2450
NORTHERN REGION - R-1
FOREST = 14 - Kootenai * DISTRICT 04 - Three Rivers *
Expiration Date = April 1, 2015
V14.1

TIMBER SALE AND TRANSACTION EVIDENCE APPRAISAL REPORT

Select Contract Type

Spread Thick
(SALE NAME)

TIM # 14402

TYPE 6 - Contract Form 2400-6 UOM TON

Prepared by (Signature) (Date)

Prepared by (Signature) (Date)

Reviewed by (Signature) (Date)

Recommended 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): T36N, R32W, PMM

Sale Area Legal Description (long):

Portions of Sections 26, 27, 28, 29, 32, 33, 34 and 35, T36N, R32W; portions of sections 2, 3, and 4, T35N, R32W, Lincoln 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): 10

Environmental Documentation:

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

NEPA Document Name	Percentage of Sale Volume (CCF)
Buckhorn EIS/ROD	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.

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)

Salvage plus Regeneration *

SSF Volume (CCF): **9837** **23%** **% 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:	# 14402	CHECK CRUISE:	
Date of Cruise	6/12/2014	Date of Check:	Jul-14
Cruisers:	Laffoon, Farmer, Turk Cole (certification plots only with 100% check)	Cruisers:	Sedler
Method:	VP saw, FP non-saw	Results:	Pass @ 97%
SE%:	11.23		

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					
9	53	165696	1657	75258	753
9A	2	6253	63	2840	28
9B	4	12505	125	5680	57
9C	47	146938	1469	66738	667
10	235	734688	7347	333689	3337
12	62	193833	1938	88037	880
13	42	131306	1313	59638	596
14	174	543982	5440	247072	2471
14A	10	31263	313	14200	142
14B	24	75032	750	34079	341
14C	8	25011	250	11360	114
15	86	268865	2689	122116	1221
16	57	178201	1782	80937	809
16A	29	90664	907	41179	412
17	21	65653	657	29819	298
18	5	15632	156	7100	71
19	54	168822	1688	76678	767
20	29	90664	907	41179	412
		2945008	Sawtimber	1337599	Non-Saw
TOTAL SALE UNIT VOLUME (CCF)			29451 (Sheet 1)		13376 (Sheet 1)
			29451 (Sheet 1&2)		13376 (Sheet 1&2)

NET MBF/CCF Ratio from NCS Report CS1

Sawtimber (Product 01): 0.51719

Non-Saw (Product 08): .52352

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	75601	756	14	9.8	19.1	29603	296
C	422266	4223	33	10.3	17.1	179082	1791
DF	103296	1033	22	10.2	18.2	33190	332
GF	651792	6518	13	12.5	11.5	111531	1115
H	954817	9548	17	10.5	16.4	352946	3530
L	173756	1738	29	10.9	19.3	128145	1281
LP	333285	3333	18	10.9	16.5	299595	2996
PP		0					0
S	203425	2034	9	11.2	14.1	38620	386
WP	26768	268	18	12.1	14.9	164886	1649
	2945006					1337598	
TOTAL VOLUME		29451 CCF					13376 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)					
		Cruise	Appraisal	ROW	Logging	Harvest	Land Suit		Unit Volume CCF		Yield Component		Unit TONS	
Unit #	P.U.#	Unit Acres	Unit Acres	Acres	Method	Method	Class	MA	Sawtimber	Non-Saw	CL	NL	Saw	Non Saw
ROW units need to be entered last							Enter KNF MAs Here							
9	9	53	53		420	177	500	12	1657	753	2410		4965	2066
9A	9A	2	2		420	177	500	12	63	28	91		189	77
9B	9B	4	4		420	177	500	12	125	57	182		375	156
9C	9C	47	47		420	177	500	12	1469	667	2136		4402	1830
10	10	235	235		420	183	500	12	7347	3337	10684		22016	9158
12	12	62	62		420	183	500	12	1938	880	2818		5807	2415
13	13	42	42		420	183	500	12	1313	596	1909		3935	1636
14	14	174	174		420	183	500	12	5440	2471	7911		16302	6781
14A	14A	10	10		420	183	500	12	313	142	455		938	390
14B	14B	24	24		420	183	500	12	750	341	1091		2247	936
14C	14C	8	8		420	183	500	12	250	114	364		749	313
15	15	86	86		420	183	500	12	2689	1221	3910		8058	3351
16	16	57	57		420	177	500	12	1782	809	2591		5340	2220
16A	16A	29	29		420	177	500	12	907	412	1319		2718	1131
17	17	21	21		420	177	500	12	657	298	955		1969	818
18	18	5	5		420	177	500	12	156	71	227		467	195
19	19	54	54		420	183	500	11	1688	767	2455		5058	2105
20	20	29	29		420	183	500	14	907	412	1319		2718	1131
Totals Sheet 1		942	942	0					29451	13376	42827	0	88253	36708

