

USDA - FOREST SERVICE
Stewardship: Y

REPORT OF TIMBER SALE
APPRAISAL SUMMARY CCF

R6-FS-2400-17 (04/10)
Version 1421 (TEA 05-14)

Region: 06
Forest: 06 Mt Hood
District: 06 Hood River
Salvage: N

Sale Name: Bull - Bronco Stewardship
Sale Number: 61303
Appraise to: Odell, OR
Appraiser: E. Kidwell

Appraisal Date: 06/25/14
Base Period Ending: 03/31/14
Competition Factor: 40%
Essential KV Cost: 0

SELLING PRICES	1	2	3	4	5	6	7	Average	Total
1. Species	D-fir	W Hem	GBCvNS						
2. Species Code	205	263	2						
3. Product/Unit	01-03	01-03	20-03						
4. Volume	12,728	3,865	774						17,367
5. Base Period Price	110.68	30.11	67.65*					90.83	
6. Base Period Index	234.55	200.53	78.00					220.00	
7. Current Index	220.90	196.77	78.00					209.16	
8. Rapid Market Adj	13.00	5.20						10.68	
9. Market Adj BP Price	110.03	31.55	67.65					90.68	
10. Unusual Adjustment	-41.17							-30.17	
11. GBCv-Nonsaw Adj			-170.16					-7.58	
12. Product Quality Adj									
13. Adj Base Period Price	68.86	31.55	-102.51					52.92	919,048.09

COSTS	Zone Avg Cost/UM	Est Sale Cost/UM	Adj to BP Cost	ROADS	Km	Miles	Cost
14. Stump to Truck	116.53	173.70	-57.17	Specified Road Con			
15. Haul/Scale	30.71	16.98	13.73	Specified Road Rec	6.01	3.73	46,159
16. Road Maintenance	10.87	6.48	4.39	Temporary Road Con	3.67	2.28	21,749
17. Contract	6.28	9.53	-3.25	Haul Miles		23	
18. Development & Other	5.77	1.25	4.52				
19. Road Const & Recon		2.66	-2.66				
20. Total (lines 14-19)	170.16	210.60	-40.44	DEPOSITS:	Br Disp/UM 3.55	Rd Mtc/UM 3.74	C(T)5.213# 4,914.00

ADVERTISED RATES	1	2	3	4	5	6	7	Average	Total
21. Predicted Bid Rate	28.42	-8.89	-142.95					12.48	216,726.61
22. Competition Adjustment	11.37	-3.56	-57.18					4.99	86,700.64
23. Property Value									
24. Indicated Adv Rate	17.05	-5.33	-85.77					7.49	130,025.97
25. Base Rate	1.00	1.00	.25					.97	16,786.50
26. Adjustment	-7.15	6.33	86.02						39.73
27. Advertised Rate	9.90	1.00	.25					7.49	130,065.70

CCF to MBF Rate Factors:	1.9023	1.9520	1.6329					1.8991	
CCF to MBF Volume Factors:	.5257	.5123	.6124					.5266	
MBF to CCF Index Factors:	.52	.52	.52						
CCF Base Index for A(T)5a:	223.02C	198.67C							
CCF Wtd Avg Del Log Price:	189.25	174.18							
MBF Volume:	6,691	1,980	474						9,145
MBF Base Index for A(T)5a:	424.80	378.41							
MBF Advertised Rate:	18.83	1.95	.41						
								14.22	130,046.87
						DEPOSITS/MBF	BD: 6.74	RM: 7.10	

PRODUCT QUALITY ADJUSTMENT - OREGON EASTSIDE
Use with Appraisal Update #5-14

Sale Name: **Bull-Bronco Stewardship**

Date: **04-Jun-14** (mm/dd/yy)

Species Group #1	Minimum Dia - dib	Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
122	5.0" - 7.99"	250.00				
	8.0" - 11.99"	340.00			176.80	0.00
	12.0" - 19.99"	360.00				
	20.0" - 24.0"	430.00				

\$/ton Avg	Avg lb per ccf	Volume CCF
22.00	61.5	774.00

BPP for chips = **67.65** /ccf
(insert as override on TEA input screen)

