

**TIMBER MARKETING & MANAGEMENT, INC.**  
Professional Forestry Consultants

P.O. Box 396  
Chesterfield, VA 23832  
Ph (804) 796-9622  
Fax (804) 796-9693

Sale Date:	8/23/17	8/23/17	8/23/17
Time:	11 a.m.	11 a.m.	11 a.m.
Day:	Wed.	Wed.	Wed.
Block:	2	2A	SMZ
Total Vol./Acre (BF):	16,974	4,583	3,522
Pine Vol/Tree (BF):	197	99	334
Hdwd. Vol/Tree (BF):	180	125	523

**CLEAR CUT**

Having been employed by **Blenheim Ltd.**, we solicit bids on a combination of blocks consisting of all merchantable timber on 48 +/- acres shown as the clear cut area Block 2 and on all merchantable timber on 5 +/- acres shown as the clear cut area Block 2A and blue marked timber only on 14 +/- acres shown as the SMZ area Block 2 and 2A and located in Northumberland County, Virginia.

For the pulpwood trees we cruised Block 2 at 3% and Block 2A at 4% and for the sawtimber trees we made a 100% tree count. Our estimate of their volume is outlined below:

	<b>BLOCK 2</b> 48 +/- ACRES 3% Cruise	<b>BLOCK 2A</b> 5 +/- ACRES 4% Cruise	<b>SMZ</b> 14 +/- ACRES	<b>TOTAL</b> 66 +/- ACRES
<b><u>Pulpwood</u></b>				
	<u>Volume Cords</u>	<u>Volume Cords</u>	<u>Volume Cords</u>	<u>Volume Cords</u>
Pine	141	29	-	170
Soft Hardwood	143	30	-	173
Hard Hardwood	30	0	-	30
	<hr/>	<hr/>	<hr/>	<hr/>
	<b>314</b>	<b>59</b>	<b>0</b>	<b>373</b>
				<b>Total Cords</b>
<b><u>Sawtimber</u></b>				
	<u>Volume MBF</u>	<u>Volume MBF</u>	<u>Volume MBF</u>	<u>Volume MBF</u>
Loblolly Pine	688.1	15.4	46.7	750.2
Poplar	92.6	7.4	2.6	102.6
Gum	13.6	0.1	0.0	13.7
Red Oak	12.9	0.0	0.0	12.9
Maple	5.0	0.0	0.0	5.0
Chestnut Oak	1.5	0.0	0.0	1.5
Virginia Pine	0.9	0.0	0.0	0.9
Black Cherry	0.2	0.0	0.0	0.2
	<hr/>	<hr/>	<hr/>	<hr/>
	<b>814.8</b>	<b>22.9</b>	<b>49.3</b>	<b>887.0</b>
				<b>Total MBF</b>

The above volumes are not guaranteed; however, care was taken in the field to assemble the above tables. You should note how your utilization practices may vary from the above and make any necessary adjustments.

**Conditions**

1. The landowner assumes responsibility for compliance with the Virginia State Seed Tree Law.
2. A period of time of 24 months will be allowed to cut and remove the timber.
3. Roads **must** be maintained and restored to their original condition upon completion of the logging. Any newly constructed roads and decks must be left in a graded condition and must be seeded upon completion of logging. Any newly constructed haul roads, skid roads and log decks and all logging operations must be in accordance with the guidelines set out in the **Best Management Practices Manual** of the Virginia Department of Forestry.
4. No tops or laps will be allowed to remain in the streams, fields, buffers or over cutting boundaries. They must be pulled back immediately. No tops or laps will be allowed to remain in the SMZ's. The trees marked to be harvested should be limbed in the adjacent clear cut area.
5. Only the blue marked trees are to be cut from Streamside Management Zones.

6. No logging will be permitted during excessively wet weather conditions as determined by Timber Marketing & Management, Inc. If logging is halted due to weather conditions, then an extension of time equal to the time lost will be granted.
7. A \$3,000.00 performance bond will be paid at closing and held by Timber Marketing & Management, Inc. to insure compliance with all BMP requirements, road maintenance and conditions of the Timber Purchase Contract.