Total Sale Area: 2256 Sale Area Acres

Total Cutting Area: 942 Acres (Sheet 1)

Total Sawtimber (Sheet 1) 29451 CCF

Total Saw + Non-Saw (Sheet 1) 42827 CCF

APPRAISAL CCF TO TON WORKSHEET

SAWTIMBER - CCF

Species	Defect %	Net Volume	Total Additional	Total Net	Tons Per CCF	Total Tons	
AF	14	756	0	756	2.4735	1870	
C	33	4223	0	4223	2.3540	9941	
DF	22	1033	0	1033	3.0160	3116	
GF	13	6518	0	6518	3.1275	20385	
H	17	9548	0	9548	3.2425	30959	
L	29	1738	0	1738	3.1935	5550	
LP	18	3333	0	3333	3.0210	10069	
PP	0	0	0	0	3.2230	0	
S	9	2034	0	2034	2.7040	5500	
WP	18	268	0	268	3.2230	864	
TOTAL =	19	29451	0	29451	2.9966	88254	=

Net MBF/CCF Ratio For Sawtimber From NCS Report CS1: .51719

TIM Conversion	Prep 105 Factors
MBF	CCF
.17260	.33370

NON-SAWTIMBER - CCF

Species		Net Volume	Additional Non-Saw	Total Net	Tons Per CCF	Total Tons	
AF		296		296	2.3340	691	
C		1791		1791	2.1400	3833	
DF		332		332	2.7885	926	
GF		1115		1115	2.9470	3286	
H		3530		3530	3.0590	10798	
L		1281		1281	3.0785	3944	
LP	69% %Dead	2996		2996	2.3431	7020	
PP		0		0	3.1510	0	
S		386		386	2.6330	1016	
WP		1649		1649	3.1500	5194	
TOTAL =		13376	0	13376	2.7443	36708	=

Net MBF/CCF Ratio For Non-Sawtimber From NCS Report CS1: .52352

TIM Conversion	Prep 105 Factors
MBF	CCF
.19080	.36440

	Gross	Net	Tons
TOTALS =	0	42827	124962

APPRAISAL SUMMARY

CONTRACT VOLUME (CCF)	42827
APPRAISAL VOLUME (CCF)	29451
CONTRACT VOLUME (TONS)	124962 (Note: Total Tons to be used for Rd. Maintenance Appr.)
WTD TONS/CCF	2.9200

LOGGING METHOD SUMMARY

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarder	Horse	TOTAL	Swing Not Included in Totals
Acres	942	0	0	0	0	0	942	0
Volume	29451	0	0	0	0	0	29451	0
AEYD	1433	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	0	0	0	724	0	0	0	724
Volume	0	0	0	22635	0	0	0	22635
% Acres	0%	0%	0%	100%	0%	0%	0%	
% Vol	0%	0%	0%	100%	0%	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	Hemlock and other	0.1726	0.3337	7	1	8.0	5.6	10.67
					0	0	0.0	0	0
					0	0	0.0	0	0
✓	CS	Live and Dead	0.1908	0.3644	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).