Weighted average Product Quality Adjustment (PQA) for species group #1 = **0.00** /ccf under BPP/CCF for products 08 and 20
Weighted average delivered log price for Species Group #1 = **0.00** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #2	Minimum Dia - dib	Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
D.-fir/Larch	8-11"	camprun				
	#3 sawmill	360.00	6,691.00	12,728.00	189.25	0.00
	#2 sawmill	0.00				

Weighted average Product Quality Adjustment (PQA) for species group #2 = **0.00** /ccf
Weighted average delivered log price for Species Group #2 = **189.25** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #3	Minimum Dia - dib	Log price \$/mbf avg**	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
Hem-Fir	8-11"	camprun				
	#3 sawmill	340.00	1,980.00	3,865.00	174.18	0.00
	#2 sawmill	0.00				

Weighted average Product Quality Adjustment (PQA) for species group #3 = **0.00** /ccf
Weighted average delivered log price for Species Group #3 = **174.18** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #4	Minimum Dia - dib	If this table is used, entry needed here	Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
						0.00	

Weighted average Product Quality Adjustment (PQA) for species group #4 = **0.00** /ccf
Weighted average delivered log price for Species Group #4 = **0.00** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #5	Minimum Dia - dib	If this table is used, entry needed here	Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
						0.00	

Weighted average Product Quality Adjustment (PQA) for species group #5 = **0.00** /ccf
Weighted average delivered log price for Species Group #5 = **0.00** /ccf (enter on TEA input screen as Log Pr/CCF)

Species Group #6	Minimum Dia - dib	If this table is used, entry needed here	Log price \$/mbf avg	Volume MBF	Volume CCF	Log price \$/ccf avg	Adjustment Dollars
						0.00	

Weighted average Product Quality Adjustment (PQA) for species group #6 = **0.00** /ccf
Weighted average delivered log price for Species Group #6 = **0.00** /ccf (enter on TEA input screen as Log Pr/CCF)

** Oregon Log Market Report, May 15, 2014, delivered log prices.

Other Road Maintenance Items and Summary

Version 8.0

Sale name: Bull-Bronco Stewardship



Pre-Haul Maintenance

(Open roads, blading, brushing, small slide removal, etc.)

Type	Mtce By	Total Cost
T-811 - 1600670,18 Spur (1.04mi @ \$1,110/mi)	Purchaser	\$1,154.40
T-831 - 16 (10.81mi @ \$275/mi)	Purchaser	\$2,972.75
T-834 - 16,18 Spur (14.64mi @ \$160/mi)	Purchaser	\$2,342.40
T-835 - 1600018,1600670,1600720,18 Spur (3.24mi @ \$600/mi)	Purchaser	\$1,944.00
T-836 - 16 (10.81mi @ \$270/mi)	Purchaser	\$2,918.70
T-838 - 1600670 (0.54mi @ \$1,550/mi)	Purchaser	\$837.00
T-839 - 1600018,1600720,18 Spur(2.70mi @ \$1,650/mi)	Purchaser	\$4,455.00
T-842 - 16,1600018 (12.31mi @ \$1200/mi)	Purchaser	\$14,772.00
T-851 - 18 (3.33mi @ \$105/mi)	Purchaser	\$349.65
Construct Drain Dip - 18 Spur Entrance	Purchaser	\$500.00
Pav. Protection (72cy 3" Drainrock @ \$39/cy)	Purchaser	\$2,808.00

Post-Haul Maintenance

(Road closures, seeding, barriers, etc.)

Type	Mtce By	Total Cost
T-832 - End Haul 3" Drainrock from Pav. Prot. (72cy @ \$12/cy)	Purchaser	\$864.00
T-834 - 18,18 Spur (3.83mi @ \$160/mi)	Purchaser	\$612.80
T-835 - 1600018,1600670,1600720,18 Spur (3.24mi @ \$600/mi)	Purchaser	\$1,944.00
T-836 - 16 (10.81mi @ \$160/mi)	Purchaser	\$1,729.60
T-838 - 1600670 (0.54mi @ \$450/mi)	Purchaser	\$243.00
T-839 - 1600018,1600720,18 Spur(2.70mi @ \$300/mi)	Purchaser	\$810.00

Miscellaneous Road Maintenance Items

(Damage to roads from logging or landings, dust abatement, etc.)

