

450

NORTHERN REGION - R-1

FOREST = **10 - Flathead** *

DISTRICT **06 - Hungry Horse** *

Expiration Date = April 1, 2014

V14.1

**TIMBER SALE AND
TRANSACTION EVIDENCE
APPRAISAL REPORT**

Slippery Bill Stewardship
(SALE NAME)

Select Contract Type

TIM # **14601**

TYPE **13 - Contract Form 2400-13** UOM **TON**



Prepared by (Signature)

5-29-14

(Date)

Prepared by (Signature)

(Date)



Approved by (Signature)

5-29-14

(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): *

Sale Area Legal Description (short T & R):

Sale Area Legal Description (long):

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):

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>
<input type="text" value="Middle Fork Fuels Reduction Project Decision Notice"/>	<input type="text" value="100"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

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 OBJECTIVE

TIM, Gate 3, Create Timber Sale (Prep101)

Purpose (TIM -PREP101)

Activity

% of Sale Volume - CCF (TIM - PREP101)

* TC - Timber Commodity Purpose
* FS - Forest Stewardship Purpose
*

01 - Timber Purpose
10 - Forest and Health
*
*
*

87
13

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 Component with Sanitation, Stand Improvement, or Regeneration *
(Use for all other sales - stand(s) that include a salvage component)

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:

Keigh Smiley
Eric Jupin
Paul Johnson
Chris Roy
Darin Nichols

 Cruisers:

Cory Anderson

Method: Results:
SE%:

Method of determining ROW volume:

Basis for Percent Defect:

CUTTING UNIT DESCRIPTION
(TIM GATE 3 - PREP 104)

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

Unit #	P.U.#	Cruise		ROW	Logging Method	Harvest Method	Land Suit Class	MA	Unit Volume CCF		Yield Component		Unit TONS		
		Unit Acres	Appraisal Unit Acres						Acres	Method	Sawtimber	Non-Saw	CL	NL	Saw
3		5	5		420	115	500	17	209	21	230			583	55
3A		3	3		420	115	500	17	126	13	139			352	34
5		34	34		420	115	500	17	1423	144	1567			3971	379
6		10	10		420	220	500	17	185	57	242			516	150
6B		1	1		420	220	500	17	19	6	25			53	16
7		12	12		420	220	500	7	222	68	290			620	179
9		13	13		420	123	500	15	194	89	283			541	234
9A		3	3		430	115	500	15	45	21	66			126	55
9B		6	6		430	115	500	15	90	41	131			251	108
10		10	10		420	123	500	15	149	69	218			416	181
11		51	51		420	220	500	15	349	150	499			974	394
12		30	30		430	220	500	15	556	170	726			1552	447
13		157	157		420	220	500	15	1073	463	1536			2995	1217
15		1	1		420	152	500	15	42	4	46			117	11
15A		1	1		420	152	500	15	42	4	46			117	11
15B		2	2		420	152	500	15	84	8	92			234	21
15C		2	2		420	152	500	15	84	8	92			234	21
23		3	3		420	220	700	18	56	17	73			156	45
23A		4	4		420	220	700	18	74	23	97			207	60
24		2	2		430	220	500	15	37	11	48			103	29
24A		5	5		430	220	500	15	93	28	121			260	74
24B		6	6		420	220	500	15	111	34	145			310	89
24C		12	12		420	220	500	15	222	68	290			620	179
24E		9	9		420	220	500	15	167	51	218			466	134
24F		50	50		420	220	500	15	926	283	1209			2584	744
24G		2	2		430	132	500	15	37	11	48			103	29
25		48	48		420	152	700	18	889	272	1161			2481	715
27		7	7		420	132	500	15	104	48	152			290	126
Totals Sheet 1		489	489	0					7608	2182	9790	0		21233	5736

ROW units need to be entered last

Total Sale Area: **1392** Sale Area Acres
 Total Cutting Area: **489** Acres (Sheet 1)
 Total Sawtimber (Sheet 1) **7608** CCF
 Total Saw + Non-Saw (Sheet 1) **9790** CCF

