



TIMBER SALE PRESCRIPTION

GENERAL

Date 03/05/2008	Forest, Mineral and Fire Management Unit Gladwin Management Unit
Timber Sale Number (if applicable) 73-019-08-01	Sale Name (or prescription name) South Bentley

LOCAL CONTACT

Name Mike Hanley	Telephone (517) 243-2028
Email Address hanleym@michigan.gov	FAX (989) 426-1454

Map of Project Area Attached

LEGAL DESCRIPTION

T17N R2E Section(s) 20, 29 & 32

Year of Entry: 2008 Compartment(s): 85 Stand Number(s): 14, 24, 30, 38, 48 & 125

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 119 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
14	A5	27	60	Shelterwood - Seed	Swamp Hardwoods
24	E6	27	90	Delayed - Removal	Swamp Hardwoods
30	E6	18	110	Selection	Swamp Hardwoods
38	E9	13	110	Selection	Swamp Hardwoods
48	A5	18	70	Shelterwood - Seed	Swamp Hardwoods
125	A6	16	100	Final Harvest	Aspen

PRESCRIPTION

- **Stand 14:** Aspen Removal: Cruise but do not mark Aspen. Where needed mark to cut Ash and Red Maple to facilitate logging of Aspen and meet target residual of 20 BA/AC.
- **Stand 24:** Aspen Removal: Cruise but do not mark Aspen. Where needed mark to cut Ash and Red Maple to facilitate logging of Aspen and meet target residual of 70 BA/AC.
- **Stand 30:** Aspen Removal: Cruise but do not mark Aspen. Where needed mark to cut Ash and Red Maple to facilitate logging of Aspen and meet target residual of 70 BA/AC.
- **Stand 38:** Aspen Removal: Cruise but do not mark Aspen. Where needed mark to cut Red Maple to facilitate logging of Aspen and meet target residual of 60 BA/AC.
- **Stand 48:** Aspen Removal: Cruise but do not mark Aspen. Where needed mark to cut Red Maple to facilitate logging of Aspen and meet target residual of 30 BA/AC.
- **Stand 125:** Final Harvest: Cruise all merchantable stems.
- **Access:** Via Pinconning Road, Swinson Road, Deer Road and various state two tracks.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
DNR staff to run all private property lines	04/15/2009

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date 09/15/2008

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

Exclusions to mark and why

Standards for marking lines against private land

N/A

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	PDOP ≤ 7
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	PDOP ≤ 7
Stand	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	PDOP ≤ 7

Special Instructions:

Contractor must GPS all stands and/or payment units seperately. Contractor must also provide a GPS file and hard copy of each stand printed at a scale of 1:15,840. See map for location and color of lines to be GPS'd.

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 North-South or East-West

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stands 14, 24, 30, 38, 48 and 125	1	Evenly spaced
TOTAL NUMBER OF CRUISE POINTS	119 (approximately)	

Cruise Special Instructions:

- Total number of cruise points is estimate, based on estimated acres. Actual number should be based on 1 plot per acre, for acreage determined by GPS.
- Contractor **MUST** show plot locations for each stand on their GPS stand boundary map. Plot locations do **NOT** need to be GPS'd.
- It is preferred that contractor use DNR tally sheets. Contractor may use their own tally sheets, with approval by Gladwin Forest Management Unit.
- For stands 14, 24, 30, 38 and 48 **ALL CRUISE POINTS MUST SHOW RESIDUAL BA** by 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): Varies by stand. See prescription section.

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre			
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	Slash visible from all sides	10" Diameter Class	8" Diameter Class
Sawbolts			
Pulpwood	Slash visible from all sides	5" Diameter Class	4" Diameter Class

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

SPECIAL MARKING INSTRUCTIONS

For all stands Michigan DNR retention guidelines must be followed. Contractor will be required to mark and GPS a minimum of 3% and a maximum of 10% of the stand area as retention. Retention may require marking leave trees with green paint, individually and/or in small groups. Implementation of the retention guidelines will be discussed on a stand by stand basis at the pre work meeting.

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 Mike Hanley at (517) 243 - 2028, to make arrangements for paint.
2. Paint will be supplied from Gladwin 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.