



TIMBER SALE PRESCRIPTION

GENERAL	
Date 9/29/2010	Forest, Mineral and Fire Management Unit Shingleton Management Unit
Timber Sale Number (if applicable)	Sale Name (or prescription name) Compartment 181 Contractors

LOCAL CONTACT	
Name Jeff Stampfly	Telephone (906) 452 – 6227 ext 240
Email Address stampflj@michigan.gov	FAX (906) 452 - 6584

Map of Project Area Attached

LEGAL DESCRIPTION
T47N R17W Section(s) 23,35 Description 23-NW1/4,S1/2SW1/4; 35-N1/2NW1/4
Year of Entry: 2011 Compartment(s):181 Stand Number(s): 11,12,13,26

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 173 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
11	M6	50	90	Selection	Northern Hardwoods
12	M6	30	100	Selection	Northern Hardwoods
13	M6	63	120	Selection	Northern Hardwoods
26	M6	30	120	Selection	Northern Hardwoods

PRESCRIPTION
<ol style="list-style-type: none"> 1. Establish all paint lines as indicated on the attached map. All paint lines must be located using a GPS in accordance with the sale preparation contract. 2. Mark all stands according to specifications listed in the Compartment 181 Contractors Prescription Appendix, timber marking specifications, and specific details obtained at the pre-work meeting. 3. Cruise all stands according to specifications listed in the Compartment 181 Contractors Prescription Appendix, timber cruising specifications, and specific details obtained at the pre-work meeting.
<p>Access: H-15 north to H-58, northeast on H-58 4.5 miles to Melstrand Truck Trail, then about ½ mile. Access stand 26 is best through the Sunrise Grade from the West. The private land in between stands 13 and 26 is owned by the Forest Land Group, and it is the responsibility of the contractors to obtain permission from them to cross their land.</p>

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
n/a	

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date **08/01/2011**

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/> Yellow <input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Other:

Exclusions to mark and why

Stands 13 and 26 occur along private land and will need blue paint. Stand 13's southern border requires blue paint boundary line and stand 26's northern border requires blue paint boundary line.

See the appendix for documented survey corners listed in the survey records. Vernal ponds may exist in stands 11 and 12, which should be excluded from marking and avoided.

Standards for marking lines against private land

Use existing survey corners to run a line as accurately as possible against private land, and then correct as needed. Marking lines against private land are to be painted in blue paint.

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	See contract requirements
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	See contract requirements
Stand	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	See contract requirements

Special Instructions:

GPS all paint lines. Area must be determined for each individual payment unit using a GPS unit consistent with contract specifications. GPS files must be compatible with Arcview or Pathfinder Office Software and all GPS files must be sent to the local contact by CD or e-mail.

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 East-West

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stand 11-unit 1	1.1	3 X 3
Stand 12-unit 2	0.83	3 X 4
Stand 13-unit 3	0.83	3 X 4
Stand 26-unit 4	1.1	3 X 3
TOTAL NUMBER OF CRUISE POINTS	157**	

Cruise Special Instructions:

- Each unit must be recorded on a separate cruise card so volume can be determined by unit.
 - Each cruise plot must be identified on the ground. A map showing the location of these cruise plots must be turned in. Scale on map must be 1:15840.
 - Residual basal area by species must be tallied at each cruise plot. Borderline residual trees do not have to be measured, but every other borderline residual tree should be counted.
 - Do not cruise trees which were marked with an "X" designating log trees. There will be a 100% tally on log trees marked with an "X".
 - Species grouping: mixed hardwood pulpwood (maple, yellow birch, and cherry pulpwood) any beech and ash must be tallied separately and mixed aspen pulpwood (quaking and bigtooth). All other trees must be cruised by species.
 - No hemlock, oak or cedar will be cut. These species should be counted as residual basal area.
- **Cruise plots may decrease or increase depending on actual GPS acres.

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 Merchantable Residual BA (Basal Area):

Stand 11: 60 (Minimum 50 to Maximum 70)

Stand 12: 70 (Minimum 60 to Maximum 80)

Stands 13 and 26: 80 (Minimum 70 to Maximum 90)

TREATMENT	NUMBER	SIZE
Regeneration Gaps Per Acre	3-5	30 ft in diameter
Girdled Trees Per Acre	n/a	n/a

PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	"X" on 2 sides, 6 feet up, and 1 dot per 8 ft log	11.1 inches	10 inches
Pulpwood	Slash on 2 sides, 6 feet up	4.6 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 – All sawlogs will be tallied by species to a 10 inch DIB top.	1 : 1
Sawlog sized pulpwood (to 10 inch DIB) – tallied by species	1 : 1
All pulpwood trees	No tally see cruising instructions.