APPRAISAL CCF TO TON WORKSHEET

SAWTIMBER - CCF

<u>Species</u>	<u>Defect %</u>	<u>Net Volume</u>	<u>Total Additional</u>	<u>Total Net</u>	<u>Tons Per CCF</u>	<u>Total Tons</u>
AF	14	1786	0	1786	2.4735	4418
C	0	0	0	0	2.3540	0
DF	10	844	0	844	3.0160	2546
GF	0	0	0	0	3.1275	0
H	0	0	0	0	3.2425	0
L	22	942	0	942	3.1935	3008
LP	16	1022	0	1022	3.0210	3087
PP	0	0	0	0	3.2230	0
S	9	2967	0	2967	2.7040	8023
WP	20	47	0	47	3.2230	151
TOTAL =	13	7608	0	7608	2.7909	21233

Net MBF/CCF Ratio For
Sawtimber From NCS
Report CS1 **.49562**

TIM	Prep 105
Conversion	Factors
MBF	CCF
.17760	.35830

NON-SAWTIMBER - CCF

<u>Species</u>	<u>Net Volume</u>	<u>Additional Non-Saw</u>	<u>Total Net</u>	<u>Tons Per CCF</u>	<u>Total Tons</u>
AF	893		893	2.3340	2084
C	0		0	2.1400	0
DF	155		155	2.7885	432
GF	0		0	2.9470	0
H	0		0	3.0590	0
L	161		161	3.0785	496
LP	373		373	3.0200	1126
PP	0		0	3.1510	0
S	564		564	2.6330	1485
WP	36		36	3.1500	113
TOTAL =	2182	0	2182	2.6288	5736

0% %Dead

Net MBF/CCF Ratio For
Non-Sawtimber From NCS
Report CS1 **.54121**

TIM	Prep 105
Conversion	Factors
MBF	CCF
.20590	.38040

TOTALS =	<u>Gross</u>	<u>Net</u>	<u>Tons</u>
	0	9790	26969

APPRAISAL SUMMARY

CONTRACT VOLUME (CCF)	<u>9790</u>
APPRAISAL VOLUME (CCF)	<u>7608</u>
CONTRACT VOLUME (TONS)	<u>26969</u> (Note: Total Tons to be used for Rd. Maintenance Appr.)
WTD TONS/CCF	<u>2.7500</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 ADV114

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

Contract Species	Full Name for Contract	Conversion Factors (only applicable to weight scale sales)		Minimum Specifications					
		(Enter from Species Volume Summary)		DBH	Number of Pieces	Length	DIB	Merch. Factor	
		MBF	CCF						
S&O	Live and Dead	Spruce & Other	0.1776	0.3583	7	1	8.0	5.6	10.67
LP	Live and Dead	Lodgepole Pine	0.1776	0.3583	6	1	8.0	5.6	10.67
					0	0	0.0	0	0
<input checked="" type="checkbox"/>	CS	Live and Dead	0.2059	0.3804	4	1	16.0	2.5	N/A
	C14	Cedar Products - Net Merch. Factor - Refer to C(T)6.804#			0	0	0.0	0	0

AVERAGE EXTERNAL YARDING DISTANCE

AVG 3E EXTERNAL YARDING DISTANCE

Unit #	Volume CCF	AEYD Feet
3	209	600
3A	126	800
5	1423	1000
6	185	1000
6B	19	250
7	222	450
9	194	600
9A	45	350
9B	90	250
10	149	750
11	349	700
12	556	500
13	1073	1000
15	42	250
15A	42	650
15B	84	650
15C	84	300
23	56	500
23A	74	1300
24	37	250
24A	93	350
24B	111	2500
24C	222	1000
24E	167	300
24F	926	700
24G	37	300
25	889	800
27	104	350
Tractor		
420	6750	VOL
	847	AVE EYD
Skyline		
430	858	VOL
	472	AVE EYD

Forwarder

492	0	VOL
	0	AVE EYD

Horse

410	0	VOL
	0	AVE EYD

Unit #	Volume CCF	AEYD Feet	% Slope
3	209	600	0%
3A	126	800	0%
5	1423	1000	0%
6	185	1000	0%
6B	19	250	0%
7	222	450	5%
9	194	600	25%
9A	45	350	40%
9B	90	250	40%
10	149	750	30%
11	349	700	15%
12	556	500	45%
13	1073	1000	15%
15	42	250	25%
15A	42	650	25%
15B	84	650	25%
15C	84	300	25%
23	56	500	10%
23A	74	1300	10%
24	37	250	45%
24A	93	350	45%
24B	111	2500	10%
24C	222	1000	20%
24E	167	300	20%
24F	926	700	20%
24G	37	300	40%
25	889	800	0%
27	104	350	30%

