

# Beltrami County NRM Timber Appraisal

# 2240 51

<b>Appraised By:</b> Corey Campbell	<b>Sale Type:</b> REGULAR AUCTION SALE	<b>Appraisal Number:</b> TS Blank Space
<b>Appraisal Date:</b> 08/07/2024	<b>Auction Date:</b> 12/05/2024	<b>Permit Number:</b> 224051
	<b>Access:</b> Public Access	<b>Expiration Date:</b> 12/05/2026

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**Legal Description**

<u>RE Code</u>	<u>Sec.</u>	<u>Twp.</u>	<u>Rge.</u>	<u>School</u>	<u>City/Twp</u>	<u>Subd</u>
200023500	22	146	35	31	Jones	SW 1/4 of SE 1/4

<u>Bid</u>	<u>Species</u>	<u>Volume</u>	<u>Units</u>	<u>Unit Price</u>	<u>Value</u>	<u>Comments</u>	<u>Bolt %</u>
Bid	Red Pine bolts	500	Cords	\$40.00	\$20,000.00	19" Avg. DBH	
Bid	Red Pine pulp	12	Cords	\$8.00	\$96.00		
Bid	Aspen pulp	450	Cords	\$25.00	\$11,250.00	12" Avg. DBH 5-6 stick	
AE Non-Bid	Birch Pulp & Bolts	15	Cords	\$10.00	\$150.00		
AE Non-Bid	Balsam Pulp & Bolts	15	Cords	\$10.00	\$150.00	Includes 5 cords of white spruce	
					\$31,646.00	<b>Subtotal</b>	
<b>Total Cords: 992 Total MBF: 0</b>					\$31,646.00	<b>Total</b>	
					\$4,746.90	<b>15% Down Payment</b>	

Bid Symbols: Bid = Bid Species; Non-Bid = Non-Bid Species; Area Est. = Sold Area Estimate; AE Non-Bid = Sold Area Estimate & Non-Bid Species

All species woodsrun unless listed otherwise.

**Species Scaled:** Aspen pulp, Red Pine bolts, Red Pine pulp

**Species SAE:** Balsam Pulp & Bolts, Birch Pulp & Bolts

<b>Operability:</b> Firm or frozen ground	<b>Soil Type:</b> fine sandy loam
<b>Topography:</b> flat to slightly rolling	
<b>Acres:</b> 28	

**DRAIN**

<b>Type:</b> REGULAR AUCTION SALE	<b>Acres Cut:</b> 28.00
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Total: 28.00

**Harvest Specifications**

Access
Sale is located in the Bear Den Canoe Road area approximately 1 mile east of CSAH 5, and left at the first "Y". Coordinates: -95.108, 47.446

Cutting and Skidding
Sale is one block but two distinct portions or halves. The west half of stand is an aspen clearcut with reserves; the east half of the stand is an older, natural red pine stand to be clearcut with reserves.

Harvest and Reserves
Blue paint boundary. ORANGE painted reserve trees (mostly NP). *Ignore blue painted rings on trees. Reserve all oaks, white pine, dead, den, and non-hazardous snags. Reserve as many non-merchantable conifer species as possible (red pine, white pine, balsam fir, spruce), especially along roadway.

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Timber Appraisal**

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**Landings, Access Roads, and Skid Trails**

Main forest road in the Bear Den Canoe area runs through sale and has recreational value. Locate landing off of the road and minimize slash along roadway.

**Site, Soil, and Water Protection**

Small seasonal wetland is painted out in the west half of the sale in the aspen portion. Along the south edge the hill drops off to a black spruce swamp, minimize scarification along this edge.

