

NAME OF CLAIMANT

#163 - Gibbons, Emma V.

Number of Acres: 110

Location: One mile east of Yancey, east of Gap Run. Entirely within the Park area.

Roads: Two miles to Island Ford over county road.

Soil: Slope type.

History of Tract and condition of timber: There is no cleared land on this tract. This entire tract is in wooded land and has been heavily cut over and a portion has been burned over repeatedly. All of the saw timber has been removed from this tract, leaving nothing except fuelwood. Total of 700 cords.

Improvements:

NONE.

Acreage and value of types:

Types	Acreage	Value per acre	Total Value
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Ridge:

Slope:	110	@ \$3.50	\$385.00
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Cove:

Grazing Land:

Fields Restocking:

175.00
<u>\$560.00</u>

Cultivated Land:

Orchard:

Minerals:

Value of Land: \$ 385.00

Value of Improvements: \$

Value of Orchard: \$

Value of Minerals: \$

Value of Fruit: \$

Value of Timber: \$

Value of Wood: \$ 175.00

Value per acre for tract: \$5.09

Incidental damages arising from the taking of this tract: \$ NONE.

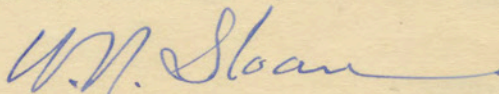
Geo. H. Pen CLERK.

REPORT ON THE ACREAGE
of the
EMMA V. GIBBONS TRACT #163.

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The deed for this tract of land states that it "contains about 124 $\frac{1}{2}$ acres", but does not give any description, other than a general description of the locality and a statement that it is the residue of a tract of land once owned by W. B. Yancey and known as the "Teel Land."

In our survey of this tract we did not make a complete traverse of the boundary, but did locate by ties to the park boundary and to road intersections located by the U. S. G. S., all of the boundaries of the tract except the S. W., and as this is a straight closing line, I feel that we have a reasonably complete survey of the tract. The computed acreage by this survey is 110 acres, and this is covered by the State's report.


W. V. Sloan

Chief Engineer, Park Service.

NAME OF CLAIMANT

#230 - Gibbons, Emma V.

Number of Acres: 120

Location: Hawksbill Creek near top of Blue Ridge and lies entirely within the Park area.

Roads: Eleven miles to Elkton over seven miles of count road and four miles over Spotswood Trail.

Soil: Sandy clay loam.

History of Tract and condition of timber: The cleared land on this tract has been used for grazing purposes for many years. There is no saw-timber on the woodland.

Improvements: Dwelling: Log, 15x17', 2 rooms, porch 6x16', shingle roof, stone flues, 1½ story, log finish, poor condition, occupied by tenant, kitchen, 2 rooms 15x16x12'.

Old barn: Log 17x44x12', shingle roof, poor condition.

Improvements: Spring house: Log, 8x10x6', shingle roof, poor condition.

Hen house: Log, 8x10x6', shingle roof, poor condition.

Acreage and value of types:

Types	Acreage		Value per acre	Total Value
Ridge:				
Slope:	10	@	\$5.00	\$50.00
Cove:				
Grazing Land:	<u>110</u>	@	30.00	<u>3300.00</u>
	120			\$3350.00
Fields Restocking:				
Cultivated Land:				
Orchard:				
Minerals:				

Value of Land: \$ 3350.00

Value of Improvements: \$ 260.00

Value of Orchard: \$ 25.00

Value of Minerals: \$

Value of Fruit: \$ 260.00

Value of Timber: \$

Value of Wood: \$ 50.00

Value per acre for tract: \$ 30.70

25.00

50.00

\$3685.00

Incidental damages arising from the taking of this tract: \$ NONE.

Geo. H. Pen: CLERK. 37

Claim of Mrs. Emma V. Gibbons
In the Circuit Court of Rockingham County, Virginia, No. 25, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. Mrs. Emma V. Gibbons, owner of about 125 to 143 acres, including certain mineral rights.
more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is Mrs. Emma V. Gibbons

My post office address is Elkton, Va.

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 125 to 143 acres, on which there are the following buildings and improvements: Property consists of saw timber land and young timber, also mineral deposits of manganese of highest purity, mining shaft lowered and deposits of manganese definitely determined.

This land is located about 1 miles from Yancey Virginia, in the Stonewall Magisterial District of said County.

I claim the following right, title, estate or interest in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

Joint owner with daughter - Mrs. Mary Snapp, Jr., and son - Hunter M. Gibbons

The land owners adjacent to the above described tract or parcel of land are as follows:

North Harnsberger and Sipe

South Gibbons Land

East By Survey

West J. H. Sipe

I acquired my right, title, estate or interest to this property about the year _____ in the following manner:

Property partly inherited from my father's estate - Capt. W. B. Yancey

I claim that the total value of this tract or parcel of land with the improvements thereon is \$5000.00. I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$5000.00.

I am the owner of 243 acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$_____.

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: This woodland is owned and operated in connection with river bottom land at Yancey, Va. - about one mile distant. Readily accessible and convenient. Mineral deposits of manganese may be of great value.

(Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this 14th day of February, 1930.

STATE OF VIRGINIA, COUNTY OF Rockingham To-wit:

The undersigned hereby certifies that Emma V. Gibbons the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 14th day of February, 1930.

Catherine P. Fleet
Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

my com. expires Jan. 9, 1933

Filed
2/16/31
J. A. B.

Claim of Widow & heirs of W. L. Yancy deceased
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is X W B Yancy
My post office address is _____

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 12 1/2 acres, on which there are the following buildings and improvements: _____

This land is located about 2 miles from Yancy Virginia, in the _____ Magisterial District of said County.

I claim the following right, title, estate or interest ^{there in mineral rights reserved} in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

W. L. Yancy, S. M. Yancy, A. S. Yancy, Mrs. Emma Gibbons, Mrs. Julia T. Estes & W. L. Yancy heirs of W. L. Yancy

The land owners adjacent to the above described tract or parcel of land are as follows:

North Harnsberger & Sipe
South Gibbons land
East Big Surveys
West W. H. Sipe

I acquired my right, title, estate or interest to this property about the year 1914 in the following manner:

Rights reserved in conveyance to present owners Emma V. Gibbons, Hunter M. Gibbons, Mrs. Mary Gibbons & W. L. Yancy

I claim that the total value of this ^{mineral rights} tract or parcel of land with the improvements thereon is \$2400.00 with ^{into one place} mineral rights I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$424.57

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$ _____

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: Widow & heirs of W. L. Yancy own together undivided one seventh interest in mineral rights reserved in above land W. L. Yancy share among A. Yancy, widow Mary V. Yancy, Lois K. Yancy, Charlotte T. Boice, Kessie W. Yancy, Wm B. Yancy, Robert G. Yancy & children & heirs at law of W. L. Yancy (Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this _____ day of February, 1930. X W B Yancy

STATE OF VIRGINIA, COUNTY OF _____, To-wit:

The undersigned hereby certifies that Wm B. Yancy, Capt 282nd the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 13th day of February, 1930.

W B Yancy Capt 282nd Inf
Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

Filed in the Clerk's Office
Rockingham County, Va.
FEB 17 1931
Clerk

Claim of Widow & heirs of Wm. L. Yancy deceased.
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is Mary V. Carter
My post office address is Harrisonburg Virginia

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 12 1/2 acres, on which there are the following buildings and improvements: _____

This land is located about 2 miles from Yancy Virginia, in the Stonewall Magisterial District of said County.

I claim the following right, title, estate or interest in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

W. L. Yancy, S. M. Yancy, A. S. Yancy, J. W. Yancy
Mrs. W. L. Yancy, Mrs. Emma Gibbons, Mrs. Julia Estes & W. L. Yancy's heirs.

The land owners adjacent to the above described tract or parcel of land are as follows:

North Lansinger & Sipe

South Gibbons Land

East Big Spring

West W. F. Sipe

I acquired my right, title, estate or interest to this property about the year 1914 in the following manner:

Rights reserved in conveyance to present owners Emma V. Gibbons
Heir of Mr. Gibbons and Mary Gibbons Snapp

I claim that the total value of this tract or parcel of land with the improvements thereon is \$24,000.00. I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$424.57.

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$_____.

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: Widow & heirs of Wm. L. Yancy own together undivided
one seventh interest in mineral rights in above land
Wm. L. Yancy, Share: Mary A. Yancy, widow of Wm. L. Yancy
Lois R. Yancy, Charlotte Y. Boice, Reuben W. Yancy, Wm. L. Yancy &
Robert L. Yancy children & heirs of (Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this 14th day of February, 1930.

STATE OF VIRGINIA, COUNTY OF Rockingham, To-wit:

The undersigned hereby certifies that _____
the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 14th day of Feb, 1930.

Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

Claim of Widow & heirs W. L. Yancy deceased
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is X. Hampden W. Yancy

My post office address is _____

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 12 1/2 acres, on which there are the following buildings and improvements: _____

This land is located about 2 miles from Yancy Virginia, in the Stone wall Magisterial District of said County.

I claim the following right, title, estate or interest, in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

W. L. Yancy, S. M. Yancy, G. S. Yancy, A. W. Yancy, Mrs. Emma Gibbons, Mrs. Julia C. Carter & W. L. Yancy heirs, Mrs. W. L. Manzy

The land owners adjacent to the above described tract or parcel of land are as follows:

North Harnsberger & Dipe

South Gibbons land

East Big Swamp

West J. H. Dipe

I acquired my right, title, estate or interest to this property about the year _____ in the following manner:

Rights reserved in conveyance to parent owners Emma & Gibbons, Dan & Mary Gibbons Snapps

I claim that the total value of this tract or parcel of land with the improvements thereon is \$ _____. I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$ _____.

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$ _____.

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: Widow & heirs of W. L. Yancy own together undivided one seventh in mineral rights reserved in above land W. L. Yancy, Share Mary A. Yancy, Widow Mary E. Leaster, Lois R. Yancy, Charles L. Boice, Hampden W. Yancy, W. B. Yancy, Robert G. Yancy children & heirs at law of W. L. Yancy deceased. Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this 26 day of February, 1930.

STATE OF VIRGINIA, COUNTY OF Rockingham, To-wit:

The undersigned hereby certifies that X. Hampden W. Yancy the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 26th day of February, 1930.

Flurence L. Kerr
Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

Claim of Widow & heirs of Wm L. Yancey deceased
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is Lois R. Yancey
My post office address is Harrisonburg Virginia

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 124 1/2 acres, on which there are the following buildings and improvements: _____

This land is located about 2 miles from Yancey Virginia, in the Stonewall Magisterial District of said County.

I claim the following right, title, estate or interest, in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

L. L. Yancey, J. M. Yancey, R. S. Yancey, L. W. Yancey, Mrs. W. L. Yancey, Mrs. Emma Gibbons, Mrs. Julia L. Lee, Wm L. Yancey heirs.

The land owners adjacent to the above described tract or parcel of land are as follows:

North Harrisonburg & Lipe
South Gibbons land
East Big Survey
West W. F. Lipe

I acquired my right, title, estate or interest to this property about the year 1914 in the following manner:

Rights reserved in conveyance to present owners Emma V. Gibbons, Hunter M. Gibbons & Mary Gibbons Snapp.

I claim that the total value of this tract or parcel of land with the improvements thereon is \$24000.00. I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$425.57.

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$ _____.

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: Widow & heirs of Wm L. Yancey own together undivided one seventh interest in mineral rights in above land. Wm L. Yancey share: Mary A. Yancey, widow, Mary V. Leuter, Lois R. Yancey, Charlotte V. Boice, Kemyer W. Yancey, W. B. Yancey, Robert G. Yancey, Children & heirs at law Wm L. Yancey deceased. (Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this 14th day of February, 1936.

STATE OF VIRGINIA, COUNTY OF Rockingham, To-wit: _____

The undersigned hereby certifies that the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 14th day of February, 1936.

Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

Filed in the Clerk's Office
Rockingham County, Va.
FEB 17 1931
Clerk

My Commission Expires Sept. 9th, 1936

Claim of widow and heirs of Wm R. Yancey deceased
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is Mary A Yancey

My post office address is Harrisburg Virginia

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 1.24 1/2 acres, on which there are the following buildings and improvements: _____

This land is located about 2 miles from Yancey Virginia, in the Stoneville Magisterial District of said County.

I claim the following right, title, estate or interest in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

Mrs. Yancey, L. M. Yancey, A. Yancey, W. Yancey, Mrs. Emma Gibbs, Mrs. Julia Y. Ester, W. Yancey, Mrs. W. A. Mays

The land owners adjacent to the above described tract or parcel of land are as follows:

North Harrisburg Sife

South Gibbons Land

East Big Survey

West J. H. Sife

I acquired my right, title, estate or interest to this property about the year 1914 in the following manner:

Rights reserved in conveyance to present owners Emma Y Gibbs
Heirs of Gibbs and Mary Gibbs Snapp

I claim that the total value of this tract or parcel of land with the improvements thereon is \$24000.00. I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$_____.

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$428.57.

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: widow and heirs of Wm R. Yancey own together
indivisible one seventh interest in mineral rights in above land

Wm R. Yancey share; Mary A Yancey (widow) Mary Y Carter
Lois R Yancey Charlotte Y Boice K. Mays W. Yancey Wm B Yancey
Robert G Yancey, died and his estate of Wm R Yancey
(Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this 7th day of February, 1934

STATE OF VIRGINIA, COUNTY OF Rockingham, To-wit:

The undersigned hereby certifies that Mary A Yancey
the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 7th day of February, 1934.

Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

Edward J. ...
Clerk in City for
Circuit Court of Rockingham
County, Va

Claim of Widow's heirs of Wm. P. Yancy deceased.
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is Robert G. Yancy

My post office address is Raleigh N.C.

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 124 1/2 acres, on which there are the following buildings and improvements: _____

This land is located about 2 miles from Yancy Virginia, in the Stone wall Magisterial District of said County.

I claim the following right, title, estate or interest in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

W. P. Yancy, J. M. Yancy, R. S. Yancy, J. W. Yancy, Mrs. Emma Gibbons, Mrs. Julia L. Pates, Wm. P. Yancy heirs Mrs. W. P. Yancy

The land owners adjacent to the above described tract or parcel of land are as follows:

North Harnsberger & Lipe

South Gibbons Land

East Big Spring

West W. F. H. Lipe

I acquired my right, title, estate or interest to this property about the year 1914 in the following manner:

Rights reserved in conveyance to present owners Emma V. Gibbons, Duster M. Gibbons, Mary Gibbons Snapps

I claim that the total value of this tract or parcel of land with the improvements thereon is \$2400.00. I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$2400.00.

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$_____

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: Widow's heirs of W. P. Yancy own together undivided one seventh interest in mineral rights in above land W. P. Yancy, J. M. Yancy, R. S. Yancy, J. W. Yancy, Mrs. Emma Gibbons, Mrs. Julia L. Pates, Wm. P. Yancy heirs Mrs. W. P. Yancy, Charles L. Boice, Kiefer W. Yancy, W. B. Yancy, Robert G. Yancy children heirs at law of W. P. Yancy dead. (Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this _____ day of February 1930.

STATE OF VIRGINIA, COUNTY OF Woke, To-wit:

The undersigned hereby certifies that Robert G. Yancy the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 17th day of February, 1930.

Juliette Faircloth, N.P.
Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

My Commission Expires June 10, 1931.

Claim of Mrs S. D. Estes
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is Mrs. S. D. Estes

My post office address is Barboursville, Va.

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 1 24/12 acres, on which there are the following buildings and improvements: Same land deeded to Mrs Emma Gibbons with mineral rights etc Reserved.

This land is located about 2 miles from Yancey Virginia, in the Stone Magisterial District of said County.

I claim the following right, title, estate or interest in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

J. H. Yancey, S. M. Yancey, A. Yancey, Mrs W. H. Maury,
Mrs Emma Gibbons, W. H. Yancey (W. H. Yancey heirs)

The land owners adjacent to the above described tract or parcel of land are as follows:

North Hargreaves & Wife

South Gibbons Land

East Big Survey

West W. H. Sipe

I acquired my right, title, estate or interest to this property about the year 1914 in the following manner:

Inherited

I claim that the total value of this tract or parcel of land with the improvements thereon is \$ 24000.00 Interest from sale
I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$ 3000.00 Int

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$ _____

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks:

Mineral Water & Timber
Rights reserved on lands of Mrs Emma Gibbons
deed, manganese shaft sunk, analysis
Rendered by Chemist (Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this 6 day of Feb, 1931.

STATE OF VIRGINIA, COUNTY OF Orange, To-wit:

The undersigned hereby certifies that Mrs S. D. Estes
the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 6 day of Feb, 1931.

W. H. Head n.p.
Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

Claim of Widow's heirs of Wm L. Yancey deceased
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is Charlotte Yancey Boice

My post office address is Harrisonburg Virginia

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 124 1/2 acres, on which there are the following buildings and improvements: _____

This land is located about 2 miles from Yancey Virginia, in the Stoneswell Magisterial District of said County.

