

NORTHERN REGION - R-1

FOREST = *

DISTRICT *

Expiration Date = April 1, 2014

V13.1

**TIMBER SALE AND
TRANSACTION EVIDENCE
APPRAISAL REPORT**

(SALE NAME)

Select Contract Type

TIM #

TYPE

UOM

Prepared by (Signature)

(Date)

Prepared by (Signature)

(Date)

Approved by (Signature)

(Date)

Reviewed by (Signature)

(Date)

All attached documents and specifications for this timber sale have been completed in accordance with regulations at 36 CFR, Part 223, Subpart B, and the applicable Forest Service Manual and Handbook requirements and standards related to timber sales. Furthermore, the environmental documentation and NEPA decision have been reviewed; no significant new information or changed circumstances relating to the environmental impacts of this proposed action exist that require a correction, supplement, or revision to the documentation or decision; and implementation (advertisement) should continue.

Certification Reports for Gates 3 and 4 from TIM are attached to this timber sale report.

Timber Sale Final Package Approved By:

(Date)

TIMBER SALE INFORMATION

TIM, Gate 3, Create Timber Sale (Prep101)

Sale Area Description:

Primary County Name (FIPS Code):

029 - Flathead *

Sale Area Legal Description (short T & R):

T28N, R13W, PMM

Sale Area Legal Description (long):

Portions of Sections 4, 5, 6, 8, T28N, R13W, Flathead County, State of Montana, PMM

The format that the description is entered here and inputted to TIM is exactly the way it will print out in the Contract, Ad and prospectus at Gate 4.

Compartment (s):

60

Environmental Documentation:

Project Association: List NEPA Project(s) that approved the timber sale.

<u>NEPA Document Name</u>	<u>Percentage of Sale Volume (CCF)</u>
Granite Lodgepole Project 10/4/2012	100

The above NEPA Document(s) shall be included in the Prospectus, General Narrative, TIM Gate 4 - Prospectus (ADVR115). Include the following statement in the Prospectus: The environmental document(s) that approved this sale: _____

Briefly describe additions or changes made to project design during timber sale preparation.

See Design Criteria Crosswalk

TSPIRS INFORMATION, SALE OBJECTIVE

TIM, Gate 3, Create Timber Sale (Prep101)

Purpose (TIM -PREP101)

Activity

% of Sale Volume - CCF (TIM - PREP101)

* TC - Timber Commodity Purpose
*
*

* 01 - Timber Purpose
*
*

100

SALE PURPOSE AND ACTIVITY CODING INSTRUCTIONS

www.fs.fed.us/im/directives/fsh/2409.18/2409.18_20.doc

SALVAGE SALE FUND INFORMATION

TIM, Gate 4, Salvage Sale Fund Plan (ADVR112)

Reference to FSH 2409.19 - 71.12 - for assistance with SSF collections

https://fs.usda.gov/FSI_Directives/wo_2409.19_70.doc

SSF Silviculture Treatment Type (Pick one)

Salvage *

SSF Volume (CCF): % of total volume

FUNDING SOURCE

Funding Source (button on tool bar) - From STAT102

Sale Preparation Funding Source ---SSSS (Salvage Fund) %

(Contact SO for percentage to enter into Funding Source form. Funding Source percentage must be equal to or less than % of salvage in the SSF Plan.)

CRUISE INFORMATION

CRUISE: #

CHECK CRUISE:

Date of Cruise

Date of Check:

Cruisers:

Cruisers:

Method:

Results:

SE%:

Method of determining ROW volume:

Basis for Percent Defect:

Forest Average hidden defect 6% plus Seen defect detected during timber cruise.