Type	Mtce By	Total Cost
Hazard Trees (T-854) - All Roads (Lump Sum)	Purchaser	\$2,355.00
Mobilization - 9% of Purch Performed Maint	Purchaser	\$3,925.11

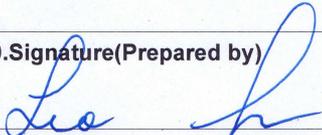
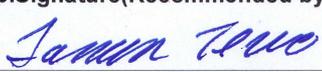
Data and Cost Summary

(Traveling RTM's, haul maintenance, and fixed costs included from Road Report)

Data & Cost Summary Item	Value	
Appraisal point (mill or sort yard)	Odell	
District or Forest	Hood River RD	
Sale termination date	3/31/2017	
Analyst name	L. Jimenez	
Total hauled timber volume - CCF	17,367	
Maintenance Summary (all items)	Total \$'s	\$/CCF
Required rd maint deposits, FS (CT5.32)	\$64,938.95	\$3.74
Purchaser maintenance	\$47,537.41	\$2.74
Other maintenance (CT5.32)	\$0.00	\$0.00
Subtotal FS & other (CT5.32)	\$64,938.95	\$3.74
Total for appraisal - Road Maintenance (all)	\$112,476.36	\$6.48

Approval

Prepared By 	6/5/2014 Project Engineer
Reviewed By 	FOR 6/5/14 Road Systems Manager
Reviewed By 	6/5/14 Zone Engineer

BRUSH DISPOSAL TREATMENT PLAN (Ref. FSH 2409.19)	1. Forest Mt. Hood		2. District/Unit Hood River			
	3. Sale Name BULL - BRONCO STEWARDSHIP(61303)		4. Award Date			
5. Compartments or GIS Reference	6. Type of Plan <input checked="" type="checkbox"/> Original <input type="checkbox"/> Final <input type="checkbox"/> Revision #	7. Purchaser		8. Contract Number		
9. List of Projects		10. Work Activity	11. Unit of Work	12. Cost Per Unit	13. No. of Units	14. Cost
Fuel Inventory		HF	Acres	\$21.42	569.0	\$12,188
Fuel Inventory		HF	Acres	\$21.44	39.0	\$836
Burning of Piled Material		HF	Acres	\$65.56	204.0	\$13,374
Burning of Piled Material		HF	Acres	\$319.36	78.0	\$24,910
Burning of Piled Material		HF	Acres	\$68.21	326.0	\$22,236
15. Total Project Cost					\$73,544	
16. National Program Support					\$30,375	
17. Total Cost of Funded Work (Sum of line 15 and 16) (Required Bid Deposit Amount)					\$103,919	
18. Remarks: Forest Collection Rate : 8.13% National Collection Rate for Program Support: 41.3% Inflation Rate: 2% Rate Remarks: Mt. Hood Trust Fund Collection Rate Spreadsheet - revised 10/25/10 PPPP does not include the Forest Collection Rate or National Collection Rate for Program Support.						
19. Signature(Prepared by) 		Title AFMO		Date 6-6-14		
20. Signature(Recommended by) 		Title District Ranger		Date 6-6-14		
21. Signature (Approved by)		Title		Date		



File Code: 5150 – Fuels Management
2400 – Timber Management

Date: June 4, 2014

Subject: Narrative for Bull / Bronco Timber Sale

To:

The Bull timber sale is located on the Hood River ranger district at T1S, R8/12 E, Sections 1, 3, 13, 14, 23, and 24. T1S, R8 E, Sections 6, and 7. And T1N, R9E. Sections 6 and 7. This is the second entry into this area, commercial thinning will be implemented to achieve the desired outcome. Twelve of the units will be skyline logged. Eight units will be logged by helicopter. There are nine units that will be logged with ground based means. The timber type is a Westside timber type consisting of Douglas Fir, Hemlock and True Fir species which have wetter soil conditions and receives significant amounts of moisture. Created fuels from logging activities will be piled at the landing sites. The most cost effective form of slash disposal currently is to burn the piles in place during favorable weather conditions (fuel moisture and wind), that inhibit fire spread outside the pile, and reduce impacts of smoke on various view sheds, designated areas, etc. The entire sale does not need to be released for individual units to be treated. Once units are released either Brown's transects or permanent photo points would be utilized to determine if down woody material left on the units meets the desired outcome. Specific unit information is located in the unit summary portion of this write up.