☐ 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

AVERAGE EXTERNAL YARDING DISTANCE

Unit #	Volume CCF	AEYD Feet		% Slope
9	1657	1600	To Calculate % Slope	20%
9A	63	500		10%
9B	125	900	Top Elevation	5%
9C	1469	1500		10%
10	7347	1400		25%
12	1938	1900	Bottom Elevation	20%
13	1313	1200		20%
14	5440	1400		25%
14A	313	600	EYD Distance (ft)	10%
14B	750	1300		30%
14C	250	800		10%
15	2689	1300	% Slope =	20%
16	1782	1600	#DIV/0!	25%
16A	907	1300		5%
17	657	1000		10%
18	156	500		5%
19	1688	1400		25%
20	907	1200		20%

Tractor			Forwarder			Helicopter			Ground Lead		
420	29451	VOL	492	0	VOL	480	0	VOL	450	0	VOL
	1433	AVE EYD		0	AVE EYD		0	AVE EYD		0	AVE EYD

Skyline			Horse		
430	0	VOL	410	0	VOL
	0	AVE EYD		0	AVE EYD

AVERAGE EXTERNAL YARDING DISTANCE

Unit #	Volume CCF	AEYD Feet		% Slope
			To Calculate % Slope	
			Top Elevation	
			Bottom Elevation	
			EYD Distance (ft)	
			% Slope =	#DIV/0!

HAUL

Appraisal Point: Moyie Springs **State** Idaho

Total Sawtimber Tributary Volume: 29,451

(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
US 2	All															15		29451	15.00
508	All															22.5		29451	22.50
5955-9A	9	9A	9B	9C	10												1	10661	0.36
5955-9C	9	9B	9C	10													0.5	10598	0.18
5955-9B	9	9B	10														0.25	9129	0.08
5955-10	9	10															1.6	9004	0.49
435-12	12	13	14	14A	14B	14C	15	16	16A	17	18	19	20				0.8	18790	0.51
435-14A	13	14	14A	14B	14C	15	16	16A	17	18	19	20					0.4	16852	0.23
5932 Jct	14	14B	14C	15	16	16A	17	18	19	20							0.3	15226	0.16
435-16A	16A	17	18														0.8	1720	0.05
435-17	17	18															0.5	813	0.01
435-18	18																0.7	156	0.00
5932-14B	14	14B	14C	16	19	20											0.3	10817	0.11
5932E Jct	14	14C	16	19	20												0.7	10067	0.24
4932E	16																1.7	1782	0.10
5932G Jct	14	14C	19	20													0.4	8285	0.11
5932G-19	14	14C	19														0.5	7378	0.13
5932G-14	14	14C															0.7	5690	0.14
5932-20	20																0.9	907	0.03

WTD Total Paved Miles (Sheet 1) 37.5

WTD Total Unpaved Miles (Sheet 1) 2.9

WDT Total Miles (Sheet 1) 40.4

NON-SAWTIMBER ADJUSTMENTS

Appraisal Point: Bonners Ferry

DATA INPUT

Delivered Log Price ($/Ton, Nonsawtimber material)	$31.83		
Total Nonsawtimber Volume (CCF) (Primary + Secondary)	13,376		
Total Nonsawtimber Volume (Tons) (Primary + Secondary)	36,708		
Tons / CCF for nonsawtimber material	2.74	**0.00**	Adjustment
Total Appraised Sawlog Volume (CCF)	29,451		
Total One Way Weighted Haul Miles	49		Adjustment

Logging System	**All Ground Based**	**All Cable**	**Forwarder**
Nonsawtimber Primary Product (CCF)	9,741		
Net MBF / Acre Harvested for nonsawtimber primary product	5.4	0.0	0.0
Average DBH Harvested for nonsawtimber primary product	6.1	0.0	*0.0*
Average Yarding Distance (Feet)	1,433	0	0
Nonsawtimber Primary Product (Tons)	26,732	0	0
Net Tons / Acre Harvested for nonsawtimber primary product	14.9	0.0	0.0

Nonsawtimber Adjustment	
Final Nonsawtimber Value ($/CCF) A positive number is a negative value.	-$0.51
Final Nonsawtimber Adjustment to enter into TE appraisal program ($/CCF)	$0.51

