2450
NORTHERN REGION - R-1
FOREST = 14 - Kootenai * DISTRICT 05 - Libby *
Expiration Date = April 1, 2015
V14.1

TIMBER SALE AND TRANSACTION EVIDENCE APPRAISAL REPORT

Select Contract Type

Silverbugs
(SALE NAME)

TIM # 14507

TYPE 6 - Contract Form 2400-6 UOM TON

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): 053 - Lincoln *

Sale Area Legal Description (short T & R): T26N, R30W

Sale Area Legal Description (long):

Portions of sections 4 and 5 of T25N, R30W and portions of sections 33, 34, 35, and 36 of T26N, R30W; Lincoln County, MT, 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): 84

Environmental Documentation:

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

NEPA Document Name	Percentage of Sale Volume (CCF)
Silverbutte Bugs DM	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.

N/A

TSPIRS INFORMATION, SALE OBJECTIVES

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
	*		*	
	*		*	

KOOTENAI SALE PURPOSE CODING INSTRUCTIONS

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

Management Areas	Sale Purpose Code	Type of sale
All suitable MA's (MA 11,12,14,15,16,17)	TC/01	All sawtimber, non-sawtimber and fuelwood sales on all contract forms including permits.
Non suitable MA's	FS/___	All sawtimber sales, select the most appropriate activity based on documented sale purpose.

In the absence of documented sale purpose reasons for nonsuitable MA'S, the following codes, based on stated goals and objectives in the Forest Plan, will be used.

MA 3, 5, 19	FS/10	General salvage
MA 6	FS/20	Hazard tree removal
MA 10	FS/30	Wildlife Habitat Improvement
MA 18	FS/90	Test Regen Techniques

Percentage: The percentage distribution will be 100% EXCEPT when an individual sale includes a mix of suitable and nonsuitable MA's. In this circumstance, the percentage split between TC and FS coding will be based on the sawtimber volume in the MA's. DO NOT distribute the percentage for nonchargeable product volume that may be included on sawtimber sales in suitable MA's. Code these as 100% TC/01.

Convertible product permits and non timber commercial sale contracts or permits.	FS/70/100%	Commercial sale of post, poles, Christmas trees, mushrooms, etc.
Firewood or Christmas Permits	PP/80/100%	Intent is personal use.

SALVAGE SALE FUND INFORMATION

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

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

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

SSF Silviculture Treatment Type (Pick one)

Salavge plus Sanitation *

SSF Volume (CCF): 8177 **100%** **% of total volume**

FUNDING SOURCE

Funding Source (button on tool bar) - From STAT102

Sale Preparation Funding Source ---SSSS **(Salvage Fund) %** **0%**

(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:	# 5033	CHECK CRUISE:	
Date of Cruise	7/14/2014	Date of Check:	Aug-14
Cruisers:	J. Turk L. Luscher D. Webster B. Valentine	Cruisers:	J. Craig
Method:	STR and PNT	Results:	
SE%:	26		

Method of determining ROW volume:

Basis for Percent Defect:

Seen defect plus additional cull and breakage.

TOTAL CF VOLUME BY UNIT --- NCS REPORT (UC5)

Unit #	Acres	Sawtimber	CCF	Non-Saw	CCF
ROW units need to be entered last					
1P	24	46312	463	26674	267
1R	6	10078	101	11733	117
1A	16	36768	368	30463	305
1B	10	16797	168	19556	196
1C	10	16797	168	19556	196
1D	8	13438	134	15645	156
1E	11	18477	185	21511	215
2	9	15118	151	17600	176
3A	5	11490	115	9520	95
3B	24	55152	552	45694	457
3C	5	11490	115	9520	95
4A	18	41364	414	34271	343
4B	13	29874	299	24751	248
5	23	52854	529	43790	438
5A	4	10956	110	7834	78
6	19	54633	546	37698	377
		441598	Sawtimber	375816	Non-Saw
TOTAL SALE UNIT VOLUME (CCF)		4418	4418	3759	3759
		(Sheet 1)	(Sheet 1&2)	(Sheet 1)	(Sheet 1&2)

