



# TIMBER SALE PRESCRIPTION

## GENERAL

Date 08/01/2011	Forest, Mineral and Fire Management Unit Naubinway
Timber Sale Number (if applicable) <b>45-101-11-01</b>	Sale Name (or prescription name) Gravy Pine AKA Red Pine Measurement Block Test A

## LOCAL CONTACT

Name Don Kuhr	Telephone (906) 341-2518
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**Map of Project Area Attached**

## LEGAL DESCRIPTION

T42N R6W Section(s) 1 Description

Year of Entry: 2011 Compartment(s):103 Stand Number(s): 27

## THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 80 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
27	R9	40	130	Final Harvest	Red Pine

## PRESCRIPTION

- The cover is RP.
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- All the RP are designated for harvest. In addition, there are a few white pine, white spruce and paper birch.
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**Access** Town Line Rd.

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 30 days from PO issue

**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 type="checkbox"/>	<input type="checkbox"/> Blue	<input type="checkbox"/> Other:
Sale boundary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 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:**

**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**    The plots have already been established.    The plot locations and numbering is shown on page 4.

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
East Forty	1	N/A X N/A
		X
		X
<b>TOTAL NUMBER OF CRUISE POINTS</b>	40	

**Cruise Special Instructions:**

Temporary plots have been established. Plot center is a wooden stake sticking out at least 4" above the ground, flagged, painted, numbered and easy to see. Additional flagging has been placed overhead so the plot may be easily located. All trees, whether 'cut' or 'leave', which are 'in' using a Limiting Distance Table with a Basal Area Factor of 10 have been marked. Marking consists of a horizontal line (about 6") at dbh and a tree number anywhere on the tree, but clearly visible from plot center. Tree numbers start at 1 for each plot. Every 4<sup>th</sup> tree is marked in a different color which can be ignored for this test.

Azimuth and distance to the center of the tree at the base from the plot center have been recorded along with species. This information will be provided to you by the DNR in an Excel format. When trees are near the edge of the stand, the 'walkthrough' method (Ducey et al 2004) was used to determine 'in' trees. Trees 'in' from the 'walkthrough' method have been counted twice, have two numbers painted on the tree and are listed twice on the Excel spreadsheet.

Using the tree data in the spreadsheet, cruise each tree on the plot according to the following procedure. An example of the data and tally card is shown on page 5. The entire spreadsheet will be emailed to the winning bidder.

DBH: Measure Diameter at Breast Height (DBH) in the location marked on each tree. Round down to the nearest 10<sup>th</sup>. Use a d-tape, or the average of a caliper where two measurements are taken at 90°.

H<sub>S</sub>(1'): Measure height for the sawtimber portion of the tree in feet to a 9" Diameter Outside Bark (DOB) or to the sawlog stopper (see Product Standards and Cruising Manual). Round down to the nearest 1'. Minimum DBH is 9.1". If a tree has no sawtimber portion record H<sub>S</sub> as 0 (do not leave blank). This may occur on a tree with no 8' minimum log (9.1" tree with a fork at 6') or has no quality (9.1" tree with branches all the way to the ground). Use a Wheeler Pentaprism®, Laser Ace®, Gator Eyes® or similar device to determine the 9" location on the stem and a clinometer, Relaskop, Laser Ace® or similar device to determine H<sub>S</sub>.

L<sub>DS</sub>: Length of deduct in the sawtimber portion of the tree recorded to the nearest 1'. This is the length of defect between a 1' stump and H<sub>S</sub>1'. This may be in one section or multiple sections, but is recorded as one number. If in multiple sections, add the sections together and record one number. The minimum length for a sawlog is 8'. There is no maximum length. See Product Standards and Cruising Manual for information on deduct

L<sub>DSR</sub>: Length of deduct in the sawtimber portion of the tree that is recoverable for pulpwood recorded to the nearest 1'. The minimum length for recoverable pulpwood is 8'. There is no maximum length. For example, if there is a (H<sub>S</sub> =)30' sawlog section in a tree with a 10' long section in the middle of it that is defective (L<sub>DS</sub> = 10'), 9' of which could be a pulp log, then L<sub>DSR</sub> = 9'.