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
92000	207595	299595	266691	32904	59096
920	2076	2996	2667	329	591
% of Tot	% of Tot				
0.3071	0.6929				
Tons/CCF	Tons/CCF				
3.0200	2.0390				
Average Tons/CCF					
2.3402					

Enter on Species Appprailsal (Tons)	
LPD Prim	2076
LPL Prim	591
LP Sec	329
Total	2996

% LPD Prim. Post Material	25%	→	1215 Tons
LPL Prim. and LP Secondary		→	2153 Tons
Total LP Post and Pole Material		→	3368 Tons
	Entered from Appraisal CCF to Ton Worksheet		
Total Nonsaw Tons		→	36708 Tons
Other Nonsaw Material		→	33340 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
	2.9	53.5	56.4		3368	$50.00

Appraisal Point			Bonners Ferry, ID			
Species	Weighted Haul Miles					
All Other	Gravel	Paved	Total Haul		Qty (Tons)	Value/Ton
	2.9	45.5	48.4		33340	$30.00

Total Nonsaw (Tons)	36708		
Weighted Haul Miles	49.1	Weighted Value/Ton	$31.83

RIGHTS - OF - WAY

(Include Cost share Agreements)

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

☐ Check Box to use Small Sale RM Rates. ☐ Check Box to use Small Sale RM Rates plus

(From Road Maintenance Appraisal Summary, sheets are attached)

Contract Rates

	$/CCF	$/TON	
Total Performance Recurrent Maintenance (Part A)			
C(T)5.31 - Recurrent Maintenance	$0.94	$0.33	
C(T)5.312 - Reconditioning	$0.00	$0.00	
Total Performance (Part A)	**$0.94**	**$0.33**	**(A)**
Total Required Deposits (Recurrent and Deferred) (Part B)	$0.00	$0.00	**Recurrent**
(Enter appropriate rate in TIM - Gate 4 - Road Maint. Plan - ADVR105	$0.55	$0.19	**Deferred**
C(T)5.32# - Total Required Deposits (Part B)	**$0.55**	**$0.19**	**(B)**
C(T)5.314 - Total Dust Abatement (Part C)	$0.44	$0.15	**(C)**
TOTAL MAINTENANCE COST (Parts A-B-C)	**$1.93**	**$0.67**	

Appraisal Rates

(Entries for 2400 - 17)

Total Required Deposits	$ $0.80	**CCF**
Total Road Maintenance Costs (Performance + Deposits)	$ $2.81	**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	942	0	0	0	0	942
Volume	29451	0	0	0	0	29451
EYD	1433	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.

Appraisal information required for the 2400-17 report is to be summarized from the Identify Facilities

SPECIFIED ROAD COST

	Miles	Total Cost
Construction		
Reconstruction	13.7	$146,426

Total Cost $146,426 / 29451 CCF = $4.97 $ / CCF

BASE RATE ADJUSTMENT FOR REGENERATION COST

Total Required Regeneration Costs - FACTS Line 21 Remarks **$599,418.00**
(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)	42,827	$0.25	$10,706.75		
Select Either (a) or (b)					% Sawtimber
(A) Green Sale - Required Regen Cost $ 100% Sawtimber Vol. =	$599,418.00	100%	$581,435.46	(d)	69%
(B) Salvage Sales enter % Live Sawtimber Volume; Partial Cut	=	97%			
Stands enter % Volume remaining.	Total:		$592,142.21	(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	4491	$5.00	$22,455.00	$21.35	$95,868.72
All other species (list)	24960	$3.00	$74,880.00	$19.35	$482,897.49
Nonsawtimber (all species)	13376	$1.00	$13,376.00	$1.00	$13,376.00
TOTALS	42827	XXXXX	$110,711.00 (b)	XXXXX	$592,142.21
Sawtimber (Appraisal) Volume	29451				
		Weighted Average Minimum Rate		$3.30	

(a) - (b) = (c) amount need in addition to base rates (plus $.25/CCF) **$481,431.21** (c)