I claim the following right, title, estate or interest in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

W. L. Yancey, J. M. Yancey, A. S. Yancey, W. Yancey, Mrs. Emma Gibbons, Mrs. J. A. Estess, W. D. Yancey heirs, Mrs. W. D. Yancey -

The land owners adjacent to the above described tract or parcel of land are as follows:

North Harnsberger & Sipe

South Gibbons land

East Big Surveys

West W. F. H. Sipe

I acquired my right, title, estate or interest to this property about the year 1914 in the following manner:

rights reserved in conveyance to present owners
Emma V. Gibbons, J. M. Gibbons, Mrs. Mary Gibbons, Sipe

I claim that the total value of this tract or parcel of land with the improvements thereon is \$24,000.00. I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$4,250.00.

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$ _____.

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: Widow's heirs of W. L. Yancey own together undivided one
Seventh in mineral rights reserved in above land
Wm L. Yancey, Shari Mary A. Yancey (widow), Mary B. Cantor, Lois B. Yancey,
Charles L. Y. Boice, Kenner W. Yancey, W. B. Yancey, Robert G. Yancey,
Children & heirs at law of W. L. Yancey, etc. (Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this 14th day of February, 1930.

STATE OF VIRGINIA, COUNTY OF Rockingham, To-wit:

The undersigned hereby certifies that Charlotte Yancey Boice the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 14th day of February, 1930.

Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

My Commission Expires Sept. 9th, 1934

Claim of P. L. S. Yancey
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is A. S. Yancey
My post office address is Charlottesville Va

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 124 1/2 acres, on which there are the following buildings and improvements: Same Land deeded to Mrs Emma Gibbons with mineral rights etc Reserved

This land is located about 2 miles from Yancey Virginia, in the Sonewall Magisterial District of said County.

I claim the following right, title, estate or interest in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

P. L. Yancey M. Yancey J. W. Yancey Mrs Emma Gibbons Mrs Julia G. Estes Mrs W. H. Manzy (W. L. Yancey)

The land owners adjacent to the above described tract or parcel of land are as follows:

North Hampshires side
South Gibbons Land
East Big Survey
West W. H. Side

I acquired my right, title, estate or interest to this property about the year 1914 in the following manner:

Inherited

I claim that the total value of this tract or parcel of land with the improvements thereon is \$ 24000.00 Interest from date
I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$ 3000.00 Interest from date

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$ _____.

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks:

mineral water timber rights may arise mineral shaft sink analysis Required by chemist. Same Land deeded to Mrs Emma Gibbons with mineral water timber rights reserved
(Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this _____ day of _____, 1930.

STATE OF VIRGINIA, COUNTY OF _____, To-wit:

The undersigned hereby certifies that A. S. Yancey the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 10 day of July, 1930.

W. L. Gibbons
Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

My Commission Expires Aug. 18, 1932

Claim of Mrs W.L. Maury
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is Mrs W.L. Maury

My post office address is Mrs. Lakeview Va

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 1 1/4 acres, on which there are the following buildings and improvements: Same land deeded to Mrs Emma Gibbons with mineral Rights etc Reserved

This land is located about 2 miles from Gauley Virginia, in the Stonewall Magisterial District of said County.

I claim the following right, title, estate or interest in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

P.L. Gauley, S.M. Gauley, A. Gauley, F.W. Gauley, Mrs Emma Gibbons, Mrs Julia G. Esters & W.L. Gauley heirs

The land owners adjacent to the above described tract or parcel of land are as follows:

North Hausberger & Life

South Gibbons Land

East Big Survey

West W.F. Life

I acquired my right, title, estate or interest to this property about the year 1914 in the following manner:

Inherited

I claim that the total value of this tract or parcel of land with the improvements thereon is \$24000.00 Interest from date I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$3000.00 Int from date

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$_____.

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: mineral, water, Timber rights reserved on Land of Mrs Emma Gibbons deeded to Maganest shaft. Sunk analysis rendered by Chemists

(Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this 4-th day of Feb, 1934.

STATE OF VIRGINIA, COUNTY OF Rockingham To-wit: Mrs W.L. Maury

The undersigned hereby certifies that Mrs W.L. Maury the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 4th day of Feb, 1934.

My Commission expires Aug. 22, 1934.

M. J. Gauley Jr.
Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

Claim of F. W. Yancy
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in _____ County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is F. W. Yancy
My post office address is Mt. Fathysville Va.

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 124 1/2 acres, on which there are the following buildings and improvements: Same Land, deeded to

Mrs Emma Gibbons with mineral Rights etc reserved

This land is located about 2 miles from Yancy Virginia, in the Stonewall Magisterial District of said County.

I claim the following right, title, estate or interest in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

F. W. Yancy, F. M. Yancy, A. Yancy, F. W. Yancy, Mrs Emma Gibbons Mrs D. A. Edles, Mrs W. L. Yancy, W. L. Yancy

The land owners adjacent to the above described tract or parcel of land are as follows:

North Hamberget Pipe
South Gibbons Land
East Big Survey
West W. F. Pipe

I acquired my right, title, estate or interest to this property about the year 1914 in the following manner: Inherited

I claim that the total value of this tract or parcel of land with the improvements thereon is \$ 24000.00 Mineral water & Timber Rights
I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$ 3000.00 Interest from date

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$ _____

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: Maganese Ore, Shaft sunk Analysis rendered by Chemist. Mineral, Timber & water rights reserved

(Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this 4 day of Feb, 1930. F. W. Yancy

STATE OF VIRGINIA, COUNTY OF Rockingham, To-wit: F. W. Yancy

The undersigned hereby certifies that the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 12th day of April, 1930.

M. Yancy
Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

Filed in the Clerk's Office
Rockingham County, Va.

FEB 17 1931

Clerk

Claim of S. M. Yancey
In the Circuit Court of Rockingham County, Virginia, No. _____, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. _____

more or less, of land in _____ County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is S. M. Yancey
My post office address is Gainesville Fla.

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 1.24 1/2 acres, on which there are the following buildings and improvements: Same land conveyed to Mrs Emma Gibson with minerals Rights reserved.

This land is located about 2 miles from Yancey Virginia, in the Stonehill Magisterial District of said County.

I claim the following right, title, estate or interest in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

S. Yancey as owner of Yancey Mrs W. H. May
Mrs Emma Gibson Mrs J. D. Estes S. Yancey

The land owners adjacent to the above described tract or parcel of land are as follows:

North Harnsberger & Sife
South Gibbons Land
East Big Survey
West W. F. J. H. Sife

I acquired my right, title, estate or interest to this property about the year 1914 in the following manner:

Inherited

I claim that the total value of this tract or parcel of land with the improvements thereon is \$24000.00 interest from date I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$3000.00 interest from date

I am the owner of _____ acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$_____.

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: May mine ore, shaft sink
Analysis rendered by chemist

(Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this 12 day of July 1930.

STATE OF VIRGINIA, COUNTY OF Rockingham To-wit:

The undersigned hereby certifies that S. M. Yancey the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 12 day of July, 1930.

Paul A. May
Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

Notary Public, State of Florida at Large
My Commission expires Feb. 12, 1933

Filed in the Clerk's Office
Rockingham County, Va.

FEB 25 1931

J. R. Lusk
Clerk

Claim of Mrs. Emma V. Gibbons
In the Circuit Court of Rockingham County, Virginia, No. 25, At Law.
The State Commission on Conservation and Development of the State of Virginia, Petitioner, vs. Mrs. Emma V. Gibbons, owner of about 125 to 143 acres, including certain mineral rights,
more or less, of land in Rockingham County, Virginia, Defendants.
The undersigned, in answer to the petition of the State Commission on Conservation and Development of the State of Virginia, and in response to the notice of condemnation awarded upon the filing of said petition and published in accordance with the order of the Circuit Court of Rockingham County, Virginia, asks leave of the Court to file this as his answer to said petition and to said notice.

My name is Mrs. Emma V. Gibbons

My post office address is Elkton, Va.

I claim a right, title, estate or interest in a tract or parcel of land within the area sought to be condemned, containing about 125 to 143 acres, on which there are the following buildings and improvements: Property consists of saw timber land and young timber, also mineral deposits of manganese of highest purity, mining shaft lowered and deposits of manganese definitely determined.

This land is located about 1 miles from Yancey Virginia, in the Stonewall Magisterial District of said County.

I claim the following right, title, estate or interest in the tract or parcel of land described above: (In this space claimant should say whether he is sole owner or joint owner, and if joint owner give names of the joint owners. If claimant is not sole or joint owner, he should set out exactly what right, title, estate or interest he has in or to the tract or parcel of land described above.)

Joint owner with daughter - Mrs. Mary Snapp, Jr., and son-Hunter M. Gibbons

The land owners adjacent to the above described tract or parcel of land are as follows:

North Harnsberger and Sipe

South Gibbons Land

East By Survey

West J. H. Sipe

I acquired my right, title, estate or interest to this property about the year _____ in the following manner:

Property partly inherited from my father's estate-Capt. W.B. Yancey

I claim that the total value of this tract or parcel of land with the improvements thereon is \$7,000.00. I claim that the total value of my right, title, estate or interest, in and to this tract or parcel of land with the improvements thereon is \$7,000.00.

I am the owner of 243 acres of land adjoining the above described tract or parcel of land but lying outside the Park area, which I claim will be damaged by the proposed condemnation of lands within the Park area, to the extent of \$_____.

(In the space below should be set out any additional statements or information as to this claim which claimant desires to make; and if practicable he should also insert here a description of the tract or parcel of land by metes and bounds).

Remarks: This woodland is owned and operated in connection with river bottom land at Yancey, Va.-about one mile distant. Readily accessible and convenient. Mineral deposits of manganese may be of great value.

(Continue remarks if necessary on the back).

Witness my signature (or my name and mark attached hereto) this 24th day of Feb, 1930.

STATE OF VIRGINIA, COUNTY OF Henrico, To-wit:

The undersigned hereby certifies that Emma V. Gibbons the above named claimant personally appeared before him and made oath that the matters and things appearing in his above answer are true to the best of his knowledge and belief, this 24th day of February, 1930.

Katherine P. Hunt
Clerk of the Court, or Special Investigator or Notary Public, or Justice of the Peace.

My Com. expires Jan. 9, 1933

Revised report

County: Rockingham
District: Stonewall

#163 - Gibbon, Mrs. Emma V.

<u>Acreage Claimed:</u>	Assessed: 243.95	Deed: 124 A. purchased 1926
<u>Value Claimed:</u>	Assessed:	" 1/5 int. \$6956.00 14/40
	Area:	inherited with other land.

Location: One mile east of Yancey, east of Gap Run.
Entirely within the Park area.

Incumbrances, counter claims or laps: None.

Soil: Slope type.

Roads: Two miles to Island Ford over county road.

History of tract and condition of timber: There is no cleared land on this tract. This entire tract is in wooded land and has been heavily cut over and a portion has been burned over repeatedly. All of the saw timber has been removed from this tract, leaving nothing except fuelwood. A total of 700 cords valued @ 25¢ per cord or \$175.00

Improvements: None.

Value of land by types:

Type	Acreage	Value per acre	Total Value
Slope (burned)	72	\$1.50	\$108.00
Slope (unburned)	38	3.50	133.00
	<u>110</u>		<u>\$241.00</u>

Total value of land	\$241.00
Total value of timber	<u>175.00</u>
Total value of tract	\$416.00
Average value per acre	\$3.78

County: Rockingham
District: Stonewall

#230 - Gibbons, Emma V.

Acreage Claimed: Assessed 120 A. Deed 120 A.
Value Claimed: " \$960.00 " \$6956.00
Area: 120 A.
Location: Hawksbill creek near top of Blue Ridge and lies entirely within the Park area.

Incumbrances, counter claims or laps: None known.

Soil: Sandy clay loam.

Roads: Eleven miles to Elkton over seven miles of county road and four miles over Spotswood Trail.

History of tract and condition of timber: The cleared land on this tract has been used for grazing purposes for many years. There is no sawtimber on the woodland.
Timber: Fuelwood -- 120 cords valued @ 50¢ --- \$60.00.

Improvements: Dwelling: Log, 15x17', 2 rooms, porch 6x16', shingle roof, stone flues, 1½ story, log finish, poor condition, occupied by tenant, kitchen - 2 rooms 15x16x12' -- \$150.00
Old barn: Log 17x44x12', shingle roof, poor " 25.00
Spring house: Log, 8x10x6', shingle roof, poor " 5.00
Hen house: Log, 8x10x6', shingle roof, poor " 5.00
\$185.00

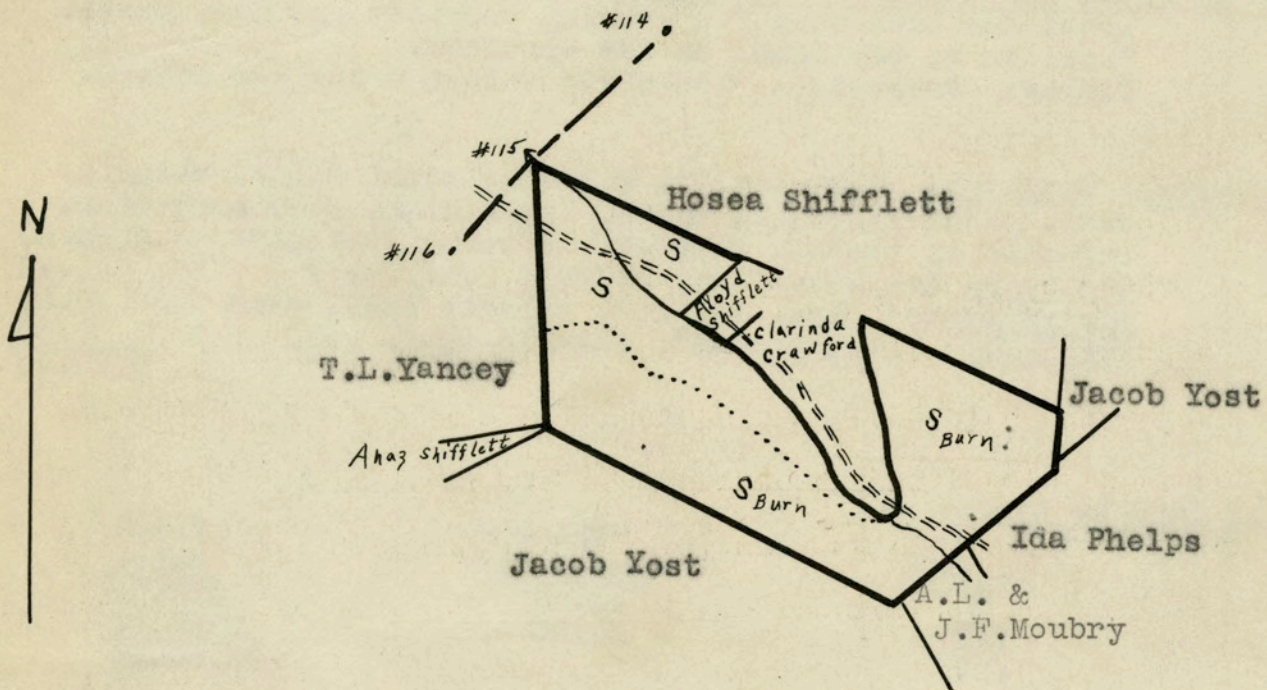
Value of land by types:

Type	Acreage	Value per acre	Total Value
Slope	10	\$3.00	\$30.00
Fg	110	25.00	2750.00
	120		\$2780.00

Total value of orchard	\$40.00
Total value of land	2780.00
Total value of improvements	185.00
Total value of timber	60.00
Total value of tract	\$3065.00
Average value per acre	25.54

County: Rockingham
District: Stonewall

#163- Gibbon, Mrs. Emma V.



LEGEND:

Slope

Scale - 1" = 20 chains

11
Filed in the Clerk's Office
Rockingham County, Va.

OCT / 1932

J. R. Smith Clerk

THE STATE COMMISSION ON CONSERVATION AND DEVELOPMENT IN THE STATE
OF VIRGINIA.

VS.

CASSANDRA ATKINS AND OTHERS, AND FIFTY TWO THOUSAND FIVE HUNDRED AND
SIXTY ONE (52,561) ACRES OF LAND IN ROCKINGHAM COUNTY.

To the Honorable H. W. Bertram, Judge of the Circuit Court of
Rockingham County.

The Petition of Mrs. Emma V. Gibbons, Hunter M. Gibbons, and
Mrs. Mary Gibbons Snapp, respectfully represents:

That they are the owners in fee simple of a tract of one hundred
and twenty four and one-half acres of land within the area which is
sought to be condemned for Park purposes in the above entitled cause.

That this land lies East of Yancey about one or one and one-half
miles, that most of the land is flat land, timber, and contains
valuable Manganese prospects as will be seen from Bulletin 660 J
issued by the Interior Department on January 21, 1918. This land
is in timber but is capable of utilization for farming purposes
and for fruit raising. The land itself regardless of the mineral
prospects thereon is worth at least One Thousand Eight Hundred
Sixty Seven Dollars and fifty cents for which the Appraisal
Commissioners of the Park proposed to give only the sum of
Five Hundred and Sixty Dollars which is not one-third of its actual
value.

