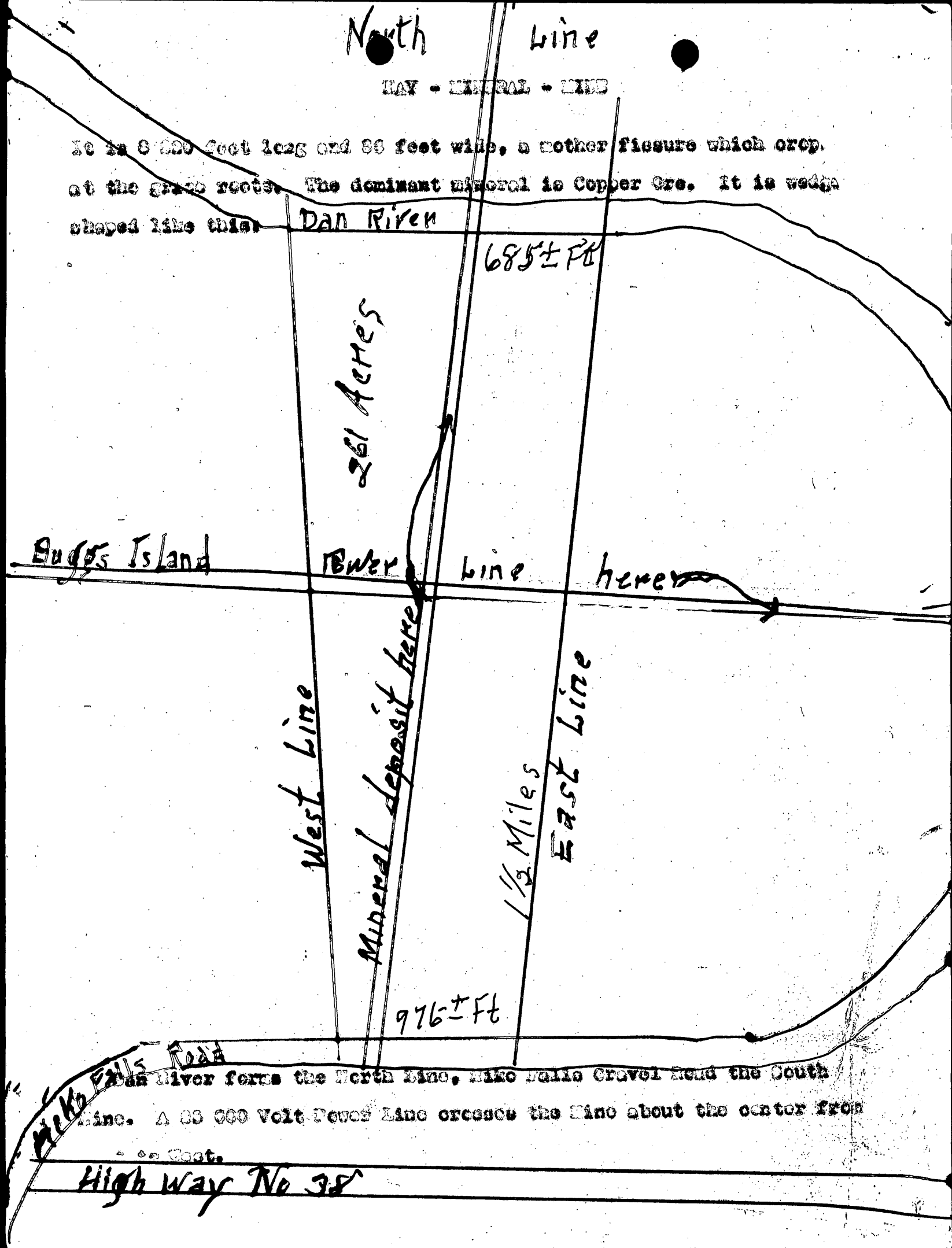
(d) The Mine is accessible via Hiko Fall gravel Road from the South, by water via Dan River on the North. There is a project under way to make Dan River navigable (Buggs Island Power Co.) Also there is railroad transportation available from South Boston, 6 miles from KAY MINE There are several residences within 1 mile radius where there is boarding facility.