NET MBF/CCF Ratio from NCS Report CS1

Sawtimber (Product 01): 0.50873

Non-Saw (Product 08): .57893

If no Primary Non-Saw Enter Secondary Volumes Below

Net bdft

Net cf

Non-Saw (Product 08)

TOTAL SALE CF VOLUME BY SPECIES --- NCS REPORT (R101)

Species	Saw	Rounded	%Defect	Av. DBH	Logs/Unit	NCS REPORT (UC5) Non-Saw	Rounded
AF		0					0
C		0				2546	25
DF	1129	11	2	14.4	14.8	361	4
GF		0					0
H		0				9027	90
L	2591	26	5	9.9	22.6	11299	113
LP	402229	4024	11	9.2	21.9	345682	3458
PP	35650	357	4	10.9	18.9	5278	53
S		0				1620	16
WP		0					0
	441599					375813	
TOTAL VOLUME		4418 CCF					3759 CCF

ROUNDED VOLUME IS THE DIFERENCE BETWEEN UNIT VOLUME AND SPECIES VOLUME (AFTER ROUNDING TO CCF) ADDED TO THE SPECIES WITH THE LARGEST VOLUME

CUTTING UNIT DESCRIPTION
(TIM GATE 3 - PREP 104)

VOLUME - DIRECT ENTRY
(TIM GATE 3 - PREP 103)

Unit #	P.U.#	Cruise Unit Acres	Appraisal Unit Acres	ROW Acres	Logging Method	Harvest Method	Land Suit Class	MA	Unit Volume CCF Sawtimber	Unit Volume CCF Non-Saw	Yield Component CL	Yield Component NL	Unit TONS Saw	Unit TONS Non Saw
ROW units need to be entered last							Enter KNF MAs Here							
1P		24	24		420	115	500	12	463	267	730		1407	690
1R		6	6		420	132	500	12	101	117	218		307	302
1A		16	16		420	132	500	12	368	305	673		1118	788
1B		10	10		420	132	500	12	168	196	364		510	506
1C		10	10		420	115	500	12	168	196	364		510	506
1D		8	8		420	115	500	12	134	156	290		407	403
1E		11	11		420	232	500	12	185	215	400		562	555
2		9	9		420	132	700	23	151	176		327	459	455
3A		5	5		420	132	700	23	115	95		210	349	245
3B		24	24		420	132	700	23	552	457		1009	1677	1181
3C		5	5		420	132	700	23	115	95		210	349	245
4A		18	18		420	115	700	23	414	343		757	1258	886
4B		13	13		420	132	700	23	299	248		547	909	641
5		23	23		420	115	700	23	529	438		967	1607	1132
5A		4	4		420	132	700	23	110	78		188	334	202
6		19	19		420	115	700	23	546	377		923	1659	974
Totals Sheet 1		205	205	0					4418	3759	3039	5138	13424	9712

Total Sale Area: **230** Sale Area Acres
Total Cutting Area: **205** Acres
(Sheet 1)

Total Sawtimber (Sheet 1) **4418** CCF
Total Saw + Non-Saw (Sheet 1) **8177** CCF

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	2	11	0	11	3.0160	33	
GF	0	0	0	0	3.1275	0	
H	0	0	0	0	3.2425	0	
L	5	26	0	26	3.1935	83	
LP	11	4024	0	4024	3.0210	12157	
PP	4	357	0	357	3.2230	1151	
S	0	0	0	0	2.7040	0	
WP	0	0	0	0	3.2230	0	
TOTAL =	10	4418	0	4418	3.0385	13424	=

Net MBF/CCF Ratio For Sawtimber From NCS Report CS1: .50873

TIM Conversion	Prep 105 Factors
MBF	CCF
.16740	.32910

NON-SAWTIMBER - CCF

Species		Net Volume	Additional Non-Saw	Total Net	Tons Per CCF	Total Tons	
AF		0	0	0	2.3340	0	
C		25	25	25	2.1400	54	
DF		4	4	4	2.7885	11	
GF		0	0	0	2.9470	0	
H		90	90	90	3.0590	275	
L		113	113	113	3.0785	348	
LP	48% %Dead	3458	3458	3458	2.5491	8815	
PP		53	53	53	3.1510	167	
S		16	16	16	2.6330	42	
WP		0	0	0	3.1500	0	
TOTAL =		3759	0	3759	2.5837	9712	=