Summary of Hazard Fuel Treatment Units

BDBD Unit #:1	: GB	Acres:	15	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Post harvest fuel loadings are estimated to be 26 + tons per acre. An acceptable level of post harvest fuel loading would be less than 26.7 tons in the less than 3” – 9” size classes. Following harvest, a Post Treatment Exam of Fuels (1100) will be completed by force account crews that will assess (monitor) and document the effects of not treating fuels. Fuels piled at landing sites will be treated with fire (1130), by force account crews. The purchaser is responsible for piling of landings.							
BDBD Unit #:2	: GB	Acres:	6	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:3	: Heli	Acres:	9	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:4	: GB	Acres:	12	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:17	: GB	Acres:	9	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100



BDBD Unit #:5	: Sky	Acres:	17	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:8	: Sky	Acres:	24	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:18	: Sky	Acres:	78	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:19	: Heli	Acres:	13	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:20	: Heli	Acres:	39	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:21	: Sky	Acres:	53	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:22	: Heli	Acres:	17	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:23	: Sky	Acres:	32	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:26	: Sky	Acres:	18	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:27	: Sky	Acres:	56	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:29	: Sky	Acres:	8	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:30	: GB	Acres:	23	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:31	: GB/Sky	Acres:	8	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #:36	: Sky	Acres:	21	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100

Same as unit 1							
BDBD Unit #:43	: GB	Acres:	37	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #58	: Sky	Acres:	14	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #73	: GB	Acres:	10	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #210	: Heli	Acres:	9	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #211	: Heli	Acres:	13	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #221	: Heli	Acres:	22	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #261	: Heli	Acres:	19	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							
BDBD Unit #361	: Sky	Acres:	29	Associated BDBD Unit #:	Silv/RX	FACTS Fuel Treatment Code(s):	1130 1100
Same as unit 1							

FACTS Fuel Treatment Codes:

- 1130 – Burning of Piled Material
- 1100 – Post Treatment Exam Fuels Mgt

Costs & Cost Development

Purchaser costs are based on the timber sale sell date and Brush Disposal costs are based on and inflated to the sale termination date of 10/31/2019.

Direct Costs – Treatment costs were developed using cost calculation spreadsheets. These spreadsheets are filed in the BD project file. Projects included in the Brush Disposal Treatment Plan include:

- 1130: \$59.45 per acre
- 1130; \$289.56 per acre Heli Units
- 1100: \$19.43 per acre

Indirect Costs applied to the BD Treatment Plan (2430/6550/5100 Trust Fund Analysis Letter, September 14, 2009):

- Forest Collection Rate: 8.13%
- National Collection Rate for Program Support: 41.3%
- Inflation Rate: 2%

/S/ Leo Segovia

LEO SEGOVIA

Assistant District Fire Management Officer
Hood River Ranger District

cc:

Zone Timber/Vegetation Manager
Kim Valentine, Zone FMO
Dirk Shupe, Asst FFMO

BULL - BRONCO STEWARDSHIP BRUSH DISPOSAL APPRAISAL ALLOWANCE:

Total CCF: 17,367

Contractor Cost to Hand Pile Helicopter Units:

Cost for hand piling: \$700/Acre

Helicopter Acres: 88

Total Contractor Cost Hand Piling = \$61,600 or 3.55/ccf

Total BD Plan, Forest Service Cost/ Deposit = \$103,919 or 5.98/ccf

CONTRACT RATE to enter in TEA: \$9.53/ccf



Trucking Appraisal - APPRAISAL SUMMARY

HaulCost ver 14.0

Sale name: Bull-Bronco Stewardship

Geo. area: OR

Date: 14-Apr-14

Cost type	Average trip rtm's	CCF per load	Tot rtm's per day	Total OT rtm's	CCF vol per day	Gross cost per day	Net cost per day	Net cost per ccf	Net \$/ccf w/inflation
<i>w/o scale</i>	155.0	7.0	582.0	102.0	26.28	\$429.26	\$429.26	\$16.33	16.98
<i>with scale</i>									

years inflation = 1.0

Include scale cost in final haul cost

no scaling selected on DATA INPUT screen

Total haul cost, \$/ccf = **\$16.98**

Sale or Haul Narrative

Appraised to Odell, OR

90 minutes

Volume Type...