**Slash Disposal**

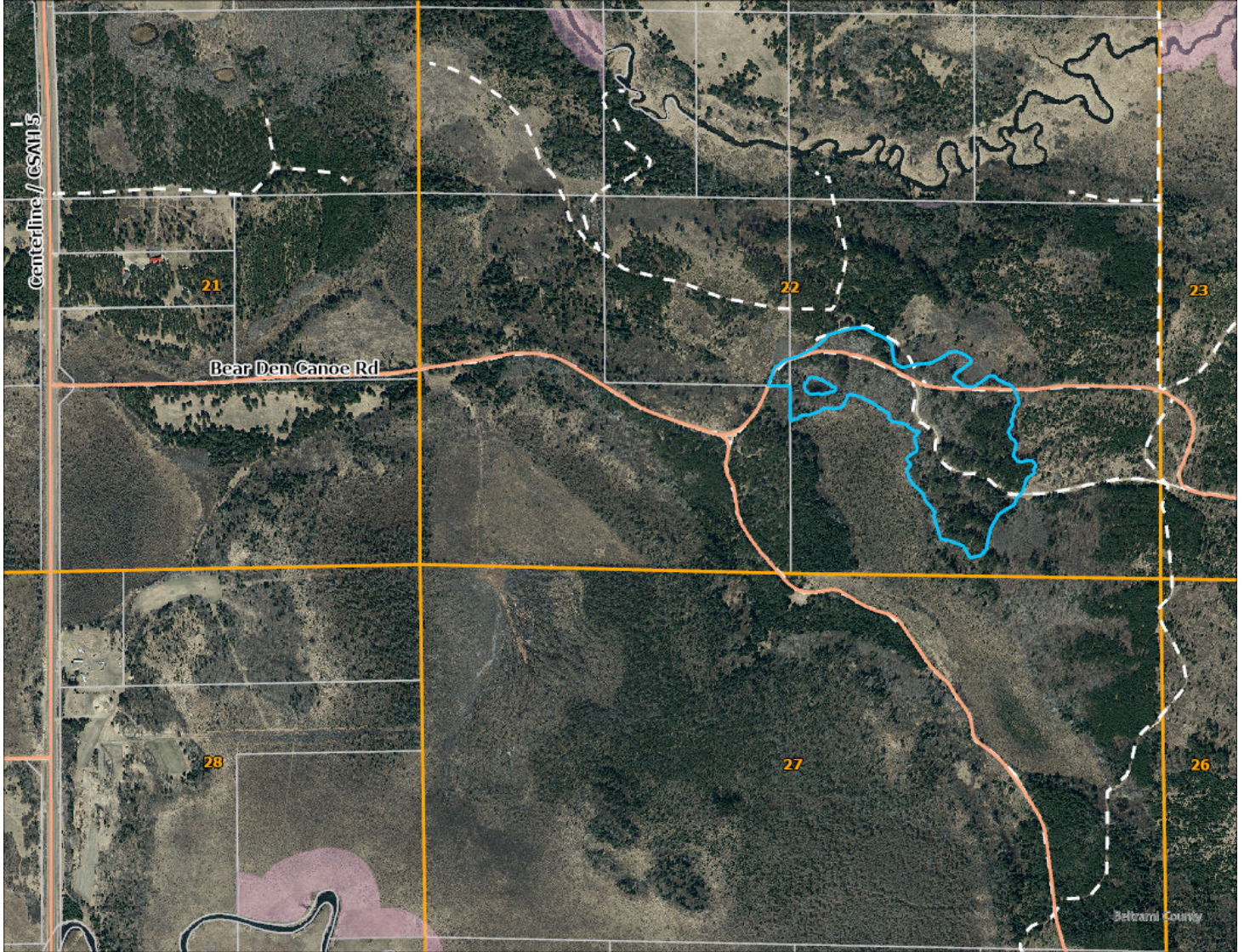
Scatter slash. Minimize slash along the main roadway.