APPRAISAL CCF TO TON WORKSHEET

SAWTIMBER - CCF

Species	Defect %	Net Volume	Total Additional	Total Net	Tons Per CCF	Total Tons
AF	0	0	0	0	2.4735	0
C	0	0	0	0	2.3540	0
DF	0	0	0	0	3.0160	0
GF	0	0	0	0	3.1275	0
H	0	0	0	0	3.2425	0
L	0	0	0	0	3.1935	0
LP	9	1446	0	1446	3.0210	4368
PP	0	0	0	0	3.2230	0
S	0	0	0	0	2.7040	0
WP	0	0	0	0	3.2230	0
TOTAL =		9	1446	0	1446	4368

Net MBF/CCF Ratio For
Sawtimber From NCS
Report CS1 **0.4735**

TIM Conversion	Prep 105 Factors
MBF	CCF
0.1567	0.3310

NON-SAWTIMBER - CCF

Species	Net Volume	Additional Non-Saw	Total Net	Tons Per CCF	Total Tons
AF	0		0	2.3340	0
C	0		0	2.1400	0
DF	0		0	2.7885	0
GF	0		0	2.9470	0
H	0		0	3.0590	0
L	0		0	3.0785	0
LP	997		997	2.3922	2385
PP	0		0	3.1510	0
S	0		0	2.6330	0
WP	0		0	3.1500	0
TOTAL =	997	0	997		2385

64% %Dead

Net MBF/CCF Ratio For
Non-Sawtimber From NCS
Report CS1 **0.5307**

TIM Conversion	Prep 105 Factors
MBF	CCF
0.2218	0.4180

TOTALS =	<u>Gross</u> 0	<u>Net</u> 2443	<u>Tons</u> 6753
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APPRAISAL SUMMARY

CONTRACT VOLUME (CCF)	<u>2443</u>
APPRAISAL VOLUME (CCF)	<u>1446</u>
CONTRACT VOLUME (TONS)	<u>6753</u> (Note: Total Tons to be used for Rd. Maintenance Appr.)
WTD TONS/CCF	<u>2.76</u>

ASSIGN CONTRACT SPECIES

TIM Gate 3 - Prep 105

Contract Species Association

Contract species shall be grouped to reflect differences in utilization and/or how species shall be grouped in A(T) 2 of the Timber Sale Contract.

All Non-sawtimber shall be grouped as Combined Softwood (CS) under Contract Species

UTILIZATION STANDARDS

TIM Gate 4 - Contract Prep Information ADVR114

Fill out Minimum Specifications below to reflect how sawtimber & non-sawtimber were cruised.

Contract Species (Major Species Group)	Full Name for Contract	Conversion Factors (only applicable to weight scale sales) (Enter from Species Volume Summary)		Minimum Specifications				
		MBF	CCF	DBH	Number of Pieces	Length	DIB	Merch. Factor
		<input type="checkbox"/> LP	Lodgepole Pine	0.1567	0.331	6	1	8.0
<input type="checkbox"/>								
<input checked="" type="checkbox"/>	CS Live and Dead	0.2218	0.418	4	1	16.0	2.5	N/A
<input type="checkbox"/>	C14 Cedar Products - Net Merch. Factor - Refer to C(T)6.804#							

NON-SAWTIMBER ADJUSTMENTS

DATA INPUT

Delivered Log Price (\$/Ton, Nonsawtimber material)	\$24.00	
Total Nonsawtimber Volume (CCF) (Primary + Secondary)	997	
Total Nonsawtimber Volume (Tons) (Primary + Secondary)	2,385	
Tons / CCF for nonsawtimber material	2.39	0.00 Adjustment
Total Appraised Sawlog Volume (CCF)	1,446	
Total One Way Weighted Haul Miles	66	0 Adjustment

Logging System	All Ground Based	All Cable	Forwarder
Nonsawtimber Primary Product (CCF)		127	575.2
Net MBF / Acre Harvested for nonsawtimber primary product	0.0	0.3	0.257606706
Average DBH Harvested for nonsawtimber primary product		7.2	7.2
Average Yarding Distance (Feet)	0	979	979
Nonsawtimber Primary Product (Tons)	0	303	1376.003862

Nonsawtimber Adjustment	
Final Nonsawtimber Value (\$/CCF) A positive number is a negative value.	-\$17.23
Final Nonsawtimber Adjustment to enter into TE appraisal program (\$/CCF)	\$17.23

RIGHTS - OF - WAY

(Include Cost share Agreements)

Road Name	Road #	Length	Type of Agreement	Agreement with (Names)

ROAD MAINTENANCE

(From Road Maintenance Appraisal Summary, sheets are attached)