(e) There is sufficient manpower available right near MINE, a subcontractor will furnish materials and equipment. There is sufficient water and a 23 000 Volt Power Line crosses the KAY MINE about the center from East to West.

North Line

RAY - MINERAL - MINE

It is 8 000 feet long and 88 feet wide, a mother fissure which crop. at the grass roots. The dominant mineral is Copper Ore. It is wedge shaped like this:



My uncle, Mr. Zack Lee Kay, original owner of the Kay Mine near South Boston, Virginia and founder of the United Virdie Mines at Bisbee, Arizona, had no sons and expressed the wish that I learn all about the mining business so as to be able to explore some day the afore said Kay Mine.

Thus as a very young man, in 1903, I started out working as a miner in the Portland Lead Mines at Webb City, Missouri. While there I became interested in Minerals and went to Netterland, Colorado, where I worked and studied in the TUNGSTEAN Mines, then on to Butte City, Montana, to the Original ANNACONDA CO. mining in the Never sweat, Speculator etc Mines. From there I went on to Miami, Arizona, for the Inspiration Copper Co., worked in the AJO and various other mines until in 1905 I went with the U.S. Federal Government as a miner to Panama; where in a short time I was put in charge of the blasting.

In 1909 I returned to my uncle and started work on the Kay Mine, but due to lack of funds we were forced down in 1911, when I took up my former position in Panama - until 1914.

I then went prospecting on my own and opened the Copper Mine in Scholle New Mexico, Valinchie County. After 4 years of operation I was forced to close down.

In 1919 I went into business with the MASON & HANGER CONSTRUCTION CO., Lackowack, New York, as General Construction Supervisor. After completion of the job assigned to me I went that same year to Bradentown in the West Indies, and worked for the Utah Construction CO; which was under contract to the KENNECOT COPPER CO. to cut a 10.000 foot canal to drain all water from a crater which was 6-000 feet deep. I remained there during 34 months and then went into business for myself in various different fields.

Now I am very anxious to get the Kay Mine under exploration and since I have no funds or machinery, I should appreciate it very much if the

Government would grant me a loan. I shall have a drilling co; do the work and shall supervise the exploration myself.

A nephew of mine, Mr. John C. Major of COULEE CITY, Washington owns 49% of the mining rights. He has given me Power-of-Attorney to act in his behalf as seen by enclosed photostats.

Respectfully submitted, March 6, 1953

by

Robert G. May

6 (a)	Contract Drilling 1500 feet à 6.00 Dollars (contractor to furnish core boxes and all supplies)	9.00
(b)	Supervision at 75.00 dollars a week, 16 weeks	1,200.--
	Consultation ----------	800.--
(g)	Assaying ----------	200.--
(h)	Contingencies ------- 10 % ----------	1,000.--
		11,900.--

Mr. Lawrence . Andrew jr.,
[illegible] Florida Avenue N.W.
Washington D.C.

March 30, 1955.

Bureau of Mines,

Eastern Exploration Station,

Attention: Mr. Miller,

College Park, Maryland

Dear Mr. Miller,

Since it is not convenient for me to drive out to Maryland tomorrow I am sending you enclosed - according to your wishes - the original letter from the Joy Manufacturing Company plus 3 copies of the letter. Perhaps you could return the original letter sometimes to me.

I have also written to the

Pennsylvania Drilling Co., 1201 Chartiers Ave

Pittsburg, Pa. and the

Cunningham Core Drilling & Grouting Corporation,

P. O. Box 515,

Salem, Virginia,

but have then far not heard from these companies.

Hope that on hand of the enclosed letter you are able to push our application ahead. As soon as I get other replies to my inquiries, I shall let you know.