Only sealed bids will be accepted and owners reserve the right to reject any or all bids. BIDS SHOULD BE SUBMITTED PRIOR TO THE TIME OF BID OPENING AND CAN BE SUBMITTED VIA: Mail to Blenheim LTD c/o Timber Marketing & Management, Inc. P. O. Box 396, Chesterfield, Virginia 23832 **OR** hand delivered to 9520 Ironbridge Road, Chesterfield, Virginia **OR** telephoned in to 804-796-9622 **OR** faxed to 804-796-9693 **OR** emailed to tmm4u@aol.com Bids must be made on a lump-sum basis and must be received at this address no later than **Wednesday August 23, 2017 at 11:00 a.m.**

There will not be any scheduled show trip of the tract; however, you may call and set an appointment or you may inspect the property at your own leisure.

Sincerely,  
Timber Marketing & Management, Inc.

  
Stephen P. Lindberg, President  
804-796-9622 Office  
804-512-3578 Mobile

## Blenheim Block 2

### Timber Marketing & Management, Inc.

Professional Forestry Consultants

P.O. Box 396

Chesterfield, VA 23832-0000

Phone: (804) 796-9622 • Fax: (804) 796-9693

Pulpwood Cruise: 3.0%

Sawtimber Cruise: 100.0%

Cruise Date: Tuesday, July 11, 2017  
 Owner's Name: Blenheim  
 County/State: Northumberland County, VA  
 Acreage: 48+/-  
 Cruise Type: Tree Count  
 Harvest Type: Clear Cut  
 Total BF/Acre: 16,974  
 Pine Vol/Tree: 197.2  
 Hardwood Vol/Tree: 179.7

#### Volume Legend:

- 1) Diameters shown in inches (DBH)
- 2) Logs measured in 16' increments
- 3) Sawtimber volumes are shown in thousands of board feet (MBF)
- 4) Volume scale used for each species of sawtimber is noted
- 5) Pulpwood volumes are shown in standard cords (128 cubic feet)

#### Comments:

#### Pulpwood

Standard Cord

Wood Classification								
Pine			Soft Hardwood		Hard Hardwood		Cedar	
DBH	# Trees	Volume	# Trees	Volume	# Trees	Volume	# Trees	Volume
6	33		2	1,067	42	167	7	
8	467	47	300	24	100	8		
10	400	66	200	27	67	9		
12	100	26	167	33	33	7		
14			67	18				
<b>Total</b>	<b>1,000</b>	<b>141</b>	<b>1,800</b>	<b>143</b>	<b>367</b>	<b>30</b>		

#### Black Cherry - Sawtimber

International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
12	1					1	0.1	25.2%
14	2					2	0.2	74.8%
<b>Total</b>	<b>3</b>					<b>3</b>	<b>0.2</b>	

#### Chestnut Oak - Sawtimber

International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
12	8					8	0.4	30.5%
14	3	2				5	0.5	36.1%
16	1	2				3	0.5	33.4%
<b>Total</b>	<b>12</b>	<b>4</b>				<b>16</b>	<b>1.5</b>	

#### Gum - Sawtimber

International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
12	48					48	2.7	19.8%
14	12	11	1			24	2.7	20.1%
16	2	13	3			18	3.5	25.5%
18	1	5	4			10	2.7	20.1%
20		3				3	0.9	6.9%
22		2				2	0.8	5.7%
24	1					1	0.3	2.0%
<b>Total</b>	<b>64</b>	<b>34</b>	<b>8</b>			<b>106</b>	<b>13.6</b>	

#### Loblolly Pine - Sawtimber

International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
10	249	138	9			396	17.8	2.6%
12	62	284	600	41		987	107.2	15.6%
14	1	76	579	344		1,000	192.8	28.0%
16		4	239	444		687	197.4	28.7%
18		8	81	197		286	108.4	15.8%
20		1	17	84	4	106	52.9	7.7%
22			8	7		15	8.7	1.3%
24		1		2		3	2.0	0.3%
26				1		1	0.9	0.1%
<b>Total</b>	<b>312</b>	<b>512</b>	<b>1,533</b>	<b>1,120</b>	<b>4</b>	<b>3,481</b>	<b>688.1</b>	