IN ADDITION TO THE ABOVE Exceptant excepts to said report of
Appraisal Commissioners upon the grounds that they have ignored the
mineral rights thereon belonging to Exceptant and others which is
worth at least Twelve Thousand Dollars, Exceptant's interest therein
being worth fifteen Hundred Dollars. The proposed taking of
Exceptant's property at the price suggested by the Board of Appraisal
Commissioners amounts to confiscation of their property and taking
the same without any just compensation therefor.

WHEREFOR Petitioners pray leave to file this, their except,

to the said report of the said Board of Appraisal Commissioners and asks the Court to grant them a hearing before the Court or the Jury empaneled by it to the end that justice may be done Petitioners.

AND they will ever pray, etc.

Emma V. Gibbons

Hunter M. Gibbons

Mary Gibbons Snapp
By Counsel

Lee A. Hunter
Counsel

VIRGINIA,

CITY OF HARRISONBURG, To-wit:

I, Bessie M. Cooke, a Notary Public in and for the City of Harrisonburg in the State of Virginia, do certify that Mrs. Emma V. Gibbons, and Hunter M. Gibbons, whose names are signed on the margin hereof for the purpose of identification, this day personally appeared before me and made oath that the facts stated in the foregoing Petition or Exception are true.

Emma V. Gibbons
Hunter M. Gibbons

Given under my hand this 1st day of October, 1932.

Bessie M. Cooke
Notary Public.

VIRGINIA : IN THE CIRCUIT COURT OF ROCKINGHAM COUNTY.

The State Commission on Conservation and Development
of the State of Virginia PETITIONER

v. At Law No. 1829

Cassandra Lawson Atkins and others, and Fifty-Two
Thousand, Five Hundred and Sixty-One (52,561) Acres
of land, more or less DEFENDANTS

On this 27 day of December, 1933, came Emma V.

Gibbons, Hunter M. Gibbons, Mary Y. Snapp, Federal Intermediate
Credit Bank of Baltimore, and Farmers Agriculture Credit Corpora-
tion, by counsel, and on their motion, leave is given them to file
their application for the payment to them in the amounts herein-
after of the sum of Thirty Six Hundred Eighty Five Dollars
(\$3685.00), the amount of the award set out in the judgment of con-
demnation for tract number 230, and heretofore paid into Court.
And it appearing from the report of the Board of Appraisal Com-
missioners heretofore filed in this cause, and in the petition for
judgment and condemnation heretofore filed herein that in the
opinion of the petitioners, the said Emma V. Gibbons, Hunter M.
Gibbons and Mary Y. Snapp, are invested with a superior or better
right or claim of title in and to said tract number 230; and it
further appearing that the said tract of land is incumbered by a
certain deed of trust to Howard K. Gibbons, Trustee, securing a
debt of Twelve Hundred Dollars (\$1200.00), payable to Louis M.
Thompson; and it further appearing that the said owners have assign-
ed to the Farmers Agriculture Credit Corporation and the Federal
Intermediate Credit Bank of Baltimore, the sum of Eleven Hundred
Thirty Dollars and Thirty Cents (\$1130.30) out of said award; and
it further appearing that excepting said deed of trust and said
assignment, the record of this cause does not disclose any denial
or dispute of any party or person in interest as to the title to

said tract or to the proceeds arising from the condemnation thereof; and it further appearing that the said Hunter M. Gibbons and Mary Y. Snapp desire that the entire amount of said award remaining after the payment of said deed of trust debt and said assignment debt shall be paid to the said Emma V. Gibbons; and it further appearing to the Court that all taxes due or taxable upon the said tract number 230 have been paid; upon consideration whereof, it is considered and ordered by the Court that the said sum, to-wit, Thirty Six Hundred Eighty Five Dollars (\$3685.00) paid into Court by petitioner as just compensation for said tract number 230, shall be paid and distributed as follows :

Twelve Hundred Dollars (\$1200.00) thereof to said Louise M. Thompson, the owner and holder of said first lien deed of trust; the further sum of Eleven Hundred Thirty Dollars and Thirty Cents (\$1130.30) to said Farmers Agriculture Credit Corporation and the Federal Intermediate Credit Bank of Baltimore; and the balance of said award, to-wit, the sum of Thirteen Hundred Fifty Four Dollars and Seventy Cents (\$1354.70) should be paid to the said Emma V. Gibbons; and the Clerk of this Court is directed to transmit a certified copy of this order to the Treasurer of Virginia, who shall pay unto the said Louise M. Thompson, Farmers Agriculture Credit Corporation and Federal Intermediate Credit Bank of Baltimore, and the said Emma V. Gibbons, the aforesaid respective amounts, the aggregate of the same being the amount of the award set out in the judgment of condemnation for said tract of land, taking from the said payees receipts therefor, and certifying such payments to the Clerk of this Court for appropriate entry as required by law.

ENTER :

Ward Swank

20 / 66

COUNTY OF ROCKINGHAM

Commonwealth of Virginia

Assessed to:

Year

Assessed

19 33

District

Received of:

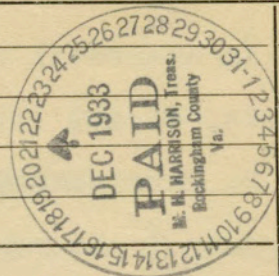
Stonewall
Gibbons Emma V. Hunter M & Oltun

as follows

NOTICE

This receipt is given
for partial payment of taxes.
Original tax ticket will not
be delivered to taxpayer
until taxes are paid in full.

STATE	Capitation			
	Intangibles			
	Income			
	Penalty			
	Interest			
COUNTY	Personal Property			
	Real Estate <i>120-0-0-1000 acres</i>	<i>10</i>	<i>50</i>	
	Penalty		<i>53</i>	
	Interest			
	Advertising Cost, etc.			
Total		/100 Dollars		<i>11 03</i>



Harrisonburg, Va.
Date *12/21/33*

193

M. H. HARRISON, Treasurer

By

M. H. Harrison

Clerk's Office

Circuit Court of Rockingham County
Harrisonburg, Virginia

HON. H. W. BERTRAM
JUDGE
J. ROBERT SWITZER
CLERK

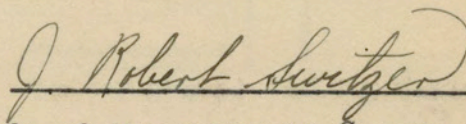
DEPUTIES
W. EDGAR SIPE
MARGIE BOWERS
MARGARET BRANUM

STATE OF VIRGINIA,

COUNTY OF ROCKINGHAM, to-wit:

I, J. Robert Switzer, Clerk of the Circuit Court of Rockingham County, do hereby certify that I find no delinquent taxes against the tract of 120 acres in Stonewall District, assessed in the name of Emma V. Gibbons and others, except for the tax year 1932, but which taxes by statement of M. H. Harrison, County Treasurer, shown herewith, have been paid in the County Treasurer's office, since said tract was returned delinquent to my office.

Given under my hand this 27th day of December, 1933.



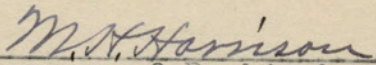
Clerk of the Circuit Court of Rockingham
County, Virginia. *By M. A. Branum, D.C.*

M. H. HARRISON
TREASURER OF ROCKINGHAM COUNTY
HARRISONBURG, VIRGINIA

To Whom It May Concern:

I hereby certify that the records of my office show that the taxes for the years 1932 and 1933 assessed in the name of Emma V. Gibbons, Hunter Gibbons and others, on a tract of 120 acres of land situate in Stonewall District in Rockingham County, have been paid.

Given under my hand this 27th day of December 1933.



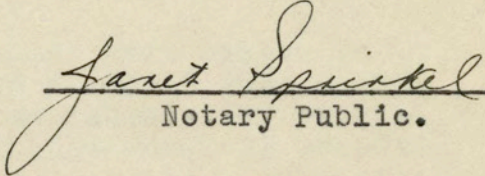
Treasurer of Rockingham County.

State of Virginia,

City of Harrisonburg, to-wit :

I, Janet Sprinkel, a Notary Public, in and for the City and State aforesaid, do hereby certify that Hunter M. Gibbons and Ward Swank, whose names are signed to the foregoing writing, have personally appeared before me in my said City and having been duly sworn, made oath that the facts therein stated are true.

Given under my hand this 21st day of December, 1933.


Notary Public.

No. 163

RETURN IN FIVE DAYS TO
J. ROBERT SWITZER, Clerk
Circuit Court of Rockingham County
HARRISONBURG · VIRGINIA

STATEMENT

OF) Chas. A. Hammer, p.q.

EMMA V. GIBBONS, HUNTER M. GIBBONS, MARY GIBBONS SNAPP

Filed 8/28/33

STATEMENT OF COSTS., POSTAGE, ETC.:

77
SUPLEE ENVELOPE CO., UPPER DARBY, PA.

*Emma V. Gibbons and others
No. 163.*

CHAS. A. HAMMER
ATTORNEY AT LAW
HARRISONBURG, VA.

To The
Hon. Phillip Williams,
Chairman of the Land Tract Arbitration Board:

We, Thomas L. Yancey, Emma V. Gibbons, S.M. Yancey, Nettie I. Mauzy, Julia Estes, A.S. Yancey and Frank W. Yancey, have employed Messrs. Hammer & Hammer of Harrisonburg, to represent us in all condemnation proceedings in connection with our land tract #163 in the Shenandoah National Park Area, as it appears upon the maps filed in the Clerk's Office of Rockingham County.

Given under our hands this 22nd day of August, 1933.

Emma V. Gibbons
Amelio H. Gibbons
Lacey Gibbons Scrapp-

IN THE CIRCUIT COURT OF ROCKINGHAM COUNTY, VIRGINIA.

Emma V. Gibbons & others
20.163

Original

THE STATE COMMISSION ON CONSERVATION AND DEVELOPMENT
OF THE STATE OF VIRGINIA,

Vs.

CASANDRA LAWSON ATKINS, et als., and 52,561 Acres
of Land in Rockingham County.

Filed in the Clerk's Office
Rockingham County, Va.

AUG 28 1933

TO THE

HON. H. W. BERTRAM, JUDGE OF THE CIRCUIT COURT:

Robert Hunter Clerk

(1) The motion of Emma V. Gibbons, Hunter M. Gibbons, and Mary Gibbons Snapp, praying the Court to disapprove and to decline to accept the findings of the Board of Appraisal Commissioners heretofore appointed by the said Court in the above matter, wherein the said Board reported under #163 of its findings as filed in the Clerk's Office of the said Court that moveants are only entitled to FIVE HUNDRED AND SIXTY (\$560.00) DOLLARS for the 124-1/2 acres of land which they own in fee, the mineral rights being owned by Emma V. Gibbons, et als., and for which a separate claim has been filed.

(2) The amount allowed for the said land is wholly inadequate, and amounts to a taking of their property without just compensation. This land is in young growing timber, is suitable for farming purposes, and excellent land for fruit growing. This land at the lowest calculation, lying within a mile and a half of the railroad, and alongside the public road, is easily worth FIFTEEN (\$15.00) DOLLARS per acre. The land is unimproved and the entire tract is slope and orchard land of a good type. The value of this land at the lowest is EIGHTEEN HUNDRED AND SIXTY SEVEN (\$1,867.50) DOLLARS AND FIFTY CENTS.

Moveants prefer a trial by jury.

Emma V. Gibbons
Hunter M. Gibbons
Mary Gibbons Snapp

[Signature]
Counsel

By Counsel

Emma K. Gibbons

VIRGINIA, CITY OF HARRISONBURG; TO-WIT:

This day personally appeared Emma Vz. Gibbons, one of the moveants in the above-named case, acting for herself and for Hunter M. Gibbons and Mary Gibbons Shapp, and whose name is signed on the margin hereof for purposes of identification, before me and made oath that the facts stated above of her own knowledge are true, and those made upon information derived from others, she believes to be true.

Given under my hand and seal this 22nd day of August, 1933.

Mrs. R. P. Dowd

Notary Public

My Commission Expires July 9/1934

VIRGINIA, IN THE CIRCUIT COURT OF ROCKINGHAM COUNTY.

THE STATE CORPORATION COMMISSION ON CONSERVATION
AND DEVELOPMENT OF THE STATE OF VIRGINIA

v.

CASSANDRA LAWSON ATKINS and others, and 53,561
acres, more or less, of land in Rockingham County,
Virginia.

Filed in the Clerk's Office
Rockingham County, Va.

NOV 9 1932

J. Robert Luntz Clerk

Statement made this 8th day of November, 1932, by Thomas L.
Yancey, Nettie I. Mauzy, Julia Estes, A. S. Yancey and Frank
W. Yancey, in response to an order entered in the above en-
titled cause on October 25, 1932.

Your respondents say that they are the owners, along with Emma V. Gib-
bons, Hunter M. Gibbons and Mary Gibbons Snapp, of the mineral rights in and to
that tract or parcel of land known as Tract No. 163, upon the plat made
and filed by the said Appraisal Commissioners and containing 124-1/2 acres of
land lying about one and a half miles east of Yancey, in Stonewall Magisterial
District, Rockingham County, adjoining the land of Crawford, Moubray, Charles
Catlett, Trustee, and others, which is described upon the plat submitted by said
Board of Appraisers as No. 163, and is more fully described in exceptions
filed by these exceptants to the report of said commissioners to which exceptions
reference is here made for greater certainty of description. *Also mineral
rights in said land worth at the least \$10,000.00 which
are not referred to in Appraisal Commission Report.*
And having fully answered, respondents pray that their exceptions to
the report of the said commission be sustained, and they will ever pray, etc.

Thomas L. Yancey
Nettie I. Mauzy
Julia Estes
A. S. Yancey
Frank W. Yancey

By Counsel

Wm. A. Luntz
Counsel

OCT / 1932

Robert L. Lunsford
Clerk

THE STATE COMMISSION ON CONSERVATION AND DEVELOPMENT IN THE STATE
OF VIRGINIA

VS.

CASSANDRA ATKINS AND OTHERS, AND FIFTY TWO THOUSAND FIVE HUNDRED AND
SIXTY ONE (52,561) ACRES OF LAND IN ROCKINGHAM COUNTY.

To the Honorable H. W. Bertram, Judge of the Circuit Court of
Rockingham County.

The Petition of Thomas L. Yancey, ~~Mrs.~~ Emma V. Gibbons, F. M.
Yancey, Nettie I. Mauzy, Julia Estes, A. S. Yancey, and Frank W.
Yancey respectfully represents:

That they along with the heirs at law of the late W. R. Yancey,
and in whose behalf the exception is also filed
who ~~was~~ a brother of your petitioners are the owners of mineral rights
in a tract of one hundred and twenty four and one-half acres of land
situate about one and one-half miles East of Yancey in Stonewall
Magisterial District of Rockingham County and within the area pro-
posed to be condemned for the establishment of the Shenandoah
National Park, Mrs. Emma V. Gibbons and her children owning in their
own right the land subject to this mineral right.

Your Petitioners except to the report of the Board of Appraisal
Commissioners of the Park upon the grounds that they have utterly
ignored all rights ~~in~~ Exceptants and the Gibbonses and Yancey heirs
in and to the mineral rights in said lands. These lands are under-
lain ~~and~~ with valuable deposits of Manganese ore as will be seen from
an inspection of Bulletin 660 J of the Department of Interior of the
United States to which special reference is here made. There has
been spent developing this land around Two Thousand Dollars and the
analysis of the iron ore is attached hereto which shows that the
Manganese runs about 69.18 per cent. At one time Exceptants refused
to take the sum of Eight Thousand Dollars for the mineral rights
upon the property. The ores upon the property have not been removed
and the mineral rights alone in the opinion of Exceptants are worth
at the lowest Twelve Thousand Dollars. This valuable property is now

being sought by the Park Commission and they propose to take it from the Exceptants without the allowances of anything whatever therefor *the mineral rights* -

The analysis of the Eastern Laboratory of Chester, Pennsylvania, dated October 17, 1917, is attached hereto as is the affidavit of Dr. S. M. Yancey as to the conditions of the property.

Your Exceptants and Petitioners pray leave to file this Petition or Exception to the report of the said Appraisal Board and ask the Court for a hearing, before a Jury ~~of~~ the Court, thereof to the end that justice may be done them in this matter and that they be reasonably compensated for the property which they propose to take.

All of which is respectfully submitted.

Thomas L Yancey

Emma V Gibbons

F. M. Yancey

Wm. S. Yancey

Julia Ester

A. S. Yancey

Frank W. Yancey

By Counsel

Frank W. Yancey
Frank W. Yancey
Counsel.

VIRGINIA,

CITY OF HARRISONBURG, To-wit:

I, Bessie M. Cooke, a Notary Public in and for the City of Harrisonburg in the State of Virginia, do certify that Frank W. Yancey, whose name is signed on the margin hereof for the purpose of identification, this day personally appeared before me and made oath that the facts stated in the foregoing Petition or Exception

Frank W. Yancey

are true.

Given under my hand this 1st day of October, 1932.

Bessie M. Cooke
Notary Public.

Robert
H. H. H.
A. C. C.