Contract Rates

Total Performance Recurrent Maintenance (Part A)	\$/CCF	\$/TON
C(T)5.31 - Recurrent Maintenance	\$2.35	\$0.85
C(T)5.312 - Reconditioning	\$0.00	\$0.00
Total Performance (Part A)	\$2.35	\$0.85 (A)
Total Required Deposits (Recurrent and Deferred) (Part B) <i>(Enter appropriate rate in TIM - Gate 4 - Road Maint. Plan - ADVR105</i>		
C(T)5.32# - Total Required Deposits (Part B)	\$3.67	\$1.33 (B)
C(T)5.314 - Total Dust Abatement (Part C)	\$0.00	\$0.00 (C)
TOTAL MAINTENANCE COST (Parts A-B-C)	\$6.02	\$2.18

Appraisal Rates

(Entries for 2400 - 17)

Total Required Deposits	\$ \$3.67 CCF
Total Road Maintenance Costs (Performance + Deposits)	\$ \$6.02 CCF

*Refer to Road Maintenance Appraisal for Road Reconditioning cost per road segment.
(Attach worksheets with road costs)*

LOGGING METHOD SUMMARY

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarder	TOTAL
Acres	0	13	0	0	59	72
Volume	0	261	0	0	1185	1446
EYD	0	196	0	0	979	

IDENTIFY FACILITIES (ADVR102)

Check Box if accomplishing road construction or re-construction work under timber sale.

BASE RATE ADJUSTMENT I GENERATION COST

Total Required Regeneration Costs - FACTS Line 21 Remarks \$4,846.00
 (Subtotal for Required Reforestation with National Program Support Cost Included)

Note: Base Rates may be raised for regeneration on only the Sawtimber component for green sales or % of Live Sawtimber on Salvage sales. In previously partial cut stands that are to be regenerated, protected regeneration cost shall be proportionate to remaining volume in the sale.

Sale Volume (ALL Vol./Products) 2,443 CCF X \$0.25 (NFF) \$610.75
 Select Either (a) or (b)
 (A) Green Sale - Required Regen Cost \$ 100% Sawtimber Vol. = \$0.00 (d)
 (B) Salvage Sales enter % Live Sawtimber Volume; Partial Cut
 Stands enter % Volume remaining. 0% = \$610.75 (a)

% Sawtimber 59%

Species Groups	Minimum Rates 1/		Base Rates 2/	
	Volume (CCF)	Per CCF	Total	Per CCF
WP, PP, C	0	\$5.00	\$0.00	0
All other species (list)	1446	\$3.00	\$4,338.00	\$3.00
Nonsawtimber (all species)	997	\$1.00	\$997.00	\$1.00
TOTALS	2443	XXXXXX	\$5,335.00	XXXXXX
Sawtimber (Appraisal) Volume	1446			\$3.00
			Weighted Average Minimum Rate	

(a) - (b) = (c) amount need in addition to base rates (plus \$.25/CCF) -\$4,724.25 (c)

Note: If minimum rate total (b) => (a) no adjustment needed No Adjustment

Adjustment To Minimum Rate:
 \$ 0 (c) / (Total Sawtimber Volume) CCF = \$ 0.00 / CCF

1/ Minimum rates: FSH 2409.22, Chp 80, Sect. 81
 (Base rates for Sawtimber can be weighted if appraising and advertising as a single species group (DF,O))

2/ Minimum rate + adjustment = Base Rate
FACTS INFORMATION
 (Enter Sale Information - SAIP100)

Amount of Stumpage Available for Protected KV at Base Rates = \$0.00
 (The only stumpage available for KV at advertised rates is when KV is protected by base rates)

EROSION CONTROL

Seed mix is to be included in C(T)6.601# - Erosion Control Seeding and Special Project Specifications (SPS) 625.05 in Road Package.

Make sure that the seed mix and fertilizer are the same in both Contract and Road Package.

Site specific areas, such as gravel pits and very dry sites may call for more and/or different species in the mix. Document below the rationale for deviation from the standard seed mix.

Species of Seed	Pounds per Acre
-----------------	-----------------

Blue Wildrye	5
Mountain Brome	9
Bluebunch Wheatgrass	4
Slender Wheatgrass	6

TOTAL **24**

Type of Fertilizer	Pounds per Acre
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TOTAL **0**

Crossdrains

Installation of crossdrains on temporary roads, skid trails and firelines are included in their respective cost allowance.