Net MBF/CCF Ratio For Non-Sawtimber From NCS Report CS1: .57893

TIM Conversion	Prep 105 Factors
MBF	CCF
.22400	.38700

	Gross	Net	Tons
TOTALS =	0	8177	23136

APPRAISAL SUMMARY

CONTRACT VOLUME (CCF)	8177
APPRAISAL VOLUME (CCF)	4418
CONTRACT VOLUME (TONS)	23136 (Note: Total Tons to be used for Rd. Maintenance Appr.)
WTD TONS/CCF	2.8300

LOGGING METHOD SUMMARY

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarder	Horse	TOTAL	Swing Not Included in Totals
Acres	205	0	0	0	0	0	205	0
Volume	4418	0	0	0	0	0	4418	0
AEYD	194	0	0	0	0	0		
% Acres	100%	0%	0%	0%	0%	0%		
% Vol	100%	0%	0%	0%	0%	0%		

HARVEST METHOD SUMMARY

	ClearCut	Seed Tree	Shelter Wood	Final Seed Tree	Intermed	Final Shelter wood	Selection	TOTAL
Acres	102	92	0	0	22	0	0	216
Volume	2254	1979	0	0	370	0	0	4603
% Acres	47%	43%	0%	0%	10%	0%	0%	
% Vol	49%	43%	0%	0%	8%	0%	0%	

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.

From the list below select the description of non-sawtimber products that reflect how the products were cruised and input in NCS.
The description below is to be included in A(T)2 of timber sale. (Refer to non-sawtimber appraisal guide for more details & instructions).

	Contract Species (Major Species Group)	Full Name for Contract	Conversion Factors (only applicable to weight scale sales) (Enter from Species Volume Summary) MBF	CCF	Minimum Specifications DBH	Number of Pieces	Length	DIB	Merch. Factor
X	Live and Dead	Lodgepole and Othe	0.1674	0.3291	7	1	8.0	6.6	10.67
					0	0	0.0	0	0
					0	0	0.0	0	0
☑	CS		0.224	0.387	4	1	8.0	2.5	N/A
☐	C14	Cedar Products - Net Merch. Factor - Refer to C(T)6.804#			0	0	0.0	0	0

Select Non-Sawtimber Products description from the following:

X	Non-Sawtimber products include (C(T)2.2): Primary product includes all trees 4.0" to 6.9" DBH (less than minimum Sawtimber specifications shown in A(T)2); secondary product include tops of Sawtimber trees less than diameter inside bark at small end shown in A(T)2;and all trees not meeting minimum Sawtimber specifications but containing at least 50% pulpable woodfiber in terms of gross cubic volume. (C(T)6.801)
	Non-Sawtimber products include (C(T)2.2): secondary product which are the tops of Sawtimber trees less than diameter inside bark small end shown in A(T)2; and any portion of a Sawtimber tree not meeting minimum Sawtimber specifications shown in A(T)2 but containing at least 50% pulpable woodfiber in terms of gross cubic volume (C(T)6.801).
X	Non-Sawtimber products include (C(T)2.2): secondary product which is the top portion of Sawtimber trees less than diameter inside bark small end shown in A(T)2 and containing at least 50% pulpable woodfiber in terms of gross cubic volume (C(T)6.801).
	Non-Sawtimber products include (C(T)2.2): Primary product includes all trees X.X" to 6.9" DBH (less than minimum Sawtimber specifications shown in A(T)2) and secondary product which are tops of Sawtimber trees less than diameter inside bark at small end shown in A(T)2 and containing at least 50% pulpable woodfiber in terms of gross cubic volume (C(T)6.801).
	Non-Sawtimber products include (C(T)2.2): Primary product includes all trees X.X" to 6.9" DBH (less than minimum Sawtimber specifications shown in A(T)2) and containing at lest 50% pulpable woodfiber

in terms of gross cubic volume (C(T)6.801).

