



TIMBER SALE PRESCRIPTION

GENERAL

| | |
|--|---|
| Date 2/3/2009 | Forest, Mineral and Fire Management Unit Gladwin Management Unit |
| Timber Sale Number (if applicable) 73-006-09-01 | Sale Name (or prescription name) Little Molasses |

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

NW¼ & NE¼, SW¼ & N ½, SE ¼, & SE¼, SE ¼ of Sec 19 S½, NW¼ & SW¼ & NW¼, SE¼ of Sec 20
S½, NE¼ & N½, SE¼ & SE¼, SE¼ of Sec 21 of T18N R02E

Year of Entry: 2009 Compartment(s): 71 Stand Number(s): 1, 8, 11, 15, 31, 41, 51, 56, 76 & 85

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 191 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 |
|---------|------------|-------|----|---------------|----------------------|
| 1 | A6 | 34 | -- | Final Harvest | Aspen |
| 8 | A6 | 16 | -- | Final Harvest | Aspen |
| 11 | A5 | 19 | -- | Final Harvest | Aspen |
| 15 | R9 | 15 | -- | Thinning | Red Pine |
| 31 | M9 | 22 | -- | Selection | Northern Hardwoods |
| 41 | A6 | 5 | -- | Final Harvest | Aspen |
| 51 | P6 | 9 | -- | Final Harvest | Aspen |
| 56 | P6 | 14 | -- | Final Harvest | Aspen |
| 76 | O8 | 26 | -- | Seed Tree | Jack Pine |
| 85 | O8 | 23 | -- | Final Harvest | Oak |

PRESCRIPTION

- Stands 1, 8, 11, 41, 51, 56 & 85:** Mark islands to leave represented species with red paint to meet retention guidelines.
- Stand 15:** Mark to cut every third row of Red Pine. Mark end of tree rows, and enough additional trees to ensure logger can follow row.
- Stand 31:** Aspen and ash removal: do not mark these species. Mark additional trees with orange paint for removal where necessary to enable operability of equipment.
- Stand 76:** All Jack Pine will be retained. Mark to leave Oak to retain 10 BA/AC.
- Access:** Via Deer Road, Grim Road and various state two tracks.

| DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK | ESTIMATED DATE |
|--|----------------|
| DNR will mark all private (blue) line. | 1 / 31 / 09 |
| | |
| | |

CONTRACT WORK CAN BEGIN

Immediately Date: _____

CONTRACT WORK MUST BE COMPLETED BY Date 07 / 31 / 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 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: |

DNR to paint all blue lines in sale.

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 separately. Contractor must also provide a GPS file and hard copy of each stand. 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 N/A

| CRUISING UNITS | NUMBER OF PLOTS PER ACRE | SPACING (CHAINS) |
|--------------------------------------|--------------------------|------------------|
| | | |
| | | |
| | | |
| | | |
| TOTAL NUMBER OF CRUISE POINTS | | |

Cruise Special Instructions: DNR to cruise all stands.

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. See individual stand prescriptions for retention details. Contractor must GPS leave islands. Implementation of the retention guidelines will be discussed on a stand by stand basis at the pre work meeting.

Where possible focus retention along hiking trail in Stands 31 & 51. Portions of stand 31 are very wet. These wet areas, along the northern and eastern edges of the stand, can also be used for retention

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.