

Timber Sale Report
&
Appraisal Summary

Sale #26511

Rambler Salvage Timber Sale

Laramie Ranger District

Medicine Bow-Routt National Forests and
Thunder Basin National Grassland

Prepared By (Signature)

Date

I hereby certify that the requirements of the Secretary's Regulation 36
CFR 223.30 have been met by this timber sale.

District Ranger (Signature)

Date



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Environmental Coordination and Certification

1. Environmental Assessment (EA): North WUI Analysis Project authorizes the harvest and removal of timber products in the Rambler Salvage Timber Sale. The Decision Notice (DN) was approved on: 2/11/13 : by Frank Romero in accordance with the management requirements and constraints identified in the Environmental Assessment and specifically that: (Ref. FSM 2432.04b)

- a. Silvicultural treatments were prescribed or reviewed by a certified silviculturist and are appropriate to the management objective of the area.
- b. The designation of individual trees and cutting units represents proper application of the silvicultural prescriptions.
- c. The selected logging system provides the most economical method of harvesting timber that will accomplish the desired result and produce a quality land management outcome.
- d. Measures prescribed for coordination with other resources and the protection of the area have been incorporated in the layout and in the contract where appropriate. Documentation of how the mitigation measures for this sale were incorporated to the field design and contract, as specified in the environmental documentation, are attached to this appraisal.
- e. The timber for this sale has been cruised by the procedures and standards in the National Forest Cruising Handbook (FSH 2409.12) and that the cruising meets the sampling error standards of FSH 2409.12, Chapter 41.1. Records of the cruise and check-cruise are on file at the District Office.
- f. This National Forest timber sale is consistent with the Forest Plan and the applicable NEPA decision.

2. Silvicultural Prescriptions:

Prepared and Approved By:

Brad Eckert

Steve Overton

R2 Certified Silviculturist

Forester

Date: 9/19/15

Date: 9/19/15

DESCRIPTION OF SALE:

All referenced documentation, plans, spreadsheets, information and data processed can be found at the Laramie district office in the sale file or in the corporate database at:

<O:\NFS\MBRTB\Program\2400TimberMgmt\2430CommercialTimberSales\LAR\Rambler>

The Rambler Salvage Sale, STARS# 26511 is located on the Laramie Ranger District of the Medicine Bow-Routt National Forests in Albany County, Wyoming. The sale is approximately 12 miles west of Albany, Wyoming along National Forest System Road (NFSR) 500.

The legal description is: T15N, R79W section 3;T14N, R79W, Sections 4, 5, 6, 8, 9, 16 and 17.; 6th P.M., surveyed, Albany County, Wyoming. Gross sale area boundary is 1596 acres; harvest acres are 323.8. Unit of measure for the sale is hundred cubic feet (CCF). Total Net live and dead saw-timber is 6139.03 CCF.

There are a total of 10 harvest units to be treated. Silvicultural prescriptions for all units include:

- Rx1 - Clearcutting
- Rx2 – Overstory removal

LAYOUT & DESIGNATION

See marking guides for specifics of all marking within the sale.

All units and marking was completed in the fall of 2015.

All boundaries are marked with Orange tracer paint batch W0077. Plot Cruise trees were marked with Blue tracer paint batch C0124.

Table 1 Sale/Unit Overview				
Designation	Acres	Units	Volume	Volume/ Acre
CC (B2.31)	42.6	84, 84A	807.67	
OR (B2.33)	281.2	88, 90, 94, 96, 96A, 97, 150, 151	5331.36	
Totals	323.8		6139.03	

CRUISE

Cruise design and implementation has been completed pursuant with FSH 2409.12 Timber Cruising Handbook. Cruise specifics can be found in the cruise plan and output files. The sale volume was determined from variable plot cruise methodologies.

The weighted standard error for net volume cruised is: +/-20.64%

Cruise designed by: Mike Salazar Date: 10/20/2015

Cruise completed date: 11/2/2015

Successful check cruise by: Craig Kasten Date check cruise: 05/02/2016

Cruise output certification by: Frank Romero Date: 3/28/2016

Table 2 Cruising Team		
Members	Type of Certification	Expiration Date
Ross Dixon, Jeremy Zubik	Qualified	Indefinite
Mike Salazar	Advanced	Indefinite

VOLUMES

Average Diameter Breast Height (DBH) for the sale is 11.6 inches and the mean total height is 59.2 feet. For a further breakdown of tree defect, please see the cruise reports which display defect by strata, live or dead, and species.