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

Adjustment To Minimum Rate:
$_____ (c) / (Total Sawtimber Volume) CCF = $___/CCF

$481,431.21	29,451	$16.35

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 = **$581,435.46**
(The only stumpage availiable for KV at advertised rates is when KV is protected by base rates)

Partial Cut Stands to be Regenerated

Unit #	Acres	% Acres Remain	Acres
9	53	100%	53
9A	2	95%	1.9
9B	4	100%	4
9C	47	85%	39.95
10	235	97%	227.95
12	62	95%	58.9
13	42	95%	39.9
14	174	97%	168.78
14A	10	95%	9.5
14B	24	97%	23.28
14C	8	95%	7.6
15	86	97%	83.42
16	57	100%	57
16A	29	97%	28.13
17	21	97%	20.37
18	5	100%	5
19	54	97%	52.38
20	29	100%	29
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
Column Totals	942		910.06

Unit #	Acres	% Acres Remain	Acres
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
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			0
			0
			0
			0
			0
			0
			0
Column Totals	0		0

	Acres	Acres Remaning
Totals	942	910.06

% Sawtimber	69%
% Remaining Acres	97%
Final %	67%

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)	$170,750.00	Total $	(a)	$5.80	CCF
Purchaser Rate (Fund Code PPPP)	$193,145.00	Total$	(b)	$6.56	CCF
		TOTAL: (a) + (b) =		$12.36	CCF

Contract Rates (Applied to All Products)

Forest Service Rate Per CCF (Fund Code BDBD)	$3.99	CCF
(Rate Per CCF Converted to Tons for Weight Scale Contracts)	$1.37	TON

Lump Sum BD Deposits for Weight Scaled Sales

Cutting Unit Number	Required Deposits
9	$9,608.60
9A	$362.81
9B	$725.63
9C	$8,516.17
10	$42,596.80
12	$11,235.28
13	$7,611.13
14	$31,540.93
14A	$1,814.07
14B	$4,349.79
14C	$1,451.26
15	$15,589.06
16	$10,330.24
16A	$5,258.81
17	$3,807.56
18	$905.04
19	$9,788.01
20	$5,258.81

Total Cost $170,750.00
(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

16.2 acres @ $100.00 per acre = $1,620.00

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. 942 acres X 1 % = 9.4 **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 46 X 0.25 acres per landing = 11.5 **acres**

TOTAL 20.9 **acres**

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarde	Horse
Acres	942	0	0	0	0	0

Seed mix, fert., labor costs:

	Lbs / Acre		$ / Lb		$ per Acre
Winter Wheat	18	X	$0.79	=	$14.22
Hard Fescue	6	X	$3.19	=	$19.14
Orchard Grass	6	X	$1.69	=	$10.14
0	0	X		=	$0.00
0	0	X		=	$0.00
Fertilizer	240	X		=	$0.00
*Labor per Acre				=	$100.00
				$ per acre	$143.50

Total cost for

SEEDING	20.9	acres	X	$43.50	$/acre	=	$909.15
FERTILIZER	20.9	acres	X	$0.00	$/acre	=	$0.00
LABOR	20.9	acres	X	$100.00	$/acre	=	$2,090.00
SCARIFICATION							$1,620.00
					TOTAL		$4,619.15

$4,619.15 **COST** / 29451 **CCF** = $0.16 **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
Remove Barrier Rd 435X	1	X	$72.00	Each	=	$72.00
To access upper landing unit 12						
Install Barrier Rd 435X	1	X	$112.00	Each	=	$112.00
Seed Roads 5955, 5956, 5932G	6.15	X	$143.50	Acre	=	$882.53
System road stabilization C5.419#						
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

$1,066.53 Cost / 29451 CCF = $0.04 CCF

Subtotal Other Contractual Requirements (A) = $0.04 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	
Milestone	6	$2.34	$50.54	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: 14.52 miles

Herbicide to be applied:	Miles	$ UOM	Tot Cost
Milestone	14.52	$50.54	$733.84
		$0.00	$0.00
		$0.00	$0.00
		$0.00	$0.00
Sufactant & dye:	14.52	$2.45	$35.57
Application Cost (Labor):	14.52	$20.00	$290.40
Misc. Expensense:	14.52	$32.00	$464.64

