TIMBER SALE PRESCRIPTION

GENERAL											
Date	20				Forest, Mineral and Fire Management Unit Pigeon RIver MU						
Jan. 24, 2008 Timber Sale Number (if applicable)					Sale Name (or prescription name)						
Timber Sale Num		ardwoods									
				LOCAL CONTACT Telephone							
Name Don Mittlest	tat	83 - 4101									
Email Address			r								
mittlesd@mic	chigan.gov	83 - 3957									
Map of Project Area Attached											
LEGAL DESCRIPTION											
T32N R1W Section(s) 13 Description S1/2; SENE 14 NESE											
Vear of Entry:		tmont(s).	27 Stand N	umber(s): 6 and 12							
Year of Entry: 2008 Compartment(s): 37 Stand Number(s): 6 and 12											
THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE											
Estimated Acres: 212 Source: OI GPS Other											
Payment will be made on the basis of these estimated acres.											
				EATMENT & OBJECT	IVE						
STAND #	COVER TYPE	ACRES	BA	TREATMENT		MANAGEMENT OBJECTIVE					
6	м9	110		Selection		Hardwoods					
12	М9	102	120	Selection	Northern	hardwoods					
				PRESCRIPTION							
1. Reduce	stand basal a	area to	80 square		e tree select	ion/crop tree release					
	techniques.		tached she		rk anv elm c	herry, hemlock, or other					
conifer		titt in	prace, ne		in any cim, c	incity, nemiter, or other					
3. Retain existing representation of all species currently within the stand.											
4. See attachment for further marking instructions. Access See attached map.											
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK ESTIMATED DATE											
NA						NA					
						<u> </u>					
CONTRACT WORK CAN BEGIN											
Immediately Date:											
CONTRACT WORK MUST BE COMPLETED BY Date August 15, 2008											

		PAINT LINE W	VORK						
⊠This is included in	the bid This is not	included in the	bid						
⊠ This is included in the bid □ This is not included in the bid Paint line work to be performed: (See attached map for locations)									
Private boundary			□ Blue	Other:					
Sale boundary	\square		🛛 Red	Other:					
Sale cutting unit			X Yellow	Other:					
Stand type line				Other:					
Exclusions to mark and why									
	ng lines against private l	and							
Not applicable.									
		AREA CALCUL	ATION						
⊠ This is included i	n the bid 🛛 This is not	t included in the	e bid						
UNIT	METHOD			STANDARD					
Sale	GPS String Chai	n 🗌 Other							
Payment Unit	GPS String Chai								
Stand	GPS String Chai								
Special Instructions	ÿ								
	_	ER CRUISING SP							
This is included in	n the bid 🗌 This is not	t included in the	e bid						
Required Basal Area	Factor: ⊠10 □20	Other:							
-									
Cruise Line Direction	ıs								
CRUISI	NG UNITS	NUMBER OF PL		SPACING (CHAINS)					
Stands 6 and 12		Approxima	tely .44	3 X 7					
				X					
				X					
				X					
TOTAL NUMBER	OF CRUISE POINTS	Appro	x. 94						
Cruise Special Instructions: Residual basal area will be required to be taken at each cruise lot. The number of cruise plots will be determined after the acreage has been determined. The cruise will be for pulpwood. Sawlogs will be 100% tallied. The cruise must keep Basswood, Oak and other hardwoods separate.									

Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.

⊠ This is included in the	TIMBER MARKING	SPECIFICATIONS the bid				
⊠ Precise specifications	to be delineated at pre-work me	eting with DNR staff				
Total Residual BA (Basal	Area): 80 (Minimum 70 to Ma	ximum <u>100</u>)				
TR	EATMENT	NUMBER	SIZE			
Regeneration Gaps Per A Girdled Trees Per Acre	cre	1 to 2 average An average of 4	30'to 60' crown			
PRODUCT	MARKING SYMBOL	MINIMUM DBH				
Sawlogs	Orange slash with dots	10 inches	8 inches			
Sawbolts	N/A	N/A	N/A			
Pulpwood	Orange slash	5 inches	4 inches			
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR			
Trees marked to leave			☐ Green ☐ Other			
Trees marked to cut			⊠Orange □Other			
		TENSITIES				
SPECIE	ES / PRODUCT	RATIO				
Sawlogs of all species		1 : 1				
		1:				
		1:				

SPECIES TO FAVOR

Leave best tree in place. If encountered leave some pockets of beech unmarked.

SPECIES TO Reduce

None

SPECIAL MARKING INSTRUCTIONS

If a stick nest is encountered see attached timber sale prescription Appendix. Do not mark in or near areas where Hemlock is present. Ask sale administrator for further information.

Unless otherwise specified, the tally sheets used must be those provided by the Forest, Mineral and Fire Management Unit.

RESTRICTIONS

- 1. Forest, Mineral and Fire Management Division must to be able to identify who did what on the timber sale.
- 2. The contractor may not have more than two markers in one payment unit without prior approval.
- 3. Each marker should have an assigned area to mark (not strips).