Table 3 Cruised Volume by Species, Live and Dead Sawtimber		
Species	Live	Dead
Lodgepole Pine	1082.51	4053.32
Engelmann Spruce	101.56	729.29
Subalpine fir	172.35	
Total All = 6,139.03		

APPRAISAL CALCUALTIONS OVERVIEW

The following appraisal calculations and allowances are based on actual cruise **volume 6139.03 ccf rounded to 6139.03 ccf as required by TIM**. Additional rounding will be required for TEA Input and is displayed in Table 10 –TEA Input and Table 11- Summary of Recommendations.

Table 4 Volume and Utilization Standards							
Contract Species	Product	Volume	DBH	# pieces	Length	DIB	Merch Factor
Lodgepole Pine	Sawtimber	5135.83	9.0	1	8	7	10.67
Engelmann Spruce	Sawtimber	830.85	9.0	1	8	7	10.67
Subalpine fir	Sawtimber	172.35	9.0	1	8	7	10.67

ROAD PACKAGE

No road package.

HAUL COST AND ROAD MAINTENANCE

The appraisal point with the highest appraised value was determined to be the mill facility in Saratoga, Wyoming.

Log Haul Cost:

Log Haul spreadsheet was used to calculate the haul cost for sawtimber = **\$48.07/CCF**.

Road Maintenance:

Road Maintenance tables below display what roads the Purchaser will maintain and if applicable the roads he will pay a deposit to the Forest Service to maintain.

	Termini		Applicable Pre-Haul Road Maintenance Specifications
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Road	From	To	Miles	800	801	802	803	804	805	807	808
562	Jct. 511	End	3.1			P	P	P	P	P	P
562.C	Jct. 562	End	0.40			P	P	P	P	P	P
562.D	Jct. 562	End	0.40		P	P	P	P	P	P	P
500.E	Jct. 562	Jct. 500.EA	0.30			P	P	P	P	P	P
500.EA	Jct. 500.E	End	0.40			P	P	P	P	P	P

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini			Miles	800	Applicable Specifications			During-Haul Road Maintenance		
	From	To				801	802	803	804	805	807
500	Jct. WY HWY 11	Jct. 511	11.90			P	P		P	P	P
543	Jct. 500	Jct. 511	4.30			P	P		P	P	P
511	Jct. 500 TO 562	Jct. 562	0.90			P	P		P	P	P
511	Jct. 543	MP 0.6	0.60			P	P		P	P	P
562	Jct. 511	End	3.1			P	P		P	P	P
562.C	Jct. 562	End	0.40			P	P		P	P	P
562.D	Jct. 562	End	0.40			P	P		P	P	P
500.E	Jct. 562	Jct. 500.EA	0.30			P	P		P	P	P
500.EA	Jct. 500.E	End	0.40			P	P		P	P	P

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini			Miles	800	Applicable Post-Haul Road Maintenance Specifications					
	From	To				801	802	803	804	805	807
500	Jct. WY HWY 11	Jct. 511	11.90			P	P		P	P	P
543	Jct. 500	Jct. 511	4.30			P	P		P	P	P
511	Jct. 500 TO 562	Jct. 562	0.90			P	P		P	P	P
511	Jct. 543	MP 0.6	0.60			P	P		P	P	P
562	Jct. 511	End	3.1			P	P		P	P	P
562.C	Jct. 562	End	0.40			P	P		P	P	P
562.D	Jct. 562	End	0.40			P	P		P	P	P
500.E	Jct. 562	Jct. 500.EA	0.30			P	P		P	P	P
500.EA	Jct. 500.E	End	0.40			P	P		P	P	P

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Pre-Haul Road Maintenance:

A Pre-haul Maintenance spreadsheet was utilized to determine costs which is =
\$3,312 / 6139 CCF = \$0.54

During & Post-Haul Road Maintenance:

During & Post Haul Maintenance spreadsheet was utilized to determine cost which is =
\$4,972.59 / 6139 CCF = \$0.81

Surface Rock Replacement Deposit:

Surface Rock Replacement deposit spreadsheet was utilized to determine cost which is =
\$16,176.27 / 6139 CCF = \$2.64

Road maintenance is a sum of pre-haul, during & post haul maintenance, and surface rock replacement deposit = $(0.54 + 0.81 + 2.64) = \$3.99/CCF$

TEMPORARY ROAD COST

Temporary Road Narrative

An estimated 3.0 miles of temporary road is needed to access this sale. The Purchaser will close temporary roads as described in C5.34# generally by re-contouring to natural topography, scattering coarse woody debris, water barring, ripping to described depths or variations of these techniques. Costs for this work and the variance in this work by road has been fully calculated using the Cost Estimating Guide for Road Construction, March 2013 combined with an internally developed temporary road cost calculation spreadsheet.