Thanking you for your kind cooperation

I remain

Sincerely yours

E. H. Chazen

JOY MANUFACTURING COMPANY
900 WOODLAND AVENUE
MICHIGAN CITY, INDIANA
TELEPHONE 7-7231

EXECUTIVE OFFICES
HENRY W. OLIVER BUILDING
PITTSBURGH 22, PA.

March 19, 1953

Mrs. Laurin B. Askew, Jr., Agent
1908 Florida Avenue NW
Washington D. C.

Dear Madam:

This will acknowledge receipt of your letter dated March 16th in which you have advised that you are filing an application with the Government for a DMEA loan covering exploration work at the Kay Mining Company property in Halifax County, Virginia, and would like to have a proposition from us covering the drilling of three "AX" or "BX" holes to a depth of 500 feet each.

On the condition that you will guarantee us a minimum of 1500 feet of drilling we will undertake the work at a price of $3.75 per foot for drilling with "AX" fittings and at a price of $4.25 per foot for drilling with "BX" fittings and holes not to exceed a depth of 500 feet. We understand that water for drilling purposes is located in a creek about 500 feet from the proposed drill holes. We will pump water up to a maximum distance of 1,000 feet from the drill holes at our expense.

If it becomes necessary to resort to reaming, casing, or cementing of the drill holes in order to reach the required depths, then such work will be conducted at the rate of $40.00 per 8-hour shift plus cost of materials used up. We will furnish core boxes to accommodate the cores at our expense.

We will furnish for this proposed drilling one of our modern gasoline driven core drills complete with operating equipment and will conduct the drilling operations on a basis of one or two 8-hour shifts per day and not less than 6 days per week.

We hope that the Government will approve your application to have this proposed drilling done. In that event you can communicate with us at that time and we will advise how soon an outfit and crew can be made available for this proposed drilling.

Yours very truly,

JOY MANUFACTURING COMPANY

W. J. Pilarski, Mgr.
Contract Drill Division

WJP/bb

GRANT COUNTY TITLE ABSTRACT COMPANY *"Complete Land Title Service"* **Ephrata, Washington**

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, That John C. Major

whose address is Coulee City, Washington

hereinafter called "Principal," whether one or more, has made, costituted and appointed, and by these presents does make, constitute and appoint R. G. Kay

whose address is 1417-20th St N.W. Washington 6 D.C.,

hereinafter called "Attorney," whether one or more, its true and lawful attorney for it and in the name, place and stead and for the use and benefit of the principal.

To do all things necessary to make a transfer of all my rights, title, and interest in any and all lands located in Halifax County, State of Virginia, including the right, with respect to said land only

to ask, demand, sue for, recover, collect and receive all such sums of money, debts, dues, accounts, legacies, bequests, interests, dividends, annuities and demands whatsoever, as are now or shall hereafter become due, owing, payable or belonging to the principal and have, use and take all lawful ways and means in the name of the principal, or otherwise, for the recovery thereof, by attachments, arrest, distress or otherwise, and to compromise and agree for the same, and to make, sign, seal and deliver acquittances, or other sufficient discharges for the same; for the prinicipal and in the name of the principal, to bargain, contract, agree for, purchase, receive and take lands, tenements, hereditaments, and accept the seizin and possession of all lands, and all deeds, and other assurances in the law therefor; and to lease, let, demise, bargain, sell, remise, release, convey, mortgage and hypothecate lands, tenements and hereditaments, upon such terms and conditions and under such covenants as the attorney shall think fit; to assign and transfer any note or mortgage; to dedicate any street, avenue, alley, place, way or park for public uses. Also to bargain and agree for, buy, sell, mortgage, hypothecate, and in any and every way and manner deal in and with goods, wares and merchandise, choses in action and other property, in possession or in action, and to release mortgages on lands or chattels, and to make, do and transact all and every kind of business of what nature and kind soever. And also for the principal and in the name of the principal and as the act and deed of the principal to sign, seal, execute, deliver and acknowledge such deeds, leases and assignments of leases, covenants, indentures, agreements, mortgages, hypothecations, bottomries, charter parties, bills of lading, bills, bonds, notes, receipts, evidences of debt, releases and satisfactions of mortgage, judgment and other debts, and such other instruments in writing, of whatsoever kind or nature, as may be necessary or proper in the premises:

