

IDAHO PANHANDLE NATIONAL FORESTS

2450  
Commercial Sales - Proposed

04-2420-01

STARS # 08404

**TOLE BOOTH TIMBER SALE REPORT**  
**AND**  
**APPRAISAL**

DISTRICT

SUPERVISOR'S OFFICE

Prepared James D. McFarland  
By

Reviewed for Advertisement

Date 7/16/2008

By

Date

Reviewed \_\_\_\_\_  
By

Date \_\_\_\_\_

Reviewed \_\_\_\_\_  
By

Date \_\_\_\_\_

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

\_\_\_\_\_  
Staff Officer, Timber

\_\_\_\_\_  
Date

## **Tole Booth Timber Sale Report**

### **I. Location**

The sale area is 2260 acres in size and is located in sections 15, 16, 20,21, 22,27, 28 & 29, T44N, R2E. Boise Meridian, Shoshone County, Idaho. The timber stand atlas compartment number is 484, St. Joe Ranger District, Idaho Panhandle National Forests. Harvest is planned on 230 acres, and timber subject to agreement is planned on 101 acres. The sale area lies in the Toles Creek and Norton Creek drainages.

From St. Maries head 27 miles south on State Highway 3 to Rd 1451 (Staples Creek), head up Rd 1451 approximately 5 miles to Rd 1491 (West Fork Merry's Creek), head up Rd 1491 approximately 9 miles to Rd 226 (Blackwell Hump Divide), head approximately 2 miles on Rd 266 to Rd 1900. When you have arrived at Rd 1900 you are in the Sale Area Boundary.

### **II. Relationship to the Environmental Document and Other Uses**

This sale is prepared under the direction of the Bussel 484, FEIS, approved by Ranotta McNair, Forest Supervisor, on May 21, 2008. The purpose of this sale is to achieve vegetative and watershed goals. This sale lies in Forest Plan Management Area 1.

#### **A. Relationship to Private Land/Rights-of-Way:**

Actual unit boundaries for Units 5H, 6H, 14A, and 14B are adjacent to other land ownership. Roads 1451, 1491, 226, 1900 and 1904 have Cost Share Road agreements.

#### **B. Threatened, Endangered and Sensitive Species:**

B6.24 Protection Measures Needed for Plants, Animals, Cultural Resources, and Cave Resources.

#### **C. Wetlands/Streamside Habitats:**

Wetlands and streams identified during field review or harvest preparation have been excluded or protected by INFISH buffers.

C6.316# - Limited Operating Period. Restrictions may be modified by agreement.

1) In-channel activity, culvert installation and removal, will occur during base flows, July 15th through September 1st, for Fish Habitat Protection.

#### **D. Special Uses, Mining Claims, Range Allotments:**

Mining Claims: The Sale Area is open to prospecting but currently there are no know applications or activity claims on file.

Range Allotment: There are no range allotments

#### **E. Noxious Weeds:**

C6.351# - Washing Equipment. Prior to initial and any subsequent entries into the Sale Area, Purchaser is required to wash all off road logging and construction equipment.

F. Cultural Resources:

There are extensive sites within the Sale Area Boundary. Sites found during Sale Prep were buffered. Refer to B6.24 Protection Measures Needed for Plants, Animals, Cultural Resources, and Cave Resources.

G. Other: N/A

### **III. Timber Volumes**

Tole Booth Timber Sale was cruised utilizing Forest Service personnel. Cruising was completed during the 2008 field season. All Forest Service Cruise assistants were under the direct supervision of Certified Cruisers. Cruise design and implementation procedures were adhered to the standards prescribed in the Forest Cruising Handbook 2409.12 and all Region 1 and IPNF Supplements.

District Certified Cruisers: James McFarland, Mike Hicks, William Brandt, and Cassidy Russell  
Region 1 Timber Strike Team Certified Cruisers: Scott Johnson and Matt Shaffer  
District Cruisers Assistants: Forest Dane, Dustin Arnold, Jodi Anderson, and Matthew Stanley  
Region 1 Timber Strike Team Cruisers Assistants: Patricia Turbiville and Jay Hedrick

This sale was cruised to and error of 13.85%. Maximum allowable for weight scaled sales is 20%. The cruise identification number is 08404.

GPS was used to determine all acres.

Non-sawtimber volume is the combination of topwood and all small timber.

The conversion factor is .5277 mbf/ccf and 3.09 ccf/ton.