Unless otherwise agreed to by both the Forest Service and the Purchaser right-of-way (ROW) slash from temporary roads will be treated as follows: ROW timber not meeting utilization standards of contract provision A2, to include but not limited to stumps, limbs and tops shall be scattered outside the clearing limits and lopped and scattered to lie within 24 inches of the ground. Windrowing is acceptable, so it can be pulled back onto the roadway as part of closure if needed.

Temporary Road Cost Calculation Spreadsheet Narrative

The cost calculation spreadsheet lists all temporary road segments. These segments are broken down into the length in feet by light, medium and heavy construction classification. These distances are then multiplied by a cost per mile by work classification. Cost per mile for closure and seeding are also calculated based on work classification.

Costs for clearing and grubbing, excavation, closure and seeding are based on the 2013 R2 Regional Cost Guide and labor rates are based on Wyoming Department of Labor website numbers.

http://www.dot.state.wy.us/home/engineering_technical_programs/prevailing_wage.default.html

1. Temp Road Construction: The costs per unit are calculated using spreadsheet values for light temporary road construction. The total cost of road construction is **\$4,752.**

2. Temp Road Closure: The costs per unit are calculated using spreadsheet values for light temporary road construction. The total cost of closure is **\$4,293.39.**

3. Temp Road Erosion Control and Seeding: There is an estimated 2 acres of landings and 5 acres of skid trails. The cost for this work will be added to temporary roads, as this is part of the temporary transportation system. The total cost of excavation is **\$1,791.37.**

Total Temporary Road Cost

$\$4,752.00 + \$4,293.39 + \$1,791.37 = \$10,836.76 / 6139 CCF = \$1.76/CCF$

BRUSH DISPOSAL / SLASH TREATMENT

Whole tree skidding is preferred for all units. Residual slash from falling operations will be scattered, bucked or trampled to lie within 24 inches of the ground. Excess slash created at the landing will be piled; this is considered normal industry practice and is included in skid yard costs. Logging slash piles will be burnt by the Forest Service and requires a deposit. The cost to burn piles by Forest Service is detailed in the Brush Disposal Plan.

Brush Disposal Deposit: \$1,482 / 6139 CCF = **\$0.24/CCF**

SALE SKID YARD

A spread sheet was developed to determine average skid distance for the sale. The skid yard spreadsheet uses average skid distance and volume per unit to determine a weighted average skid distance. The sale skid yard cost was determined using the regional average regression equations in the TEA program.

Average Skid Distance = **478 Feet**

The sale skid/yard cost = **\$114.40**

PURCHASER OBLIGATION PER OPERATION FIRE

1. The normal amount of men required for operation of the sale = 3 personnel.
2. Maximum amount of purchaser obligation per operations fire = number of personnel x semi-skilled firefighter wage rate x 12 hrs. x 3 days.
3. 3 men x 12 hr. shift x \$18.00/hr. (AD-C firefighter, Interagency Incident Business Management Handbook) x 3 days = \$1,944.00 rounded up to nearest \$100 = \$2,000
4. Use **\$2,000.00**

KV PLAN

Specifics of the sale area improvement plan are detailed in the KV Plan.

Essential KV includes Program Support: **\$10,911**

Total KV Funded: \$18,528

SSF PLAN

The amount of available funds for the SSF Plan is determined from total sale value minus planned KV collection minus minimum to NFF if applicable (not applicable to salvage sales).

Total Sale Available Funds: \$20,079

Total NFF: \$1,535

Total KV Funded: \$18,528

Total SSF funded with consideration of 77.1% overhead = \$0.00

TEA Inputs

Table 5 Volume - A2, Live & Dead Sawtimber Rounded as required by TIM	
Species	Live & Dead
Lodgepole Pine	5,135.83
Engelmann Spruce	830.85
Subalpine fir	172.35
Total 6,139.03	