H<sub>4</sub>(1'): Measure height of the tree in feet to a 4" Diameter Outside Bark (DOB). Round down to the nearest 1'. This can be, but is not necessarily the merchantable height. Record height to a 4" DOB regardless of the location of the pulpwood stopper (denoted as H<sub>P</sub>). Use a Wheeler Pentaprism®, Laser Ace®, Gator Eyes® or similar device to determine the 4" location on the stem and use a clinometer, Relaskop, Laser Ace® or similar device to determine H<sub>4</sub>. If there is a pulpwood stopper (See Product Standards and Cruising Manual), also record the height to the location of the pulpwood stopper, H<sub>P</sub>(1') to the nearest 1'; use a clinometer, Relaskop, Laser Ace® or similar device to determine H<sub>4</sub>.

L<sub>P4</sub>: Length of deduct in the pulpwood portion of the tree recorded to the nearest 1'. This is the length of defect between the H<sub>S</sub> and H<sub>4</sub> (or H<sub>P</sub>, if H<sub>4</sub> ≠ H<sub>P</sub>). This may be in one section or multiple sections, but is recorded as one number. If in multiple sections, add the sections together and record one number. The minimum length for pulpwood is 8'. There is no maximum length. See Product Standards and Cruising Manual for information on deduct.

In addition to the tree measurements, you must track your time conducting this test. If you are using a portable data recorder, this could be used for time tracking. Time starts when you leave your truck to begin measurement and ends when you return to your truck. If you take breaks or lunch in the woods, then stop your time at the beginning of each break and start when you resume work. This is an important attribute of our test so it is important that you remember to start and stop your time appropriately.

**Tally sheets will be provided by the DNR. Output from an electronic data recorder is acceptable.**

**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):** \_\_\_\_\_ (Minimum \_\_\_\_\_ to Maximum \_\_\_\_\_)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre			
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs			
Sawbolts			
Pulpwood			

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

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
	1 :
	1 :
	1 :
	1 :

