

IDAHO PANHANDLE NATIONAL FORESTS

2450
Commercial Sales - Proposed

04-2420-01

CARPENTER THIN

STARS # 08107

TIMBER SALE REPORT
AND
APPRAISAL

CDA RIVER RANGER
DISTRICT

SUPERVISOR'S OFFICE

Prepared _____
Date

Reviewed for Advertisement

By _____

Date _____.

By _____

Reviewed _____
Date

By _____.

By _____

Reviewed _____
Date

By _____

I herby certify that this sale meets
the requirements of Secretary's
Regulation 36 CFS 223.30.

Staff Officer, Timber

Carpenter Thin Timber Sale Report

I. Location

This timber sale is located in the Rock and Carpenter Gulch drainages (in a portion of sections 5, 6, 7, and 8, T49N, R4E, and a portion of sections 31 and 32, T50N, R4E, B.M.) within the lower section of Beaver Creek. The timber sale area is 1100 acres in size within Shoshone County, Idaho. The timber stand atlas compartment number is 187 and 188, Coeur d'Alene River Ranger District, Idaho Panhandle National Forests. Harvest is planned on 50 acres.

II. Relationship to the Environmental Document and Other Uses

This sale is prepared under the direction of the Carpenter Thin Decision Memo, approved by the District Ranger on July 8, 2008. The objective of this timber sale is to improve long term forest health by promoting existing healthy western larch. Commercial thinning, followed by selected areas of fuels treatments, would reduce competition and favor western larch over the long term.

The Carpenter Thin DM identified 57 acres of commercial thinning with 15 acres of grapple pile and burn, 6 acres of jackpot burning, 12 acres of top attached yarding, and 24 acres of lop and scatter fuels treatments. On the ground implementation will be for 50 acres of commercial thinning with 11 acres of grapple piling, 12 acres of top attached yarding and 27 acres of lop and scatter fuels treatments. Differences on the ground are based on unit 4 being much smaller than originally planned, thus jackpot burning was dropped since the unit was too small for economic burning, and more accurate acreage determination on other units.

The DM allowed for approximately 1000 feet of temporary road construction. Approximately 1100 feet of temporary road will be constructed and obliterated with the implementation of this timber sale.

A. Relationship to Private Land/Rights-of-Way: There is no private property near any of the harvest units. There are no rights-of-way agreements needed to access this project area.

B. Threatened, Endangered and Sensitive Species: No evidence of goshawk or flammulated owl usage was discovered during sale layout or preparation. Protection measures will still be added to C6.24# of the timber sale contract in the event that a flammulated owl or goshawk nest is encountered during sale operations. The proposed treatment is not expected to adversely affect T&E or sensitive plant or animal species per the biological assessment and evaluations.

C. Wetlands/Streamside Habitats: No-harvest streamside buffers were implemented along stream channels within the sale area per Inland Native Fish standards to meet Riparian Management Objectives.

D. Special Uses, Mining Claims, Range Allotments: There are no active mining claims, special use permits, or range allotments within the timber sale area.

E. Noxious Weeds: Purchaser will be required to wash off-road equipment prior to moving into the sale area in accordance with C6.351# of the timber sale contract.

F. Cultural Resources: No known cultural resource sites will be impacted by sale activities. The timber sale contract will contain provision C6.24# which will provide protection in the event that a new site is discovered.

G. Other: The #933 road behind the gate is a summer ATV route. All purchaser operations will be prohibited during weekends and holidays during the seasonal ATV use period. Currently the period runs from Memorial Day to Labor Day but this may change to April 1 to Labor Day sometime during this contract period. This restriction will be in effect at 4:30 pm on the day prior to the weekend or holiday. Log haul will be prohibited on weekends and holidays yearround. Purchaser operations will be prohibited during the winter recreational period of 12/1 to 3/31, unless agreed by local grooming board. No felling or skidding operations during the spring period of 4/1 to 6/30 to minimize damage to residual trees. The gate(s) on the #933 road will be required to be closed with passage of each vehicle.