<u>PAINT</u>

- 1. Call Don Mittlestat or Rick McDonald at (989) 983 4101, to make arrangements for paint.
- 2. Paint will be supplied from Pigeon River Country Field Office.
- 3. Contractor's work schedule must coincide with the DNR work schedule for paint supply.
- 4. The DNR will not be available on weekends or evenings.

DELIVERABLES

- 1. A list of names that marked or cruised each payment unit.
- 2. A summary of paint used (in quarts).
- 3. Tally summaries for each payment unit (one summary, regardless of the number of markers) and all of the original tally sheets.
- 4. GPS files for any GPS work.

<u>Pigeon River Country Management Unit</u> <u>Timber Cruising Specifications</u>

- 1. Cruise at rate specified in the Timber Sale Preparation Prescription. This will be determined after the acreage determination. See contract administrator for number of plots needed after acreage determination.
- 2. Use a 10-factor prism.
- 3. Use the product standards to determine products and heights of products. Refer to product standards.
- 4. Mark location of plots on the map, using plot number.
- 5. Determine the residual BA of trees left on plot.
- 6. Unless otherwise agreed to by the contract administrator and the contractor, plot center will be marked by a stake or stick firmly inserted in the ground (not snow) with a ribbon attached to it at a height of not less than two feet above the ground, and labeled with the stand number and plot number. In addition ribbon at least 12 inches long must be attached to a tree closest to plot center.
- 7. All cruise sheets must have the compartment #, stand #, prism factor, date individual tree species, and the cruiser's name.

Pigeon River Country Management Unit Northern Hardwood Marking MARBLE HARDWOODS Stands 6 & 12

- Access for marking these stands is shown on attached map. The attached type map delineates the contract marking area. Avoid using dead or badly damaged trees – boundary trees must last for the duration of the timber sale (up to 3-4 years). Favor the use of reserved species such as cedar or oak. Avoid using small (fast-growing) stems and those exposed to direct sunlight. Marking must be done in dry weather and when tree surfaces are not wet. Paint the boundary line in such a way that it can be seen both from the inside of the sale area and when walking along the line from either direction (two sides). Each boundary line tree must be stump -marked, at the base of the stump (one side) between the roots extending all the way to the ground. Place marks approximately six feet above the base of the tree. The contractor will keep track of total quarts of paint used per-sale by color. The contractor will use a GPS unit to determine enclosed acreage to the nearest one-tenth acre, unless an alternative method is approved prior by Unit Management.
- 2. Select crop trees.
- 3. Crop trees are defined as trees which have the potential of making a grade one sawlog when they are harvested. A grade one sawlog is any tree capable of producing at least 16 feet of clear lumber. A crop tree can be ANY species of tree. Manage for the best tree in place at all times.
- 4. Locate 20 to 25 crop trees per acre spaced approximately 25 to 27 feet apart. In areas where 6" to 9" DBH trees predominate, the crop tree release will consist of creating a seven foot opening around the crown of the tree. This means that adjoining lesser quality dominants, co-dominants, and intermediates will have to be marked for removal. In areas where trees greater than 9" DBH predominate, the crop tree release will consist of removing the two nearest competitors from the dominant, co-dominant, and intermediate size classes.
- 5. After the crop tree has been selected and properly released, additional trees may have to be removed to reduce the basal area to the desired basal area. First remove high risk trees (esp. Eutypella canker) from the stand followed by trees from the subcanopy around the crop tree. (Commercial trees will be defined as any trees that contain at least one 100" sawlog or pulp stick.) Lastly, remove any other lesser quality intermediate and co-dominate tree from the stand to reduce the basal area to the desired basal area.
- 6. Create an average of one 30 foot regeneration gap per acre, except where high quality trees predominate. All trees one inch and greater in diameter must be marked in the regeneration gap. If pockets of advanced regeneration are found, these pockets should be released by removing surrounding trees. CREATE A 60 FOOT REGENRATION HOLE AROUND ANY OAK THAT IS MARKED TO BE CUT. USE THE MARKED OAK AS THE CENTER OF THE REGENERATION HOLE.
- 7. Do not mark obvious den trees or trees of declining vigor which may serve as future den trees. Leave all aspen of poor quality aspen for future wildlife trees. Mark an average of 4 trees per acre to girdle. These trees will marked with 2 horizontal paint marks completely around the tree.
- 8. Mark trees to cut on two opposite sides. Each tree marked to cut must be stump marked from ground level to at least 6 inches above the ground in a moss free area. Paint must also be applied to trees surfaces that are dry.
- 9. Do not mark within 100' of any raptor nest trees. Report these to the Contract Administrator as soon as possible and directions will be given at that time.
- 10. Marking of infrequently occurring species should be avoided. Consult the Contract Administrator for clarification.
- 11. Do not mark in areas where Hemlock is present or predominate. See Contract Administrator for further instructions.