Table 10 Information Input to TEA234					
<i>STARS #</i>	<i>Bulletin</i>	<i>State</i>	<i>County</i>	<i>Sale Area Acres</i>	<i>Harvest Acres</i>
26511	BU210716 REV0	WY	Albany	1596	323.8
<i>Legal Description</i>			<i>Construction Miles</i>		<i>Reconstruction Miles</i>
T14N R79W			0.00 rounded to 0.0		0.00 rounded to 0.00
<i>Specified Road Cost 1/</i>		<i>Contributing Funds</i>			<i>Sale Quadratic Mean Diameter</i>
\$0.00 rounded \$0.00		\$0.00			11.6
<i>Appraisal Base Period</i>		<i>Gross Sale Acres</i>			<i>Essential KV</i>
616		1596			\$10,911
<i>Appraisal Point Sawtimber</i>		<i>Haul Miles</i>			<i>Round Trip Time</i>
Saratoga, Wyoming		102.59			425.39
<i>Haul Cost</i>	<i>Road Maintenance 2/</i>		<i>Sale Slash 3/</i>		<i>Sale Temp Road 4/</i>
\$48.07	\$3.99		\$0.24		\$1.76
<i>Unit of Measure (UOM)</i>			<i>Product</i>		<i>Timber Property</i>
03			01 (Sawtimber)		\$0.00
<i>Quality Adjustment LP</i>	<i>Quality Adjustment ES</i>		<i>Unusual Adjustment LP</i>		<i>Unusual Adjustment ES</i>
-	-		-		-
<i>Ground Based Volume CCF</i>		<i>Ground Based Vol/acre CCF</i>		<i>Ground Based Vol/tree CF</i>	<i>Ground Based Skid Distance Feet</i>
6,139		19		12	478

1/ Specified road cost is a sum of construction (\$0.00) and reconstruction (\$0.00) and reconstruction engineering deposits (\$0.00) and if applicable C5.41# Road Closure (\$0.00) total dollars.

2/ Road maintenance is a sum of pre-haul (\$0.54), during & post haul maintenance (\$0.81), and surface rock replacement deposit (\$2.64) per CCF.

3/ Sale slash is a sum of brush disposal (\$0.24) and slash treatment (\$0.00) per CCF.

4/ Sale temp roads is a sum of temp roads (\$1.76) per CCF

SUMMARY OF RECOMMENDATIONS & GENERAL CONTRACT INFORMATION

- A. Bulletin: **BU210716 REV0**
- B. Escalation: **Escalated**
- C. Scaled or Tree Measurement: **Sales by Weight**
- D. Reconstruct Specified Roads Present: **No**
- E. Value of Sale: weighted average bid value = **\$20,079**
- F. Contract Type: **2400-6**
- G. Advertised: **TBD** Bid Opening: **TBD** Termination: **06/30/2020**
- H. Bid Method: **Sealed Bid** Bid Form: **Weighted Average Bid**
- I. Periodic Payment Initial: **TBD** Additional: **TBD**
- J. Performance Bond: **TBD**
- K. Appraisal Method: **Transaction Evidence**
- L. Normal Operating Season: **July 1 to October 31**
- M. Fire Precautionary Period: **May 1 to November 15**
- N. Required Deposits:

1. Slash Treatment Deposit (BD Plan): **\$0.24/CCF**
2. Surface Rock Replacement Deposit: **\$2.64/CCF**
3. Engineering Services Deposit: **\$0.00**

Table 6 Summary of Recommendations					
	Lodgepole Pine Sawtimber	Engelmann Spruce Sawtimber	Subalpine Fir Sawtimber	Non-saw	TOTAL/ AVERAGE
Estimated Volume CCF	5,135.83	830.85	172.35	-	6,139.03
Advertised Rate (Per CCF)	3.00	5.00	3.00	-	-
Base Rates (Per CCF)	3.00	5.00	3.00	-	-
Value of Sale	-	-		-	\$20,079
Required Deposits:					
Slash Disposal (BD) (18 U.S.C. 490)	\$0.24	\$0.24	\$0.24	-	\$0.24
Surface Replacement (SRR) (16 U.S.C. 537)	\$2.64	\$2.64	\$2.64	-	\$2.64
Blade Maint.	-	-	-	-	-
Engineering Services	-	-	-	-	-
Purchaser Road Costs					
During & Post Maint.	\$0.81	\$0.81	\$0.81	-	\$0.81
Road Reconstruction	-	-		-	-
Road Closure	-	-	-	-	-
Pre-Haul Maint	\$0.54	\$0.54	\$0.54	-	\$0.54
Temp Roads	\$1.76	\$1.76	\$1.76	-	\$1.76
WWPA Base Index	171.63 WWPA	189.69 WWPA	153.56 WWPA	-	-
Average DBH	-	-		-	11.4
Quadratic Mean Diameter	-	-		-	11.6