#### Maple - Sawtimber

International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
12	25					25	1.4	28.0%
14	12					12	1.0	19.9%
16	5					5	0.6	11.2%
18	2					2	0.3	5.8%
20	1	2				3	0.8	16.2%
22		1				1	0.4	7.7%
26		1				1	0.6	11.2%
<b>Total</b>	<b>45</b>	<b>4</b>				<b>49</b>	<b>5.0</b>	

#### Poplar - Sawtimber

International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
12	90					90	5.0	5.4%
14	25	63	3			91	11.5	12.4%
16	14	68	30	1		113	22.5	24.3%
18		40	37			77	22.4	24.1%
20	2	18	19	3		42	15.7	16.9%
22		6	12			18	8.7	9.3%
24		3	4			7	4.0	4.3%
26		2	1			3	1.9	2.0%
30			1			1	1.1	1.1%
<b>Total</b>	<b>131</b>	<b>200</b>	<b>107</b>	<b>4</b>		<b>442</b>	<b>92.6</b>	

## Blenheim Block 2

### Timber Marketing & Management, Inc.

Cruise Date: Tuesday, July 11, 2017  
 Owner's Name: Blenheim  
 County/State: Northumberland County, VA

#### Red Oak - Sawtimber International 1/4 Scale

DBH	Number of Logs					# Trees	Volume	% of Total
	1-Log	2-Log	3-Log	4-Log	5-Log			
12	22					22	1.2	9.5%
14	16	3				19	1.8	13.6%
16	7	9				16	2.5	19.3%
18	5	7	1			13	2.8	21.6%
20	2	3				5	1.3	10.1%
22	1	4				5	1.8	13.7%
24	1					1	0.3	2.1%
26	1	1				2	0.9	6.8%
30	1					1	0.4	3.3%
<b>Total</b>	<b>56</b>	<b>27</b>	<b>1</b>			<b>84</b>	<b>12.9</b>	

#### Virginia Pine - Sawtimber International 1/4 Scale

DBH	Number of Logs					# Trees	Volume	% of Total
	1-Log	2-Log	3-Log	4-Log	5-Log			
10	4					4	0.1	16.6%
12	3	1	2			6	0.5	57.6%
14	1	1				2	0.2	25.8%
<b>Total</b>	<b>8</b>	<b>2</b>	<b>2</b>			<b>12</b>	<b>0.9</b>	

#### Sawtimber Volume by Timber Type

Timber Type	# Trees	Volume	Avg BF/Tree	% of Total
Hardwood	700	125.8	179.7	15.4%
Pine	3,493	688.9	197.2	84.6%
<b>Total</b>	<b>4,193</b>	<b>814.7</b>	<b>194.3</b>	

#### Sawtimber Volume by DBH

DBH	# Trees	Volume	Avg BF/Tree	% of Total
10	400	17.9	44.8	2.2%
12	1,187	118.6	99.9	14.6%
14	1,155	210.7	182.4	25.9%
16	842	226.8	269.4	27.8%
18	388	136.6	351.9	16.8%
20	159	71.6	450.4	8.8%
22	41	20.3	494.6	2.5%
24	12	6.5	544.2	0.8%
26	7	4.2	606.4	0.5%
30	2	1.5	737.0	0.2%
<b>Total</b>	<b>4,193</b>	<b>814.7</b>	<b>194.3</b>	

#### Sawtimber Volume by Species

Species	# Trees	Volume	Avg BF/Tree	% of Total
Black Cherry	3	0.2	74.0	0.0%
Chestnut Oak	16	1.5	91.9	0.2%
Gum	106	13.6	128.2	1.7%
Loblolly Pine	3,481	688.1	197.7	84.5%
Maple	49	5.0	102.0	0.6%
Poplar	442	92.6	209.5	11.4%
Red Oak	84	12.9	153.6	1.6%
Virginia Pine	12	0.9	72.3	0.1%
<b>Total</b>	<b>4,193</b>	<b>814.7</b>	<b>194.3</b>	

## Blenheim Block 2A

### Timber Marketing & Management, Inc.

Professional Forestry Consultants

P.O. Box 396

Chesterfield, VA 23832-0000

Phone: (804) 796-9622 • Fax: (804) 796-9693

Pulpwood Cruise: 4.0%

Sawtimber Cruise: 100.0%

Cruise Date: Tuesday, July 11, 2017  
 Owner's Name: Blenheim  
 County/State: Northumberland County, VA  
 Acreage: 5+/-  
 Cruise Type: Plot Cruise  
 Harvest Type: Clear Cut  
 Total BF/Acre: 4,583  
 Pine Vol/Tree: 98.8  
 Hardwood Vol/Tree: 125.0