**SPECIAL MARKING INSTRUCTIONS**

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

**RESTRICTIONS**

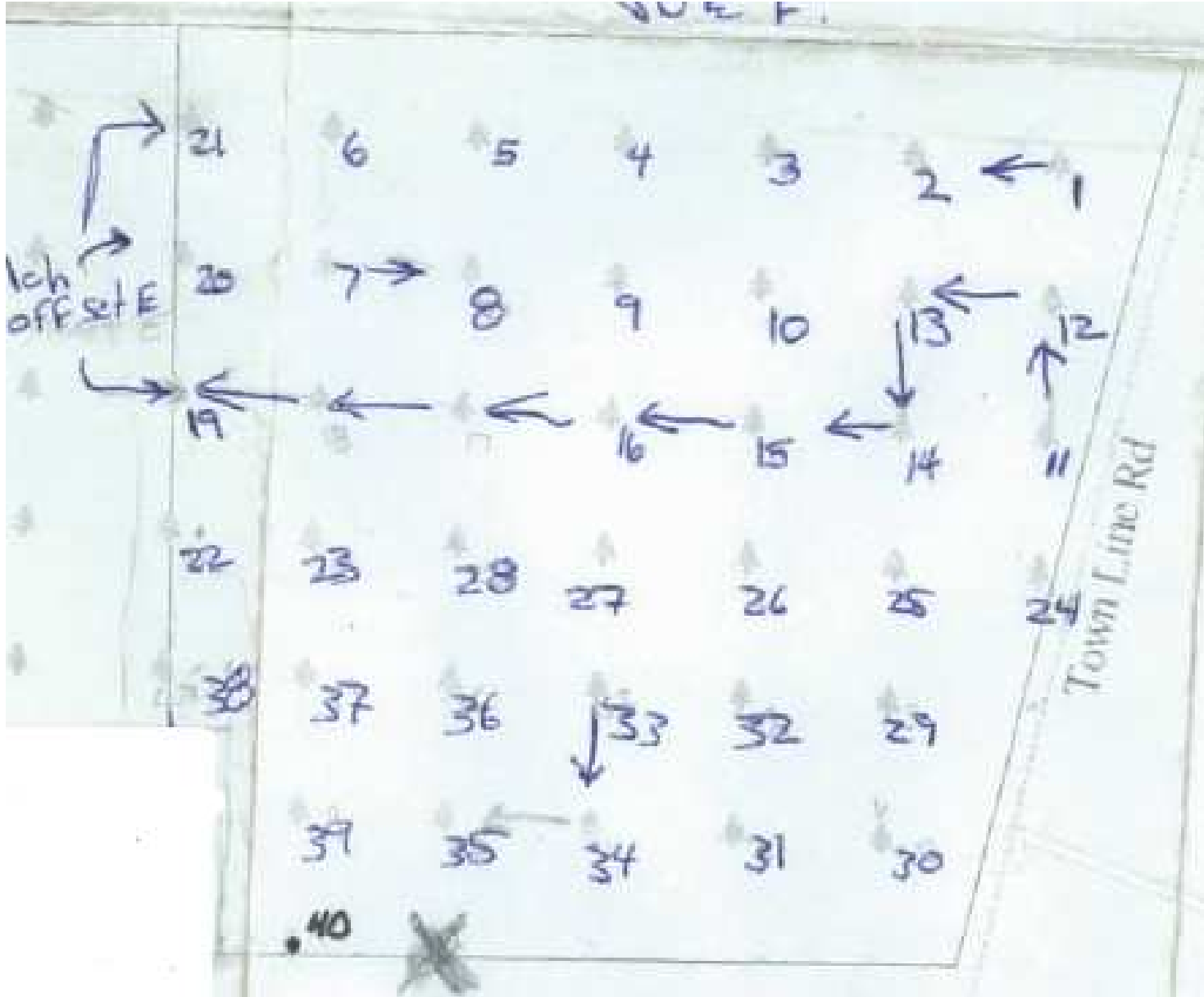
1. Forest Management Division must be able to identify who did what on the timber sale.
2. This work is to be performed by one person.

**PAINT**

1. None needed.

**DELIVERABLES**

1. The name of the person that did the cruising.
2. Tally from each plot in the Excel spreadsheet provided by the DNR.



Plot #	Tree #	Species	Azimuth	Dist.	DBH	H <sub>s</sub> 1'	L <sub>DS</sub>	L <sub>DSR</sub>	H <sub>p</sub> 1'	H <sub>4</sub> 1'	L <sub>D4</sub>
1	1	RP	36	19.2							
1	2	RP	52	22.8							
1	3	RP	59	18.3							
1	4	RP	82	38.4							
1	5	RP	103	31.4							
1	6	RP	164	33.8							
1	7	RP	168	18.6							
1	8	RP	180	27.8							
1	9	RP	210	20.1							
1	10	RP	215	30.9							
1	11	RP	290	39.2							
1	12	RP	299	34.5							
1	13	RP	305	17.3							
1	14	RP	340	18							
1	15	RP	350	24							
2	1	RP	16	36.4							
2	2	RP	48	6.2							
2	3	RP	100	30.4							
2	4	RP	117	12.4							
2	5	RP	118	31							
2	6	RP	165	10.8							
2	7	RP	165	23.9							
2	8	RP	190	27.1							
2	9	RP	199	39.8							
2	10	RP	215	20.7							
2	11	RP	229	36.1							
2	12	RP	264	30.8							
2	13	RP	323	31.6							
2	14	RP	349	37.3							
2	15	RP	351	22.5							
3	1	RP	21	35.8							
3	2	RP	26	28.2							
3	3	RP	63	31.9							
3	4	RP	140	23.6							
3	5	RP	160	36.5							
3	6	RP	186	31.3							
3	7	RP	201	33							
3	8	RP	265	32.4							
3	9	RP	296	38.4							
3	10	RP	333	40.7							