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

Volumes are in CCF

Unit	Acres	C	DF	GF	L	LP	S	Total Sawlog	Top Wood	Non Saw	Total	Logging System	Prescription
11A	10	19	157	195	37	3	2	413	34	29	476	GB	CT
11B	9	17	141	175	33	2	1	369	31	26	426	S	CT
14A	7	10	6	151	10	0	9	186	7	0	193	GB	CT
14B	28	44	26	661	43	0	39	813	30	86	929	S	CT
15A	18	35	286	356	68	5	3	753	62	54	869	GB	CT
15B	56	112	911	1136	215	16	8	2398	199	170	2767	S	CT
18	10	29	27	229	37	0	47	369	33	32	434	S	ST
32	25	39	23	584	38	0	34	718	26	76	820	S	CT
100	9	25	23	196	31	0	40	315	28	27	370	GB	CCw/R
107	36	55	33	829	53	0	49	1019	37	108	1164	GB	CT
153A	3	8	8	65	11	0	14	106	10	9	125	GB	CCw/R
153B	7	18	16	144	23	0	29	230	21	20	271	S	CCw/R
200	9	14	8	210	14	0	12	258	9	27	294	S	CT
Rd 1904C	3	0	98	21	29	7		155	11	9	175	GB	CC
<b>Total</b>	230	425	1763	4952	642	33	287	8102	538	673	9313	-	-
<b>MBF</b>	-	225	930	2614	338	17	151	4275	284	355	4914	-	-
<b>Ton</b>	-	1316	5448	15308	1981	99	883	25035	1665	2081	28781	-	-

Sale Wide Conversion Factor (MBF/CCF): .5277

Sale Wide Conversion Factor (CCF/Tons): 3.09

Timber Subject to Agreement (C2.11#)

Unit	Acres	C	DF	GF	L	LP	S	Total Sawlog	Top Wood *	Total	Logging System	Prescription
5H	13	51	25	306	28	0	0	409	38	448	H	CT
6H	24	89	44	540	50	0	0	722	68	791	H	CT
11H	26	99	48	599	55	0	0	801	75	876	H	CT
30H	26	97	47	588	55	0	0	787	74	861	H	CT
32H	12	47	23	285	26	0	0	381	36	417	H	CT
<b>Total</b>	101	383	187	2318	214	0	0	3102	291	3393	-	-
<b>MBF</b>	-	202	99	1223	113	0	0	1637	154	1791	-	-
<b>Ton</b>	-	1184	578	7163	661	0	0	9585	899	10484	-	-

\* Estimated top wood volume not included timber for removal.

Sale Wide Conversion Factor (MBF/CCF): .5277

Sale Wide Conversion Factor (CCF/Tons): 3.09

**IV. Marking & Tree Designation Plan**

Standard Unit Boundaries: Three vertical stripes of YELLOW paint approximately 3’ – 4’ in length with the mid-point of each vertical stripe to be roughly at “eye-height” or higher if brush conditions warrant. The center vertical stripe shall face into the area to be treated. Each painted boundary tree shall have an adequate “stump” mark located on the downhill side of the tree as close to ground.

Many of the Unit Boundaries fall on system roads. Those boundaries that are roads *DO NOT HAVE* any boundary trees marked. The boundary of these units will be the adjacent road.

Leave Tree Mark (LTM): A horizontal line approximately 5 feet above ground level, or higher if brush conditions warrant, on both the up and downhill side of the tree with YELLOW paint. In addition, a YELLOW mark shall be painted on the “stump” as close to the ground.

Reserve Tree Mark: These are tree considered higher in value then average leave trees. An example of this would be a White Pine not infected with Blister Rust with good crown and form. Reserve trees are marked with a YELLOW “R” visible from all directions around the tree stem located at DBH or higher. In addition, a YELLOW mark shall be painted on the “stump” as close to the ground.

Species Designation: Within cutting units of the sale, shown below, listed species are designated for cutting when they meet utilization standards and are smaller than the diameter at stump height.

Unit	Designated Species	Approximate Maximum DBH	Maximum Stump Diameter (inches)
11A, 11B	WL	8	11
	DF	12	17
	C	10	15
	GF	18	23
	LP, S, H, AF	N/A	N/A
14A, 14B	WL	8	11
	DF	14	19
	C	10	15
	GF	20	26
	LP, S, H, AF	N/A	N/A
15A, 15B	WL	10	14
	DF	16	22
	C	10	15
	GF	24	31
	LP, S, H, AF	N/A	N/A
32	WL	8	11
	DF	12	17
	C	14	20
	GF	16	20
	LP, S, H, AF	N/A	N/A
107	WL	9	13

	DF	12	17
	C	12	17
	GF	18	23
	LP, S, H, AF	N/A	N/A
200	WL	8	13
	DF	15	21
	C	15	22
	GF	20	26
	LP, S, H, AF	N/A	N/A

Timber Subject to Agreement (C2.11#)