#### Volume Legend:

- 1) Diameters shown in inches (DBH)
- 2) Logs measured in 16' increments
- 3) Sawtimber volumes are shown in thousands of board feet (MBF)
- 4) Volume scale used for each species of sawtimber is noted
- 5) Pulpwood volumes are shown in standard cords (128 cubic feet)

#### Comments:

#### Pulpwood

Standard Cord

#### Wood Classification

DBH	Pine		Soft Hardwood		Hard Hardwood		Cedar	
	# Trees	Volume	# Trees	Volume	# Trees	Volume	# Trees	Volume
6	100		5	175	7			
8	125		13	100	8			
10	75		12	75	10			
12				25	5			
<b>Total</b>	<b>300</b>	<b>29</b>	<b>375</b>	<b>30</b>				

#### Gum - Sawtimber

International 1/4 Scale

#### Number of Logs

DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
12	1					1	0.1	100.0%
<b>Total</b>	<b>1</b>					<b>1</b>	<b>0.1</b>	

#### Loblolly Pine - Sawtimber

International 1/4 Scale

#### Number of Logs

DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
10	45	4				49	1.9	12.0%
12	13	33	22			68	6.4	41.5%
14	1	11	19			31	5.2	33.5%
16		2	4			6	1.4	9.1%
18		1	1			2	0.6	3.8%
<b>Total</b>	<b>59</b>	<b>51</b>	<b>46</b>			<b>156</b>	<b>15.4</b>	

#### Poplar - Sawtimber

International 1/4 Scale

#### Number of Logs

DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
12	34					34	1.9	25.6%
14		11				11	1.6	20.8%
16		5				5	1.0	12.8%
18		4	1			5	1.3	17.8%
20			4			4	1.7	23.0%
<b>Total</b>	<b>34</b>	<b>20</b>	<b>5</b>			<b>59</b>	<b>7.4</b>	

#### Sawtimber Volume by Timber Type

Timber Type	# Trees	Volume	Avg BF/Tree	% of Total
Hardwood	60	7.5	125.0	32.7%
Pine	156	15.4	98.8	67.3%
<b>Total</b>	<b>216</b>	<b>22.9</b>	<b>106.1</b>	

#### Sawtimber Volume by DBH

DBH	# Trees	Volume	Avg BF/Tree	% of Total
10	49	1.9	37.9	8.1%
12	103	8.4	81.2	36.5%
14	42	6.7	160.0	29.3%
16	11	2.4	214.0	10.3%
18	7	1.9	273.1	8.3%
20	4	1.7	427.0	7.5%
<b>Total</b>	<b>216</b>	<b>22.9</b>	<b>106.1</b>	

#### Sawtimber Volume by Species

Species	# Trees	Volume	Avg BF/Tree	% of Total
Gum	1	0.1	56.0	0.2%
Loblolly Pine	156	15.4	98.8	67.3%
Poplar	59	7.4	126.1	32.5%
<b>Total</b>	<b>216</b>	<b>22.9</b>	<b>106.1</b>	

## Blenheim SMZ Block 2 and 2A

### Timber Marketing & Management, Inc.

Professional Forestry Consultants

P.O. Box 396

Chesterfield, VA 23832-0000

Phone: (804) 796-9622 • Fax: (804) 796-9693

Sawtimber Cruise: 100.0%

Cruise Date: Thursday, July 13, 2017  
 Owner's Name: Blenheim  
 County/State: Northumberland County, VA  
 Acreage: 14+/-  
 Cruise Type: Tree Count  
 Harvest Type: Select Cut  
 Total BF/Acre: 3,522  
 Pine Vol/Tree: 333.6  
 Hardwood Vol/Tree: 522.8

#### Volume Legend:

- 1) Diameters shown in inches (DBH)
- 2) Logs measured in 16' increments
- 3) Sawtimber volumes are shown in thousands of board feet (MBF)
- 4) Volume scale used for each species of sawtimber is noted
- 5) Pulpwood volumes are shown in standard cords (128 cubic feet)