Helicopter

480	0	VOL
	0	AVE EYD

Ground Lead

450	0	VOL
	0	AVE EYD

Unit #	Volume CCF	AEYD Feet	% Slope
3	209	600	
3A	126	800	
5	1423	1000	
6	185	1000	
6B	19	250	
7	222	450	
9	194	600	
9A	45	350	
9B	90	250	
10	149	750	
11	349	700	
12	556	500	
13	1073	1000	
15	42	250	
15A	42	650	
15B	84	650	
15C	84	300	
23	56	500	
23A	74	1300	
24	37	250	
24A	93	350	
24B	111	2500	
24C	222	1000	
24E	167	300	
24F	926	700	
24G	37	300	
25	889	800	
27	104	350	

To Calculate % Slope
 Top Elevation
 Bottom Elevation
 EYD Distance (ft)
 % Slope = **#DIV/0!**

LOGGING METHOD SUMMARY

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarder	Horse	TOTAL	Swing Not Included in Totals	
Acres	441	0	48	0	0	0	489	0	
Volume	6750	0	858	0	0	0	7608	0	CCF
AEYD	847	0	472	0	0	0			
% Acres	90%	0%	10%	0%	0%	0%			
% Vol	89%	0%	11%	0%	0%	0%			

HARVEST METHOD SUMMARY

	ClearCut	Seed Tree	Shelter Wood	Final Seed Tree	Intermed	Final Shelter wood	Selection	TOTAL	
Acres	51	9	23	0	352	0	54	489	
Volume	1893	484	343	0	4090	0	1141	7951	CCF
% Acres	10%	2%	5%	0%	72%	0%	11%		
% Vol	24%	6%	4%	0%	51%	0%	14%		

NON-SAWTIMBER ADJUSTMENTS

Appraisal Point: **Bonner & St. Ignatius**

"Check Box" if Non-Sawtimber is **NOT** to be included as a contractual requirement in

Check Box

K-C.2# Utilization and Removal of Included Material.

K-C.2.1.1# Optional Removal of Non-Sawtimber Products.

DATA INPUT

Delivered Log Price (\$/Ton, Nonsawtimber material)	\$40.00	
Total Nonsawtimber Volume (CCF) (Primary + Secondary)	2,182	
Total Nonsawtimber Volume (Tons) (Primary + Secondary)	5,736	
Tons / CCF for nonsawtimber material	2.63	0.00 Adjustment
Total Appraised Sawlog Volume (CCF)	7,608	
Total One Way Weighted Haul Miles	168	131 Adjustment

Logging System	All Ground Based	All Cable	Forwarder
Nonsawtimber Primary Product (CCF)	1,185	63	
Net MBF / Acre Harvested for nonsawtimber primary product	1.5	0.7	0.0
Average DBH Harvested for nonsawtimber primary product	5.7	5.7	
Average Yarding Distance (Feet)	847	472	0
Nonsawtimber Primary Product (Tons)	3,115	166	0
Net Tons / Acre Harvested for nonsawtimber primary product	3.8	1.9	0.0

Nonsawtimber Adjustment	
Final Nonsawtimber Value (\$/CCF) A positive number is a negative value.	-\$4.34
Final Nonsawtimber Adjustment to enter into TE appraisal program (\$/CCF)	\$4.34

RIGHTS - OF - WAY

(Include Cost share Agreements)

Road Name	Road #	Length	Type of Agreement	Agreement with (Names)
Glacier Wilderness Re	50611	250'	Land Use Agreement	Glacier Wilderness Resort
Unit 6 Hwy Approach			Temp Approach	Montana Highway Dept
Unit 23 Hwy Approach			Temp Approach	Montana Highway Dept

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	\$0.29	\$0.11	
C(T)5.312 - Reconditioning	\$0.00	\$0.00	
Total Performance (Part A)	\$0.29	\$0.11	(A)
Total Required Deposits (Recurrent and Deferred) (Part B)	\$0.66	\$0.24	Recurrent
(Enter appropriate rate in TIM - Gate 4 - Road Maint. Plan - ADVR105)	\$0.05	\$0.02	Deferred
C(T)5.32# - Total Required Deposits (Part B)	\$0.70	\$0.26	(B)
C(T)5.314 - Total Dust Abatement (Part C)	\$0.00	\$0.00	(C)
TOTAL MAINTENANCE COST (Parts A-B-C)	\$0.99	\$0.36	