DEPARTMENT OF THE INTERIOR

FRANKLIN K. LANE, Secretary

UNITED STATES GEOLOGICAL SURVEY

GEORGE OTIS SMITH, Director

BULLETIN 660—J

POSSIBILITIES FOR MANGANESE ORE ON
CERTAIN UNDEVELOPED TRACTS IN
SHENANDOAH VALLEY, VIRGINIA

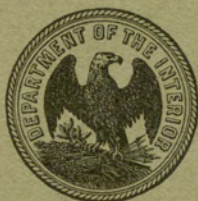
BY

D. F. HEWETT, G. W. STOSE, F. J. KATZ,
AND H. D. MISER

Prepared in cooperation with the Geological Survey of Virginia

Contributions to economic geology, 1917, Part I
(Pages 271-296)

Published January 21, 1918



WASHINGTON

GOVERNMENT PRINTING OFFICE

1918

Replum
Thy young
Trucks

**POSSIBILITIES FOR MANGANESE ORE ON CERTAIN
UNDEVELOPED TRACTS IN SHENANDOAH VALLEY,
VIRGINIA.**

By D. F. HEWETT, G. W. STOSE, F. J. KATZ, and H. D. MISER.

SCOPE OF INVESTIGATION AND REPORT.

Studies of ore deposits aim to interpret the associations of ores, in order that the systematic exploitation of known deposits or the search for unknown ones may be carried on intelligently. Such studies attempt to determine the source of the materials that make up the ore and associated minerals, the conditions that determine the favorable places for accumulation, the processes by which the accumulation has been accomplished, and the subsequent processes that have affected the deposit or brought it to view at the surface.

It is apparent that any attempt to determine areas that may contain ore deposits now unknown must be based upon a sound even if incomplete hypothesis concerning the origin and mode of occurrence of the ores, and such a hypothesis can be formulated only after many deposits of the particular ore sought have been thoroughly explored and studied.

Manganese minerals are widely distributed in Virginia, and a fairly complete explanation of the origin of the large deposits, which are sources of ore, will be possible only when many deposits have been examined in detail. Although much remains to be learned in future work, it is believed that sufficient is now known concerning some types of these deposits in Virginia to warrant the direction of effort toward exploration in areas where unknown deposits may be found.

This report aims to present briefly the results of field work in a part of Virginia where many manganese deposits are known. The examination was directed toward the discovery of areas likely to contain manganese, with the aid of data gathered in a study of the geologic relations of known deposits. The field work was done in cooperation with the Geological Survey of Virginia. As it has brought forth much information concerning the nature and structure of the rocks associated with the manganese ores, which may greatly aid the operators of producing mines, a more detailed report will be published later by the Virginia Survey.

DEPARTMENT OF THE INTERIOR

FRANKLIN K. LANE, Secretary

UNITED STATES GEOLOGICAL SURVEY

GEORGE OTIS SMITH, Director

Bulletin 660—J

**POSSIBILITIES FOR MANGANESE ORE ON
CERTAIN UNDEVELOPED TRACTS IN
SHENANDOAH VALLEY, VIRGINIA**

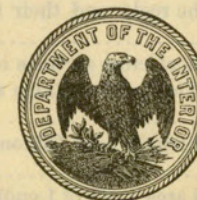
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1918

AREA EXAMINED AND METHODS EMPLOYED.

Northwestern Virginia has long been the source of much of the manganese ore mined in the United States, and at times it has been the scene of active prospecting in the hope that other extensive deposits like that at the Crimora mine might be discovered. The manganese deposits lie along the east side of the Shenandoah Valley, at the foot of the Blue Ridge. For the present investigation a narrow belt was selected extending from Front Royal at the north to a point about 10 miles southwest of Waynesboro at the south. (See fig. 26.) This strip is about 85 miles long and averages 4 miles

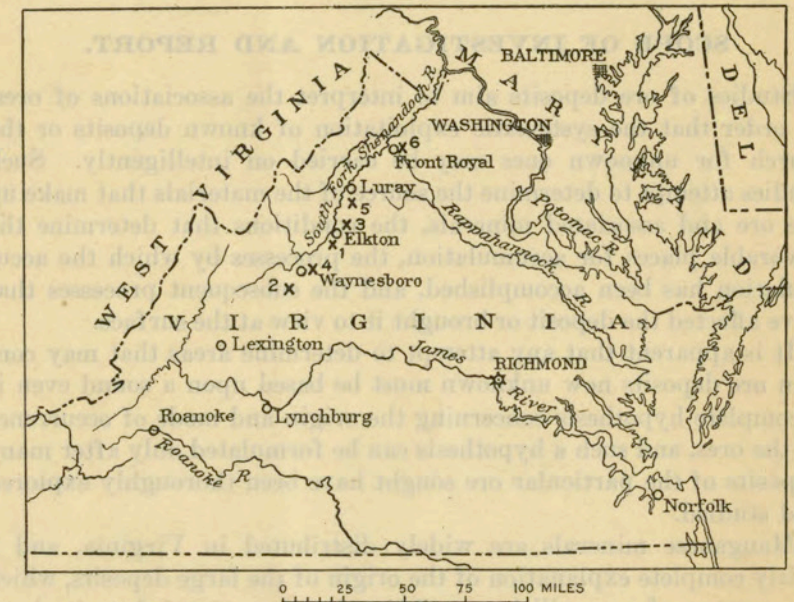


FIGURE 26.—Index map of northern Virginia, showing location of undeveloped tracts recommended as favorable for prospecting for manganese. Tracts are numbered in the order of prospective promise.

wide, and the Crimora mine occupies a central position in it. A preliminary geologic map of the area has been prepared, and this will be published in the report of the Geological Survey of Virginia.

The method of study was very similar to that which would have been employed in making a detailed areal map of the region. Traverses were run along the roads and up the streams that cross the belt nearly at right angles to the trend of the bedded rocks. By this means the attitude of the beds was determined and the boundaries of the rock formations were located. The adjacent mountains were climbed where more information was needed or where a general view was desired for the purpose of location. This was essential in many places on account of the inadequate exposures of the rocks in the

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places it forms the front ridges. The formation in this region is generally made up of three massive cliff-making ledges separated by thinner-bedded sandstones. The thickness in the measured section given below, the best-exposed section in this region, is 500 feet, but it appears elsewhere to be much greater, possibly 1,000 feet.

Section of Erwin quartzite in Blue Ridge near Stanley, Va.

	Feet.
White sandstone full of scolithus; crumbles readily to sand. Rarely exposed in place. Upper layers harder; weather red to rusty and porous-----	120
Upper cliff: Hard white thick-bedded vitreous quartzite. Contains some scolithus-----	40
Partly covered, probably crumbly white sandstone-----	90
Middle cliff: Hard thick massive beds of bluish-white vitreous quartzite-----	80
Covered, probably crumbly sandstone-----	70
Lower cliff: Hard white vitreous quartzite. Contains some scolithus-----	100
	500

The cliff-making ledges consist largely of massive beds of dense white quartzite, some of which are 15 to 20 feet thick without a visible trace of bedding. Many of the beds contain casts of worm tubes (scolithus), and as these were vertical when the sediments were deposited they may be used to determine the bedding of the rocks, which is at right angles to them. This formation is the same as the Erwin quartzite of northern Tennessee and has also been correlated with the Antietam sandstone of northern Virginia. It is believed, however, to represent not only the Antietam but also a lower quartzite, the Montalto quartzite of southern Pennsylvania, which is a member of the Harpers shale.

In the Shenandoah Valley the Erwin quartzite is overlain by a great thickness of limestone and shale, but only those beds immediately adjacent to the mountain front need here be considered. The formation that normally lies above the Erwin quartzite—the Shady dolomite—is composed largely of coarse dolomite containing chert nodules and beds of impure shaly limestone. Because of the solubility of the dolomite it readily breaks down into grains and finally weathers into red clay and is generally not visible at the surface. It therefore forms a deep-red granular and clayey soil containing chert fragments and underlies low valleys. Some yellow laminated clay or ocherous layers at the base represent banded argillaceous limestones. Unallotted dolomite has been exposed only in a few shafts and tunnels in the region. The formation is the same as the Shady limestone of northern Tennessee and is equivalent to the Tomstown limestone of southern Pennsylvania and Maryland. It is reported to be 1,800 feet

lowlands and the necessity of resketching the topographic base map where it was inaccurate. Where the rocks were found so broken by weathering or so covered by rock waste that the bedding could not be determined, the structure was inferred by the study of surface forms and the distribution of distinctive debris derived from the several formations.

In addition to the traverses for the purpose of making the map and determining the structure of the rocks, manganese and iron mines, prospect pits, and holes of any sort where information as to the relation of the ore to the bedrock might be observed were examined. At only a few places was the unaltered limestone in the mine pits visible, but the relation of the ore to the residual clay and to the wash was carefully scrutinized. The clay in most of the deeper mines and in some of the shallow pits was found to preserve the original bedding of the impure dolomite and limestone, so that the structural relations of the ore to these rocks could be determined.

THE MANGANESE DEPOSITS.

GENERAL FEATURES.

The known manganese deposits of this part of Virginia are masses of oxides that are associated with rocks of several different types and have diverse structural relations. Some bodies of the oxides are rather large and so pure that they may be mined and shipped without preliminary treatment. Other masses are composed of nodules disseminated through clay in proportions that have a wide range. The material from such deposits must be washed to procure ore of high enough grade to warrant shipping.

A complete discussion of the origin of the deposits should include geologic data of several kinds, such as the distribution of manganese-bearing rocks and minerals, the chemical properties of manganese compounds and natural minerals, the character of the ground water of the region, the characteristics and stratigraphic relations of the rocks with which the ores are associated, the local structure of the rocks, and the surface features resulting from the erosional processes that have affected the region. Brief statements concerning data of the last three kinds only are presented in this report, as they are used in outlining favorable areas for the accumulation of the ores.

ROCKS WITH WHICH THE ORE IS ASSOCIATED.

The rocks which occur in the vicinity of the manganese deposits of the Blue Ridge and adjacent part of the Shenandoah Valley include sandstone, shale, limestone, and dolomite and the older crystalline rocks on which these rest. The oldest crystalline rock present in the area is granite. The other crystalline rocks are greenstone, greenstone schist, and sericite schist, which were originally molten

lavas. The massive greenstone is very resistant to weathering—that is, it is not readily soluble in water nor easily broken up by frost and rain—and therefore it forms the highest summits of the Blue Ridge throughout this area.

Immediately overlying the crystalline rocks are sandstones and quartzites, composed in part of unassorted debris derived from the disintegration of the older crystalline rocks. These beds range from soft arkose through harder arkosic sandstone to hard gray sandstone and dark ferruginous quartzite. With them are associated beds of slaty argillaceous sandstones. Some of the basal beds have rounded grains and small pebbles of quartz, which are usually clear and transparent, though some have an opaline blue color. Besides quartz there are grains of feldspar, generally chalky white from weathering, and considerable clay and iron oxide. A spotted sericite schist, representing a thin amygdaloidal lava flow, occurs at several places interbedded with the lowest sedimentary beds. These rocks have been called the Unicoi formation in northern Tennessee, and that name will be used in this report. They are equivalent to the Weverton sandstone and Loudoun formation of Maryland and northern Virginia. Their thickness in this area is estimated to be 1,750 to 2,000 feet. The formation is best exposed in the cuts of the Southern Railway 4 miles east of Front Royal but is also well shown on the Simmons Gap road south of Elkton and elsewhere in the belt between the main Blue Ridge and the front foothills.

Overlying the Unicoi formation are dark-gray shales, slates, and thin sandstones which in northern Tennessee constitute the Hampton shale. The shales and slates are mostly sandy and weather to hackly outcrops, so that in many places their original character and bedding can not be clearly discerned. Some of the shale is dark and banded but weathers to soft buff rock. The formation is the same as the lower part of the Harpers shale of northern Virginia. It is estimated to be about 400 feet thick in this area but may be much thicker, as it is in general highly folded. Typical rocks of the Hampton and Unicoi formations are easily distinguished, but the two formations were not separately mapped everywhere in the field, because there are shaly rocks in the Unicoi and hard sandstones and arkoses in the Hampton. All these rocks weather more easily than either the underlying greenstone or the overlying massive white quartzite, so that they form depressions or subordinate ridges between the main Blue Ridge on the east and the outer foothill ridges on the west.

The next higher formation is a massive white quartzite, the outcrops of which make prominent ridges in this region. It is here called the Erwin quartzite. The western foothills of the Blue Ridge throughout most of the area are composed of this rock, and in many

thick in the vicinity of Natural Bridge, and it has probably about the same thickness here.

The next recognized formation of the limestone group is a shale called Watauga in northern Tennessee. Its characteristic color is reddish purple, but in this area it is generally so much weathered that it is buff colored. In places it is weathered to purple and buff banded ocherous clay, as at the ocher mine 10 miles southwest of Luray. It contains thin calcareous shales and blue limestone beds and in places thinly laminated ripple-marked sandstone, which is best displayed east of Front Royal. It is the equivalent of the Waynesboro shale of southern Pennsylvania and Maryland, which is conspicuously purple and sandy. The thickness in this area could not be determined, because of poor exposures. The formation is reported to be 900 feet thick in the vicinity of Natural Bridge, where it is better exposed, but it does not appear to be so thick in this area. Above the Watauga

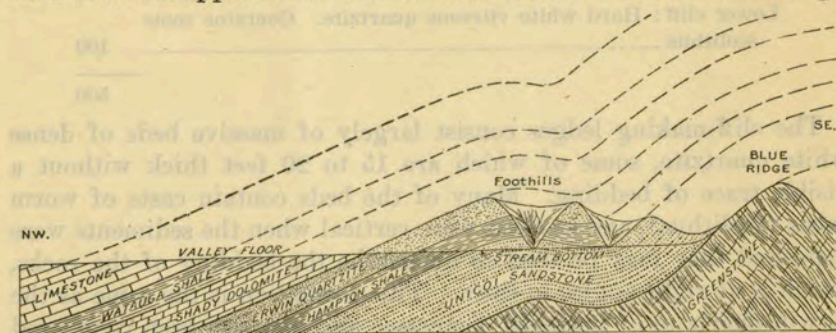


FIGURE 27.—Generalized structure section of the west front of the Blue Ridge and the adjacent part of the Shenandoah Valley, showing the normal relations of the rocks and their former extent (dashed lines) before removal by erosion.

shale are limestones and dolomites that have not been differentiated in this area, and as they need not be considered in the present connection, they will not be described.

All the sedimentary rocks above described are geologically very old. No fossils, except the worm tubes in the Erwin quartzite, were found in them in this area, but casts of shells and other fossils have been found in the equivalent formations elsewhere, and they are therefore known to belong in the Cambrian and to be among the oldest fossiliferous rocks known in the eastern part of the continent.

The sediments were nearly horizontal when they were laid down in the sea. The beds are now in most places steeply inclined and folded into long troughs (synclines) and arches (anticlines) whose axes are parallel to the northeasterly trend of the mountain ridges. (See fig. 27.) After being folded and wrinkled the rocks were worn down by processes of atmospheric erosion, and the softer and more soluble rocks were removed from the higher regions. The underlying quartzites, shales, and greenstones were thus exposed and, because of

was made by one of the present writers in May, 1917, and a report is now in preparation. Near Elkton¹ manganese ore was mined from a U-shaped trough in the Watauga shale, but no other deposits with such associations are known.

At the Crimora mine over 300,000 tons of manganese ore has been recovered from a deposit about 20 acres in extent that lies in a trough formed by the Erwin quartzite. The trough trends N. 40° E. and is therefore slightly inclined to the ridges adjacent to the Blue Ridge, which limit it, and it plunges southwest under the low plain that here forms a part of the Shenandoah Valley. The trough is bounded on the northwest by an anticline, which also plunges southwest into the valley. Much ore has been recovered at depths ranging from 100 to 200 feet below the surface, but the limits of ore toward the southwest end of the deepening trough are not known. Explorations of the deposit at the Crimora mine, which has yielded more manganese than any other in the region east of the Allegheny Mountains, and of other deposits that have similar relations confirm the tentative conclusion that troughs in which the beds have low dips are the most favorable sites for the accumulation of ore.

Other deposits of manganiferous iron and manganese ore which occupy troughs in the Erwin quartzite occur at the Mount Torry mine, near Sherando, and the Red Mountain mine, 5 miles east of Pekin siding, on the Norfolk & Western Railway, Augusta County.

3. In the deposits of the third type manganese oxides replace porous sandstone along crushed zones in the Erwin quartzite. One deposit of this type has been prospected in the southeastern part of the Mount Torry tract, south of Sherando, and another on Dry Run, 9 miles northeast of Luray, is being actively mined by the Compton Manganese Co. Such crushed zones appear to be irregular in distribution. They yield siliceous ore and, as they occur in hard rocks, are expensive to exploit.

4. A fourth type of deposit is represented by that explored near Dargan, Washington County, Md.² (fig. 28, D). This deposit occurs along a fault zone in clay derived in part from the decomposition of limestone (Tomstown) on one side and shale (Harpers) on the other. Such deposits appear to be uncommon, and no others are known in the belt from Potomac River to Vesuvius, Va. They appear to yield small quantities of ore.

5. The fifth type of deposit in this region of which the structural relations are known is represented by that at Midvale, explored by the Rockbridge Manganese & Iron Co.³ (See fig. 28, C.) Another of

¹ Hewett, D. F., Some manganese mines in Virginia and Maryland: U. S. Geol. Survey Bull. 640, pp. 42, 61-67, 1916.