Scarification

acres @ per acre =

Seed and Fertilizer

If Temp Road seeding is not included in Temp Road worksheet then enter here

Temporary Roads feet = acres

Firelines feet = acres

Skid Trails

Number of acres to be skidded using ground based systems times the percentage of area requiring seed and fertilizer. acres X % = acres

Number of acres to be yarded using cable systems times the percentage of area requiring seed and fertilizer. acres X % = acres

Landings

Number of landings X acres per landing = acres

TOTAL acres

	Tractor	Ground Lead	Skylines	Aerial Heli	Forwarder
Acres	0	13	0	0	59

Seed mix, fert., labor costs:

	<u>Lbs / Acre</u>		<u>\$ / Lb</u>	=	<u>\$ per Acre</u>
Blue Wildrye	5	X	\$12.00	=	\$60.00
*Mountain Brome	9	X	\$12.00	=	\$108.00
uebunch Wheatgrass	4	X	\$12.00	=	\$48.00
Slender Wheatgrass	6	X	\$12.00	=	\$72.00
0	0	X		=	\$0.00
Fertilizer	0	X		=	\$0.00
*Labor per Acre				=	

\$ per acre **\$288.00**

Total cost for

SEEDING	1.6	acres	X	\$288.00	\$/acre =	\$460.80
FERTILIZER	1.6	acres	X	\$0.00	\$/acre =	\$0.00
LABOR	1.6	acres	X	\$0.00	\$/acre =	\$0.00
SCARIFICATION						\$0.00
TOTAL						\$460.80

\$460.80 COST / **1446** CCF = **\$0.32** PER CCF

* Engineers estimate Page 114 of the Cost Guide Item Labor Rates.

Document Rational for Changes to Standard Seed Mix.

OTHER CONTRACTUAL REQUIREMENTS (B)

The cost allowance for herbicide application has been based on the following assumptions; 300 gallon sprayer with herbicide injectors (not tank mixed); 20 gallon of carrier/ac; one trip will be required for each herbicide per road; labor rate and production includes mix, loading, cleanup and daily documentation; misc. expenses include equipment maintenance and depreciation, herbicide storage and handling and licensing fees. One mile of road with an average ROW of 30 feet is equal to 3.6 acres. Herbicides approved for use are listed in C(T)6.27# under Technical Spraying Specifications.

<u>Herbicide</u> (Common name)	<u>Application Rate oz</u> per acre	<u>Cost</u> Per oz	<u>Cost per</u> <u>UOM</u>
Tordon (example)	22	\$2.50	\$198.00 mile
		\$0.00	\$0.00 mile
		\$0.00	\$0.00 mile
		\$0.00	\$0.00 mile

Price quote for herbicide obtained from: Tris Hoffman FNF noxious weed coordinato

Sufactant & Dye 32 oz/gal H2O	\$0.68/acre = \$2.45/ mile
Labor Rate	\$40/ hour (2 Miles per hour)

Miles of road to be sprayed: 10.5 miles

<u>Herbicide to be applied:</u>	<u>Miles</u>	<u>\$ UOM</u>	<u>Tot Cost</u>
Tordon (example)	10.5	\$198.00	\$2,079.00
		\$0.00	\$0.00
		\$0.00	\$0.00
		\$0.00	\$0.00
Sufactant & dye:	10.5	\$5.00	\$52.50
Application Cost (Labor):	10.5	\$40.00	\$420.00
Misc. Expensense:	10.5	\$10.00	\$105.00
TOTAL WEED TREATMENT:	\$2,656.50 cost	/ 1446 CCF	= \$1.84 CCF

ON-SITE EQUIPMENT WASHING C(T)6.351#

Cost allowance for washing off-road equipment Prior To Leaving locations identified in EIS/EA

Number (pieces of equipment)	<input type="text"/>	Number of seasons	<input type="text"/>
Cleaning costs per piece	\$0.00	CCF	1446

Total cost for washing equipment per CCF \$0.00 CCF

Subtotal Other Contractual Requirements (B) \$1.84 CCF

MISCELLANEOUS CONTRACTUAL REQUIREMENTS (C)

(Contractual Obligations That Would Not Require Coverage Under The Performance Bond)

Stump Shoveling (Not required under normal operating/winter conditions. Include if clippers not allowed)

stumps X \$0.00 per stump = \$0.00

\$0.00 Cost / 1446 CCF = \$0.00 CCF

Snow Plowing

miles X per mile X # plowings = \$0.00

\$0.00 Cost / 1446 CCF = \$0.00 CCF

Miscellaneous: (Helicopter Landing Construction, Traffic Control etc...)