Appraisal Rates

(Entries for 2400 - 17)

Total Required Deposits	\$ \$0.91 CCF
Total Road Maintenance Costs (Performance + Deposits)	\$ \$1.28 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	441	0	48	0	0	489
Volume	6750	0	858	0	0	7608
EYD	847	0	472	0	0	

ROAD CONSTRUCTION / RECONSTRUCTION

Construction or Reconstruction of roads not included on haul route are to be included as Stewardship Projects (K-G9#) and Appraised using Davis Beacon Wages.

Check Box if road(s) being Constructed or Reconstructed are Specified Roads needed for harvesting Included Timber.

IDENTIFY FACILITIES (ADVR102)

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

SPECIFIED ROAD COST

	<u>Miles</u>	<u>Total Cost</u>
Construction	0.0	\$0
Reconstruction	5.5	\$31,605
Total Cost	\$31,605	7608 CCF = \$4.15 / CCF

BASE RATE COLLECTION FOR STEWARDSHIP SALES
(Applied to Sawtimber Only)

Normally Stewardship Sales do not have a base rate nor KV collections. But there may be instances where it would be appropriate to collect KV funds. (IE. Treatment needs that extend beyond the contract termination date(noxious weeds), that require complex oversight (prescribed fire) or for small amounts of planting.

When KV is needed on a project it is collected as a base rate, the rate is applied ONLY to the Sawtimber component.

Costs From FACTS - Sale Area Improvement and K-V Collection Plan.

Total Required Regen Costs - FACTS Line 21 Remarks = **\$70,639.00**
(Subtotal for Required Reforestation with National Program Support Cost Included)

Select Either (a) or (b)

- (A) Green Sale - Required Regeneration Cost \$ 100% Sawtimber
 - (B) Salvage Sales enter % Live Sawtimber Volume; Partial Cut
- Stands enter % Volume remaining.

= **\$70,639.00** Total

Other K-V: From FACTS

K-V Funded Projects Costs

\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00

Total **\$0.00**

= **\$0.00** Total

Total amount of K-V to be Collected =

\$70,639.00 Total

Sawtimber Base Rate = **\$9.28** CCF

BRUSH DISPOSAL
Stewardship Contract

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

"Check Box" if Brush disposal is **NOT** to be included as a contractual requirement in **K-G.7 Hazard Reduction and Site Preparation.**

Check Box to use.

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

Forest Service Rate (Fund Code BDBD) \$6,958.00 Total \$ (a) \$0.91

Purchaser Rate (Fund Code PPPP) Total\$ (b) \$0.00

TOTAL: (a) + (b) = \$0.91 CCF

Contract Rates (Applied to All Products)

Forest Service Rate Per CCF (Fund Code BDBD) \$0.71 CCF

\$0.26 TON

Lump Sum BD Deposits for Weight Scaled Sales

Cutting Unit Number	Required Deposits
3	\$163.45
3A	\$98.79
5	\$1,113.71
6	\$172.00
6B	\$17.77
7	\$206.11
9	\$201.14
9A	\$46.91
9B	\$93.11
10	\$154.94
11	\$354.65
12	\$515.99
13	\$1,091.67
15	\$32.69
15A	\$32.69
15B	\$65.39
15C	\$65.39
23	\$51.88
23A	\$68.94
24	\$34.11
24A	\$86.00
24B	\$103.06
24C	\$206.11
24E	\$154.94
24F	\$859.27
24G	\$34.11
25	\$825.15
27	\$108.03

Total Cost \$6,958.00

EROSION CONTROL

Seed mix is to be included in K-G.6.0.1# - 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
--------------------	-----------------

25-10-10 or 27-12-12 or 34-16-10	0
-------------------------------------	---

TOTAL	0
--------------	----------

Crossdrains

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

Scarification - Landings and Skid Trails ONLY

1	acres @	\$1,000.00	per acre	=	\$1,000.00
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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. 441 acres X 5 % = 22.1 acres

Number of acres to be yarded using cable systems times the percentage of area requiring seed and fertilizer. 48 acres X 3 % = 1.4 acres