² Idem, pp. 42, 69-71.

³ Idem, pp. 42, 54-60.

their resistance to erosion, now form the mountains, whereas the limestone underlies the valleys. A generalized cross section showing the rocks of the region as they are now and their extent before they were eroded is given in figure 27.

The manganese deposits are not confined to a single thin group of beds but lie in or over beds that range from the upper part of the Erwin quartzite to the lower part of the Watauga shale, stratigraphically 2,000 feet higher. Most of the deposits, however, occur in banded clays that are believed to have been derived by weathering in place from the lower 200 feet of the Shady dolomite.

RELATION OF DEPOSITS TO STRUCTURAL FEATURES.

Manganese oxides are widespread in the Shenandoah Valley, but as most of the rocks near by are deeply decayed, the structural associations of many small bodies of the oxides are obscure. Studies of a number of deposits that were large enough to warrant extensive exploration, however, show that at least five structural types may be recognized and that in most places the local structure of the adjacent rocks has determined the form of the deposits and in large measure their areal extent and their persistence below the surface.

The five types of deposits will be briefly described. Figure 28 shows cross sections of four deposits which have been studied recently and which probably include those types that are sources of most of the ore now mined in northwestern Virginia.

1. The commonest type of deposit in the belt under consideration is that represented at the old Kendall & Flick shaft, south of Elkton, but also shown at the Vesuvius mine, 1½ miles northeast of Vesuvius, Rockbridge County, and elsewhere in the region (fig. 28, B). These deposits occur in a 200-foot zone of decomposed shale and cherty dolomite that overlies the upper beds of the Erwin quartzite, where the beds dip toward the Shenandoah Valley at angles that range from 30° to 60°. The structure near these deposits may be termed monoclinal, as all the beds are similarly inclined. In such localities the upper surface of the Erwin quartzite forms the slope of a conspicuous straight ridge, and float ore from the deposits is found over the gentle slopes near by on the northwest. Under these structural conditions irregular bodies of manganese oxides are found here and there in a narrow belt of decomposed shale and dolomite parallel to the outcrop of the Erwin quartzite. The bodies of manganese oxides appear to have no relation to the transverse ravines that rise in the Blue Ridge and cross the quartzite. So far as available records show, no deposits of manganese ore or manganiferous iron ore occurring under these conditions in this area have yielded more than 25,000 tons, and many have been abandoned before producing as much as 5,000 tons.

2. Deposits of another type occur in clays that fill troughs formed by the upper surface of the Erwin quartzite. The best illustration

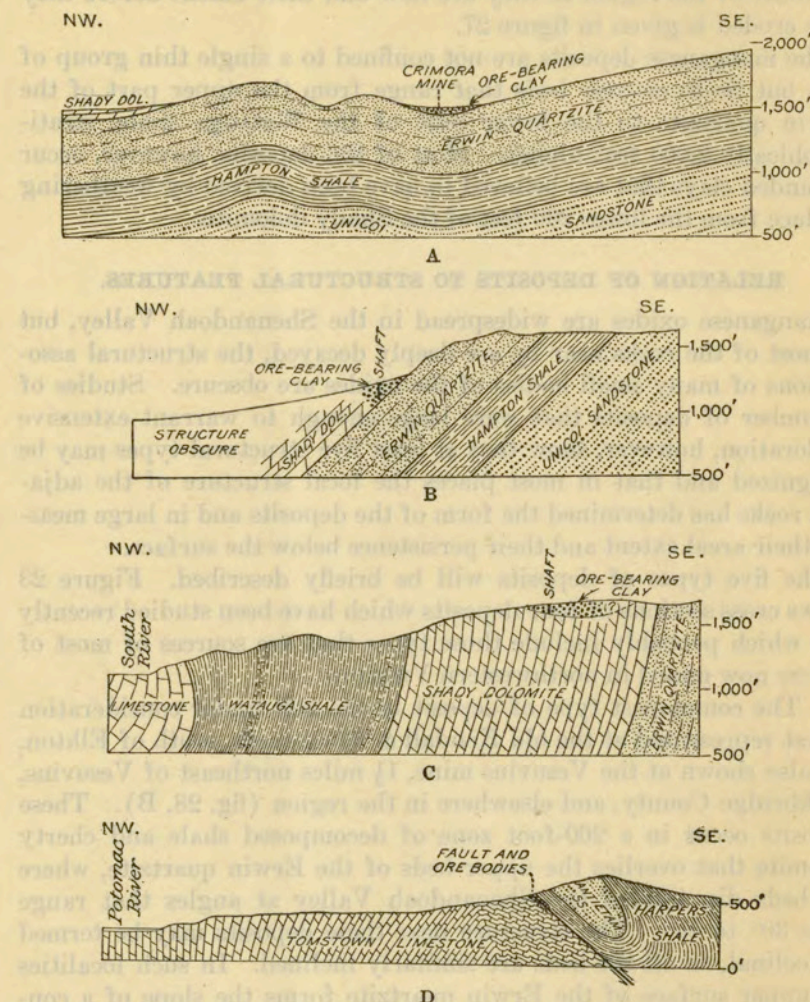


FIGURE 28.—Sketches showing vertical cross sections of four manganese mines in the Shenandoah Valley-Blue Ridge region, representing four types of deposits. A, Cross section S. 48° E. through the Crimora manganese mine, Augusta County, Va., in which the ore lies in a trough in the Erwin quartzite; B, cross section S. 52° E. through the old Kendall & Flick mine, south of Elkton, Va., in which the ore occurs as pockets in clay immediately above the top of the Erwin quartzite, which has a monoclinical structure; C, cross section S. 65° E. through the Midvale mine, Rockbridge County, Va., in which the ore occurs in gravel in a stream channel cut on nearly vertical limestone; D, cross section S. 65° E. through the mine at Dargan, Md., near Harpers Ferry, W. Va., in which the ore occurs in clay along a fault zone.

of this type is the deposit worked at the Crimora mine, Augusta County.¹ (See fig. 28, A.) A detailed study of the Crimora mine

¹ Hall, C. E., Geological notes on the manganese deposits of Crimora, Va.: Am. Inst. Min. Eng. Trans., vol. 20, p. 46, 1892.

this type is now being explored on the Kennedy property, 3 miles southwest of Sherando, Augusta County. In these deposits manganese oxides replace the clay zones of sediments that fill an ancient river channel (Midvale) or that form an ancient alluvial fan or gravel terrace (Kennedy). It is a coincidence that the Kennedy deposit is near the outlet of an ancient stream that rose in the high ridges several miles to the south and flowed in a trough directed toward the deposit. Such deposits are flat masses that conform to the depressions in which the sediments were laid down. Exploration by drilling at the Kennedy mine is reported to show the presence of a large quantity of ore, and it is possible that here, as with deposits in troughs, the size may depend upon favorable local structural features.

The field work on which this report is based was directed especially toward the interpretation of the structure of the beds making up the Erwin quartzite, Shady dolomite, and Watauga shale. The tracts in the belt examined that are considered favorable to the accumulation of manganese or manganiferous iron ore are those which are underlain by troughs of the upper beds of the Erwin quartzite, from the surface of which the products of decay of the overlying Shady dolomite have not been removed. The six tracts that are described in the following pages fulfill these conditions, but the troughs are considered favorable in proportion to the size of the area that has drained into them, or to the abundance of float ore present and the thoroughness of the decay of the rocks over the Erwin quartzite.

A number of faults have been recognized in this belt, but as the factors which determine the parts of the fault zones that are favorable to accumulation of ore are not known, and as the only deposit known to lie along a fault is not large, it would not be wise to direct exploration along such faults.

RELATION OF DEPOSITS TO SURFACE FEATURES.

In a recent report¹ it has been suggested that several manganese deposits in the region between Potomac River and Midvale, Rockbridge County, Va., occur under conditions that make it appear that they were formed during or soon after the period in which the valley-floor peneplain was being established. This peneplain has been considered to be of early Tertiary age and for brevity it will here be referred to as the early Tertiary peneplain. It was also noted that several deposits crop out at the level of this plain, without regard to the extent to which the plain was locally dissected. The present investigation has shown that the outcrops of a number of additional

¹ Hewett, D. F., op. cit., pp. 37-71.

covering such deposits is recommended. Formerly such deposits were prospected by means of pits and trenches, but recently improvements in methods of employing the churn drill make it most useful for this purpose, and several operators use it extensively. Even if deposits should exist under these tracts, they may be covered by gravel or wash from the neighboring slopes, as at the Crimora mine, and exploration by drilling is peculiarly adapted to such conditions.

These tracts are regarded as favorable for exploration largely because they have the same structural and stratigraphic features as other areas within which large deposits of manganese and maniferous iron ores are known and bear a similar relation to the surface. They are described in the order of greatest promise, the one in which the conditions are believed to be most favorable first. Fragments of manganese minerals have been found on the surface of many tracts, but as such fragments are widespread in this region they are not especially significant. Positive assurance that these tracts contain workable deposits of ore can not be given, but to those interested in searching for unknown deposits of these ores the tracts should offer an attractive field.

TRACT 1.

Tract 1 lies 2 miles southwest of Elkton, within a mile of the Norfolk & Western Railway. (See fig. 29.) The west front of the mountains in the vicinity of Elkton has many sharp offsets in its general southwest course. From Swift Run this course is a little south of west for $1\frac{1}{2}$ miles to a point where the mountain front is slightly offset to the northwest. From that point the front runs west-southwest across Hawksbill Creek for $1\frac{1}{4}$ miles to a sharp offset to the east of about half a mile. The southwestward course then continues for three-fourths of a mile but is interrupted by a second sharp offset to the east of about a quarter of a mile. At Gap Run, three-quarters of a mile beyond, the mountain front is slightly offset in the opposite direction, to the west, but the southwest trend is maintained. At Swift Run the mountain front is offset to the southeast, and beyond Elk Run the front ridge breaks down to low knolls for over a mile.

Along the west flank of the mountains, immediately west of the line just traced, there are gravel-covered terraces that slope toward Shenandoah River and are deeply trenched by cross streams. No rock exposures occur in the gravel-covered belt, but several mine shafts and test pits show that it is underlain by lower members of the Shenandoah group of limestones. (Shady dolomite and Watauga shale). The gravel-covered area is 1 to $1\frac{1}{4}$ miles wide, except for a

deposits lie close to the position of this peneplain, but also that the lowest point of one deposit—that at Red Mountain, northeast of Vesuvius—occurs 400 to 500 feet above the level of this plain, and that the surface near the Lyndhurst mine is not 50 feet below the early Tertiary plain, as stated in a previous report by the senior author,¹ but nearly 250 feet below it. Therefore, while the conditions during or soon after the early Tertiary peneplanation appear to have been particularly favorable to the accumulation of certain deposits of manganese and possibly of iron ores, others were probably formed at an earlier and some at a later period.

Evidence collected during this investigation shows that although four periods of planation may be recognized,² the recent physiographic history has probably been even more complex.

Although field work has shown that the Midvale and Kennedy deposits are in alluvial material laid down near the level of the early Tertiary plain and the region contains many remnants of gravel on this plain, there is no way of recognizing, in advance of exploration, the places where these gravels may contain deposits of manganese ore.

According to the hypothesis previously stated, that troughs present the most favorable structure for the accumulation of manganese ores, those troughs which pitch at a low angle under the early Tertiary plain would be the most favorable, and the parts of the troughs most likely to receive the deposits should be those where the top of the Erwin quartzite is not more than 300 feet below the present surface of the ground.

ORIGIN OF THE DEPOSITS.

A hypothesis of the origin of the manganese deposits of the region is here presented briefly, in so far as it bears on the conditions that are most favorable for the accumulation of manganese oxides. The purpose of this report does not permit the presentation of evidence bearing upon some phases of the hypothesis.

Definite evidence concerning the source of the manganese that now makes up the workable deposits is lacking; but, from the data at hand, it appears that the manganese was originally widely disseminated as carbonate in the dolomite and limestone and possibly in silicates in other rocks found in the neighborhood of the deposits. The manganese was dissolved as bicarbonate and transported along established channels of circulation to the places where the oxides are now found, in clays produced by the previous decay of sericitic shales, limestone, and dolomite. The oxides were probably deposited when and where the solutions containing manganese bicarbonate

¹ Hewett, D. F., op. cit., p. 61.

² Watson, T. L., Drainage changes in the Shenandoah Valley region of Virginia: Virginia Univ. Philos. Soc. Bull., Sci. ser., vol. 1, p. 355, 1913.

met oxygen-bearing waters. Manganese oxide appears to have been deposited largely by replacing the clay, although small quantities were deposited in open spaces. The largest deposits of manganese were formed in places where the maximum amount of manganese in solution met the most favorable conditions for deposition. Most complete rock decay and, therefore, solution of the maximum proportion of manganese in the rocks are probably attained in regions of low relief having a thick cover of vegetation, under the influence of a warm, moist climate. As the process of solution would be most active in those parts of the region above the average level of streams and above ground-water level, more manganese should be delivered in solution to the belt of country where the ridges and hills meet the plains than elsewhere.

If not diverted by the local rock structure the maximum flow of solutions near the surface would have occurred near or directly under surface stream channels. Where oxidation was possible deposits formed in the stream channels themselves. As deeper circulation of surface waters was controlled by rock structure, troughs would have received the maximum circulation, although fault zones might have been locally favored. According to this hypothesis structural troughs were the most favorable channels for circulation, and if suitable conditions for oxidation and deposition existed they should be the most favorable places for accumulation.

Many reports have been published which describe briefly the associations of manganese ore in certain mines in Virginia, but most of the available information concerning the stratigraphic and structural relations of the deposits in Virginia is contained in reports that are based on comprehensive studies of many deposits in a large area.¹ The relation of the hypotheses of origin of the manganese deposits set forth in these reports will be discussed in a later report.

TRACTS RECOMMENDED FOR EXPLORATION.

BASIS OF RECOMMENDATIONS.

Descriptions of six undeveloped tracts along the west front of the Blue Ridge are presented below. These tracts appear to present features favorable for the accumulation of deposits of manganese and manganiferous iron ores, and prospecting with the view to dis-

¹ Penrose, R. A. F., Manganese, its uses, ores, and deposits: Arkansas Geol. Survey Ann. Rept. for 1890, vol. 1, pp. 401-412, 1891.

Hall, C. E., Geological notes on the manganese ore deposits of Crimora, Va.: Am. Inst. Min. Eng. Trans., vol. 20, pp. 46-49, 1892.

Watson, T. L., Mineral resources of Virginia, Virginia Geol. Survey, 1907.

Harder, E. C., Manganese deposits of the United States: U. S. Geol. Survey Bull. 427, 1910.

Hewett, D. F., Some manganese deposits in Virginia and Maryland: U. S. Geol. Survey Bull. 640, pp. 37-71, 1916.

short stretch at the mouth of Hawksbill Creek, where it is reduced in width to about a quarter of a mile by the eastward bend of Shenandoah River. West of the gravel terraces at the mouth of Hawksbill Creek, especially along Shenandoah River, there are exposures of the Watauga shale and overlying beds of limestone.

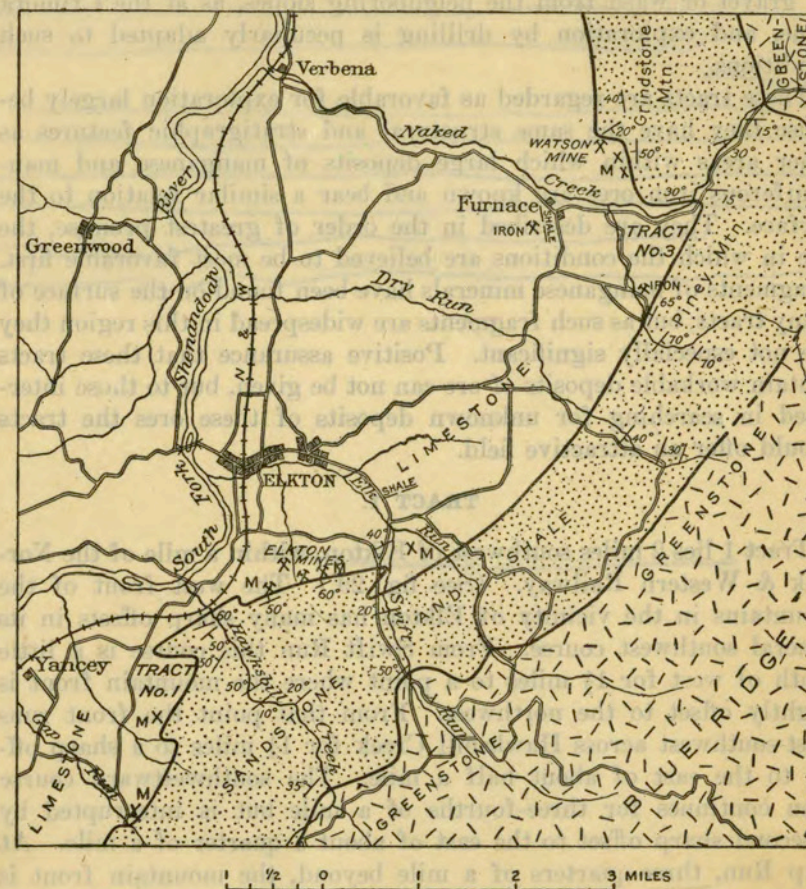


FIGURE 29.—Sketch geologic map of region near Elkton, Va., showing location of tracts 1 and 3.

