



TIMBER SALE PRESCRIPTION

GENERAL

Date 01-10-2011	Forest, Mineral and Fire Management Unit Cadillac
Timber Sale Number (if applicable) 63-015-11-01	Sale Name (or prescription name) 7 Red Pine

LOCAL CONTACT

Name Cheryl Nelson	Telephone (231) 745 - 4651 X6942
Email Address nelsonc6@michigan.gov	FAX (231) 745 - 8743

Map of Project Area Attached

LEGAL DESCRIPTION

T19N R11W Section(s) 2, 4, 11, 20, 21; also T20N R11W Sec. 33 Description See map.

Year of Entry: 2011 Compartment(s):7 Stand Number(s): 2, 3, 7, 31, 64, 71, 77, 80, 84, 87

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 269 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
2	R6	22	171-200	Clearcut	Planted Red Pine
3	R6	15	141-170	Systematic Thinning	Planted Red Pine
7	R6	32	141-170	Crown Thinning	Planted Red Pine
31	R6	21	111-140	Crown Thinning	Planted Red Pine
64	R6	14	141-170	Clearcut	Planted Red Pine
71	R9	28	141-170	Low Thinning	Planted Red Pine
77	R6	43	141-170	Clearcut w/Reserves	Mixed Northern Hardwoods
80	J6	34	171-200	Low Thinning	Planted Red Pine
84	R6	26	141-170	Low Thinning	Planted Red Pine
87	R6	34	171-200	Low Thinning	Planted Red Pine

PRESCRIPTION

- Stand 2: Clearcut stand. No retention for easy movement of planting equipment.
- Stand 3: Cut all jack pine. Mark to thin red pine to an average BA of 110sf.
- Stand 7: Mark to thin red pine to an average BA of 110sf.
- Stand 31: Cut all jack pine. Mark to think red pine to an average BA of 90sf.
- Stand 64: Clearcut stand. No retention for easy movement of planting equipment.
- Stand 71: Mark to thin red pine to an average BA of 110sf.
- Stand 77: Clearcut with reserves. Focus retention along slopes.
- Stand 80: Mark to thin red pine to an average BA of 130sf.
- Stand 84: Mark to thin red pine to an average BA of 110sf.
- Stand 87: Mark to thin red pine to an average BA of 130sf.

Unless noted, all stands will follow retention guidelines which will be discussed with the DNR Forester at the pre-work meeting.

Access See map.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Private lines will be painted by the DNR.	May 1, 2011

CONTRACT WORK CAN BEGIN

Immediately Date: May 1, 2011

CONTRACT WORK MUST BE COMPLETED BY Date : August 31, 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 type="checkbox"/>	<input checked="" 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 checked="" 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****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 checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Stand	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions:

GPS units must be compatible with ArcView or Pathfinder software. A CD of the traverse shapefile (.shp), and/or corrected file (.cor), must be supplied to the DNR office.

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)
All	1	3 X 3
		X
		X
		X
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

Cruise all sawlogs to an 9.0" top (DOB), and all pulpwood to a 4.5" top (DOB).

Point sample method cruising for all products and species.

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 3: 110 (Minimum 100 to Maximum 120)
- Stand 7: 110 (Minimum 100 to Maximum 120)
- Stand 31: 90 (Minimum 80 to Maximum 100)
- Stand 71: 110 (Minimum 100 to Maximum 120)
- Stand 80: 130 (Minimum 120 to Maximum 140)
- Stand 84: 110 (Minimum 100 to Maximum 120)
- Stand 87: 130 (Minimum 120 to Maximum 140)

TREATMENT	NUMBER	SIZE
Regeneration Gaps Per Acre	N/A	
Girdled Trees Per Acre	N/A	

PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DOB
Sawlogs	Slash at DBH, see #2 below	10.0 inches	9.0 inches
Sawbolts			
Pulpwood	Slash at DBH, see #2 below	4.6 inches	4.5 inches

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input type="checkbox"/>	<input 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
	1 :
	1 :
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

- 1) Stand/boundary trees shall be marked red at DBH with a "V" that is visible on 3 sides and the point of the "V" facing the sale area. Corners within the sale should be marked with 3 well-defined vertical "V" 's.
 - 2) Paint cut trees orange at DBH with a slash on two sides (that is visible from all sides), and a stump mark.
- Also see attached appendix.

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 Cheryl Nelson at (231) 745 - 4651 X6942, to make arrangements for paint.
2. Paint will be supplied from Baldwin.
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.