AVERAGE EXTERNAL YARDING DISTANCE

Unit #	Volume CCF	AEYD Feet
1P	463	500
1R	101	750
1A	368	700
1B	168	250
1C	168	250
1D	134	300
1E	185	750
2	151	
3A	115	
3B	552	
3C	115	
4A	414	
4B	299	
5	529	
5A	110	
6	546	

To Calculate % Slope

Top Elevation: 3423

Bottom Elevation: 3269

EYD Distance (ft): 432

% Slope = 36%

% Slope
23%
20%
26%
30%
35%
37%
30%

Tractor

420	4418	VOL
	194	AVE EYD

Forwarder

492	0	VOL
	0	AVE EYD

Helicopter

480	0	VOL
	0	AVE EYD

Ground Lead

450	0	VOL
	0	AVE EYD

Skyline

430	0	VOL
	0	AVE EYD

Horse

410	0	VOL
	0	AVE EYD

AVERAGE EXTERNAL YARDING DISTANCE

Unit #	Volume CCF	AEYD Feet

To Calculate % Slope

Top Elevation

Bottom Elevation

EYD Distance (ft)

% Slope = #DIV/0!

% Slope

HAUL

Appraisal Point: Evergreen **State** Montana

Total Sawtimber Tributary Volume: 4,418

(The appraisal point is most advantageous when total transportation cost, including road work, are less than other appraisal points. Appraise to a mill where timber product can be processed. SBA Set Aside Sales are appraised the same way; not to the nearest SBA mill)

(Haul Appraisal for Sawtimber only. Non-Sawtimber included in Non-Sawtimber Adjustments)

WTD HAUL MILES

WTD Haul Note

Segment	Units	Segment Miles Paved	Segment Miles Unpaved	Sawtimber Trib Vol	WTD MILES
148	All		10	4418	10.00
Hwy 2	All	62.4		4418	62.40

WTD Total Paved Miles (Sheet 1) 62.4

WTD Total Unpaved Miles (Sheet 1) 10.0

WDT Total Miles (Sheet 1) 72.4

NON-SAWTIMBER ADJUSTMENTS

Appraisal Point: Libby, MT

DATA INPUT

Delivered Log Price ($/Ton, Nonsawtimber material)	$42.27		
Total Nonsawtimber Volume (CCF) (Primary + Secondary)	3,759		
Total Nonsawtimber Volume (Tons) (Primary + Secondary)	9,712		
Tons / CCF for nonsawtimber material	2.58	0.00	Adjustment
Total Appraised Sawlog Volume (CCF)	4,418		
Total One Way Weighted Haul Miles	54	0	Adjustment

Logging System	All Ground Based	All Cable	Forwarder
Nonsawtimber Primary Product (CCF)	2,987		
Net MBF / Acre Harvested for nonsawtimber primary product	8.4	0.0	0.0
Average DBH Harvested for nonsawtimber primary product	6.3	0.0	0.0
Average Yarding Distance (Feet)	194	0	0
Nonsawtimber Primary Product (Tons)	7,718	0	0
Net Tons / Acre Harvested for nonsawtimber primary product	21.8	0.0	0.0

Nonsawtimber Adjustment	
Final Nonsawtimber Value ($/CCF) A positive number is a negative value.	$24.84
Final Nonsawtimber Adjustment to enter into TE appraisal program ($/CCF)	$0.00

A Negative Adjustment has been Rounded to Zero

LP Non-Saw

Report CS 4 - Nonsaw

Live LP Nonsaw Pri. and Sec. (CS4)	Dead LP Primary Nonsaw (CS4)	Total LP Live and Dead Pri/Sec Nonsaw	Total LP Primary Nonsaw (R101)	Total LP Secondary Nonsaw	Total Live LP Primary Nonsaw
180420	165262	345682	274403	71279	109141
1804	**1653**	**3457**	**2744**	**713**	**1091**
% of Tot	% of Tot				
0.5219	0.4781				
Tons/CCF	Tons/CCF				
3.0200	2.0390				
Average Tons/CCF					
2.5510					

Enter on Species Apppraisal (Tons)	
LPD Prim	1653
LPL Prim	1091
LP Sec	713
Total	3457