TOTAL WEED TREATMENT: $1,524.45 cost / 29451 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)		Number of seasons	
Cleaning costs per piece	$0.00	CCF	29451

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 /	29451	CCF	=	$0.00	CCF	

Snow Plowing

207	# miles X	$40.00	per mile X	1	# plowings	=	$8,280.00
$8,280.00	Cost /	29451	CCF	=	$0.28	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 /	29451	CCF	=	$0.00	CCF

Subtotal Miscellaneous Contractual Requirements (C) $0.28 CCF

Total Other Contractual Requirements (A+B+C)	$0.37	CCF
Brush Disposal (Purchaser and FS)	$12.36	CCF
Total Environmental Protection Cost	$12.73	CCF

TEMPORARY ROADS

1.29 Miles

Temporary Road #1	Cost $
Temp 9	$6,159.00

Temporary Road #2	Cost $
Temp 14	$8,725.00

Temporary Road #3	Cost $
0	$0.00

Temporary Road #4	Cost $
0	$0.00

Temporary Road #5	Cost $
0	$0.00

TOTAL TEMPORARY ROAD COST = **$14,884.00**
(Total Temporary Development Costs)

$14,884.00 Cost $ / 29451 CCF = $0.51 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 **$0.18**

UNUSUAL CONDITION ADJUSTMENTS

Cost $ / 29451 CCF = $0.00 CCF

TIMBER SALE CONTRACT INFORMATION

Tim Gate 4 - Contract Preparation information (ADVR114)

Normal Operating Season
ADVR114, Page 1

				Units
First Period :	16-Jun	to	30-Sep	13, 14B, 15, 16, 20
Second Period:	1-Dec	to	28-Feb	9, 9A, 9B, 9C, 10, 12, 14, 14A, 14C, 16A, 17, 18, 19

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

Periodic Payment Schedule

Approximate Award Date: 08/25/14 mm/dd/yy

(And Road Completion Date if roads are included.)
Road Completion Date: 09/30/15 mm/dd/yy
(ENTER N/A if no roads)

Contract Termination Date: 10/31/19 mm/dd/yy

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

Approximate Payment Date: 05/03/18

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

(A)	Total Volume =	42827	CCF
(B)	Sale Duration =	5.2	YEARS (Calculated from Award Date to Termination Date)
(C)	Operating Days in Sale =	624	(Sale Duration X 120 days.)
(D)	CCF Per Day =	68.6	(Total Volume / Operating Days in Sale)
(E)	Men Needed to Log Sale =	13.7	(CCF Per Day / 5 CCF)

(F) Liability = $17.60 (Wage Rate AD-C 12 (hrs/shift) X 5 (# shifts) X

13.7 (# men) = TOTAL LIABILITY = $14,467

Round up to nearest $50.00 up to $200.00, then round up to nearest $100.00
ROUNDED TOTAL = $14,500

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 $1,576,341 X 10% = $157,634

Rounded 10% Advertised Value = **$158,000** **(A)**

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

Road Maintenance =	$0.94	CCF
Erosion =	$0.16	CCF
Brush Disposal =	$6.56	CCF
Other =	$0.27	CCF
Total =	$7.93	CCF

Total Purchaser Requirements = $7.93 X Tot Vol 29451 CCF = $233,463 Tot Value

divided by 5 # Seasons = $46,693 Performance Bond Value

Rounded Performance Bond Value = **$47,000** **(B)**

MINIMUM PERFORMANCE BOND **$158,000**

Use this sheet to calculate advertised value and to convert $/CCF to $/Tons.

Attach this sheet to the 2400-17 for Documentation.

Sawtimber Rate from the 2400-17 $53.07

Conversion to Tons

	Adv. Rate	CCF Vol	Tons	Advertised Rate per Ton
Sawtimber	$53.07	29451	88254	$17.71
Non_Saw	$1.00	13376	36708	$0.36
Base Rate (Sawtimber)	$19.65	29451	88254	$6.56

Total Advertsed Value $1,576,340.57