GIVING AND GRANTING unto the attorney full power and authority to do and perform all and every act and thing whatsoever requisite and necessary to be done in and about the premises as fully to all intents and purposes as the principal might or could do if personally present and

hereby ratifying and confirming all that the said attorney shall lawfully do or cause to be done, by virtue of these presents.

Dated this 6th day of September, 1951

x John C. Major (SEAL)

Mrs Millie J. Major (SEAL)

(SEAL)

(SEAL)

STATE OF WASHINGTON,

County of Grant } *ss.*

I, Curtiss M. Clark

a Notary Public in and for said State, do hereby certify that on this 6th *day of* September, 1951

personally appeared before me John C. Major

to me known to be the individual *described in and who executed the within instrument, and acknowledged that* he *signed and sealed the same* his *free and voluntary act and deed, for the uses and purposes therein mentioned.*

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Curtiss M. Clark

Notary Public in and for the State of Washington residing at Coulee City *in said County.*

My commission expires June 12, 1955

JOHNSON, DOELL & CO.

COPY OF MINERALOGIST REPORT.

I, Walter E. Nutting, Assayer and Engineer for U.S.A. Bureau of Mines, Denver, Colorado, have this day, October 14, 1915, made this report on the KAY MINE, 6 miles East of South Boston, Virginia, Halifax County, on 261 acres known as the Old Pearl King Plantation.

The Mineral Deposit is a Mother Fissure Vein with 11 different kinds of minerals of commercial value.

My first test by well drill cuttings 300 feet in depth - 400 pounds of cuttings bailed out of drill hole Nr. 1 gave from top to bottom of the hole 6-18-100 % COPPER, 1 3/4 ozs silver per ton. Drill Hole Nr. 2; 300 pounds of cutting gave assay of 7-2/100 % COPPER and 2 1/4 ozs of silver per ton. These holes are 400 feet apart. Drill Hole Nr. 3, 400 feet South of Hole Nr. 2, 400 pounds gave 4 50/100 % COPPER and 3 1/8 ozs of Silver per ton. Drill Hole Nr. 4; 300 pounds of cuttings gave 4 99/100 % and 2 3/10 ozs of Silver per ton.

From the above tests, it is my opinion that this vein extends to great depth.

signed:

Walter E. Nutting;

Walter E. Nutting,
Mineralogist and Mining Engineer

Cop. File Nr 9491
Record Book F - COPPER
W.E.N. Report

Copy of report by Mineralogist

James F. Dale, Boise City, Idaho Assay Office:

October 19, 1910.

I, Doctor James F. Dale, at our Laboratories, have this 19th day of October, made a complete Mineralogist Report of copper well drill samples shipped to this office by Robert C. Kay, from Copper Ore shipped from South Boston, Virginia, via express, two bags of Ore 229 pounds taken from two well drill bores 300 feet North of Shaft I and from hole Nr. 1 and Hole Nr. 2. Bag No 1, 107 lbs. gave 8-2/100 % of Copper and 1 3/4 ozs of silver per ton;
Bag No 2, 122 lbs. of ore gave - 18/100 % Copper and 2 9/10 ozs of silver per ton.

This Ore was received September 28, 1910, but assay was held up by inquiry to find out whose property the mineral came from. We were informed it came from a tract of land known as the KAY MINE SMELTING CO. which is on the old Pearl King Plantation, 261 acres, 6 miles East of South Boston, Virginia, in Halifax County, Virginia.