Landings

Number of landings 48 X 0.5 acres per landing = 24.0 acres

TOTAL 47.5 acres

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarder	Horse
Acres	441	0	48	0	0	0

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
Bluebunch 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				=	\$19.98

\$ per acre **\$307.98**

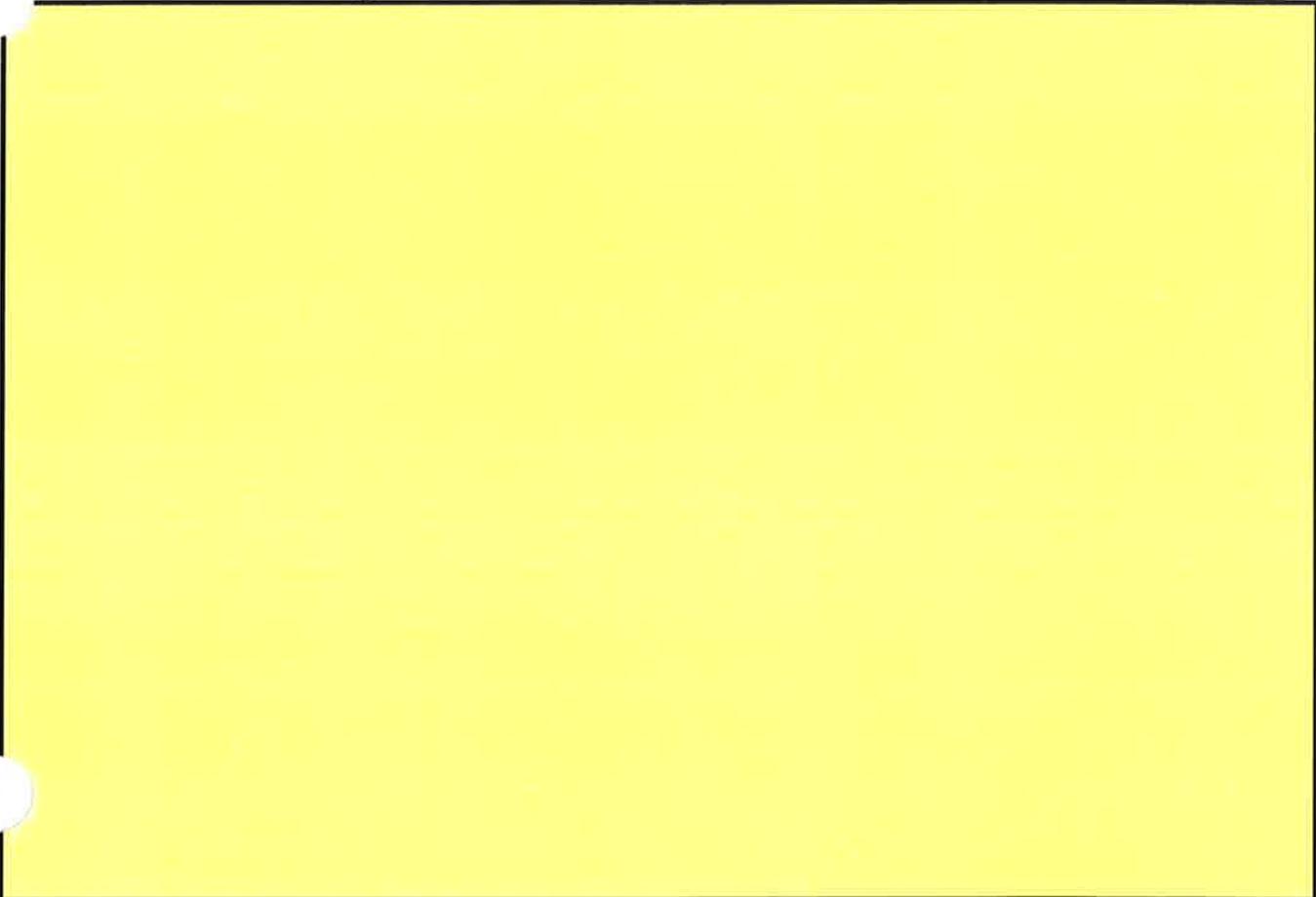
Total cost for

SEEDING	47.5	acres X	\$288.00	\$/acre =	\$13,680.00
FERTILIZER	47.5	acres X	\$0.00	\$/acre =	\$0.00
LABOR	47.5	acres X	\$19.98	\$/acre =	\$949.05
SCARIFICATION					\$1,000.00
TOTAL					\$15,629.05