Unit	Designated Species	Approximate Maximum DBH	Maximum Stump Diameter (inches)
5H	WL	8	11
	DF	12	17
	C	12	17
	GF	14	17
	LP, S, H, AF	N/A	N/A
6H	WL	9	13
	DF	10	14
	C	14	20
	GF, LP, S, H, AF	N/A	N/A
11H	WL	8	11
	DF	12	17
	C	10	15
	GF	18	23
	LP, S, H, AF	N/A	N/A
30H	WL	8	11
	DF	12	17
	C	15	22
	GF	20	26
	LP, S, H, AF	N/A	N/A
32H	WL	8	11
	DF	12	17
	C	14	20
	GF	16	20
	LP, S, H, AF	N/A	N/A

**V. Logging Plan**

This sale contains a mix of logging systems. The following table is a summary of type of system, approximate acres & volume as well as average yarding distance. This is based on sawlog only.

System	% Acres	% Volume	Volume	Average. Yard Dist
Ground Based	37 (86)	36	2947	400
Skyline	63(144)	64	5155	790
Totals			8102	

Timber Subject to Agreement (C2.11#). This is based on saw log only

System	% Acres	% Volume	Volume	Average. Yard Dist
Helicopter	100	100	3102	2700

**VI. Transportation System**

The main haul route from the sale area is Road 1904 (1.8 miles) to 1900 (2.8 miles), to 226 (2 miles), to 1491 (8.77 miles), to 1451 (5.06 miles), to State Highway 3, to St. Maries, ID (27 miles).

***Specified Road Construction/Reconstruction***

Rd #	Name	Const. Miles	Reconst. Miles
1900	Norton Creek		3.89
1900B	Norton Creek		0.31
1900C	Norton Creek		0.84
1900F	1900F		0.90
1902	Toles Creek		1.65
1902B	1902B		1.00
1902C	1902C		0.20
1904	Norton Mica Connection		1.80
1904C	Wyatt Spur	0.7	
Total		0.7	10.59

Road Completion Date: October 31, 2009

**VII. Erosion Control**

Application shall be during the period **May 15 to June 30** and **September 1 to October 31**. Seed shall be applied evenly at the rate of 23 pounds per acre and 200 pounds of fertilizer per acre.

Seed Mix & Quantity

Species	PLS lbs/acre
Slender Wheatgrass "Highlander" or "Pryor"	3
Mt. Brome "Bromar"	4
Streambank Wheatgrass "Sodar"	4
Sheep fescue "Durar" (Festuca ovina)	5

White Dutch Glover or Alsike Clover (Tirfolium hybridum)	3
Annual rye (Lolium multiflorum)	4
<b>Total</b>	<b>23</b>

Fertilizer Mix	16-16-16
Application Rate / acre	200

Labor : Day rate (AD-c)\$13.24 x 8 hours	\$105.92
Seed \$/lb	\$ 4.00
Fertilizer \$/lb	\$ 0.45

Acres to be seeded	9
Total Seed lbs & \$/lb (207lbs x \$4)	\$828
Total Fertilizer lbs & cost (1800lbs x 0.45)	\$810
Total Cost (seed & fert)	\$1,638
Labor Cost (1 person @ 3 ac/day)=	\$317.76
Total seed & labor cost	\$1,955.76
<b>\$1955.76/810ccf</b>	<b>Cost/CCF 0.24</b>

Timber Subject to Agreement (C2.11#)

Acres to be seeded	5
Total Seed lbs & \$/lb (115lbs x \$4)	\$460
Total Fertilizer lbs & cost (1000lbs x 0.45)	\$450
Total Cost (seed & fert)	\$910
Labor Cost (1 person @ 3 ac/day)=	\$176.53
Total seed & labor cost	\$1,086.53
<b>\$1086.53/3102ccf</b>	<b>Cost/CCF 0.35</b>

**VIII. Sale Area Improvement - Reforestation**

Costs are generated through the FACTS program. See Appendix "Sale Area Improvement and K-V Collection Plan" for specifics located in Appendix.

**Funded**

Full Plant	30 acres
Burning Site Prep	30 acres
Stocking Surveys	30 acres
Animal Control	30acres
Plant Survival Survey	1 acres

**IX. Hazard Reduction**

The sequence of activities and activity costs are attached. Costs are generated through the FACTS program. See “Detailed listing of BD & Purchaser Slash Treatment Activities (Working Copy) for specifics located in Appendix.

