

# Beltrami County NRM Timber Appraisal

<b>Appraised By:</b> Corey Campbell	<b>Sale Type:</b> REGULAR AUCTION SALE	<b>Appraisal Number:</b> Air Fryer Aspen NP
<b>Appraisal Date:</b> 01/23/2024	<b>Auction Date:</b> 04/04/2024	<b>Permit Number:</b> 224014
	<b>Access:</b> Public Access	<b>Expiration Date:</b> 04/04/2026

**Legal Description**

RE Code	Sec.	Twp.	Rge.	School	City/Twp	Subd
200000100	1	146	35	31	Jones	SE 1/4 NE 1/4
150014500	6	146	34	31	Grant Valley	NW 1/4 SW 1/4
200001100	1	146	35	31	Jones	NW 1/4 SE 1/4
150013900	6	146	34	31	Grant Valley	NE 1/4 NE 1/4
150013900	6	146	34	31	Grant Valley	NE 1/4 NE 1/4

Block 1 Species	Volume	Units	Unit Price	Value	Comments	Bolt %	Bid
Aspen pulp	750	Cords	\$25.00	\$18,750.00	2-6 stick, 10.5 avg DBH		^
Red Pine Pulp & Bolts	75	Cords	\$28.00	\$2,100.00		70	^
Jack Pine Pulp & Bolts	40	Cords	\$20.00	\$800.00			^
Mixed Hardwoods	80	Cords	\$10.00	\$800.00	85% Bur oak, small amount of birch, ash, maple		+
White Spruce Pulp & Bolts	5	Cords	\$10.00	\$50.00	Includes 1 cord of balsam fir		+
				\$22,500.00	<b>Subtotal</b>		
<b>Total Cords: 950 Total MBF: 0</b>				\$22,500.00	<b>Total</b>		
				\$3,375.00	<b>15% Down Payment</b>		

Bid Symbols: ^ = Bid Species; # = Non-Bid Species; + = Sold Area Estimate; \* = Sold Area Estimate & Non-Bid Species  
All species woodsrun unless listed otherwise.

**Species Scaled:** Aspen pulp, Jack Pine Pulp & Bolts, Red Pine Pulp & Bolts  
**Species SAE:** Mixed Hardwoods, White Spruce Pulp & Bolts

**Operability:** Firm or frozen ground      **Soil Type:** loamy sand  
**Topography:** flat  
**Acres:** 44

**DRAIN**

**Type:** REGULAR AUCTION SALE      **Acres Cut:** 44.00

Total: 44.00

**Harvest Specifications**

Access
Sale is located in NE corner of Jones Township and NW corner of Grant Valley Township. Forest roads and old pipeline run through sale blocks. Accessible from Northwoods Rd NW or Buttercup Ln NW. Coordinates: -95.057222 47.491962
Cutting and Skidding
Sale is primarily an aspen clearcut with reserves across multiple blocks; one block is an intermediate pine thin. Cut all species listed on appraisal. Reserve clumps of non-merchantable ash, birch, and balsam where possible.

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## Harvest and Reserves

Blue paint boundary. Reserve all white pine, elm, blue painted trees, dead & den trees, and non-hazardous snags. Block #1 – Aspen clearcut w/blue painted reserves. Block #2 - Aspen clearcut w/blue painted reserves. Block #3 – Red pine intermediate thin w/blue painted leave trees. Block #4 – Aspen w/small amount of jack pine, clearcut w/blue painted reserves. Block #5 – Aspen w/small amount of jack pine, clearcut w/blue painted reserves.

## Landings, Access Roads, and Skid Trails

Road network through most of sale blocks. Blocks #4 & #5 are located on either side of Enbridge pipeline, with county forest roads/trails in each direction. County will provide 150 yards of gravel or equivalent material for roads. Use any preexisting skid trails and landings. Private land adjacent to Block #2, if private wood is harvested during keep all piled wood and landings separate.

## Site, Soil, and Water Protection

Wetlands present in and around various blocks. Block #1 is very low lying, should be harvested during frozen or very dry, firm conditions. Block #4 has wetland adjacent to SW corner of stand, minimize scarification along edge. Block #5 has RMZ along west edge and is flagged with pink ribbon, only harvest aspen and jack pine within RMZ.