The western foothills of the Blue Ridge are made up of white quartzite (Erwin), whose structure determined the irregular course of the mountain front. Thus from Swift Run westward for 1½ miles, where the mountain front is straight and trends west-south-west, the quartzite beds strike about parallel to the mountain front and dip 50°-60° NW., passing under the limestone of the valley. The small offset in the mountain front at Hawksbill Creek and the larger one east of Yancey are produced by a detached anticlinal ridge of quartzite which is separated from the main quartzite ridge by a

present, as the manganiferous nodules in the Yancey prospect pits occur in red pebbly clay, although chert fragments, such as are characteristic of the Shady dolomite were not seen in it. This area, though not as promising as the embayment east of Yancey, still has sufficiently favorable indications to suggest that further prospecting should be done in it.

TRACT 2.

Tract 2 lies between two spurs of the Blue Ridge about 3 miles southwest of Sherando and 6 miles south-southwest of Lyndhurst, in Augusta County. (See fig. 30.) It is about midway between the Kennedy mine, to the northwest, and the Mount Torry mine, to the southeast, and is drained by Mills Creek. A lumber railroad over which ore from these two mines is shipped passes just north of the tract and joins the Norfolk & Western Railway near Lipscomb. A spur of the lumber road formerly ran southwestward up Mills Creek, but the rails and ties have been removed.

The mountain spurs on both sides of the tract are composed of white quartzite (Erwin), and the structure of each is anticlinal. Both anticlines plunge northeastward, so that in this direction the quartzite descends below the limestones and shales of the Shenandoah Valley. (See fig. 30.) The area between the spurs is a northeastward-plunging synclinal trough and therefore is probably underlain by limestone and possibly some shale, but no outcrops are to be seen, as the surface is covered with quartzite

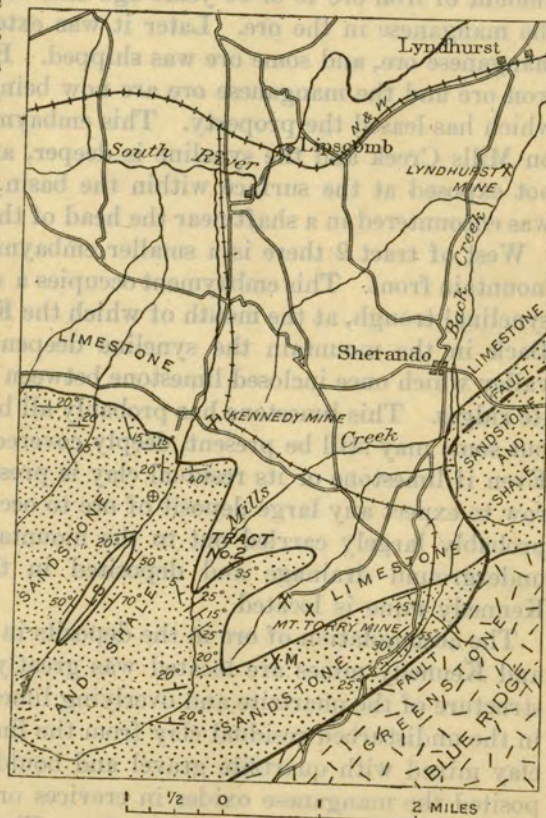


FIGURE 30.—Sketch geologic map of area south of Lyndhurst, Va., showing location of tract 2.

shallow synclinal valley. Both the anticline and the syncline plunge sharply northeast just east of Hawksbill Creek, and the quartzite abruptly passes under the limestone of the valley. Southwest of Hawksbill Creek the folds plunge more gently southwestward, and the quartzite again passes below the level of the gravel-covered plain in that direction. The syncline widens in this direction, as the main ridge of the mountain here strikes more southerly and diverges from the outlying ridge, and the limestone embayment is therefore large and open. The offset in the mountain front three-quarters of a mile farther south is apparently produced by two similar though smaller folds, which plunge south, and the northwest offset at Gap Run is formed by two other flat, gentle folds, which plunge north. The offset east of Swift Run is apparently produced by a northeastward-plunging anticline and syncline, for, although the bedding in the sandstone was not observed, the rocks seen along the road crossing the syncline are believed to be the basal sandy beds of the limestone group. Beyond this offset the mountain front is straight, although the front ridge breaks down beyond Elk Run, where the quartzite is weakened by crushing and probable minor faulting.

Although the white quartzite beds have a general steep westerly dip on the front foothills they flatten out toward the east and cap the tops of several spurs and ridges some distance back from the front, where they are nearly horizontal or even lie in gentle synclines. To the east of and therefore beneath the white quartzite there are shales and arkosic sandstones which are somewhat folded and form a belt half a mile to 1½ miles wide. These basal Cambrian beds rest upon pre-Cambrian greenstone and greenstone schists which generally form the main mass of the Blue Ridge.

There is a group of manganese mines about 1 mile south of Elkton, which will be referred to as the Elkton mines. The old workings are known as the Kendall & Flick mines and include the Niesswaner shaft and Bartell shaft, which have been described by Harder¹ and Hewett.² One of the mines is now being worked by the United States Manganese Co. These mines are on a terrace at the base of the quartzite ridge between Swift Run and Hawksbill Creek. Three of the mines, including the easternmost, which alone is active at present, lie close to the top of the northwestward-dipping quartzite, and apparently there is no synclinal structure of the bedrock that determined the concentration of these deposits of ore. As the outer mine, which is about 1,200 feet from the base of the mountain, struck the purple Watauga shale in its deep shaft, the steep

¹ Harder, E. C., Manganese deposits of the United States: U. S. Geol. Survey Bull. 427, 1910, p. 57.

² Hewett, D. F., Some manganese mines in Virginia and Maryland: U. S. Geol. Survey Bull. 640, pp. 61-67, 1916.

westward dip of the beds probably continues out that far, and the small syncline at Hawksbill Creek must therefore plunge steeply northeastward. Just east of Swift Run there is a manganiferous iron prospect which is in strike with the three Elkton mines, but the embayment to the south, between the prospect and the quartzite ridge, which is covered with mountain wash, has not been prospected so far as known and may be worthy of investigation, as the structure of the inclosing rocks is apparently synclinal and favorable for the accumulation of ore.

Southeast of Yancey a manganese prospect north of the small run has been opened by J. H. Crawford and another south of the run by W. B. Yancey. These two prospects have direct bearing on the tract to which particular attention is here directed. The Crawford prospect shaft, which is 75 feet deep, is on the south side of the embayment in the mountain front $1\frac{1}{2}$ miles east of Yancey station on the Norfolk & Western Railway. This embayment is a triangular area about half a mile long and covers about 180 acres. It lies in the reentrant angle between the white quartzite ridges locally called Little Piney Mountain (on the northwest) and Big Piney Mountain (on the southeast). In the saddle between these hills the upper quartzite beds of the Erwin formation lie horizontal in the bottom of the syncline. The quartzite hills diverge toward the southwest, and the syncline plunges in the same direction, so that the trough between the hills incloses the overlying Shady dolomite. At the Crawford shaft, half a mile south of the head of the trough, manganese nodules occur in red clay with chert fragments, which is the characteristic residuum of the Shady dolomite. The entire embayment, therefore, is probably underlain by the Shady dolomite, but it is completely covered by wash from the quartzite mountains. The only means of determining the thickness of the wash and the presence of manganese ore beneath the alluvial covering is by drilling or by digging test pits. The synclinal structure of the quartzite in the surrounding mountains, the favorably located basin filled with wash and underlain by gently dipping beds of the Shady dolomite or its residual clay, and the known presence of manganese ore in the trough justify the recommendation that this triangular area be thoroughly prospected for manganese.

The conditions in the embayment in the mountain just south of this tract are not so well determined. The structure of the quartzite hills around the offset at the north end of the embayment is obscure and is inferred chiefly from the topography, but at the offset at the south end, just north of Gap Run, the quartzite lies in a very shallow, broad syncline. The alluvial filling in this embayment appears to be heavy, but the Shady dolomite or its residual red clay is probably

wash from the mountains. The anticlinal spurs on both sides of the plunging synclinal trough diverge to the northeast, so that the limestone belt widens in this direction, forming a wedge-shaped area which is about 1 mile long in a northeasterly direction and about three-quarters of a mile wide between the points of the spurs. This wedge-shaped area merges on its northeast side with the great limestone and shale belt of the Shenandoah Valley.

This synclinal embayment closely resembles the adjacent embayment on the southeast, in which the Mount Torry mine is situated and which also is a synclinal trough. This mine produced a large amount of iron ore 40 or 50 years ago and was abandoned because of the manganese in the ore. Later it was extensively prospected for manganese ore, and some ore was shipped. Both the manganiferous iron ore and the manganese ore are now being mined by a company which has leased the property. This embayment is larger than that on Mills Creek and the syncline is deeper, and although bedrock is not exposed at the surface within the basin, fresh Shady dolomite was encountered in a shaft near the head of the valley.

West of tract 2 there is a smaller embayment of limestone in the mountain front. This embayment occupies a northeastward-plunging synclinal trough, at the mouth of which the Kennedy mine is located. Back in the mountain the syncline deepens and forms a narrow valley which once inclosed limestone between two high, rocky quartzite ridges. This limestone has probably all been removed by erosion, but some may still be present, deeply covered by the quartzite wash. Even if limestone or its residual clay is present, the area is too narrow to expect any large deposit of ore to occur in it, for the ore was probably largely carried out to the mountain front by the former underground drainage and deposited in the clays in which the Kennedy mine is located.

The accumulation of ore in the deposits in which the Mount Torry and Kennedy mines are located was greatly aided by the synclinal structure of the quartzite and overlying limestone. The ore is found in the undisturbed residual clay from the limestone and in overlying clay mixed with quartzite gravel and boulders, where solutions deposited the manganese oxides in crevices or bedding planes, and in nodules and masses replacing the clay. The structural conditions in tract 2 appear to be equally favorable for the accumulation of manganese ore in commercial quantity, and although no manganese ore has been reported there, possibly because of the deep filling of the basin with wash, the favorable structural relations warrant search for the ore. It is therefore recommended that the tract be thoroughly prospected by drilling.

Shenandoah Valley is underlain by Cambrian limestones, dolomites, and shales of the lower part of the Shenandoah group, but these beds are not exposed near the foot of the mountains because of the thick covering of mountain wash consisting of gravel, sand, and clay.

West of Sawmill Ridge there is a low, narrow hill whose anticlinal character is well shown on the road up Sawmill Run, where the anticline plunges south. The narrow valley between this hill and Sawmill Ridge is therefore synclinal and probably contains some Shady dolomite overlying the quartzite. Manganese ore was mined on the Watts property in this syncline many years ago. From the west side of Ramsey Mountain a low ridge that extends 1 mile to the west is made up of several narrow north-south hills with shallow saddles between them. Although no outcrops from which the dip of the rocks could be determined were seen on these hills, they are covered

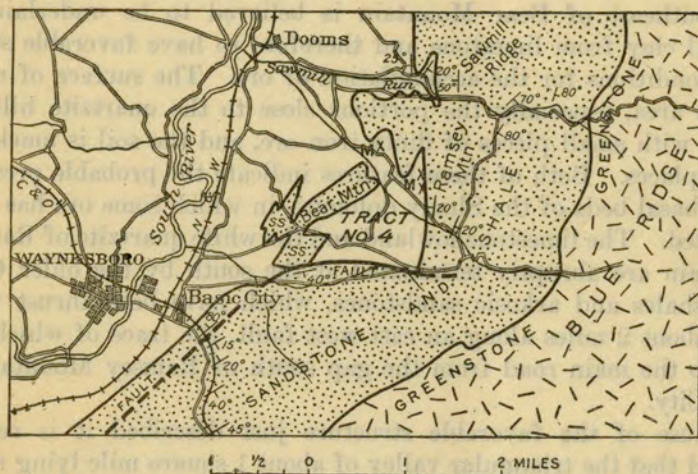


FIGURE 31.—Sketch geologic map of region near Waynesboro, Va., showing location of tract 4.

with angular quartzite fragments nearly in place, and the hills are believed to be small anticlines which plunge steeply to the north, toward Sawmill Run, and less steeply to the south. Between the south ends of these hills are small embayments which are structurally synclinal troughs, and two of them are sufficiently large to inclose the overlying Shady dolomite or its residual clay. In fact, fragments of chert derived from the Shady dolomite were found in the alluvial fill of the valleys. The quartzite in the low hills is seemingly that of the upper beds of the Erwin formation.

West of Ramsey Mountain, across an alluvium-filled valley three-fourths to 1 mile wide, is a group of low hills, including a higher one called Bear Mountain. These are quartzite hills which are covered with angular fragments of quartzite and cemented quartzite

TRACT 3.

Tract 3 lies between Grindstone and Piney mountains, two foothills of the Blue Ridge about 5 miles northeast of Elkton. (See fig. 29, p. 284.) It is chiefly in Rockingham County, but partly in Page County. Naked Creek, which flows near the north edge of the tract, forms the boundary line between the two counties. So far as known, no prospecting for manganese has been done within the area, but the Watson mine is about 1 mile to the north-northwest, and a number of manganese prospects are scattered along the west base of Grindstone Mountain, between it and this tract.

White quartzite (Erwin) is exposed on the crest and most of the west slope of Grindstone Mountain. In general its strike is parallel with the mountain, which trends N. 10°–20° W., and it dips 40°–50° W., passing beneath the limestone and shales that are exposed in the Shenandoah Valley. A small embayment near the south end of Grindstone Mountain is formed by a steeply plunging syncline. No limestone is exposed at the surface in this syncline, but residual clay from the limestone was observed at the Watson mine and in the prospects near by, all of which are in the syncline. This residual clay retains the original bedding of the limestone and incloses decomposed chert that is characteristic of the Shady dolomite. The clay is overlain by and at the top is partly mixed with quartzite boulders, which are especially numerous on the flat wooded spurs that extend southward from the base of the mountain.

Grindstone Mountain ends abruptly at Naked Creek, where the mountain front is offset about a mile to the east and thence continues south in Piney Mountain. The crest and most of the west slope of Piney Mountain are formed of the same white quartzite, which strikes S. 25° W. and dips at a high angle toward the Shenandoah Valley. This offset is caused by an anticline and associated syncline, which are similar to but larger than those at the Watson mine, a mile to the north. The folds are so broad and open and plunge so steeply to the southwest that the strike of the Erwin quartzite here makes two nearly right-angle bends. (See fig. 29.) In the syncline a limestone, which is probably the Shady dolomite, is inclosed above the white quartzite. The limestone is not exposed near the mountain, but a sink hole and red clay residual from limestone seen in a stream bank close to the west slope of Piney Mountain are sufficient evidence of its presence under the covering of wash. Dolomite beds are exposed in Naked Creek south of the Watson mine and also farther out in the valley. The axis of the syncline strikes northeast between the two mountains but lies south of Naked Creek. Along the creek the white quartzite beds, which are north of the synclinal axis, strike N. 70° E. and dip 15°–30° SE. To the east, up the creek the older

Cambrian sandy shale and slate of the Hampton formation and arkosic sandstone and conglomerate of the Unicoi formation crop out beneath the white Erwin quartzite, with similar low southerly dips and nearly east strike. At the base of the Cambrian rocks purple ferruginous sandstone rests on pre-Cambrian greenstone schists.

The ore at the Watson mine consists of concretionary psilomelane and pockets of wad in residual clay of the Shady dolomite. It was mined by means of a shaft and two tunnels and was concentrated in a mill at the mine, but no mining has been done here for several years. Similar ore occurs at the prospect pits along the foot of the mountain for about half a mile southeast of the mine. The mine and prospects are located in a small syncline and are therefore favorably situated for the accumulation of manganese ore, but large, rich deposits are probably not to be expected because of the small size of the syncline. The tract near Naked Creek, however, is larger and more favorably situated for the accumulation of ore, because the syncline from which ore could have been concentrated there is broad and open. Although no ore has been reported from this tract, it is recommended that the tract be thoroughly prospected by drilling or digging pits. It is not advisable to prospect in the stream flats of Naked Creek and its tributary flowing north at the west base of Piney Mountain, for but little, if any, residual clay in which manganese ore would be expected occurs here between the alluvium and the unaltered limestone. Prospecting should be confined to the area between these two creeks.

TRACT 4.

Tract 4 is an irregular lowland area inclosed by low hills, 3 miles northeast of Waynesboro. (See fig. 31.) This region is served by the Shenandoah Valley branch of the Norfolk & Western Railway and the Chesapeake & Ohio Railway, which cross at Basic City.