\$15,629.05 COST / **7608** CCF = **\$2.05** 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)

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

ITEM	#	X	COST	=	TOT COST
Temp Road gate installation	4	X	\$300.00 each	=	\$1,200.00
Experienced Engineer Cost(\$95/hour(2 hrs): backhoe w/bucket & operator plus mob.)					
Overhead @ 12%	4	X	\$36.00 per hr	=	\$144.00
Berm installation	4	X	\$300.00 each	=	\$1,200.00
Experienced Engineer Cost(\$95/hour(2 hrs): backhoe w/bucket & operator plus mob.)					
Overhead @ 12%	4	X	\$36.00 per hr	=	\$144.00
Temporary Gate with posts	4	X	\$150.00 per XXX	=	\$600.00
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

\$3,288.00 Cost / **7608** CCF = **\$0.43** CCF

Subtotal Other Contractual Requirements (A) = **\$0.43** 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.

<u>Herbicide</u> (Common name)	<u>Application Rate oz</u> per acre	<u>Cost</u> Per oz	<u>Cost per</u> <u>UOM</u>
2,4 D	32	\$0.17	\$19.58 mile
Clopyralid(Transline)	11	\$1.88	\$74.45 mile
Picloram(Tordon)	32	\$0.67	\$77.18 mile
Aminopyralid(Milestone)	6	\$2.93	\$63.29 mile

Price quote for herbicide obtained from: North Valley Ag Center(2/3/2014)

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: 12.46 miles

<u>Herbicide to be applied:</u>	<u>Miles</u>	<u>\$ UOM</u>	<u>Tot Cost</u>
2,4 D		\$19.58	\$0.00
Clopyralid(Transline)		\$74.45	\$0.00
Picloram(Tordon)	12.46	\$77.18	\$961.66
Aminopyralid(Milestone)		\$63.29	\$0.00
Sufactant & dye:	12.46	\$2.45	\$30.53
Application Cost (Labor):	12.46	\$20.00	\$249.20
Misc. Expense:	12.46	\$32.00	\$398.72
TOTAL WEED TREATMENT:	\$1,640.11 cost	/ 7608 CCF	= \$0.22 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	7608

Total cost for washing equipment per CCF \$0.00 CCF

Subtotal Other Contractual Requirements (B) \$0.22 CCF

MISCELLANEOUS CONTRACTUAL REQUIREMENTS (C)

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

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

stumps X per stump =

Cost / CCF = CCF

Snow Plowing

miles X per mile X # plowings =

Cost / CCF = 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
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
XXX		X	\$0.00 per XXX	=	\$0.00

Cost / CCF = CCF

Subtotal Miscellaneous Contractual Requirements (C) CCF

Total Other Contractual Requirements (A+B+C)	<input type="text" value="\$0.65"/> CCF
Brush Disposal (Purchaser and FS)	<input type="text" value="\$0.91"/> CCF
Total Environmental Protection Cost	<input type="text" value="\$1.56"/> CCF