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### Site Map:



Appraisal examined and approved by \_\_\_\_\_  
Forester Date

Appraisal examined and approved by \_\_\_\_\_  
Land Department Date

# STAND HARVEST PRESCRIPTIONS

<b>Timber Sale Name:</b>	TS Blank Space
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<b>Description:</b>	
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<u>RE Code</u>	<u>Sec.</u>	<u>Twp.</u>	<u>Rge.</u>	<u>School</u>	<u>City/Twp</u>	<u>Subd</u>
200023500	22	146	35	31	Jones	SW 1/4 of SE 1/4

<b>Block:</b>	1
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<b>Stand Details</b>	
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Section	Township	Range	Timber Type	Acres	Stand Age	NPC	Harv Meth Desc
22	146	35	12	28	46	FDc34	Clear Cut w/Reserves

<b>*NPC</b>	FDc34 - Central Dry-Mesic Pine-Hardwood Forest
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No Basal Data

<b>Current Site Conditions</b>	Current CTYPE is aspen, with SI 80, and overall BA of 130 sq.ft./ac.
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<b>Timber Objectives</b>	Stand is 46 year-old aspen with a component of red pine and white spruce. Silvicultural objective is a clearcut with reserves, as stand is at rotation age and is tall and large diameter. This stand and adjacent pine stand will be replanted with a mix of conifers to fit the site.
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<b>Regeneration</b>	Site will be replanted with a mix of red and white pine.
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<b>Wetlands</b>	Small seasonal wetland in aspen block is painted out. No operations in wetland, minimize scarification nearby.
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<b>Soil Types</b>	Balmlake fine sandy loam
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<b>Environmental Impact</b>	Harvest will occur under firm or frozen conditions to minimize impact.
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<b>Visual Sensitivity</b>	Medium - Visual ranking is moderate on this site, Visual quality protected by a combination of buffers, landing placement, harvest design (leave trees or harvest shape), slash disposal limit near roads, etc. Main forest road in the Bear Den Canoe area runs through sale and has recreational value. Sale design will help protect some visual aesthetics, and overall goal of harvest and replant will be for long term reforestation of the site.
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<b>Natural Heritage</b>	Database was checked and no resources found.
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<b>Cultural Resources</b>	Database was checked and no resources found.
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<b>Block:</b>	2
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<b>Stand Details</b>	
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Section	Township	Range	Timber Type	Acres	Stand Age	NPC	Harv Meth Desc
			52		113	FDc34	Intermediate Thin

<b>*NPC</b>	FDc34 - Central Dry-Mesic Pine-Hardwood Forest
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No Basal Data

<b>Current Site Conditions</b>	Current CTYPE is red pine, with SI 50, and overall BA of 150 sq.ft./ac.
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<b>Timber Objectives</b>	Stand is 113 year-old red pine with a component of aspen and balsam fir. Silvicultural objective is to clearcut with reserves and replant with a mix of red and white pine. This stand is very large diameter and height, and is older than typical rotation age, and most likely would not respond well to another thinning. Live crown ratio, overall health, and visual crown inspection shows that most of the stand is probably in decline.
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<b>Regeneration</b>	Site will be replanted with a mix of red and white pine.
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\* Cited from: MNDNR (2003). Field Guide to the Native Plant Communities of Minnesota: the Laurentian Mixed Forest Province. Ecological Land Classification asdfasdf

# STAND HARVEST PRESCRIPTIONS



## STAND HARVEST PRESCRIPTIONS

<b>Wetlands</b>	No wetlands within sale.
<b>Soil Types</b>	Balmlake fine sandy loam
<b>Environmental Impact</b>	Harvest will occur under firm or frozen conditions to minimize impact.
<b>Visual Sensitivity</b>	Medium - Visual ranking is moderate on this site, Visual quality protected by a combination of buffers, landing placement, harvest design (leave trees or harvest shape), slash disposal limit near roads, etc. Main forest road in the Bear Den Canoe area runs through sale and has recreational value. Sale design will help protect some visual aesthetics, and overall goal of harvest and replant will be for long term reforestation of the site.
<b>Natural Heritage</b>	Database was checked and no resources found.
<b>Cultural Resources</b>	Database was checked and no resources found.

# STAND HARVEST PRESCRIPTIONS

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## **Harvest Methods**

### **Clear Cut w/Reserves**

retain marked or designated trees or clumps (Clear Cut)

### **Intermediate Thin**

Thin as designated (Thinning)