The boundary between the Blue Ridge and Shenandoah Valley here follows a very irregular but general southwesterly course, which is determined by the irregular structure and distribution of the underlying rocks. Some of the foothills are so low that it is difficult to decide where the boundary between foothills and valley should be drawn. The westernmost foothills of the Blue Ridge are composed of white Cambrian (Erwin) quartzite. Sawmill Ridge and Ramsey Mountain form the main ridge of the white quartzite in this area, and quartzite beds on their west slopes dip 50° W., toward the valley. East of Ramsey Mountain and Sawmill Ridge the white quartzite is underlain by older Cambrian sandy shales and dark arkosic sandstones of the Hampton and Unicoi formations, and east of these are the pre-Cambrian greenstones and schists that compose the larger part of the Blue Ridge. West of the mountain front the

breccia, but no rock ledges from which the structure could be determined were seen. The hills are believed to be anticlinal in structure and to be made up of several low anticlines in which the quartzite is barely exposed at the surface. Between the individual hills are several small valleys or hollows, presumably occupying synclinal troughs, which, if not too shallow, may contain Shady dolomite. Those on the north and east sides merge with the embayments on the south side of the quartzite hills to the north, which are known to contain chert residual from the dolomite. These structural troughs, which are large and deep enough to contain a considerable body of the Shady dolomite, or its residual clay, are favorable for the accumulation of manganese ore bodies. A prospect pit northeast of Bear Mountain found considerable manganese ore, and two other prospect pits on the west flank of Ramsey Mountain also show ore. In fact, the whole lowland southwest of Ramsey Mountain and southeast of Bear Mountain is believed to be underlain by residual clay from limestone and therefore to have favorable structural conditions for the accumulation of ore. The surface of much of this area, especially the portions close to the quartzite hills, is strewn with small pieces of flinty iron ore, and the soil is markedly red in places. Both of these features indicate the probable presence of the basal beds of the Shady dolomite, in which some ore has been deposited. The limestone lowland and the white quartzite of Ramsey Mountain are abruptly terminated at the south by the older Cambrian shales and arkosic sandstones, which have been thrust westward about 2 miles along an east-west fault, the trace of which lies close to the main road from the gap south of Ramsey Mountain to Basic City.

Because of the favorable structure just described it is recommended that the triangular valley of about 1 square mile lying north of the fault and extending from Ramsey Mountain to Bear Mountain, with its two northward synclinal prongs, be thoroughly prospected by drilling or test pits to determine the presence of manganese. The small synclinal valleys west and southwest of Bear Mountain are also recommended as possibly containing workable deposits and worthy of examination. The small syncline on Sawmill Run is likewise favorable, but large deposits are not to be expected there.

TRACT 5.

Tract 5 lies 6 miles due south of Luray and just northeast of Marksville. (See fig. 32.) As it is a limestone valley inclosed by quartzite ridges it may prove worthy of careful prospecting. The main quartzite ridge of the mountain front is broken down east of the village of Stony Man (Blosserville), as the white Erwin quartzite is here crushed by faulting. South of Stony Man the ridge appears

derived and incloses decomposed chert from the limestone. This clay is residual from the Shady dolomite at the base of the Shenandoah group of limestones, for purple shale, residual banded clay, and thin sandstone of the next overlying formation (Watauga shale) crop out near the wagon road west of the mine. In the mine pits the residual clay merges at the top with mottled clay that has moved somewhat down the slope and has been more or less mixed with the sandstone wash from the mountain. The overburden is not more than 10 feet thick at the mine. The ore seems to be mostly deposited in the undisturbed residual clay.

At the west end of the railway cut there is a small detached mass of brecciated white quartzite, which evidently forms a small anticline on the west flank of the main quartzite mass, although it is so highly brecciated that the anticlinal structure can not be determined in the railway cut. The small ridge which this quartzite mass makes on the flank of the main quartzite ridge west of the railway is covered with fragments of the quartzite, but there are no bedrock outcrops on it. It declines toward the southwest and merges into the wash-covered terraced mountain slope on which the Seibel mine is located. In the swale between the main ridge and this small

ridge is much iron-ore float and several shallow pits which show considerable manganese oxide. This swale is on the axis of a small syncline that plunges southwestward toward the Seibel mine and incloses the residual clays of the basal limestone beds which rest on the top of the gently dipping white quartzite. Its structure is therefore favorable for the accumulation of manganese ore. The fold, however, is so small that the embayment can not be regarded as likely to furnish a large quantity of manganese and would not be classed as favorable for prospecting if it were not for the good showing of ore at the surface and in the surface pits over a considerable area northeast of the Seibel mine.

An iron mine was formerly worked by the Seibel Co. 1 mile southwest of the manganese mine, on the flank of the same ridge. In the

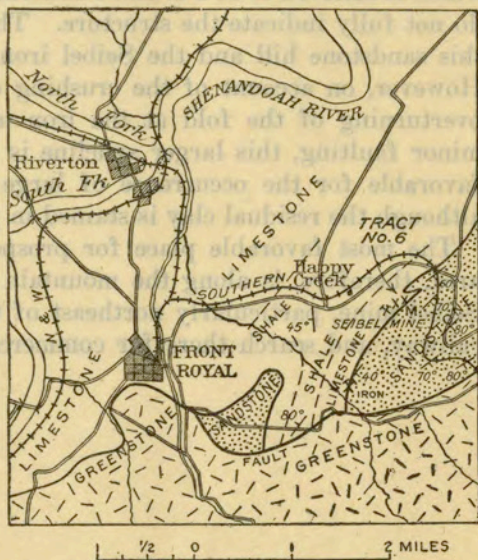


FIGURE 33.—Sketch geologic map of area east of Front Royal, Va., showing location of tract 6.

to be anticlinal, with a fault on its southeast side, and farther southwest, west of Ida, there are two quartzite ridges, the outer one apparently anticlinal, so that the valley between them is a syncline. The fault east of the quartzite cuts out the Hampton shale to the southwest, bringing the Unicoi sandstone and Erwin quartzite together. These are minor structural features, however, and even if the synclines in the white quartzite inclose limestone, as is suggested by exposures of certain residual clays, they are hardly to be regarded as favorable for the accumulation of large manganese deposits.

Northeast of Marksville an outlying quartzite ridge trends northeast, and although large masses of rock cover its surface no rock was observed in place, and the structure could not be determined. It is believed to be an anticline, however, but may be faulted on the west side. The valley between the outlying ridge and the main ridge of the mountain front is deeply covered with sandstone wash, and the bedrock is concealed, but with the quartzite fragments there is much iron-ore float and some ferruginous chert derived from limestone.

This valley is therefore believed to be a synclinal limestone valley between two quartzite ridges and thus to be structurally favorable for the accumulation of manganese ore. Manganese ore has not been mined in this area, but in a small synclinal valley on the mountain side 2 miles southwest of Marksville some old workings show fragments of manganese oxide, and preparations are being made to reopen the workings.

The limestone embayment opens into the main valley both at the north and south, but as a fault probably breaks the limestone at these places the bedding is not continuous across these breaks and the syncline is cut off. The synclinal basin therefore forms a wedge-shaped area with the point at the northeast, over 2 miles long and a

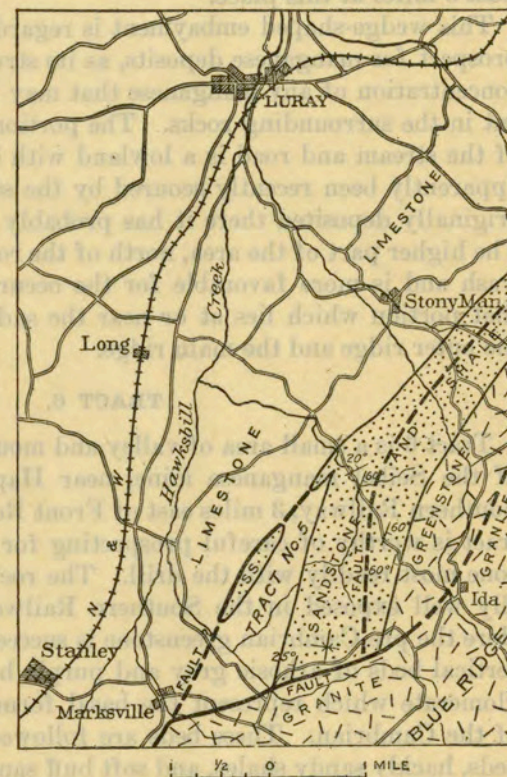


FIGURE 32.—Sketch geologic map of area south of Luray, Va., showing location of tract 5.

mile in width at its southwest base. At the southwest it is cut off by pre-Cambrian granite, which is faulted across the end of the basin. The granite has been moved westward along the east-west fracture and now abuts against the ends of first the pre-Cambrian greenstone beds southwest of Ida, then successively the basal Cambrian sandstones and shales (Unicoi and Hampton), the upper white quartzite (Erwin), and finally the limestone of the inclosed valley. The fault thus caused a horizontal displacement of the rocks of at least 3 miles at this place.

This wedge-shaped embayment is regarded as a desirable place to prospect for manganese deposits, as its structure is favorable for the concentration of any manganese that may have been originally present in the surrounding rocks. The portion of the embayment south of the stream and road is a lowland with little coarse wash and has apparently been recently scoured by the stream, so that if ore were originally deposited there it has probably been removed by erosion. The higher part of the area, north of the road, is deeply covered with wash and is more favorable for the occurrence of ore, particularly that portion which lies at or near the saddle in the valley between the outer ridge and the main ridge.

TRACT 6.

Tract 6 is a small area of valley and mountain slope in the vicinity of the Seibel manganese mine, near Happy Creek station on the Southern Railway, 3 miles east of Front Royal. (See fig. 33.) This tract is worthy of careful prospecting for manganese, which can be done most readily with the drill. The rocks of this area are unusually well exposed in the Southern Railway cuts east of the mine. Here the pre-Cambrian greenstone is succeeded on the west by nearly vertical beds of arkosic gray and purple banded sandstone and conglomerate which represent the basal formation (Unicoi sandstone) of the Cambrian. These beds are followed by purple shaly arkosic beds, hackly sandy shales, and soft buff sandstones with low dips and minor folds, and these in turn by nearly vertical, thicker, harder argillaceous sandstone with some thin dark shale partings which represent the Hampton shale. Then follows the main ridge-making upper white quartzite (Erwin), which is nearly vertical but also somewhat folded and much brecciated, the fragments being cemented in part by limonite.

At the foot of the west slope of the mountain is the Seibel manganese mine, described in detail by Hewett.¹ The manganese and maniferous iron in a new pit at the mine clearly occur in clay that in part retains the original bedding of the limestone from which it was

¹ Hewett, D. F., op. cit., pp. 67-69.

mine pit the brecciated white quartzite clearly overlies banded yellow clay residual from the Shady dolomite, which dips 40° SE., so that the beds are overturned. The unaltered Shady dolomite was encountered in a tunnel below the pit. These rocks strike south-westward but are cut off in this direction by the pre-Cambrian greenstone, which is faulted across the ends of the beds. The greenstone has been moved westward along the fault, resting against the ends first of the basal Cambrian beds, then in turn the white quartzite, the residual clay of the Shady dolomite, and lastly purple shales and thin sandstone of the Watauga formation. The horizontal movement of the greenstone was at least 2 miles. To the west the brecciated quartzite makes another low hill 1 mile from Front Royal, which is believed to be a crushed anticline, although the rock outcrops do not fully indicate the structure. The limestone lowland between this sandstone hill and the Seibel iron mine is therefore synclinal. However, on account of the crushing of the quartzite, the marked overturning of the fold at the iron mine, and the probability of minor faulting, this larger syncline is not regarded as particularly favorable for the occurrence of large deposits of manganese ore, although the residual clay is stained in places by manganese oxide.

The most favorable place for prospecting with the drill in this area, therefore, is along the mountain front in the vicinity of the Seibel mine, particularly northeast of the mine, between it and the railway, and search there for commercial deposits is recommended.



FIG. 33.—Geological map of the Seibel manganese mine area, showing the mine, Happy Creek station, and Front Royal. The map illustrates the geological structure of the area, including the Seibel mine, the Happy Creek station, and the Front Royal. The map shows the Seibel mine, the Happy Creek station, and the Front Royal. The map illustrates the geological structure of the area, including the Seibel mine, the Happy Creek station, and the Front Royal.

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DEPARTMENT OF THE INTERIOR FRANKLIN K. LANE, Secretary

UNITED STATES GEOLOGICAL SURVEY GEORGE OTIS SMITH, Director

Bulletin 660

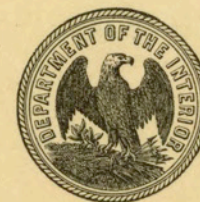
CONTRIBUTIONS TO ECONOMIC GEOLOGY

(SHORT PAPERS AND PRELIMINARY REPORTS)

1917

PART I.—METALS AND NONMETALS EXCEPT FUELS

F. L. RANSOME AND H. S. GALE
GEOLOGISTS IN CHARGE



WASHINGTON
GOVERNMENT PRINTING OFFICE
1918

CONTRIBUTIONS TO ECONOMIC GEOLOGY

(SHORT PAPERS AND PRELIMINARY REPORTS)

1917

NOTE.—The Survey's annual volumes entitled "Contributions to economic geology" are issued in parts, and the last part will include a volume title-page, table of contents, and index for the use of those who may wish to bind the separate parts. A small edition of the bound volume will also be issued, but copies can not be supplied to those who have received all the parts.

II

W. L. HANSON AND H. S. GALE
GEOLOGISTS IN CHARGE



WASHINGTON
GOVERNMENT PRINTING OFFICE
1917

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CONTRIBUTIONS TO ECONOMIC GEOLOGY, 1917.

PART I. METALS AND NONMETALS EXCEPT FUELS.

F. L. RANSOME and H. S. GALE, *Geologists in charge.*

INTRODUCTION.

The Survey's "Contributions to economic geology" have been published annually since 1902. In 1906 the increase in the number of papers coming under this classification made it necessary to divide the contributions into two parts, one including papers on metals and nonmetals except fuels and the other including papers on mineral fuels. In 1915 the year included in the title was changed from the year in which the field work reported in these papers was done to the year of publication, and in consequence there was no volume entitled "Contributions to economic geology, 1914." The subjoined table gives a summary of these bulletins.

United States Geological Survey "Contributions to economic geology."

Date in title.	Date of publication. ^a	Bulletin No.	Date in title.	Date of publication. ^a	Bulletin No.
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^a The date given is that of the complete volume; beginning with Bulletin 285, the papers have been issued as advance chapters as soon as they were ready.

As the subtitle indicates, the papers included in these volumes are of two classes—(1) short papers giving comparatively detailed descriptions of occurrences that have economic interest but are not of sufficient importance to warrant a more extended description;

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(2) preliminary reports on economic investigations the results of which are to be published later in more detailed form. These papers are such only as have a direct economic bearing, all topics of purely scientific interest being excluded.

Brief abstracts of the publications of the year are given in the annual report of the Director. The complete list of Survey publications affords, by means of finding lists of subjects and of authors, further aid in ascertaining the extent of the Survey's work in economic geology.

The reports on work in Alaska have been printed in a separate series since 1904, the volumes so far issued being Bulletins 259, 284, 314, 345, 379, 442, 480, 520, 542, 592, 622, 642, and 662.

INTRODUCTION.

The Survey's "Contributions to economic geology" have been published annually since 1905. In 1906 the increase in the number of papers coming under this classification made it necessary to divide the contributions into two parts, one including papers on metals and nonmetals except fuels and the other including papers on mineral fuels. In 1915 the year included in the title was changed from the year in which the field work reported in these papers was done to the year of publication, and in consequence there was no volume entitled "Contributions to economic geology, 1914." The appended table gives a summary of these bulletins.

Table showing Summary of "Contributions to economic geology."

Part of bulletin No.	Date of publication	Date of issue	Part of bulletin No.	Date of publication	Date of issue
1	1905	1905	1	1905	1905
2	1906	1906	2	1906	1906
3	1907	1907	3	1907	1907
4	1908	1908	4	1908	1908
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97	2001	2001	97	2001	2001
98	2002	2002	98	2002	2002
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The date of issue is that of the first issue of the bulletin, and the date of publication is that of the last issue of the bulletin.

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1322
125
1497

35
220
7
20
720
1000
1770

542

4341 2700 8-17

E. L. No.
Sample
From
Rec'd

Manganese Ore
(Gleney, Va)

Oct 12/17

SAMPLE REPRESENTS

Car No.
Shipper
Date Shipped
Destination
Date rec'd
Sampled } Date
Place
Marks

Letter

Analyst

H. H. S.

Report to
Copy to

ANALYSIS

EASTERN LABORATORY, CHESTER, PA.

ANALYSIS

Oct. 17/17.

Found

Probable Composition

Iron = 4.59

Fer O₃ = 6.57

Alumina = 1.15

Al₂O₃ = 1.15

Silica = 20.66

Si O₂ = 20.66
(+H₂O?)

Manganese = 43.65

Mn O₂ = 69.18

Total = 97.56

Director.

542

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable sign above or preceding the address.