SPECIAL MARKING INSTRUCTIONS

- Additional pulpwood volume larger than 10 inches, top DIB, occurring in sawlog trees must be recorded on tally cards supplied by the Local Contact.
- Avoid marking during wet weather conditions, or when tree boles are damp. Paint must last for the duration of the timber sale.
- Each unit must be tallied and summarized separately.
- DO NOT MARK ANY WHITE PINE, HEMLOCK, OAK OR CEDAR FOR HARVEST.
- Look for beech bark resistant trees and may leave up to 10 percent of the residual basal area in beech.

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

RESTRICTIONS

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

PAINT

- Call Jeff Stampfly at (906) 452 - 6227, to make arrangements for paint.
- Paint will be supplied from Shingleton.
- Contractor's work schedule must coincide with the DNR work schedule for paint supply.
- The DNR will not be available on weekends or evenings.

DELIVERABLES

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

Compartment 181 CONTRACTORS TIMBER SALE PRESCRIPTION APPENDIX

When establishing paint lines:

- Avoid using dead or badly damaged trees – boundary trees must last for the duration of the timber sale (up to 5-6 years).
- Favor the use of reserved species such as hemlock, oak or lesser occurring species.
- Avoid using small (fast-growing) stems and those exposed to direct sunlight.

When Registered Corners or Witness Trees are discovered:

- Any wooden posts encountered at corners must also be painted/protected.
- Bearing and/or witness trees discovered during the course of sale preparation must be protected. This can be accomplished by painting a ring completely around the tree at 4-6 feet above ground level with either red paint (corner surrounded by state lands) or blue paint (corner on private property boundary line). In addition, tying ribbon on these trees helps alert loggers to their presence. Do not mark any trees for harvest if cutting them is likely to result in damage to corner monuments and/or bearing trees.
- Please report the condition of all corners, posts and bearing trees to the local contact.
- Documented survey corners; corner common to sections 22, 23, 26, and 27; ¼ corner in between sections 23 and 26; corner common to sections 27, 26, 35, and 34; ¼ corner in between sections 26 and 35.

Stand(s) 11,12,13,26 Units 1-4 Management Objective All Aged Northern Hardwoods (Mark to Cut)

When marking, prioritize selection of trees to be cut in the following order:

1. Stand 11 target BA is 60 with an acceptable range of 50-70 BA.
2. Stand 12 target BA is 70 with an acceptable range of 60-80 BA.
3. Stands 13 and 26 target BA is 80 with an acceptable range of 70-90 BA.
4. Release suitable crop trees. (Refer to [The Complete Marker](#) for crop tree specifications.)
5. Areas of poor hardwoods should be heavily thinned to stimulate a large amount of regeneration. Within stands 11 and 12 make larger gaps to stimulate early successional species
6. When appropriate, try to increase the number of lesser occurring species such as yellow birch, hemlock and white pine. Local contact can provide an explanation of this priority.
7. Remove high-risk and poor quality trees.
8. Apply beech bark disease guidelines as appropriate. The local contact can supply these guidelines.
9. Maintain target basal area.
10. Maintain all species diversity.

Reserved Species:

- No hemlock, Oak or Cedar can be marked. Avoid marking other trees if harvesting them is likely to result in damage to these reserved species.
- Marking of infrequently occurring species should be avoided. Consult the local contact for clarification.
- Leave 2-4 large, live cull trees per acre for den trees and soft snag production. Reserved tree species may also be used for this purpose. These should be well distributed.
- Do not mark within 100' of any raptor nest trees. Report these to the local contact as soon as possible and directions will be given at that time.

The contractor should contact Jeff Stampfly, Unit Manager, at the Shingleton Field Office, PO Box 67, M-28, Shingleton, MI 49884 (906) 452-6227 once the contract is awarded so a local contact can be assigned. Approximately 1 week prior to beginning work, the contractor will notify the local contact to arrange an on-site meeting to discuss the details of these prescriptions. Paperwork should be completed and all of the necessary reports submitted to the Unit secretary as soon as possible after the fieldwork is complete.