TEMPORARY ROADS

4.03 Miles

Temporary Road #1
Existing Templates in Units 11,12,13 Cost \$ 15,840.00

Temporary Road #2
Existing Templates to Access Unit 24 series Cost \$ 12,053.00

Temporary Road #3
Anticipated Jump Ups in Units 3,6,7,23,25 Cost \$ 2,744.00

Temporary Road #4
0 Cost \$ 0.00

Temporary Road #5
0 Cost \$ 0.00

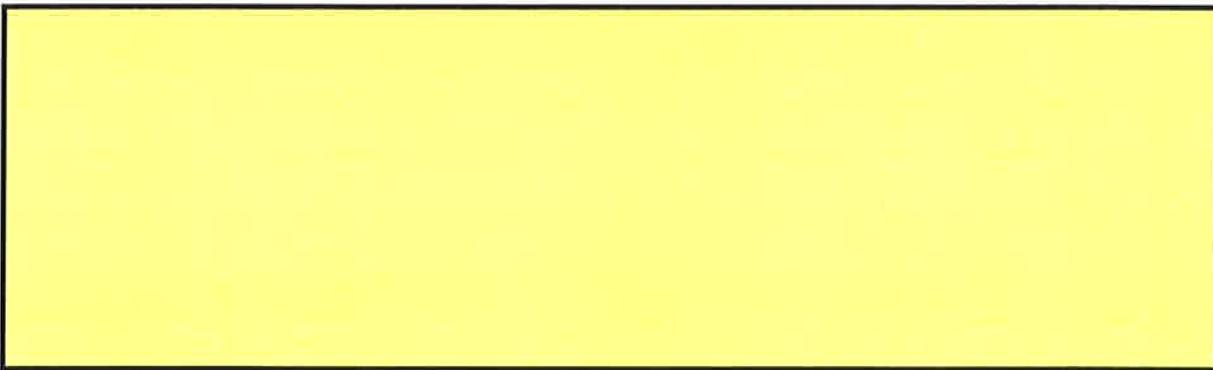
.L TEMPORARY ROAD COST = \$30,637.00
(Total Temporary Development Costs)
\$30,637.00 Cost \$ / **7608** CCF = **\$4.03** CCF

Cost Guide for Temporary Roads

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

Temporary Road Seeding, Fertilizing and Obliteration Costs per CCF \$1.04

UNUSUAL CONDITION ADJUSTMENTS



Cost \$ / 7608 CCF = \$0.00 CCF

TEMPORARY ROAD COSTS #1

Unit or Road Number: Existing Templates in Units 11,12,13

Reference to Cost estimating procedures for temporary roads from Cost Guide pages 100-104

Average Side Slope 0-5 %
 Length 10446 Feet 1.98 Miles
 Volume per Acre 0-1 MBF

(Note: Do not adjust project costs for inflation or deflation)

Clearing and Grubbing (Table T-1)	=	Costs Prer Mile	=	\$3,660.00	Mile
Trees/brush on existing templated					
Excavation (Table T-1)	=	\$500.00			Mile
Minimal excavation anticipated					
Seeding (Table T-1)	=	\$730.00			Mile
Seed following use					
Obliteration (Table T-1)	=	\$1,500.00			Mile
Scarification, Woody Debris, Waterbars					
Total Unit Cost Per Mile	=			\$6,390.00	
Basic Cost Total X Length	=			\$12,652.00	

Drainage Structures						
	20	Dips	X	\$125.00	=	\$2,500.00
		18" CMP	X		=	\$0.00
	1	other CMP	X	\$540.00	=	\$540.00
Drainage Cost Total					=	\$3,040.00

Other Requirements						
###		###	X	\$0.00	=	\$0.00
###		###	X	\$0.00	=	\$0.00
###		###	X	\$0.00	=	\$0.00
###		###	X	\$0.00	=	\$0.00
Other Cost Total					=	\$0.00

Subtotal (Basic + Drainage + Other)	=	\$15,692.00	
Mobilization (Table T-4)	7%	=	\$1,098.00
Subtotal	=	\$16,790.00	

TOTAL COST **\$16,790.00** / **1.06** Profit = **\$15,840.00**
Total Cost to be entered on 2400-17

TEMPORARY ROAD COSTS #2

Unit or Road Number: Existing Templates to Access Unit 24 series

Reference to Cost estimating procedures for temporary roads from Cost Guide pages 100-104

Average Side Slope 0 %
 Length 9206 Feet 1.74 Miles
 Volume per Acre 0

(Note: Do not adjust project costs for inflation or deflation)

Clearing and Grubbing (Table T-1)	=	Costs Prer Mile
None anticipated	=	\$0.00 Mile
Excavation (Table T-1)	=	\$500.00 Mile
Minor road widening	=	\$730.00 Mile
Seeding (Table T-1)	=	\$625.00 Mile
Obliteration (Table T-1)	=	\$625.00 Mile
Roads serve as ski trail- no obliteration required, just waterbar place		
Total Unit Cost Per Mile	=	\$1,855.00
Basic Cost Total X Length	=	\$3,228.00

Drainage Structures					
	18	Dips	X	\$125.00	= \$2,250.00
		18" CMP	X	\$475.00	= \$0.00
		other CMP	X	\$0.00	= \$0.00
Drainage Cost Total					= \$2,250.00