CCF

Logging Cost Summary - Estimated Stump To Truck Cost Results

Summary By Logging System and Sale

Logging System	Vol Type	Total Volume	Stump-truck \$/vol	Estimated Seasons
Skyline	ccf	10,360	151.37	3
Mechanized <i>Mech biomass</i>	ccf-saw	3,484	113.74	2
Tractor				
Shovel				
Helicopter (1)	ccf	3,523	298.65	1
Sale-as-a-whole		17,367	173.70	← <i>sawtimber basis</i>

ovhd=6.18/ccf or 11.89/mbf, p&r=2% of costs included (except helicopter)

Bio stump-truck \$		Estimated total number <i>operating</i> days for sale	378
Include bio stump-truck in mech sys? →		Variable shutdown cost (all systems, if any) \$/vol	
		Include variable shutdown in system costs?	
Biomass haul cost			

Two cruises were used for volume data.

Include Chipper?

Hours Used

Haul-\$'s

Select helicopter alternative

Helicopter (1)

Sale: Bull/Bronco Stewardship

Date: 3/6/14

LogCost ver 14.0

1/14/2014

Report summary
table above in tons?



TEMPORARY ROAD COST WORKSHEET

Sale Name : **BULL-BRONCO STEWARDSHIP**

Total miles 2.28 Kilometers: 3.65
 Sale vol. (CCF) 17367 Total cost all roads \$ 21,749.00 Cost per CCF \$ 1.25

Road #1		ROAD ACCESSES UNIT(S):		1 - Off Pvt 18 Spur		
		LENGTH OF TEMPORARY ROAD CONSTRUCTION:		543 (Feet)		
EXCAVATION	\$ 5,000.00	Per Mile x	0.10 Miles	=	\$ 500.00	
CLEARING	\$ 3,000.00	Per Mile x	0.10 Miles	=	\$ 300.00	
SPOT ROCK	\$ 40.00	Per Yard x	0 Yards	=	\$ -	
HAUL		Per CuYd x		Haul Miles x	\$ per Mile = \$ -	
PLACE AND PROCESS		Per Mile x		Miles =	\$ -	
PILING		Per Mile x		Miles =	\$ -	
OTHER	Mobilization				\$ 100.00	
SUBTOTAL						\$ 900.00
OH & DEP	0.30 (Factor) x	\$ 900.00	Subtotal =	\$ 270.00		
TEMP ROAD CLOSURES	1	X \$	300	each =	\$ 300.00	
OTHER	(x3) Water Bars or Drain Dips				\$ 500.00	
Temp Road rehabilitation costs are covered in the Erosion Control Plan. Overhead and depreciation are included in the costs per mile.					TOTAL COST :	\$ 1,970.00

TEMPORARY ROAD COST WORKSHEET

Sale Name : **BULL-BRONCO STEWARDSHIP**

Total miles 2.28 Kilometers: 3.65
 Sale vol. (CCF) 17367 Total cost all roads \$ 21,749.00 Cost per CCF \$ 1.25

Road #2		ROAD ACCESSES UNIT(S):		2 & 26 - Off 16 Road		
		LENGTH OF TEMPORARY ROAD CONSTRUCTION:		797 (Feet)		
EXCAVATION	\$ 2,000.00	Per Mile x	0.15 Miles	=	\$ 300.00	
CLEARING	\$ 2,400.00	Per Mile x	0.15 Miles	=	\$ 360.00	
SPOT ROCK	\$ 40.00	Per Yard x	0 Yards	=	\$ -	
HAUL		Per CuYd x		Haul Miles x	\$ per Mile = \$ -	
PLACE AND PROCESS		Per Mile x		Miles =	\$ -	
PILING		Per Mile x		Miles =	\$ -	
OTHER	Mobilization				\$ 100.00	
SUBTOTAL						\$ 760.00
OH & DEP	0.30 (Factor) x	\$ 760.00	Subtotal =	\$ 228.00		
TEMP ROAD CLOSURES	1	X \$	300	each =	\$ 300.00	
OTHER					\$ -	
Temp road closure costs are covered in the Erosion Control Plan. Overhead and depreciation are included in the costs per mile.					TOTAL COST :	\$ 1,288.00