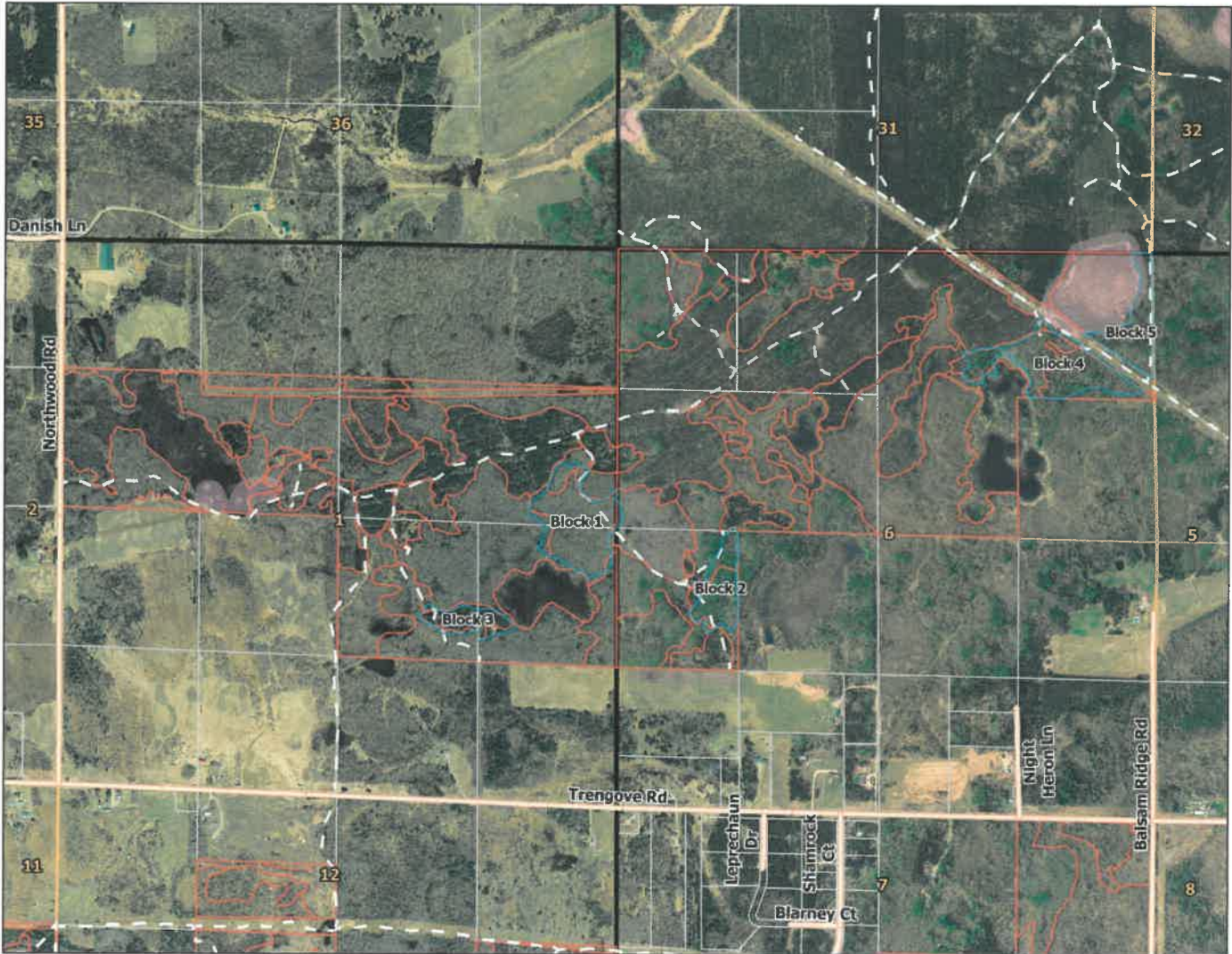
## Slash Disposal

Scatter slash.