#### Comments:

#### Loblolly Pine - Sawtimber

International 1/4 Scale

DBH	Number of Logs					# Trees	Volume	% of Total
	1-Log	2-Log	3-Log	4-Log	5-Log			
12			2			2	0.2	0.5%
14		5	13	3		21	3.8	8.1%
16		2	30	18		50	13.6	29.0%
18		1	24	8		33	11.5	24.7%
20		1	13	6		20	8.9	19.1%
22			6	5		11	6.4	13.6%
24			1			1	0.6	1.4%
26			1			1	0.8	1.6%
28			1			1	0.9	1.9%
<b>Total</b>		<b>9</b>	<b>91</b>	<b>40</b>		<b>140</b>	<b>46.7</b>	

#### Poplar - Sawtimber

International 1/4 Scale

DBH	Number of Logs					# Trees	Volume	% of Total
	1-Log	2-Log	3-Log	4-Log	5-Log			
18		1				1	0.2	9.5%
20			1			1	0.4	16.3%
22			1			1	0.5	20.2%
24			1			1	0.6	24.6%
26			1			1	0.8	29.3%
<b>Total</b>		<b>1</b>	<b>4</b>			<b>5</b>	<b>2.6</b>	

#### Sawtimber Volume by Timber Type

Timber Type	# Trees	Volume	Avg BF/Tree	% of Total
Hardwood	5	2.6	522.8	5.3%
Pine	140	46.7	333.6	94.7%
<b>Total</b>	<b>145</b>	<b>49.3</b>	<b>340.1</b>	

#### Sawtimber Volume by DBH

DBH	# Trees	Volume	Avg BF/Tree	% of Total
12	2	0.2	120.0	0.5%
14	21	3.8	179.6	7.6%
16	50	13.6	271.0	27.5%
18	34	11.8	346.4	23.9%
20	21	9.4	445.9	19.0%
22	12	6.9	573.8	14.0%
24	2	1.3	644.0	2.6%
26	2	1.5	767.0	3.1%
28	1	0.9	904.0	1.8%
<b>Total</b>	<b>145</b>	<b>49.3</b>	<b>340.1</b>	

#### Sawtimber Volume by Species

Species	# Trees	Volume	Avg BF/Tree	% of Total
Loblolly Pine	140	46.7	333.6	94.7%
Poplar	5	2.6	522.8	5.3%
<b>Total</b>	<b>145</b>	<b>49.3</b>	<b>340.1</b>	

**BLENHEIM LTD.**  
Northumberland Co., Va.

Select Cut SMZ's  
Marked Trees Only

WOODS ROAD

Block 2  
Clear Cut Area

Select Cut SMZ's  
Marked Trees Only

DATE: 7/17/2017

Block 6 A

Block 2A  
Clear Cut Area

Block 1B  
Clear Cut 2015-16

Block 1  
Clear Cut 2015-16

Block 7

Block 1 A  
Clear Cut 2015-16

**TIMBER MARKETING & MANAGEMENT, INC.**  
Professional Forestry Consultants  
P.O. Box 396  
Chesapeake, VA 23832  
PH (804) 796-6922  
FAX (804) 796-9693  
www.tmmva.com

WOODS ROAD

Block 8

TIMBER SALE SIGN  
at GATE

Declination  
MNSN  
GN 0.81° W  
MN 11.03° W

SCALE 1:7920  
0 1000 2000  
Feet

**BLENHEIM LTD.  
Northumberland Co., Va.**

Select Cut SMZ's  
Marked Trees Only

WOODS ROAD

Block 2  
Clear Cut Area

Select Cut SMZ's  
Marked Trees Only

DATE: 7 / 17 / 2017

Block 2A  
Clear Cut Area

Block 1B  
Clear Cut 2015-16

Block 1  
Clear Cut 2015-16

Block 6 A

Block 7

Block 1 A  
Clear Cut 2015-16

**TIMBER MARKETING & MANAGEMENT, INC.**  
Professional Forestry Consultants  
P.O. Box 396  
Chesterfield, VA 23837  
Ph: (804) 756-4922  
Fax: (804) 756-9693  
www.tmmva.com