% LPD Prim. Post Material	50%	2108 Tons
LPL Prim. and LP Secondary		4603 Tons
Total LP Post and Pole Material		6710 Tons
	Entered from Appraisal CCF to Ton Worksheet	
Total Nonsaw Tons		9712 Tons
Other Nonsaw Material		3002 Tons

Nonsaw Value and Weighted Haul

Appraisal Point (P&P Material)			Libby, MT		
Species	Weighted Haul Miles				
LPL, LPD	Gravel	Paved	Total Haul	Qty (Tons)	Value/Ton
	10	27.7	37.7	6710	$50.00

Appraisal Point			Bonners Ferry, ID		
Species	Weighted Haul Miles				
All Other	Gravel	Paved	Total Haul	Qty (Tons)	Value/Ton
	10	79.2	89.2	3002	$25.00

Total Nonsaw (Tons)	9712		
Weighted Haul Miles	53.6	Weighted Value/Ton	$42.27

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

	$/CCF	$/TON	
Total Performance Recurrent Maintenance (Part A)			
C(T)5.31 - Recurrent Maintenance	$1.42	$0.49	
C(T)5.312 - Reconditioning	$2.07	$0.73	
Total Performance (Part A)	**$3.49**	**$1.22**	**(A)**
Total Required Deposits (Recurrent and Deferred) (Part B)			**Recurrent**
(Enter appropriate rate in TIM - Gate 4 - Road Maint. Plan - ADVR105	$1.53	$0.54	**Deferred**
C(T)5.32# - Total Required Deposits (Part B)	**$1.53**	**$0.54**	**(B)**
C(T)5.314 - Total Dust Abatement (Part C)	$1.13	$0.40	**(C)**
TOTAL MAINTENANCE COST (Parts A-B-C)	**$6.15**	**$2.16**	

Appraisal Rates

(Entries for 2400 - 17)

Total Required Deposits	$ $2.83	**CCF**
Total Road Maintenance Costs (Performance + Deposits)	$ $11.38	**CCF**

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

Specified Road Construction

LOGGING METHOD SUMMARY

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarder	TOTAL
Acres	205	0	0	0	0	205
Volume	4418	0	0	0	0	4418
EYD	194	0	0	0	0	

IDENTIFY FACILITIES (ADVR102)

Attach completed "IDENTIFY FACILITIES FORM"
O:\NFS\Kootenai\Program\2400TimberMgmt\SO\2420TimberAppraisals\TIMBER SALE REPORT

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

BASE RATE ADJUSTMENT FOR REGENERATION COST

Total Required Regeneration Costs - FACTS Line 21 Remarks **$96,496.00**
(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) _____CCF X $0.25 (NFF)	8,177	$0.25	$2,044.25		
Select Either (a) or (b)					% Sawtimber
(A) Green Sale - Required Regen Cost $ 100% Sawtimber Vol. =	$96,496.00	100%	$96,496.00	(d)	54%
(B) Salvage Sales enter % Live Sawtimber Volume; Partial Cut Stands enter % Volume remaining.		=			
	Total:		$98,540.25	(a)	

Species Groups	Volume (CCF)	Minimum Rates 1/ Per CCF	Minimum Rates 1/ Total	Base Rates 2/ Per CCF	Base Rates 2/ Total
WP, PP, C	357	$5.00	$1,785.00	$23.29	$8,315.18
All other species (list)	4061	$3.00	$12,183.00	$21.29	$86,466.07
Nonsawtimber (all species)	3759	$1.00	$3,759.00	$1.00	$3,759.00
TOTALS	8177	XXXXX	$17,727.00 (b)	XXXXX	$98,540.25
Sawtimber (Appraisal) Volume	4418				
			Weighted Average Minimum Rate		$3.16

(a) - (b) = (c) amount need in addition to base rates (plus $.25/CCF) **$80,813.25 (c)**

Note: If minimum rate total (b) => (a) no adjustment needed ⟶ **Adjust Base Rate**

Adjustment To Minimum Rate:
$_____ (c) / (Total Sawtimber Volume) CCF = $___/CCF **$80,813.25 | 4,418 | $18.29**

