



TIMBER SALE PRESCRIPTION

GENERAL

Date Jan. 24, 2008	Forest, Mineral and Fire Management Unit Pigeon River MU
Timber Sale Number (if applicable)	Sale Name (or prescription name) High Country Oak

LOCAL CONTACT

Name Don Mittlesd	Telephone (989) 983 - 4101
Email Address mittlesd@michigan.gov	FAX Number (989) 983 - 3957

Map of Project Area Attached

LEGAL DESCRIPTION

T32N R1W Section(s) 36 Description E1/2NW; E1/2SW, W1/2SE; NWNE

Year of Entry: 2008 Compartment(s): 43 Stand Number(s): 84

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 95 Source: OI GPS Other _____
Payment will be made on the basis of these estimated acres.

TREATMENT & OBJECTIVE

STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
84	O6	95	110	Thinning	Oak

PRESCRIPTION

1. Reduce stand basal area to 80 square feet using single tree selection/crop tree release marking techniques. Aspen will be clearcut in areas where it is dominate. These clearcuts should be at least 1 acre in size. See attached sheet.
2. Manage for the best tree in place, however, do not mark any elm, cherry, hemlock, or other conifers.
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

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date August 15, 2008

PAINT LINE WORK

This is included in the bid This is not included in the bid

Paint line work to be performed: (See attached map for locations)

TYPE OF LINE	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR	
Private boundary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Blue	<input type="checkbox"/> Other:
Sale boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

Exclusions to mark and why

Standards for marking lines against private land

Not applicable.

AREA CALCULATION

This is included in the bid This is not included in the bid

UNIT	METHOD	STANDARD
Sale	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Payment Unit	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions:

Sale map is to be produced at a scale of one inch to the ¼ mile. Four inches equals a mile.

TIMBER CRUISING SPECIFICATIONS

This is included in the bid This is not included in the bid

Required Basal Area Factor: 10 20 Other:

Cruise Line Directions

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stand 84	Approximately .67	3 X 5
		X
		X
		X
TOTAL NUMBER OF CRUISE POINTS	Approx. 64	

Cruise Special Instructions:

Residual basal area will be required to be taken at each cruise plot. The number of cruise plots will be determined after the acreage has been determined. The cruise will be for pulpwood and clearcut areas. Clearcut areas must have separate cruise sheets as well as GPS files. Sawlogs in the thinning part of the sale will be 100% tallied. The cruise must keep Aspen and Oak separate from other hardwoods.

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

TIMBER MARKING SPECIFICATIONS

This is included in the bid This is not included in the bid

Precise specifications to be delineated at pre-work meeting with DNR staff

Total Residual BA (Basal Area): 80 (Minimum 70 to Maximum 90)

TREATMENT	NUMBER	SIZE	
Regeneration Gaps Per Acre	See Contract Admin.		
Girdled Trees Per Acre	An average of 1	> 10"	
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
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	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Green <input type="checkbox"/> Other
Trees marked to cut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Orange <input type="checkbox"/> Other

TALLY INTENSITIES

SPECIES / PRODUCT	RATIO
Sawlogs of all species	1 : 1
	1 :
	1 :
	1 :

SPECIES TO FAVOR

Leave best tree in place. Leave some Aspen uncut. See Contract Administrator.

SPECIES TO Reduce

None

SPECIAL MARKING INSTRUCTIONS

If a stick nest is encountered see attached timber sale prescription Appendix. Ask sale administrator for further information.

Do not mark trees immediately next to the High country Hiking Trail.

Do not create an Aspen clearcut that the trail will pass through.

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).

PAINT

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.

Pigeon River Country Management Unit Timber Cruising Specifications

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 number, stand number, prism factor, date individual tree species, and the cruiser's name.

Pigeon River Country Management Unit
OAK THINNING
HIGH COUNTRY OAK
Stand 84

1. 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 sub-canopy 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. Clearcut Aspen in areas where it is dominant. These areas must be at least one acre in size. Each of these areas must be GPS’D.
7. Do not mark obvious den trees or trees of declining vigor which may serve as future den trees. Mark an average of 1 tree per acre to girdle. These trees will be marked with 2 horizontal paint marks completely around the tree. Ask Contract Administrator about girdling.
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. The High Country Pathway and a spur going to Towncorner Lake pass through the stand. Do not mark trees immediately next to the trail or have the trail go through one of the aspen clearcuts.