ITEM		X	COST	=	TOT COST
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00

\$0.00 Cost / 1446 CCF = \$0.00 CCF

Subtotal Miscellaneous Contractual Requirements (C) \$0.00 CCF

Total Other Contractual Requirements (A+B+C)	<input type="text"/> \$2.12 CCF
Brush Disposal (Purchaser and FS)	<input type="text"/> \$0.29 CCF
Total Environmental Protection Cost	<input type="text"/> \$2.41 CCF

TEMPORARY ROADS

0.00 Miles

Temporary Road #1

0

Cost \$

\$0.00

Temporary Road #2

0

Cost \$

\$0.00

Temporary Road #3

0

Cost \$

\$0.00

Temporary Road #4

0

Cost \$

\$0.00

Temporary Road #5

0

Cost \$

\$0.00

TOTAL TEMPORARY ROAD COST = \$0.00

(Temporary Development Costs)

\$0.00 COST / 1446 CCF = \$0.00 CCF

Cost Guide for Temporary Roads

http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5279261.pdf

Temporary Road Seeding, Fertilizing and Obliteration Costs per CCF \$0.00

UNUSUAL CONDITION ADJUSTMENTS

\$0.00 Cost \$ / 1446 CCF = \$0.00 CCF

TIMBER SALE CONTRACT INFORMATION

Tim Gate 4 - Contract Preparation information (ADVR114)

Normal Operating Season
(ADVR114, Page 1)

				Units
First Period :	1-Jul	to	30-Sep	All
Second Period:		to		

(Note: If sale has more than one NOS - List dates and units for each NOS in A16 or AT13 of Timber Sale Contract)

Periodic Payment Schedule

Approximate Award Date: mm/dd/yy

(And Road Completion Date if roads are included.)

Road Completion Date: mm/dd/yy
(ENTER N/A if no roads)

Contract Termination Date: mm/dd/yy

.IM - Input at Gate 4 - Prospectus, Bid and Misc. Information - Page 1 (ADVR115)

Approximate Payment Date:

Include the following statement in the Prospectus for sales without a road completion date.

As per B(T) 4.213, Periodic Payment Schedule, a periodic payment will be required. The approximate periodic payment date is XXXX. The final date will be based on the award date of this timber sale contract.

FIRE LIABILITY CALCULATION (ADVR114, Page 4)

5 CCF / man day --- 120 operating days / year --- 600 CCF / man year --- 12 hrs / shift --- 5 shifts / week.
AD-C Firefighter wage is updated yearly, ~March (FSH 5109.34 Chp 10). Link below to directive.

(A)	Total Volume =	<input type="text" value="2443"/>	CCF
(B)	Sale Duration =	<input type="text" value="2.1"/>	YEARS (Calculated from Award Date to Termination Date)
(C)	Operating Days in Sale =	<input type="text" value="252"/>	(Sale Duration X 120 days.)
(D)	CCF Per Day =	<input type="text" value="9.7"/>	(Total Volume / Operating Days in Sale)
(E)	Men Needed to Log Sale =	<input type="text" value="1.9"/>	(CCF Per Day / 5 CCF)
(F)	Liability =	<input type="text" value="\$17.40"/>	(Wage Rate AD-C) X <input type="text" value="12"/> (hrs/shift) X <input type="text" value="5"/> (# shifts) X
		<input type="text" value="1.9"/> (# men) =	TOTAL LIABILITY = <input type="text" value="\$1,984"/>

http://www.fs.fed.us/r1/fire/nrcg/Committees/business_committee.htm

Round up to nearest \$50.00 up to \$200.00, then round up to nearest \$100.00

ROUNDED TOTAL =