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 Availiable for Protected KV at Base Rates = **$96,496.00**
(The only stumpage availiable for KV at advertised rates is when KV is protected by base rates)

BRUSH DISPOSAL

From FACTS - Detailed Listing of BD and Purchaser Slash Treatment Activities

Appraisal Rates for 2400-17 (Applied to Sawtimber only)

Forest Service Rate (Fund Code BDBD)	$26,299.00 Total $	(a)	$5.95 CCF
Purchaser Rate (Fund Code PPPP)	$47,202.00 Total$	(b)	$10.68 CCF
	TOTAL: (a) + (b) =		$16.63 CCF

Contract Rates (Applied to All Products)

Forest Service Rate Per CCF (Fund Code BDBD)	$3.22 CCF
(Rate Per CCF Converted to Tons for Weight Scale Contracts)	$1.14 TON

Lump Sum BD Deposits for Weight Scaled Sales

Cutting Unit Number	Required Deposits
1P	$2,347.83
1R	$701.14
1A	$2,164.51
1B	$1,170.70
1C	$1,170.70
1D	$932.70
1E	$1,286.49
2	$1,051.70
3A	$675.41
3B	$3,245.16
3C	$675.41
4A	$2,434.68
4B	$1,759.27
5	$3,110.08
5A	$604.65
6	$2,968.57

Total Cost $26,299.00

(Sheet 1)

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 rational for deviation from the standard seed mix.

Species of Seed	Pounds per Acre
Winter Wheat	18
Hard Fescue	6
Orchard Grass	6
TOTAL	30

Type of Fertilizer	Pounds per Acre
25-10-10 or 27-12-12 or 34-16-10	240
TOTAL	240

Crossdrains

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

Scarification - Landings and Skid Trails ONLY

[ ] acres @ [ ] per acre = **$0.00**

Seed and Fertilizer

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

Temporary Roads [ ] feet = **0.0** **acres**
Firelines [ ] feet = **0.0** **acres**

Skid Trails

Number of acres to be skidded using ground based systems times the percentage of area requiring seed and fertilizer. 205 acres X 4 % = **8.2** **acres**

Number of acres to be yarded using cable systems times the percentage of area requiring seed and fertilizer. [ ] acres X [ ] % = **0.0** **acres**

Landings

Number of landings 16 X 0.25 acres per landing = **4.0** **acres**

TOTAL **12.2** **acres**

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarde	Horse
Acres	205	0	0	0	0	0

Seed mix, fert., labor costs:

	Lbs / Acre		$ / Lb		$ per Acre
Winter Wheat	18	X	$2.00	=	$36.00
Hard Fescue	6	X	$2.00	=	$12.00
Orchard Grass	6	X	$2.00	=	$12.00
0	0	X		=	$0.00
0	0	X		=	$0.00
Fertilizer	240	X		=	$0.00
*Labor per Acre				=	$150.00
				$ per acre	$210.00

Total cost for

SEEDING	12.2	acres X	$60.00	$/acre =		$732.00
FERTILIZER	12.2	acres X	$0.00	$/acre =		$0.00
LABOR	12.2	acres X	$150.00	$/acre =		$1,830.00
SCARIFICATION						$0.00
				TOTAL		$2,562.00

$2,562.00 **COST** / 4418 **CCF** = $0.58 **PER CCF**

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

Document Rational for Changes to Standard Seed Mix.

OTHER CONTRACTUAL REQUIREMENTS (A)

***Other* - Include Contractual Obligations Requiring Performance Bond Coverage**
(Road closure, Barriers, Trail Restoration, etc.)

ITEM	#	X	COST		=	TOT COST
Walking Equipment	4	X	$100.00	hour	=	$400.00
(# of hours x $'s/hour; from MP 9 to MP 10						
		X			=	$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
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
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

$400.00 Cost / 4418 CCF = $0.09 CCF

Subtotal Other Contractual Requirements (A) = $0.09 CCF

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.