I am Chief Chemist of the Assay Office on Minerals.

signed:

James F. Dale,
Mineralogist

(Both holes were bored by Mr. Kay himself. Hole 1 was 527 feet deep, hole 2 was 490 feet deep. (on the vein) Original is in hands of Mr. John C. Major)

STADIUM OR BALL PARK
POWER PLANT
STONE QUARRY
WAREHOUSE
AIRPLANE LANDING FIELD (EMERGENCY)
AIRWAY BEACON LIGHT
AIRPORT HOUSING FACILITIES
DISTANCE ON PRIMARY ROADS BETWEEN PRIMARY INTERSECTIONS AND/OR COUNTY LINES

BASE MAP PREPARED BY THE DEPARTMENT OF HIGHWAYS IN COOPERATION WITH THE FEDERAL WORKS AGENCY, PUBLIC ROADS ADMINISTRATION, ASSISTED BY THE STATE PLANNING BOARD AND THE WORKS PROGRESS ADMINISTRATION

N

STAUNTON RIVER STATE PARK

Roanoke Rapids

Roanoke River

Black Walnut

Dry Fork

Bluestone

Flemingo Corner

Hedgers Mill

Williards Mill

Pods Mill

Griffing Bridge

Bell Tree

Five Forks

Midway

Smith

Cryder Hill

Cotton Mill

Horning Bridge

Scottsburg

Clover Hill

Dry Fork

Ellington Mill

Sheep Creek

Big Bow

Big Run

Sandy Creek

Cedar Creek

High Hill

Hyco

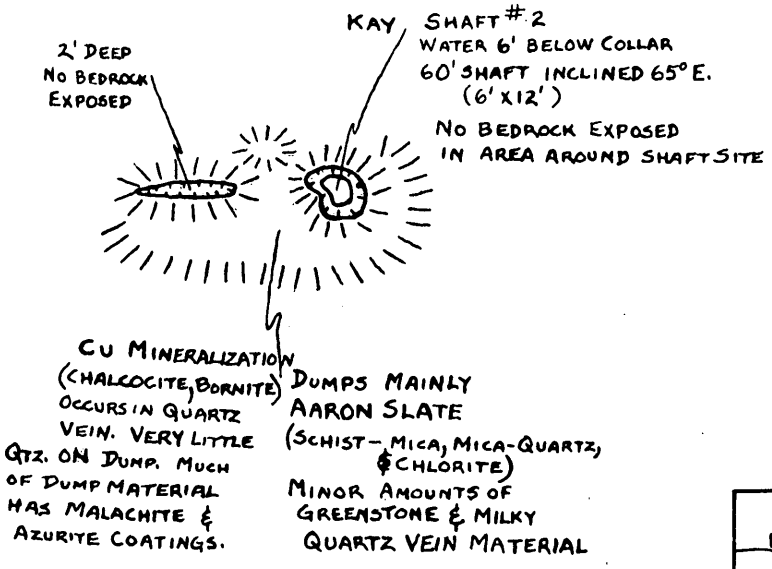
Dry Fork

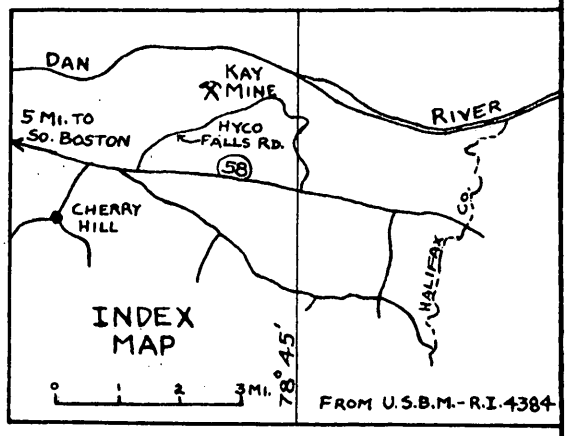
Bluestone

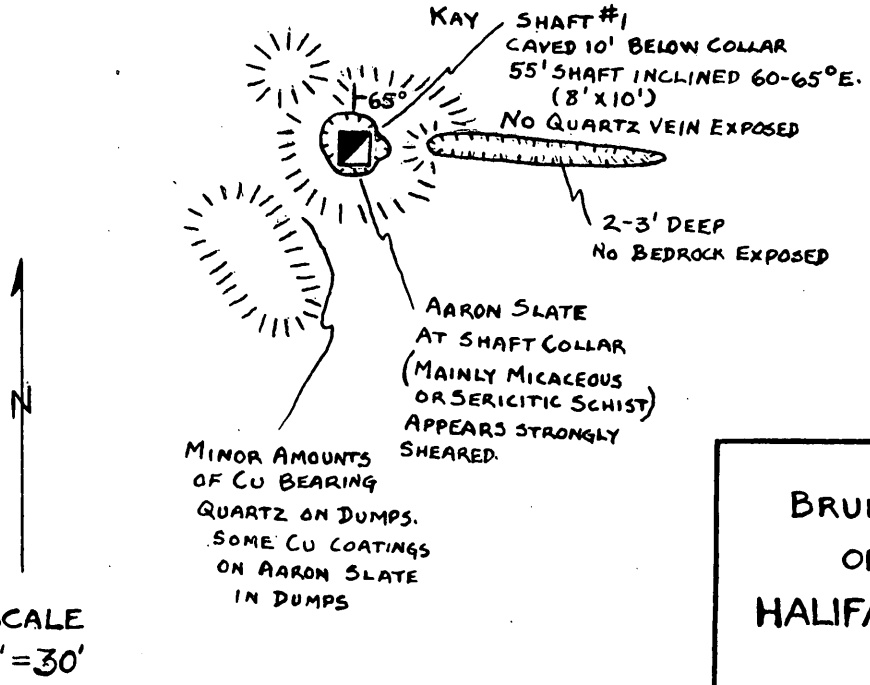
Black Walnut

Roanoke River

Roanoke Rapids



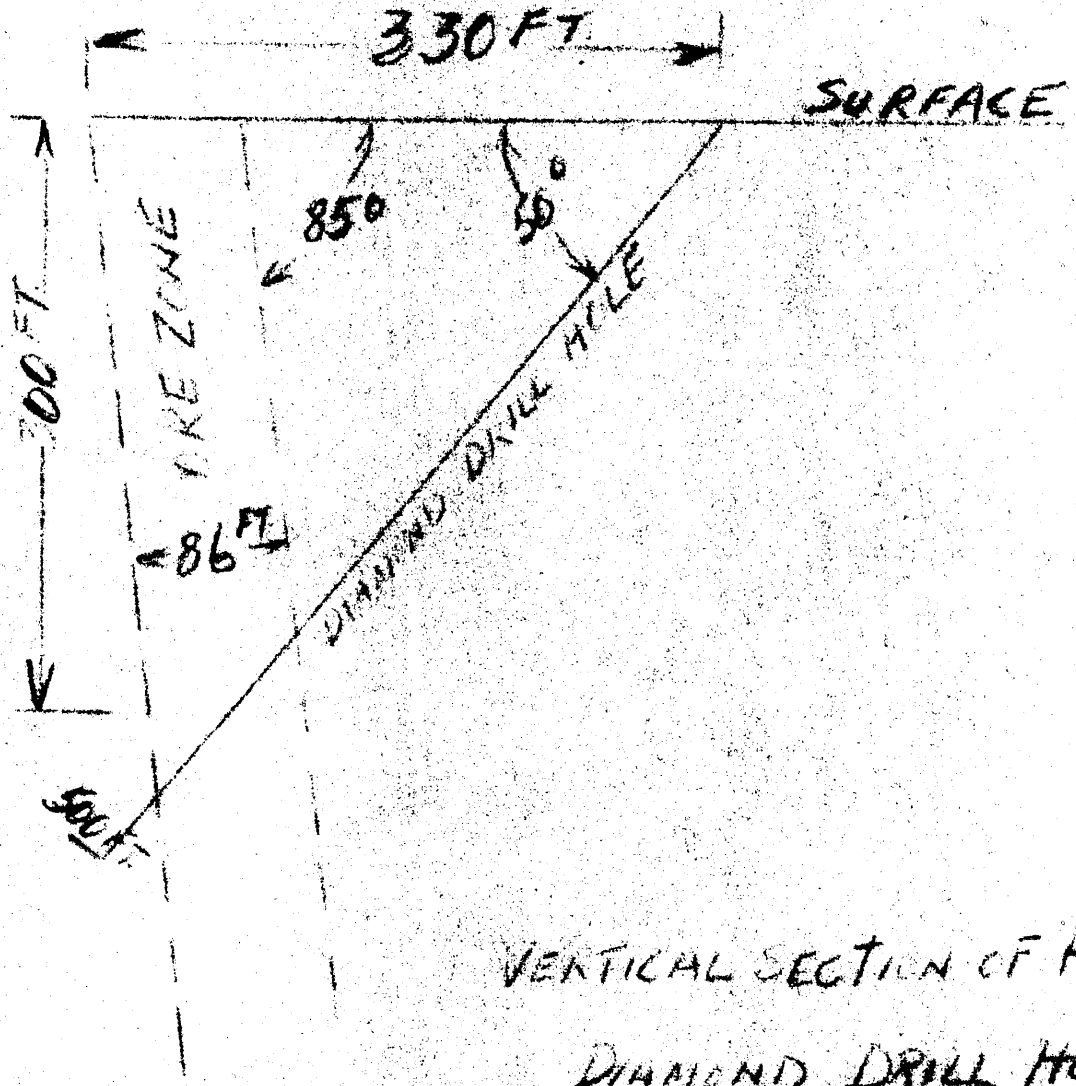




SCALE
1" = 30'