H. Old Growth: No harvest will occur within stands allocated to old growth management. There are stands currently allocated to old growth management east of unit 1 and between units 1 and 2.

I. Roadless: The sale area does not lie within or adjacent to any roadless area.

III. Timber Volumes

The timber sale was marked and cruised during the summer of 2008. The cruise is #08107 and dated 8/11/2008. The sale was sample tree cruised. This sale is offered as weight-scaled under \$95,000 in appraised value. Forest Service standards require that the cruise be less than a 30% error for scaled sales in this value range. The sampling error for this sale is 10.11%. This timber sale was cruised as a single strata. The temporary road right-of-way was marked and cruised and included in the tractor unit volume.

Non-sawlog roundwood material, including small trees and topwood, is required removal under this timber sale contract. Roundwood trees in the 6 inch diameter class were marked for removal. Smaller size classes were not marked.

The following table summarizes sale acreage, and estimated timber volumes by species, and logging system by unit:

Volumes are in CCF

Unit	Acres	Type	GF	DF	L	WP	LP	H	C	Sawlog	Non-Sawlog	Total	Logging System
1	9	CTM	50	22	17	3	5	55	20	172	21	193	Skyline
2	3	CTM	26	16	2	6	3	3	3	59	5	64	Skyline
3A	8	CTM	76	39	22	13	12	2	25	189	21	210	Tractor
3B	29	CTM	177	116	58	38	13	38	137	577	67	644	Skyline
4	1	CTM	12	5	1	0	0	0	0	18	1	19	Cable
corridor			9	5	2			2	5	23		23	Skyline
Total	50		350	203	102	60	33	100	190	1038	115	1153	-
MBF	-		187	105	52	33	18	49	87	531	58	589	-
Tons	-		1084	650	331	183	98	325	431	3102	333	3435	-

This sale will be offered on a weight scale basis. The following sawlog weight factors were used for this sale in lbs/cubic foot: DF-60, L-62, GF-59, LP-56, H-62, WP-56, C-43. This resulted in a conversion factor of 2.98 tons per ccf for the sale as a whole including roundwood.

IV. Marking Plan

This sale contains 5 harvest units. All units are individual cut tree marked (CTM). Cut trees are designated with a **BLUE** bole stripe and **BLUE** stump mark. Unmarked dead trees are required to be left standing, unless needed to be felled for safety. The cutting unit boundaries are designated by **ORANGE** tags stapled to boundary trees with an **ORANGE** stump mark.

V. Logging Plan

This sale will require skyline (80%), tractor (18%), and cable (2%). The average skyline yarding distance is 1000 feet with a maximum reach of approximately 1200 feet. Profiles show that intermediate supports are expected to be needed for several sets in unit 1 and unit 3B. The average tractor yarding distance is approximately 300 feet with a maximum skid of approximately 600 feet.

Tractor skid trails will be required to be a minimum of 100 feet apart. Skid trails can be closer if skidding on a slash mat associated with processor/forwarder equipment. Purchaser should highbank down to the main road and the temporary road as much as possible to minimize the need for skid trails, especially the narrow strip between the roads before they separate. Purchaser should avoid adverse skidding up the ridge in unit 3A to avoid creating a trail that ATV's may try to utilize. The stand was intentionally left thicker in this area to reduce risk of off-road motorized use. Skidding should be back down to the temporary road. Material should be skidded down the ridge to the west. Skid trails will be required to be rehabilitated under provision C6.632# and areas of ground disturbance seeded under C6.601#.

Mechanized felling (in-woods processor) will be permitted in unit 2, 3A, and the eastern tip of unit 3B on slopes less than 45 percent, provided the equipment is operating on a slash mat. Hand felling will be required in all other areas. Mechanized felling equipment may need to walk back out corridors in sloped areas to minimize soil displacement.