TEMPORARY ROAD COST WORKSHEET

Sale Name : **BULL-BRONCO STEWARDSHIP**

Total miles 2.28 Kilometers: 3.65
 Sale vol. (CCF) 17367 Total cost all roads \$ 21,749.00 Cost per CCF \$ 1.25

Road #3		ROAD ACCESSES UNIT(S):		4 & 30 - Off 16 Road		
		LENGTH OF TEMPORARY ROAD CONSTRUCTION:		1788 (Feet)		
EXCAVATION	\$ 2,000.00	Per Mile x	0.34 Miles	=	\$ 680.00	
CLEARING	\$ 2,400.00	Per Mile x	0.34 Miles	=	\$ 816.00	
SPOT ROCK	\$ 40.00	Per Yard x	0 Yards	=	\$ -	
HAUL		Per CuYd x		Haul Miles x	\$ per Mile = \$ -	
PLACE AND PROCESS		Per Mile x		Miles =	\$ -	
PILING		Per Mile x		Miles =	\$ -	
OTHER	Mobilization				\$ 100.00	
SUBTOTAL						\$ 1,596.00
OH & DEP	0.30 (Factor) x	\$ 1,596.00	Subtotal =	\$ 478.80		
TEMP ROAD CLOSURES	1	X \$	300	each =	\$ 300.00	
OTHER					\$ -	
Temp road closure costs are covered in the Erosion Control Plan. Overhead and depreciation are included in the costs per mile.					TOTAL COST :	\$ 2,374.80

TEMPORARY ROAD COST WORKSHEET

Sale Name : **BULL-BRONCO STEWARDSHIP**

Total miles 2.28 Kilometers: 3.65
 Sale vol. (CCF) 17367 Total cost all roads \$ 21,749.00 Cost per CCF \$ 1.25

Road #4		ROAD ACCESSES UNIT(S):		17 - Off 18 Road		
		LENGTH OF TEMPORARY ROAD CONSTRUCTION:		2181 (Feet)		
EXCAVATION	\$ 5,000.00	Per Mile x	0.41 Miles	=	\$ 2,050.00	
CLEARING	\$ 3,000.00	Per Mile x	0.41 Miles	=	\$ 1,230.00	
SPOT ROCK	\$ 40.00	Per Yard x	0 Yards	=	\$ -	
HAUL		Per CuYd x		Haul Miles x	\$ per Mile = \$ -	
PLACE AND PROCESS		Per Mile x		Miles =	\$ -	
PILING		Per Mile x		Miles =	\$ -	
OTHER	Mobilization				\$ 300.00	
SUBTOTAL						\$ 3,580.00
OH & DEP	0.30 (Factor) x	\$ 3,580.00	Subtotal =	\$ 1,074.00		
TEMP ROAD CLOSURES	1	X \$	300	each =	\$ 300.00	
OTHER					\$ -	
Temp road closure costs are covered in the Erosion Control Plan. Overhead and depreciation are included in the costs per mile.					TOTAL COST :	\$ 4,954.00

TEMPORARY ROAD COST WORKSHEET

Sale Name : **BULL-BRONCO STEWARDSHIP**

Total miles 2.28 Kilometers: 3.65
 Sale vol. (CCF) **17367** Total cost all roads \$ **21,749.00** Cost per CCF \$ **1.25**

Road #5		ROAD ACCESSES UNIT(S):		31 (Old 1670 Rd)	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: 748 (Feet)					
EXCAVATION	\$ 3,400.00	Per Mile x	0.14	Miles =	\$ 476.00
CLEARING	\$ 2,000.00	Per Mile x	0.14	Miles =	\$ 280.00
SPOT ROCK	\$ 40.00	Per Yard x	0	Yards =	\$ -
HAUL		Per CuYd x		Haul Miles x	\$ per Mile = \$ -
PLACE AND PROCESS		Per Mile x		Miles =	\$ -
PILING		Per Mile x		Miles =	\$ -
OTHER	Mobilization				\$ 100.00
SUBTOTAL					\$ 856.00
OH & DEP	0.30 (Factor) x	\$ 856.00	Subtotal =	\$ 256.80	
TEMP ROAD CLOSURES	1	X \$	300	each =	\$ 300.00
OTHER					\$ -
Temp road closure costs are covered in the Erosion Control Plan. Overhead and depreciation are included in the costs per mile.					TOTAL COST : \$ 1,412.80