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**Site Map:**



Appraisal examined and approved by

*Corey Campbell*  
Forester

*2/15/24*

Date

Appraisal examined and approved by

*Richard A. Moon*  
Land Department

*2/16/24*

Date

## STAND HARVEST PRESCRIPTIONS

<b>Timber Sale Name:</b> Air Fryer Aspen NP							
<b>Description:</b>							
<b>RE Code</b>	<b>Sec.</b>	<b>Twp.</b>	<b>Rge.</b>	<b>School</b>	<b>City/Twp</b>	<b>Subd</b>	
200000100	1	146	35	31	Jones	SE 1/4 NE 1/4	
150014500	6	146	34	31	Grant Valley	NW 1/4 SW 1/4	
200001100	1	146	35	31	Jones	NW 1/4 SE 1/4	
150013900	6	146	34	31	Grant Valley	NE 1/4 NE 1/4	
150013900	6	146	34	31	Grant Valley	NE 1/4 NE 1/4	
<b>Block:</b>		1					
<b>Stand Details</b>							
<b>Section</b>	<b>Township</b>	<b>Range</b>	<b>Timber Type</b>	<b>Acres</b>	<b>Stand Age</b>	<b>NPC</b>	<b>Harv Meth Desc</b>
1	146	35	12	13	49	MHn44	Clear Cut w/Reserves
<b>*NPC</b>		MHn44 - Northern Wet-Mesic Boreal Hardwood-Conifer Forest					
No Basal Data							
<b>Current Site Conditions</b>		Current CTYPE is aspen, with SI 74, and overall BA of 130 sq.ft./ac. Aspen stand with small components of bur oak and birch, very homogenous and tall.					
<b>Timber Objectives</b>		Stand is a 49 year-old aspen. Silvicultural objective is a clearcut with reserves to harvest aspen and regenerate the site through root suckering.					
<b>Regeneration</b>		Aspen root suckering will regenerate the stand.					
<b>Wetlands</b>		No wetlands present within sale boundary. Wetland adjacent to west edge of stand, topography is very low lying in this block, should be harvested during frozen or very dry, firm conditions.					
<b>Soil Types</b>		Morph fine loamy sand					
<b>Environmental Impact</b>		Harvest will occur under firm or frozen conditions to minimize impact.					
<b>Visual Sensitivity</b>		There are no visual concerns for this harvest area.					
<b>Natural Heritage</b>		Database was checked and no resources found.					
<b>Cultural Resources</b>		Database was checked and no resources found.					
<b>Block:</b>		2					
<b>Stand Details</b>							
<b>Section</b>	<b>Township</b>	<b>Range</b>	<b>Timber Type</b>	<b>Acres</b>	<b>Stand Age</b>	<b>NPC</b>	<b>Harv Meth Desc</b>
6	146	34	12	6	50	FDc23	Clear Cut w/Reserves
<b>*NPC</b>		FDc23 - Central Dry Pine Woodland					
No Basal Data							
<b>Current Site Conditions</b>		Current CTYPE is aspen, with SI 69, and overall BA of 130 sq.ft./ac. Mixed aspen stand with a wide range of size and diameter, and small components of bur oak and birch.					
<b>Timber Objectives</b>		Stand is a 50 year-old aspen. Silvicultural objective is a clearcut with reserves to harvest aspen and regenerate the site through root suckering.					
<b>Regeneration</b>		Aspen root suckering will regenerate the stand.					
<b>Wetlands</b>		Small seasonal wetland present on east edge of block, no operations in wetland, minimize scarification in filter strip.					

## STAND HARVEST PRESCRIPTIONS

<b>Soil Types</b>	Karlstad loamy sand Hamre muck
<b>Environmental Impact</b>	Harvest will occur under firm or frozen conditions to minimize impact.
<b>Visual Sensitivity</b>	There are no visual concerns for this harvest area.
<b>Natural Heritage</b>	Database was checked and no resources found.
<b>Cultural Resources</b>	Database was checked and no resources found.
<b>Block:</b>	3

<b>Stand Details</b>							
Section	Township	Range	Timber Type	Acres	Stand Age	NPC	Harv Meth Desc
1	146	35	52	4	69	FDc23	Intermediate Thin
<b>*NPC</b>		FDc23 - Central Dry Pine Woodland					

No Basal Data

<b>Current Site Conditions</b>	Current CTYPE is red pine, with SI 74, and overall BA of 110 sq.ft./ac. Older red pine stand that must have been planted but never thinned. Many tall, straight trees of various diameters, and overly dense in areas.
<b>Timber Objectives</b>	Stand is a 69 year-old red pine. Silvicultural objective is an intermediate thinning, removing many of the declining trees, while retaining individuals with good live crown, and a target residual basal area of 50-60 sq ft per acre. Stand appears to have never been thinned resulting in dense, overcrowded stand with many trees visibly declining and having weak crown.
<b>Wetlands</b>	No wetlands present within sale boundary.
<b>Soil Types</b>	Andrusia loamy sand
<b>Environmental Impact</b>	Harvest will occur under firm or frozen conditions to minimize impact.
<b>Visual Sensitivity</b>	There are no visual concerns for this harvest area.
<b>Natural Heritage</b>	Database was checked and no resources found.
<b>Cultural Resources</b>	Database was checked and no resources found.
<b>Block:</b>	4