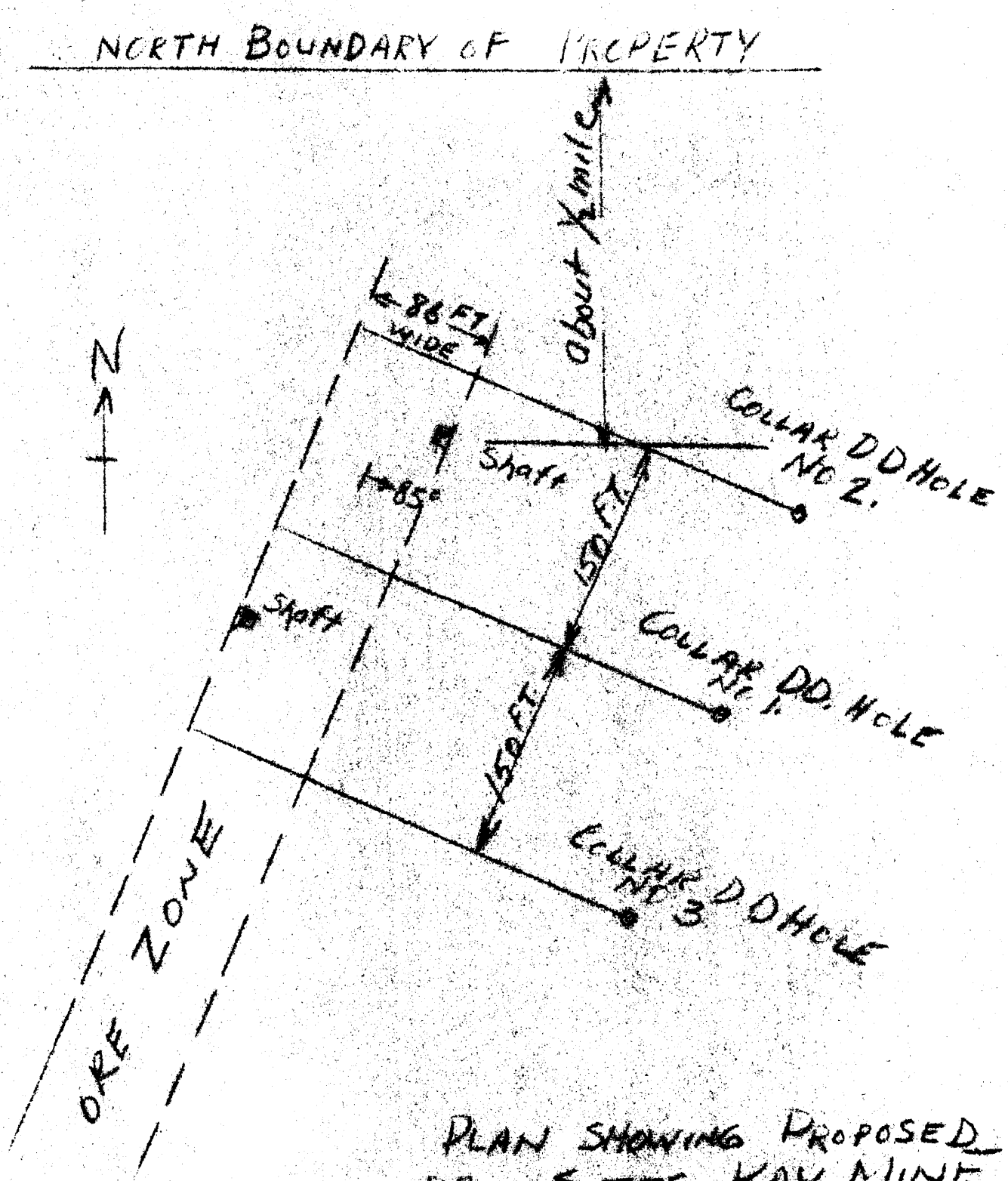
BRUNTON-PACE MAP
OF KAY MINE
HALIFAX CO., VIRGINIA

E. L. NEWCOMB, U.S.G.S.
JULY 15, 1953



VERTICAL SECTION OF PROPOSED
DIAMOND DRILL HOLES
KAY MINE
Scale 1" = 100'

Robert G. Kay



PLAN SHOWING PROPOSED DRILL SITES - KAY MINE
Scale 1" = 100 FT.
Robert H. Kay

STADIUM OR BALL PARK
POWER PLANT
STONE QUARRY
WAREHOUSE
AIRPLANE LANDING FIELD (EMERGENCY)
AIRWAY BEACON LIGHT
AIRPORT HOUSING FACILITIES
DISTANCE ON PRIMARY ROADS BETWEEN PRIMARY INTERSECTIONS AND/OR COUNTY LINES

BASE MAP PREPARED BY THE DEPARTMENT OF HIGHWAYS IN COOPERATION WITH THE FEDERAL WORKS AGENCY, PUBLIC ROADS ADMINISTRATION, ASSISTED BY THE STATE PLANNING BOARD AND THE WORKS PROGRESS ADMINISTRATION

LOCATION OF RAY MINE

HALIFAX COUNTY
VIRGINIA

SHOWING

PRIMARY AND SECONDARY HIGHWAYS

SCALE OF MILES

COUNTY SEAT — HALIFAX

PREPARED BY THE
DEPARTMENT OF HIGHWAYS
RICHMOND, VIRGINIA
JANUARY 3, 1941

REVISED

6-1-32	7-1-38	
7-1-33	7-1-39	
7-1-34	7-1-40	
7-1-35	1-3-41	
7-1-36		
7-1-37		

INDEX TO COUNTY LOCATION

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

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(PMGC)

1 cy each of three maps enclosed
4-3-53