Unit 4 was identified as cable to allow for some single-line yarding in areas where yarding distance is short and volumes are low. Single-line yarding would also be permitted in the southern end of unit 2 and the tip of unit 3B. All areas were appraised as skyline since a skyline yarder will be needed for most of the sale.

Approximately 1100 feet of temporary road will need to be constructed. Temporary road location is flagged in pink and the right-of-way was marked with blue paint. The marked clearing may be a little tighter than needed for final use. Roadway will be required to be obliterated under provision C6.632# and seeded under C6.601#. If possible, the purchaser should stockpile the topsoil to place back on the recontoured slope, but it will not be a requirement.

Provision C6.4 limits the width of skidding tractors to 105 inches, unless otherwise agreed, to eliminate the use of D6 or D8 cats. Skidders up to 120 inches will be approved provided equipment is wider to reduce ground pressures and skidding can be done without undue damage to residual timber.

VI. Transportation System

The sale will be appraised to haul southeast on the #933 road to Scott Gulch Saddle, down the #933 road to Beaver Creek, then down river on Forest Highway 9, and west on I-90 to Coeur d'Alene. This is the quickest and best route out of the area, and the only route approved without prior agreement. The temporary road in unit 3 is adverse up to the #933 road and will force haul west for one mile to Lower White Saddle. Loaded trucks can turnaround at this saddle and proceed back to Scott Gulch, as this is still the shortest route to a county roadway. Since the gate at Lower White Saddle would also have to be closed with each vehicle, it is anticipated that purchaser may back the truck on #933 to the main ridge in unit 3A. A loaded truck can be turned around at this location provided a clearing of about 30 feet is created on this flat ridge to back in the trailer. This would be acceptable, though not designed, to avoid the inefficiency of having to open and close 2 gates in order to haul out. Reroute of the temporary road takeoff into the Rock Creek drainage was not considered acceptable due to the unroaded security area character associated with that drainage.

The purchaser will need to recondition all Forest Service roads. This will include site distance brushing and spot blading to provide a smooth running surface and re-establish turnouts. Dust abatement, commensurate with use, will be required on the #933 road under T-103 of the timber sale contract.

Purchaser will be required to close the gate on the #933 road with passage of each vehicle. This roadway is open to ATV use during the summer season. Since this is not a heavily used route during weekdays, this route will not be closed to ATV use. Purchaser will need to anticipate some use during the summer season and provide adequate warning signs of their activity. No purchaser operations will be permitted on weekends and holidays.

The #933 road is shown as KO (keep open) to maintain access to power lines. It can otherwise be closed during yarding provided enough clearance is provided for ATV's to get past.

VII. Erosion Control

Purchaser will be required to seed and fertilize areas of ground disturbance associated with tractor skid trails, landings, and the temporary road. Since most of the disturbance is associated with internal roads or trails, use of the short duration seed mix will be required.

Application shall be during the period March 1 to June 15 and September 1 to November 15. Seed shall be applied evenly at the rate of 35 lbs.

Temporary seed mix: for use in disturbed areas within timber stands such as temporary roads and skid trails.

Seed quantity

Species	cost/lb	lbs/ac	cost/ac
Slender wheatgrass <i>Elymus trachycaulus</i> "Revenue" or "Pryor"	\$1.50	15	\$22.50
Annual ryegrass <i>Lolium multiflorum</i>	\$0.65	20	\$13.00
Blend fee	\$0.05		\$1.75
TOTAL		35.0	\$37.25*

*quote from Rainier Seeds, Inc. Davenport, WA, 5/2007.