**Purchaser requirements:**

- Grapple Pile Landings
- Lop & Scatter
- Yard Tops
- Hand Fireline Construction

**Forest Service requirements:**

- Grapple Pile
- Slashing
- Broadcast Burn
- Jackpot Burn
- Burn Landing Piles
- Burn Grapple Piles

**X. Other Provisions**

A. Period of contract:

1. Normal operating season: June 1 thru October 15
2. Termination date: October 31, 2013
3. Road Completion Date: October 31, 2009

B. Purchaser Fire Liability:

1. Personnel and Equipment

Items	# Items	# Personnel
Logging Crew	1	3
Sawyers	3	3
Loader	1	1
Log Trucks	3	3
Woods Boss	1	1
Total	-	11

2. Cost Calculations

Total number of personnel	11
Number of hours per day	12
Total hours per crew day	132
Hourly rate for AD-3 firefighter	\$ 13.24
Average daily cost	\$1,747.68
Average fire length	5 days
Purchaser obligation for operation fire	\$8,738.40
Rounded up to nearest \$100	<b>\$8,800</b>

**XI. Other Unique Requirements:**

C2.11 – Timber Subject to Agreement: Units 5H, 6H, 11H, 30H, and 32H are helicopter units within the sale that are timber subject to agreement.

*Helicopter Landing Development:*

Costs for Helicopter Landings were based on a total of 2 landings @ approximately 0.46 acres each. The method of cost development was Time & Equipment using the Engrg Cost Guide. See landing development spreadsheet for details.

Development and Rehabilitation	\$6,689.11
<b>\$6,689.11/3102ccf Cost/CCF</b>	<b>\$2.16</b>

C2.38# - Species Designation: All of the units within the sale, with the exception of units 18, 100, 153A, and 153B, are species designated. See provision for diameters. Additionally, there are Yellow painted leave trees marked in unit 32.

C5.12# - Use of Roads by Purchaser: Haul is restricted on 1904 Rd, Mica Creek. See Sale Area Map for location

C5.419# - System Road Stabilization: See provision for requirements.

System Road Stabilization Total	\$25,918
<b>\$25918/8102ccf Cost/CCF</b>	<b>\$3.20</b>

C6.320# - Reserve Tree Protection: Liquidated damages are listed below;  
Designated reserve trees within Cutting Unit 18 - \$1000.00 each.

C6.41# - Special Felling Requirements. Requirements in this provision are to protect the soil resource. No cost adjustment was made.

**XII. Notification of Forest Practices**

X	Harvest of forest tree species.
X	Road construction associated with harvesting of trees.
X	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.
X	Site specific BMP's
	Lake Present?
X	Class I stream present?
	Steep Slopes?
	Unstable or erodible soils present?
	Stream crossings anticipated?

**XIII. Sale Objective Code**

PURPOSE	ACTIVITY	PERCENTAGE
TC	10	100

**VALID PURPOSE CODES:**

TC -- Timber Commodity Purpose  
 FS -- Forest Stewardship Purpose  
 PP -- Personal Use

**VALID ACTIVITY CODES:**

**TC** 01 -- Timber Purpose  
**FS** 10 -- Forest and Ecosystem Health  
 FS 20 -- Recreation/Visual/Cultural Resource Enhancements  
 FS 30 -- Wildlife Habitat Management  
 FS 40 -- Fisheries Habitat Management and Watershed Improvement  
 FS 50 -- T&E Species Habitat Management  
 FS 60 -- Range Resource Enhancements  
 FS 70 -- Non-Timber Products  
 FS 90 -- Other  
**PP** 80 -- Personal Use Products

**IX General**

- Prior to commencement, a pre-work conference will be held to discuss contract and work performance requirements (C6.10#)
- All off road equipment will be washed prior to enter into the sale area (C6.351#)
- Any snags that are not a safety hazard will be retained in each unit (C2.303#)
- Purchaser shall keep roads needed for fire protection or other purposes, and designated on Sale Area Map, reasonably free of equipment and products, slash and debris resulting from Purchaser's operations. (B6.22)
- Warning signs will be posted to inform public of logging activities. (B6.33)
- No excavated skid trails will be allowed.
- Skit trails will be seeded, fertilized, and water barred upon completion of the activities. Seed mixes will be approved by the Forest Service and will be certified noxious weed-free (C6.6, C6.601).
- Whole tree yarding will not be an option due to the possibility of residual stand damage (C6.7).
- System road stabilization is required (C5.419#).
- All helicopter logging units are Timber Subject to Agreement (C2.11#).
- Intermediate supports may be required in all skyline units, especially in units 14B, 15B and 32 (C6.4#)
- Species designation was used for tree designation in Units 11A, 11B, 14A, 14B, 15A, 15B, 32, 107 and 200. (C2.38#) and also Units 5H, 6H, 11H, 30H, and 32H that are subject to agreement (C2.11#)
- Special felling requirements, mechanical felling, shall be approved in advance and shall only be allowed off of approved skid trails when there is sufficient snow, frozen ground, or slash mat to prevent ground disturbance or compaction. (C6.41#)