<b>Stand Details</b>							
Section	Township	Range	Timber Type	Acres	Stand Age	NPC	Harv Meth Desc
6	146	34	12	13	55	FDc23	Clear Cut w/Reserves
<b>*NPC</b>		FDc23 - Central Dry Pine Woodland					

No Basal Data

<b>Current Site Conditions</b>	Current CTYPE is aspen, with SI 76, and overall BA of 130 sq.ft./ac. Aspen stand with components of bur oak and jack pine.
<b>Timber Objectives</b>	Stand is a 55 year-old aspen. Silvicultural objective is a clearcut with reserves to harvest aspen and regenerate the site through root suckering.
<b>Regeneration</b>	Aspen root suckering will regenerate the stand.
<b>Wetlands</b>	Wetland adjacent to south edge of stand, topography is low lying in this block, should be harvested during frozen or very dry, firm conditions. Blue paint line is along filter strip, minimize scarification.
<b>Soil Types</b>	Andrusia loamy sand

## STAND HARVEST PRESCRIPTIONS

<b>Environmental Impact</b>	Harvest will occur under firm or frozen conditions to minimize impact.						
<b>Visual Sensitivity</b>	There are no visual concerns for this harvest area.						
<b>Natural Heritage</b>	Database was checked and no resources found.						
<b>Cultural Resources</b>	Database was checked and no resources found.						
<b>Block:</b>	5						
<b>Stand Details</b>							
<b>Section</b>	<b>Township</b>	<b>Range</b>	<b>Timber Type</b>	<b>Acres</b>	<b>Stand Age</b>	<b>NPC</b>	<b>Harv Meth Desc</b>
6	146	34	12	6	66	FDc23	Clear Cut w/Reserves
<b>*NPC</b>	FDc23 - Central Dry Pine Woodland						
<b>No Basal Data</b>							
<b>Current Site Conditions</b>	Current CTYPE is jack pine, with SI 61, and overall BA of 100 sq.ft./ac. Aspen stand with components of aspen, bur oak, and birch. Old jack pine stand, could be considered an aspen stand. Appears to have deteriorated over time and converted itself to aspen and hard woods; a few clumps of jack pine and some larger older red pine are present.						
<b>Timber Objectives</b>	Stand is a 66 year-old jack pine and aspen. Silvicultural objective is a clearcut with reserves to harvest aspen and regenerate the site through root suckering.						
<b>Regeneration</b>	Aspen root suckering will regenerate the stand.						
<b>Riparian</b>	RMZ is present along the west edge and northwest corner of the stand. RMZ is flagged in pink ribbon, harvest all aspen and jack pine within flagged area, reserve all other species. Total flagged RMZ is approximately 1 acre.						
<b>Soil Types</b>	Andrusia loamy sand						
<b>Environmental Impact</b>	Harvest will occur under firm or frozen conditions to minimize impact.						
<b>Visual Sensitivity</b>	There are no visual concerns for this harvest area.						
<b>Natural Heritage</b>	Database was checked and no resources found.						
<b>Cultural Resources</b>	Database was checked and no resources found. Wetland polygon directly west of the sale has an archaeological feature at the Enbridge pipeline right of way, in the marsh. No operations outside of blue paint boundary, access and hauling will likely be from the east and opposite this area.						

# STAND HARVEST PRESCRIPTIONS

## Harvest Methods

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

retain marked or designated trees or clumps (Clear Cut)

### **Intermediate Thin**

Thin as designated (Thinning)

# Prevention Techniques for Bark Beetles

Applies to thinning, road building, or construction operations and blow-down in pine stands and plantations during any time of year:

- Avoid wounding the living, residual pines.
- Slash smaller than 2-3 inches in diameter can be left in the stand if scattered and not piled. Do not lop off the green branches.

**Safest and easiest**

## If cutting occurs from September 1 to November 30:

May leave slash on site

**Risky for bark  
beetles and blue  
staining of cut  
products**

## If cutting occurs from December 1 to May 31

All cut pine material > 3 inches and pine logs must be removed or destroyed before **June 1**.

**Very risky**

## If cutting occurs from June 1 to August 31

All cut pine material > 3 inches and pine logs must be removed or destroyed **within 3 weeks** of being created.