TEMPORARY ROAD COST WORKSHEET

Sale Name : **BULL-BRONCO STEWARDSHIP**

Total miles 2.28 Kilometers: 3.65
 Sale vol. (CCF) **17367** Total cost all roads \$ **21,749.00** Cost per CCF \$ **1.25**

Road #6		ROAD ACCESSES UNIT(S):		58 (Old 1600680 Rd)	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: 1854 (Feet)					
EXCAVATION	\$ 3,400.00	Per Mile x	0.35	Miles =	\$ 1,190.00
CLEARING	\$ 2,000.00	Per Mile x	0.35	Miles =	\$ 700.00
SPOT ROCK	\$ 40.00	Per Yard x	0	Yards =	\$ -
HAUL		Per CuYd x		Haul Miles x	\$ per Mile = \$ -
PLACE AND PROCESS		Per Mile x		Miles =	\$ -
PILING		Per Mile x		Miles =	\$ -
OTHER	Mobilization				\$ 200.00
SUBTOTAL					\$ 2,090.00
OH & DEP	0.30 (Factor) x	\$ 2,090.00	Subtotal =	\$ 627.00	
TEMP ROAD CLOSURES	1	X \$	300	each =	\$ 300.00
OTHER					\$ -
Temp road closure costs are covered in the Erosion Control Plan. Overhead and depreciation are included in the costs per mile.					TOTAL COST : \$ 3,017.00

TEMPORARY ROAD COST WORKSHEET

Sale Name : **BULL-BRONCO STEWARDSHIP**

Total miles 2.28 Kilometers: 3.65
 Sale vol. (CCF) **17367** Total cost all roads \$ **21,749.00** Cost per CCF \$ **1.25**

Road #7		ROAD ACCESSES UNIT(S):		58 - Off Temp Road #6	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: 1662 (Feet)					
EXCAVATION	\$ 5,000.00	Per Mile x	0.31	Miles =	\$ 1,550.00
CLEARING	\$ 3,000.00	Per Mile x	0.31	Miles =	\$ 930.00
SPOT ROCK	\$ 40.00	Per Yard x	0	Yards =	\$ -
HAUL		Per CuYd x		Haul Miles x	\$ per Mile = \$ -
PLACE AND PROCESS		Per Mile x		Miles =	\$ -
PILING		Per Mile x		Miles =	\$ -
OTHER	Mobilization				\$ 200.00
SUBTOTAL					\$ 2,680.00
OH & DEP	0.30 (Factor) x	\$ 2,680.00	Subtotal =	\$ 804.00	
TEMP ROAD CLOSURES	0	X \$	300	each =	\$ -
OTHER					\$ -
Temp road closure costs are covered in the Erosion Control Plan. Overhead and depreciation are included in the costs per mile.					TOTAL COST : \$ 3,484.00

TEMPORARY ROAD COST WORKSHEET

Sale Name : **BULL-BRONCO STEWARDSHIP**

Total miles 2.28 Kilometers: 3.65
 Sale vol. (CCF) **17367** Total cost all roads \$ **21,749.00** Cost per CCF \$ **1.25**

Road #8		ROAD ACCESSES UNIT(S):		23 - Off 16 Road	
LENGTH OF TEMPORARY ROAD CONSTRUCTION: 2482 (Feet)					
EXCAVATION	\$ 2,000.00	Per Mile x	0.47	Miles =	\$ 940.00
CLEARING	\$ 2,400.00	Per Mile x	0.47	Miles =	\$ 1,128.00
SPOT ROCK	\$ 40.00	Per Yard x	0	Yards =	\$ -
HAUL		Per CuYd x		Haul Miles x	\$ per Mile = \$ -
PLACE AND PROCESS		Per Mile x		Miles =	\$ -
PILING		Per Mile x		Miles =	\$ -
OTHER	Mobilization				\$ 200.00
SUBTOTAL					\$ 2,268.00
OH & DEP	0.30 (Factor) x	\$ 2,268.00	Subtotal =	\$ 680.40	
TEMP ROAD CLOSURES	1	X \$	300	each =	\$ 300.00
OTHER					\$ -
Temp road closure costs are covered in the Erosion Control Plan. Overhead and depreciation are included in the costs per mile.					TOTAL COST : \$ 3,248.40