WESTERN UNION

NEWCOMB CARLTON, PRESIDENT

J. C. WILLEVER, FIRST VICE-PRESIDENT

SIGNS

DL = Day Letter
NM = Night Message
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Received at

1931 FEB 12 PM 8 47

WAC176 45 NL=GAINESVILLE FLO 12

F W YANCEY=

MCGAHEYSVILLE VIR =

LETTERS JUST RCD WAS OFFERED EIGHT THOUSAND BY PITTSBURGH
CO ORE ANALYZED 40 PERCENT PURE BY DUPONT CO A VERY HIGH
GRADE NO OTHER MANGANESE EAST OF MISSISSIPPI RIVER EXCEPT
IN PAGE WARREN & AUGUSTA COUNTIES LETTER FOLLOWS I SPENT
TWO THOUSAND DEVELOPING IT=

S M YANCEY.

11722
Elkton

McGah
Yancey
900am
H Fld=
811A BA=
832BA=

THE QUICKEST, SUREST AND SAFEST WAY TO SEND MONEY IS BY TELEGRAPH OR CABLE.

STATE OF FLORIDA
COUNTY OF ALACHUA

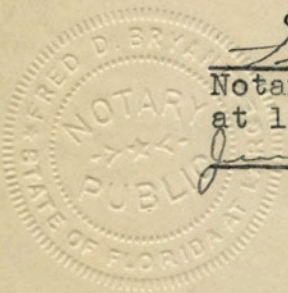
Personally appeared before me, Fred D. Bryant, a Notary Public of the State of Florida, S. M. Yancey, who by me first being duly sworn, deposes and says:

That for a number of years affiant has known and been familiar with the W. B. Yancey Woodland tract of land in Rockingham County, Virginia; that several years ago he prospected thereon for mineral deposits and that the ore from which the formula hereto attached, was obtained from said W. B. Yancey, Woodland tract of land, East of Yancey Station, Rockingham County, Virginia; that he knows same to be true and genuine and the original formula was made and obtained through his agency from the Dupont Company.

Dated at Gainesville, Florida, this 17th day of August, A.D. 1931.

S. M. Yancey

Fred D. Bryant
Notary Public state of Florida
at large. My commission expires
June 16 1934.



VIRGINIA, IN THE CIRCUIT COURT OF ROCKINGHAM COUNTY.

THE STATE CORPORATION COMMISSION ON CONSERVATION
AND DEVELOPMENT OF THE STATE OF VIRGINIA

v.

CASSANDRA LAWSON ATKINS and others, and 53,561
acres, more or less, of land in Rockingham County,
Virginia.

Filed in the Clerk's Office
Rockingham County, Va.

NOV 9 1932

J. Robert Huntzger Clerk

Statement made this 8th day of November, 1932, by Emma V. Gibbons,
Hunter M. Gibbons and Mrs. Mary Gibbons Snapp, in response to an
order entered in the above entitled cause on October 25, 1932.

Your respondents say that they are the owners of 124-1/2 acres of land
situated about one and a half miles east of Yancey, in Rockingham County, ad-
joining the lands of Catlett, Trustee, Crawford and others, and the lands now
owned by A. L. Moubray and J. F. Moubray, as shown on the plat on file in the
Clerk's Office of Rockingham County. That the said plat as returned by the Board
of Appraisers for Park Purposes lists said land as No. 163, and as con-
taining 110 acres, whereas, as a matter of fact, it contains 124-1/2 acres.
Your respondents refer specifically to the exceptions filed herein and ask that
they be read in connection herewith.

And respondents further state they are the owners of a one-eighth int-
erest in and to the mineral rights in the lands known as the W. B. Yancey land,
which are not mentioned at all in the said report as far as mineral rights are con-
cerned, which mineral rights respondents and their associates allege are worth at
the lowest, \$10,000.00.

And having fully answered, respondents pray that their exceptions to the
report of the said commission be sustained, and they will ever pray, etc.

Wm. A. [Signature]
Counsel

Emma V. Gibbons
Hunter M. Gibbons
Mary Gibbons Snapp
By Counsel

RETURN IN FIVE DAYS TO
J. ROBERT SWITZER, CLERK
Circuit Court of Rockingham County
HARRISONBURG VIRGINIA

STATEMENT

OF) Chas. A. Hammer, p.q.

THOMAS L. YANCEY, EMMA V. GIBBONS, S. M. YANCEY,
NETTIE I. MAUZY, JULIA ESTES, A. S. YANCEY, FRANK W. YANCEY
Heirs-at-law of late Wm. B. Yancey

Filed 8/28/33

STATEMENT OF COSTS, POSTAGE, ETC.:

SUPLEE ENVELOPE CO., UPPER DARBY, PA.

Emma V. Gibbons
Thos L. Yancey et als
No 163

CHAS. A. HAMMER
ATTORNEY AT LAW
HARRISONBURG, VA.

To The
Hon. Phillip Williams,
Chairman of the Land Tract Arbitration Board:

We, Thomas L. Yancey, Emma V. Gibbons, S. M. Yancey, Nettie I. Mauzy, Julia Estes, A. S. Yancey and Frank W. Yancey, have employed Messrs. Hammer & Hammer of Harrisonburg, to represent us in all condemnation proceedings in connection with our land tract #163 in the Shenandoah National Park Area, as it appears upon the maps filed in the Clerk's Office of Rockingham County.

Given under our hands this 22nd day of August, 1933.

Emma V. Gibbons
Thomas L. Yancey
Frank W. Yancey
Nettie I. Mauzy
S. M. Yancey
Julia Yancey Estes
A. S. Yancey

original

THE STATE COMMISSION ON CONSERVATION AND DEVELOPMENT
OF THE STATE OF VIRGINIA,

Vs.

CASANDRA LAWSON ATKINS, et als., and 52,561 Acres
of Land in Rockingham County.

Filed in the Clerk's Office
Rockingham County, Va.

AUG 28 1933

Robert Hunter Clerk

TO THE

HON. H. W. BERTRAM, JUDGE OF THE CIRCUIT COURT:

(1) The motion of Thomas L. Yancey, Emma Va. Gibbons, S.M. Yancey, Nettie I. Mauzy, Julia Estes, A.S. Yancey, and Frank W. Yancey, all of the heirs at law of the late William B. Yancey, except the children of William L. Yancey, dec'd., praying the said Court to disapprove and decline to accept the findings on Tract #163 of the Board of Appraisal Commissioners heretofore appointed by the said Court in the above matter as filed in the Clerk's Office of the said Court, wherein the said Board reported certain inadequate values for the land and mineral rights of the William B. Yancey estate, and which now belongs to moveants, along with the children of the late William L. Yancey. The grounds of said motion are that the said Board of Appraisal utterly ignored all mineral rights in and to the tract of 124-1/2 acres of land in which moveants own the mineral rights, the land being owned by Emma V. Gibbons, Hunter M. Gibbons, and Mary Gibbons Snapp.

This tract of land is owned in fee simple by Emma V. Gibbons, Hunter M. Gibbons, and Mary Gibbons Snapp, the mineral rights therein belonging to moveants. The mineral rights in these lands are valuable and have been opened and explored, and moveants ancestors spent considerable money in developing them. Moveants reserved in the sale of these lands the mineral rights because of their value. The tract of land lies in the manganese ore belt in the spurs at the foothills of the Blue Ridge, on the west side thereof, as shown by the Virginia

Geological Reports, which lands were recommended for prospecting and development by the State for the development of manganese for war purposes. Special reference is made to Bulletin 660-J of the United States Geological Survey, at pages 282-3-4-5-6, which contains a full statement as to the prospective value of these lands for mineral development. Moveants at one time were offered and refused to accept the sum of EIGHT THOUSAND (\$8,000.00) DOLLARS for the mineral rights upon this tract of land. For this mineral right the appraisers allowed nothing. The lands lie within easy reach of the railroad, and the means of transportation of the ores would be readily available. Moveants claim that the mineral rights upon this land are easily worth the sum of TEN THOUSAND (\$10,000.00) DOLLARS, and they therefore ask that the Board of Arbitration disapprove and decline to accept the said findings of the Appraisal Board, and that a reasonable and fair appraisal of the mineral rights be made.

Given under our hands this 22nd day of August, 1933.

Thos. L. Gentry

Emma V. Gibbons

S. M. Gentry

John S. Gentry

Julia Ester

A. S. Gentry

Frank W. Gentry

By Counsel

Harold H. Gentry
Counsel

VIRGINIA, CITY OF HARRISONBURG; TO-WIT:

This day personally appeared Emma V. Gibbons, one of the moveants in the above-named case, who is acting for them all, and whose name is signed on the margin hereof for purposes of identification, personally appeared before me and made oath that the facts stated above of her own knowledge are true, and those made upon information derived from others, she believes to be true.

Given under my hand and seal this 22nd day of August, 1933.

Mrs. R. Dovel
Notary Public.

Emma V. Gibbons

GIBBONS, EMMA V., ET ALS
163
ROCKINGHAM COUNTY

Filed in the Clerk's Office
Rockingham County, Va.

SEP 7 1933

Robert L. Hunter Clerk

IN RE. ARBITRATION AGREEMENTS submitted to the Governor arising
in or out of Condemnation Proceedings pending in the Circuit Court
of Virginia under authority of the Shenandoah National Park Act.

SUMMARY STATEMENT OF PETITIONER:

EXCEPTANTS: Gibbons, Emma V., et als

ORIGINAL CLAIM: Acreage 125 : Value \$31,000.00 : Inc. Damages, None

VALUE PLACED ON TRACT BY PETITIONER'S APPRAISERS:

<u>TRACT NO.</u>	<u>VALUE</u>	<u>INCIDENTAL DAMAGES</u>
163	\$416.00	None

BOARD OF APPRAISAL COMMISSIONERS FINDINGS:

MAP NUMBER OF TRACT: 163

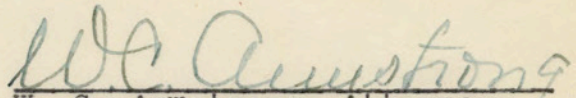
VALUE OF TRACT:

<u>TRACT NO.</u>	<u>VALUE</u>	<u>INCIDENTAL DAMAGES</u>
163	\$560.00	None

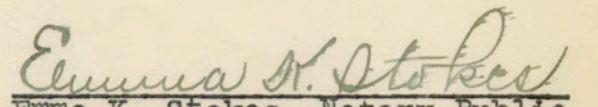
The basic differences between Petitioner and these exceptants are as to the classification and value of the land, timber values, and mineral rights.

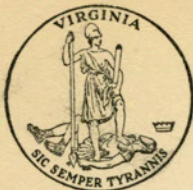
Although we believe the values reported by the Petitioner's appraisers were very liberal and that the findings of the Board of Appraisal Commissioners as to values are substantially too high, we have accepted and will not seek a lower valuation than their findings as shown on the above tables in this case.

As to the classification of the land and the other elements of value we submit that these matters are correctly set forth in the Work Sheet of the Board with reference to this case, and not as set forth in exceptants' statements. This Work Sheet is filed with the record and a copy of this Work Sheet is submitted with copy of the record tendered herewith, and additional copies of the Work Sheet in this case will be furnished if desired.


W. C. Armstrong, Attorney
for Petitioner.

Subscribed to and verified before me this the 8th day of September, 1933.


Emma K. Stokes, Notary Public.



Commonwealth of Virginia

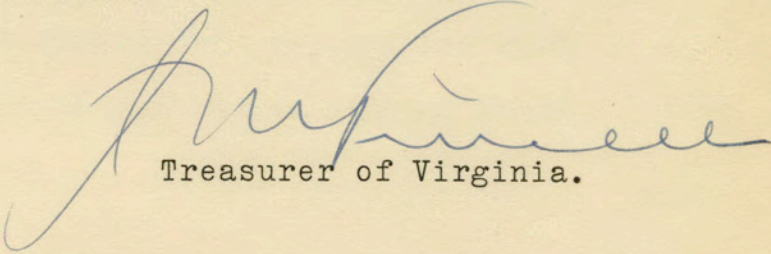
TREASURER'S OFFICE

RICHMOND, VA.

JOHN M. PURCELL
TREASURER OF VIRGINIA

December 29, 1933

This is to certify that I, J. M. Purcell, Treasurer
of Virginia have this 29 day of December in accordance
with an order of the circuit court of Rockingham County
dated 12/27/33 in the cause of the State Commission
on Conservation and Development of the State of Virginia
vs. Cassandra Lawson Atkins
paid to Emma V. Gibbons, Elkton, Virginia
\$ 1,354.70 being in full settlement of tract # 230
in the above mentioned cause.


Treasurer of Virginia.



JOHN M. PURCELL
TREASURER OF VIRGINIA

Commonwealth of Virginia

TREASURER'S OFFICE

RICHMOND, VA.

December 29, 1933

Emma V. Gibbons

Received of J. M. Purcell, Treasurer of Virginia, the sum of \$ 1,354.70, in accordance with an order of the Circuit Court of the county of Rockingham entered on the 27th day of December 1933, in the matter of the State Commission on Conservation and Development v Cassandra Lawson Atkins and others, being full and complete settlement for the tract of land known in said proceeding as # 230.

Emma V. Gibbons

Sign original and duplicate
and return to the Treasurer
of Virginia.



JOHN M. PURCELL
TREASURER OF VIRGINIA

Commonwealth of Virginia

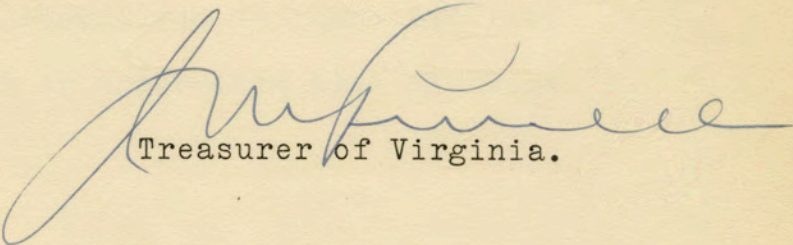
TREASURER'S OFFICE

RICHMOND, VA.

December 29, 1933

This is to certify that I, J. M. Purcell, Treasurer
of Virginia have this 29 day of December in accordance
with an order of the circuit court of Rockingham County
dated 12/27/33 in the cause of the State Commission
on Conservation and Development of the State of Virginia
vs. Cassandra Lawson Atkins

paid to Farmers Agriculture Credit Corporation and the Federal
Intermediate Credit Bank of Baltimore c/o Ward Swank, Atty.
\$1,130.30 being in full settlement of tract #230 Harrison
burg, Va
in the above mentioned cause.


Treasurer of Virginia.



JOHN M. PURCELL
TREASURER OF VIRGINIA

Commonwealth of Virginia

TREASURER'S OFFICE

RICHMOND, VA.

December 29, 1933

Farmers Agriculture Credit Corporation and the
Federal Intermediate Credit Bank of Baltimore

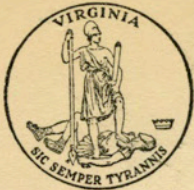
Received of J. M. Purcell, Treasurer of
Virginia, the sum of \$ 1,130.30, in accordance
with an order of the Circuit Court of the county
of Rockingham entered on the 27th day
of December 1933, in the matter of the State
Commission on Conservation and Development v _____
Cassandra Lawson Atkins and others, being
full and complete settlement for the tract of land
known in said proceeding as # 230.

Farmers Agricultural Credit Corp. of Va
By L. C. Huffman, Sec. Treas.

Federal Intermediate Credit Bank
of Baltimore

By *L. C. Huffman* Sec. Treas.

Sign original and duplicate
and return to the Treasurer
of Virginia.



JOHN M. PURCELL
TREASURER OF VIRGINIA

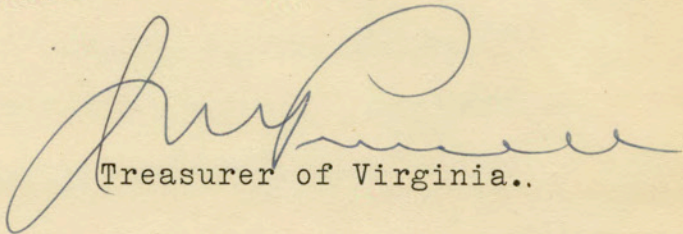
Commonwealth of Virginia

TREASURER'S OFFICE

RICHMOND, VA.

December 29, 1933

This is to certify that I, J. M. Purcell, Treasurer of Virginia have this 29 day of December in accordance with an order of the circuit court of Rockingham County dated 12/27/33 in the cause of the State Commission on Conservation and Development of the State of Virginia vs. Cassandra Lawson Atkins paid to Louise M. Thompson, c/o W. A. Gibbons, Roanoke, Va. \$ 1,200.00 being in full settlement of tract # 230 in the above mentioned cause.


Treasurer of Virginia..



JOHN M. PURCELL
TREASURER OF VIRGINIA

Commonwealth of Virginia

TREASURER'S OFFICE

RICHMOND, VA.

December 29, 1933

Louise M. Thompson

Received of J. M. Purcell, Treasurer of
Virginia, the sum of \$ 1,200.00, in accordance
with an order of the Circuit Court of the county
of Rockingham County entered on the 27th day
of December 1933, in the matter of the State
Commission on Conservation and Development v _____
Cassandra Lawson Atkins and others, being
full and complete settlement for the tract of land
known in said proceeding as # 230.

Louise M. Thompson
by John M. Thompson

Sign original and duplicate
and return to the Treasurer
of Virginia.