Other Requirements					
Replace Existing Plastic Pipes(20	3	18" CMP	X	\$475.00	= \$1,425.00
Replace skier Bridge with 20' CMP	1	48" CMP	X	\$4,000.00	= \$4,000.00
50 yds crushed aggregate for cover	50	Cubic Yard	X	\$20.75	= \$1,037.50
###		###	X	\$0.00	= \$0.00
Other Cost Total					= \$6,462.50

Subtotal (Basic + Drainage + Other)	=	\$11,940.50
Mobilization (Table T-4)	7%	= \$836.00
Subtotal	=	\$12,776.50

TOTAL COST **\$12,776.50** / **1.06** Profit = **\$12,053.00**
Total Cost to be entered on 2400-17

TEMPORARY ROAD COSTS #3

Unit or Road Number: **Anticipated Jump Ups in Units 3,6,7,23,25**

Reference to Cost estimating procedures for temporary roads from Cost Guide pages 100-104

Average Side Slope **0** %
 Length **1650** Feet **0.31** Miles
 Volume per Acre **5000**

(Note: Do not adjust project costs for inflation or deflation)

Clearing and Grubbing (Table T-1)	=	\$3,720.00 Mile
Excavation (Table T-1)	=	\$1,320.00 Mile
Seeding (Table T-1)	=	\$730.00 Mile
Obliteration (Table T-1)	=	\$3,000.00 Mile

Total Unit Cost Per Mile = \$8,770.00

Basic Cost Total X Length = \$2,719.00

Drainage Structures					
	Dips	X	\$0.00	=	\$0.00
	18" CMP	X	\$0.00	=	\$0.00
	other CMP	X	\$0.00	=	\$0.00

Drainage Cost Total = \$0.00

Other Requirements					
###		###	X	\$0.00	= \$0.00
###		###	X	\$0.00	= \$0.00
###		###	X	\$0.00	= \$0.00
###		###	X	\$0.00	= \$0.00

Other Cost Total = \$0.00

Subtotal (Basic + Drainage + Other) = **\$2,719.00**

Mobilization (Table T-4) **7%** = **\$190.00**

Subtotal = **\$2,909.00**

TOTAL COST \$2,909.00 / 1.06 Profit = \$2,744.00
Total Cost to be entered on 2400-17

TIMBER SALE CONTRACT INFORMATION

Tim Gate 4 - Contract Preparation information (ADVR114)

Normal Operating Season
ADVR114, Page

Units

First Period :	15-Jul	to	30-Sep	7,9A,9B,12,23,23A,24,24A,24B,24C, 24D,24E,24F,24G,25,27
Second Period:	15-Dec	to	1-Mar	3,3A,5,6,6B,9,10,11,13,15,15A,15B, 15C

(Note: If sale has more than one NOS - List dates and units for each 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 E.2.1.3, 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 =	<input type="text" value="9790"/>	CCF
(B)	Sale Duration =	<input type="text" value="3.3"/>	YEARS <i>(Calculated from Award Date to Termination Date)</i>
(C)	Operating Days in Sale =	<input type="text" value="396"/>	<i>(Sale Duration X 120 days.)</i>
(D)	CCF Per Day =	<input type="text" value="###"/>	<i>(Total Volume / Operating Days in Sale)</i>
(E)	Men Needed to Log Sale =	<input type="text" value="4.9"/>	<i>(CCF Per Day / 5 CCF)</i>
(F)	Liability =	<input type="text" value="\$17.40"/> (Wage Rate AD	<input type="text" value="12"/> (hrs/shift) X <input type="text" value="5"/> (# shifts) X
		<input type="text" value="4.9"/> (# men) =	TOTAL LIABILITY = <input type="text" value="\$5,116"/>

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

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

ROUNDED TOTAL =

STEWARDSHIP PERFORMANCE BOND:

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

**rally, a performance bond will not be required. If a bond is required, the amount of the bond should
:over those performance items not include as mandatory or optional services.**

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

Road Maintenance =	\$0.29	CCF
Erosion =	\$2.05	CCF
Brush Disposal =	\$0.00	CCF
Other =	\$1.69	CCF
Total =	\$4.03	CCF

Total Purchaser Requirements = \$4.03 X Tot Vol 7608 CCF = \$30,677 Tot Value

divided by 7 # Seasons = \$4,382 Performance Bond Value

Rounded Performance Bond Value = \$4,400 (B)