WOODS ROAD

Block 8

TIMBER SALE SIGN  
at GATE

Declination  
MAGN  
GN 0.81° W  
MN 11.03° W

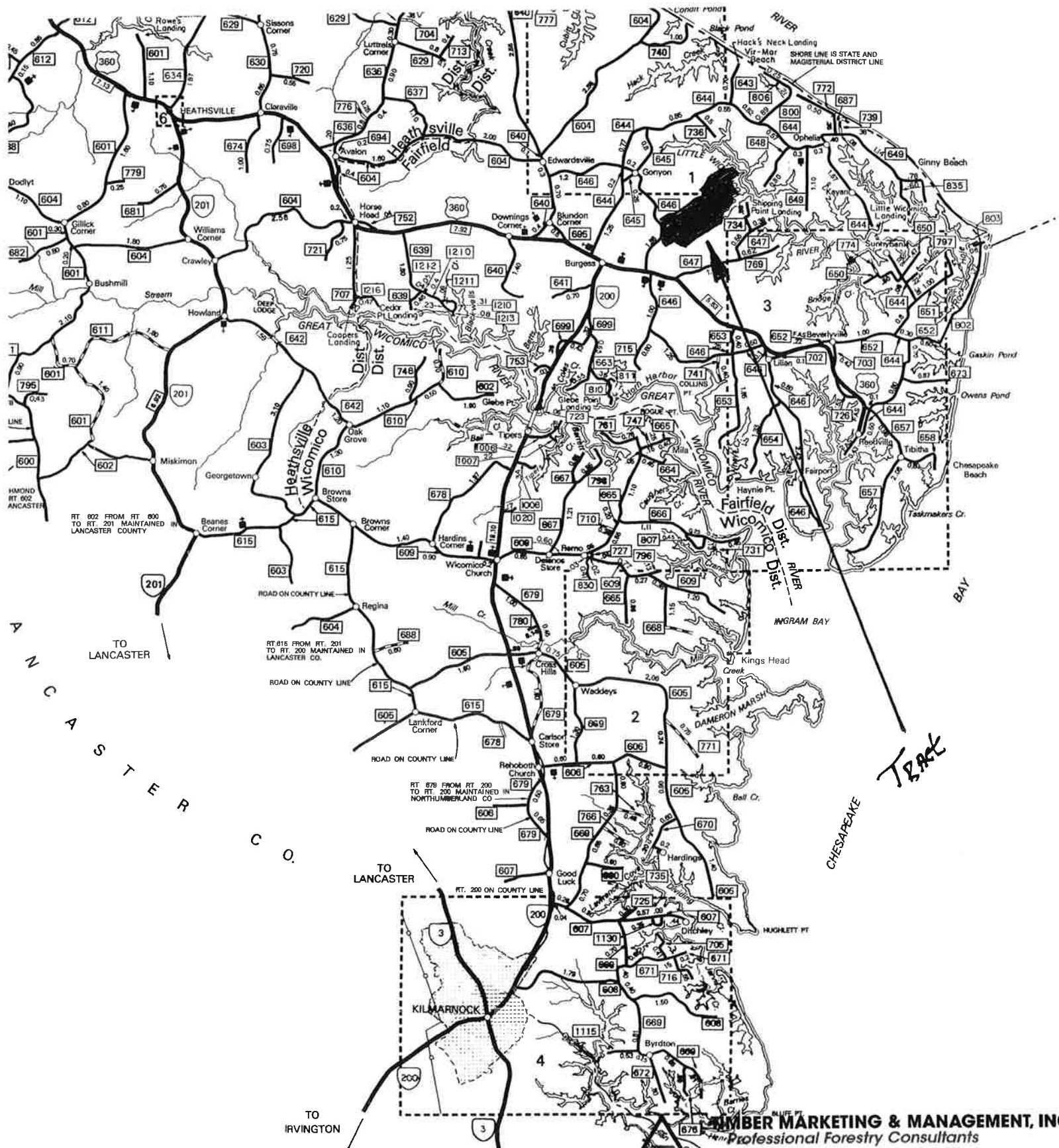
SCALE 1:7920





# BLENHEIM LTD.

## Northumberland co., Va.



**BLLENHEIM MARKETING & MANAGEMENT, INC.**  
Professional Forestry Consultants

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