Herbicide (Common name)	Application Rate oz per acre	Cost Per oz	Cost per UOM
Aminopyralid	7	$2.33	$58.72 mile
		$0.00	$0.00 mile
		$0.00	$0.00 mile
		$0.00	$0.00 mile

Price qoute for herbicide obtained from: Wilbur Ellis

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: 4 miles

Herbicide to be applied:	Miles	$ UOM	Tot Cost
Aminopyralid	4	$58.72	$234.88
		$0.00	$0.00
		$0.00	$0.00
		$0.00	$0.00
Sufactant & dye:	4		$0.00
Application Cost (Labor):	4		$0.00
Misc. Expensense:	4		$0.00

TOTAL WEED TREATMENT: $234.88 cost / 4418 CCF = $0.05 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)
Cleaning costs per piece $0.00
Number of seasons
CCF 4418

Total cost for washing equipment per CCF $0.00 CCF

Subtotal Other Contractual Requirements (B) $0.05 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 /	4418	CCF =	$0.00	CCF

Snow Plowing

	# miles X		per mile X		# plowings	=	$0.00

$0.00	Cost /	4418	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
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
XXX		X	$0.00	per XXX	=	$0.00

$0.00	Cost /	4418	CCF =	$0.00	CCF

Subtotal Miscellaneous Contractual Requirements (C) $0.00 CCF

Total Other Contractual Requirements (A+B+C)	$0.14 CCF
Brush Disposal (Purchaser and FS)	$16.63 CCF
Total Environmental Protection Cost	$16.77 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
(Total Temporary Development Costs)

$0.00 Cost $ / 4418 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

Cost $ / 4418 CCF = $0.00 CCF

TIMBER SALE CONTRACT INFORMATION

Tim Gate 4 - Contract Preparation information (ADVR114)

Normal Operating Season
\DVR114, Page

				Units
First Period :	15-Jun	to	31-Oct	All units
Second Period:		to		

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

Periodic Payment Schedule

Approximate Award Date: 09/30/14 mm/dd/yy

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

Contract Termination Date: 10/31/16 mm/dd/yy

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

Approximate Payment Date: 10/16/15

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 / \
AD-C Firefighter wage is updated yearly, ~March (FSH 5109.34 Chp 10). Link below to directive.

(A)	Total Volume =	8177	CCF
(B)	Sale Duration =	2.1	YEARS (Calculated from Award Date to Termination Date)
(C)	Operating Days in Sale =	252	(Sale Duration X 120 days.)
(D)	CCF Per Day =	###	(Total Volume / Operating Days in Sale)
(E)	Men Needed to Log Sale =	6.5	(CCF Per Day / 5 CCF)

(F) Liability = $17.60 (Wage Rate AD 12 (hrs/shift) X 5 (# shifts) X
http://www.fs.fed.us/r1/fire/nrcg/Committees/business_commi
6.5 (# men) = TOTAL LIABILITY = $6,864

Round up to nearest $50.00 up to $200.00, then round up to nearest $100.00
ROUNDED TOTAL = $6,900

When sale is entered through TIM, Bid Guarantee is calculated and auto-filled during completion of Gate 4 –Prospectus, Bid and Misc. Information – Page 1- (ADVR115)

MINIMUM PERFORMANCE BOND:

TIM Gate 4 - Prospectus, Bid and Misc. Information - Page 3 - (ADVR115)

The greater of (A) or (B) rounded **UP** to nearest $100.00 if sale is under $10,000.00 stumpage value and up to nearest $1,000.00 if sale is over $10,000 stumpage value.

(A) Advertised Value $151,276 X 10% = $15,128

Rounded 10% Advertised Value = **$16,000** **(A)**

(B) Purchaser requirements (Performance) - Based on number of seasons.

Road Maintenance =	$1.42	CCF
Erosion =	$0.58	CCF
Brush Disposal =	$10.68	CCF
Other =	$0.14	CCF
Total =	$12.82	CCF

Total Purchaser Requirements = $12.82 X Tot Vol 4418 CCF = $56,639 Tot Value

divided by 3 # Seasons = $18,880 Performance Bond Value

Rounded Performance Bond Value = **$19,000** **(B)**

MINIMUM PERFORMANCE BOND **$19,000**