



TIMBER SALE PRESCRIPTION

GENERAL

Date 1/09/2009	Forest, Mineral and Fire Management Unit Cadillac
Timber Sale Number (if applicable) 63-019-09-01	Sale Name (or prescription name) Pioneer Hardwood

LOCAL CONTACT

Name David Fisher	Telephone (231) 824 - 9080
Email Address fisherdj@michigan.gov	FAX (231) 824 - 9340

Map of Project Area Attached

LEGAL DESCRIPTION

T24N R7W Section(s) 2, 12, 25 Description various

Year of Entry: 2009 Compartment(s): 122, 116 Stand Number(s): (122) 8, 41, 52, 56, 59 (116) 69

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 115 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
8	M6	9	111-140	selection	Northern Hardwoods
41	M6	35	141-170	selection	Northern Hardwoods
52	M6	10	111-140	selection	Northern Hardwoods
56	M6	9	111-140	selection	Northern Hardwoods
59	M6	9	111-140	selection	Northern Hardwoods
69	M6	43	81-110	selection	Northern Hardwoods

PRESCRIPTION

1. Target residual BA of 80 for all stands.
2. All aspen and ironwood to be removed by spec. No marking for these species.
3. Leave all snags and den trees. Under-Represented Species should be retained.
4. When possible, release pockets of advanced hardwood regen by creating an overhead canopy gap.
5. Refer to the "Compleat Marker" for marking in pole- sized stands.
- 6.
- 7.
- 8.
- 9.
- 10.

Access See attached map.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Private line	04/01/2009

CONTRACT WORK CAN BEGIN

Immediately Date: 04/01/2009

CONTRACT WORK MUST BE COMPLETED BY Date 09/04/2009

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 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"/>	<input type="checkbox"/> Other:

Exclusions to mark and why

NA.

Standards for marking lines against private land

NA.

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:

GPS data must be differentially correct and provided in either ESRE.SHP or Trimble .COR format. Position Mode must be set so that GPS receiver collects data from a minimum of four satellites. PDOP mask must not exceed 7.

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** TBD at pre-work meeting.

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
stands 8,41,52,56,59 and 69	1 point / acre	3 X 3
		X
		X
		X
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

Cruise all aspen and ironwood.

Cruise all aspen sawlogs to an 8" top (dib)

Cruise all marked pulpwood that will yield at least one 8' pulp stick to a 4" top (dib).

All other hardwood sawlogs to be total tree tallied.

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): 80 (Minimum 70 to Maximum 90)

TREATMENT	NUMBER	SIZE	
Regeneration Gaps Per Acre	1 per acre	30' crown opening	
Girdled Trees Per Acre	N/A	N/A	
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	2 slashes w/dots	10"	8"
Sawbolts	NA	NA	NA
Pulpwood	one slash	4.6"	4"

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
Hardwood sawlogs	1 : 1
	1 :
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

Follow guidelines in the Compleat Marker.
 Mark for best tree in place.
 Avoid marking under-represented species, they will be retained to maintain diversity.

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 David at (231) 824 - 3591, to make arrangements for paint.
2. Paint will be supplied from Manton 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.