Acres to seed: 1 x \$37.25/ac = \$ 37.25
Labor for Seeding: 4 hours @ \$26.48/hr = \$105.92

Total Seed and Labor cost: = \$143.17

Seed shall be applied by the Dry method. Fertilizer shall be applied at a rate of 200 pounds per acre in one application by the Dry method and have a chemical analysis as listed below:

<u>Nutrient</u>	<u>Percent</u>
Nitrogen, N	16
Phosphorous, P	16
Potassium, K	16

Fertilizer cost = \$400 per ton
200 lbs per acre x 1 acre = 200 lbs.
200 lbs (0.1 tons) x \$400/ton = \$40.00
Labor for fertilizing: 4 hrs @ \$26.48/hour = \$105.92

Total fertilizer and labor cost = \$145.92

Total cost for seeding and fertilizing = \$289.09

Seed and fertilizer – Cost/CCF: \$289.09/1038 CCF = \$0.28/CCF

VIII. Sale Area Improvement

There is no essential reforestation needs identified for this sale. KV collections are planned to be made for noxious weed treatment along sale area roads. This is a green sale. The SSF volume will be based on the white pine component as most white pine trees that were marked have some evidence of blister rust infections.

IX. Hazard Reduction

The sequence of activities and activity costs are attached. Costs are generated through the FACTS program.

Purchaser requirements:

Purchaser will be required to yard trees with tops attached in unit 1 and within 200 feet of the western boundary of unit 3B. Purchaser should limb up to the normal sawlog top diameter then yard the top attached to the last log. Purchaser will be required to lop and scatter in the remainder of unit 3B and in unit 4. Purchaser will be required to leave limbs and tops in units 2 and 3A and will be required to grapple pile these units. Purchaser will also be required to grapple pile within 75 feet of the eastern boundary of unit 3B along the ridgeline. Logging slash will be required to overwinter prior to grapple piling. Purchaser will be required to pile landings, unless otherwise agreed.

Forest Service BD requirements:

Forest Service will burn grapple piles and landings. BD collections will also be made for post harvest exams in unit 3B.

X. Other Provisions

A. Period of contract:

1. Normal operating season: July 1 thru October 31
2. Termination date: July 31, 2011
3. Road Completion Date: N/A

B. Purchaser Fire Liability:

1. Personnel and Equipment

Number Required	Item	Personnel
2	Sawyer	2
1	Skidder	1
1	Line machine	3
1	Truck drivers	1
1	Loader	1

2. Cost Calculations

Total number of personnel	8
Number of hours per day	12
Total hours per crew day	96
Hourly rate for AD-3 firefighter	\$13.64
Average daily cost	\$1,309.44
Average fire length	5 days
Purchaser obligation for operation fire	\$6,547.2
Rounded up to nearest \$100	\$6,600.00

C. Other unique requirements:

All purchaser operations will be prohibited during weekends and holidays during the seasonal ATV use period. Currently the period runs from Memorial Day to Labor Day but this may change to April 1 to Labor Day sometime during this contract period. This restriction will be in effect at 4:30 pm on the day prior to the weekend or holiday. Log haul will be prohibited on weekends and holidays yearround. Purchaser operations will be prohibited during the winter recreational period of 12/1 to 3/31, unless agreed by local grooming board. No felling or skidding operations during the spring period of 4/1 to 6/30 to minimize damage to residual trees.

The gate(s) on the #933 road will be required to be closed with passage of each vehicle.
 Requirement for washing off-road equipment.

D. Performance bond: Minimum performance bond will be set at 10% of advertised value to help cover cost of slash disposal and road maintenance work if a default should occur.

XI. Notification of Forest Practices

(Check appropriate box)

X	Harvest of forest tree species.
X	Road construction associated with harvesting of trees.
	Reforestation.
	Use of chemicals or fertilizers for the purpose of growing or managing forest tree species..
X	Slashing or use of fire resulting from harvest or other management activities.
	Helicopter yarding adjacent to private ownership.
	Site specific BMP's
	Lake Present?
	Class I stream present?
	Steep Slopes?
	Unstable or erodible soils present?
	Stream crossings anticipated?