

Deadhorse
Mtn Timber
Sale

Map Legend

- Sale Area Boundary BT1.1
- - - Payment Unit Boundary BT1.1
- (PU) Payment Unit Identification Number BT 1.1
- (CT) Cutting Unit Boundary BT2.3, CT2.301#
- (CT) Cutting Unit Identification Number BT 1.1
- (LTM) Leave Tree Marked Cutting Unit BT2.3, CT2.35, CT2.356#
- (CC) Clearcutting Unit CT2.31
- (OR) Overstory Removal Units CT2.33
- (ITM) Individual Tree Units BT2.3, CT2.35, CT2.355#
- (DSD) Designation by Species and Diameter CT2.352#
- (R) Reserve Trees CT2.3#, CT6.32#
- (T) Tractor Skidding Specified BT6.42
- (WL) Wetlands Protection BT6.62
- (MP) Meadow Protection BT6.61
- WTL No Whole Tree Logging CT6.42#
- FSR 315.0 Existing Transportation System, BT5.12 & Forest System Road #
- CO-80C Existing Transportation System, County Road
- KO Keep Road Open BT6.22
- R Existing Road, Hauling Restricted CT5.12#
- X Existing Road, Hauling Prohibited CT5.12#
- Specified Road Reconstruction AT9, BT5.2
- Private or Other Ownership
- National Forest
- Contours
- Protection of Land Survey Monuments BT6.23
- Protect Streamcourse, Block Marks Upper Limit BT 6.5
- Reserve Groups CT2.3#, CT6.32#
- Special Protection Area BT6.25, CT6.25#
- Fire Break BT6.7, CT6.7#

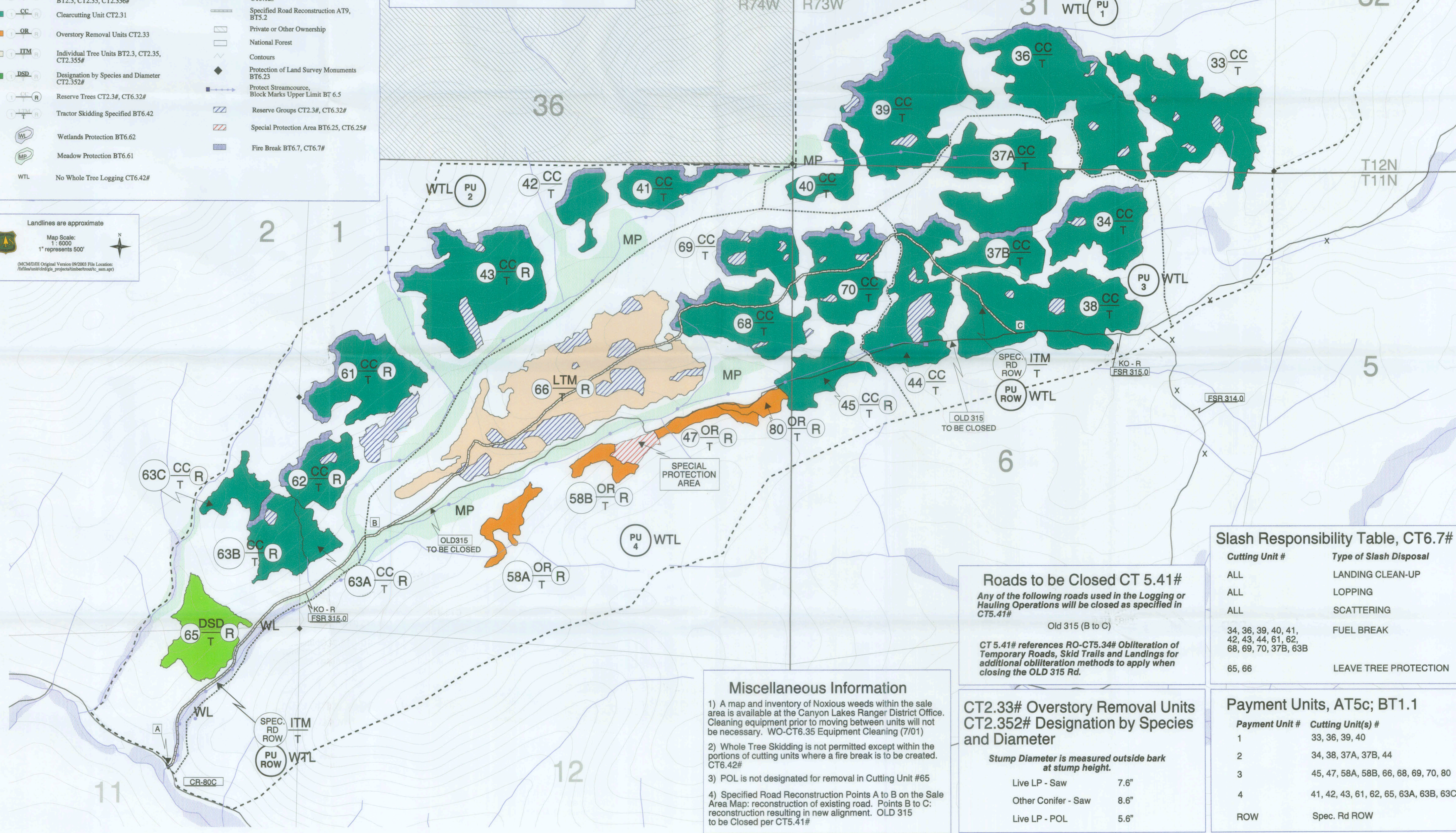
Trout Creek Timber Sale Sale Area Map

Roosevelt National Forest (10)
Canyon Lakes Ranger District (05)
Larimer County (69), Colorado (8)

Landlines are approximate

Map Scale:
1" = 6000'
1" represents 500'

(MCM/DJI Original Version 09/2003 File Location:
/files/units/ct6d_gis_projects/timbertrout/sam.apr)



Roads to be Closed CT 5.41#
Any of the following roads used in the Logging or Hauling Operations will be closed as specified in CT5.41#

Old 315 (B to C)

CT 5.41# references RO-CT5.34# Obliteration of Temporary Roads, Skid Trails and Landings for additional obliteration methods to apply when closing the OLD 315 Rd.

Slash Responsibility Table, CT6.7#

Cutting Unit #	Type of Slash Disposal
ALL	LANDING CLEAN-UP
ALL	LOPPING
ALL	SCATTERING
34, 36, 39, 40, 41, 42, 43, 44, 61, 62, 68, 69, 70, 37B, 63B	FUEL BREAK
65, 66	LEAVE TREE PROTECTION

Miscellaneous Information

- A map and inventory of Noxious weeds within the sale area is available at the Canyon Lakes Ranger District Office. Cleaning equipment prior to moving between units will not be necessary. WO-CT6.35 Equipment Cleaning (7/01)
- Whole Tree Skidding is not permitted except within the portions of cutting units where a fire break is to be created. CT6.42#
- POL is not designated for removal in Cutting Unit #65
- Specified Road Reconstruction Points A to B on the Sale Area Map: reconstruction of existing road. Points B to C: reconstruction resulting in new alignment. OLD 315 to be Closed per CT5.41#

**CT2.33# Overstory Removal Units
CT2.352# Designation by Species and Diameter**

Stump Diameter is measured outside bark at stump height.

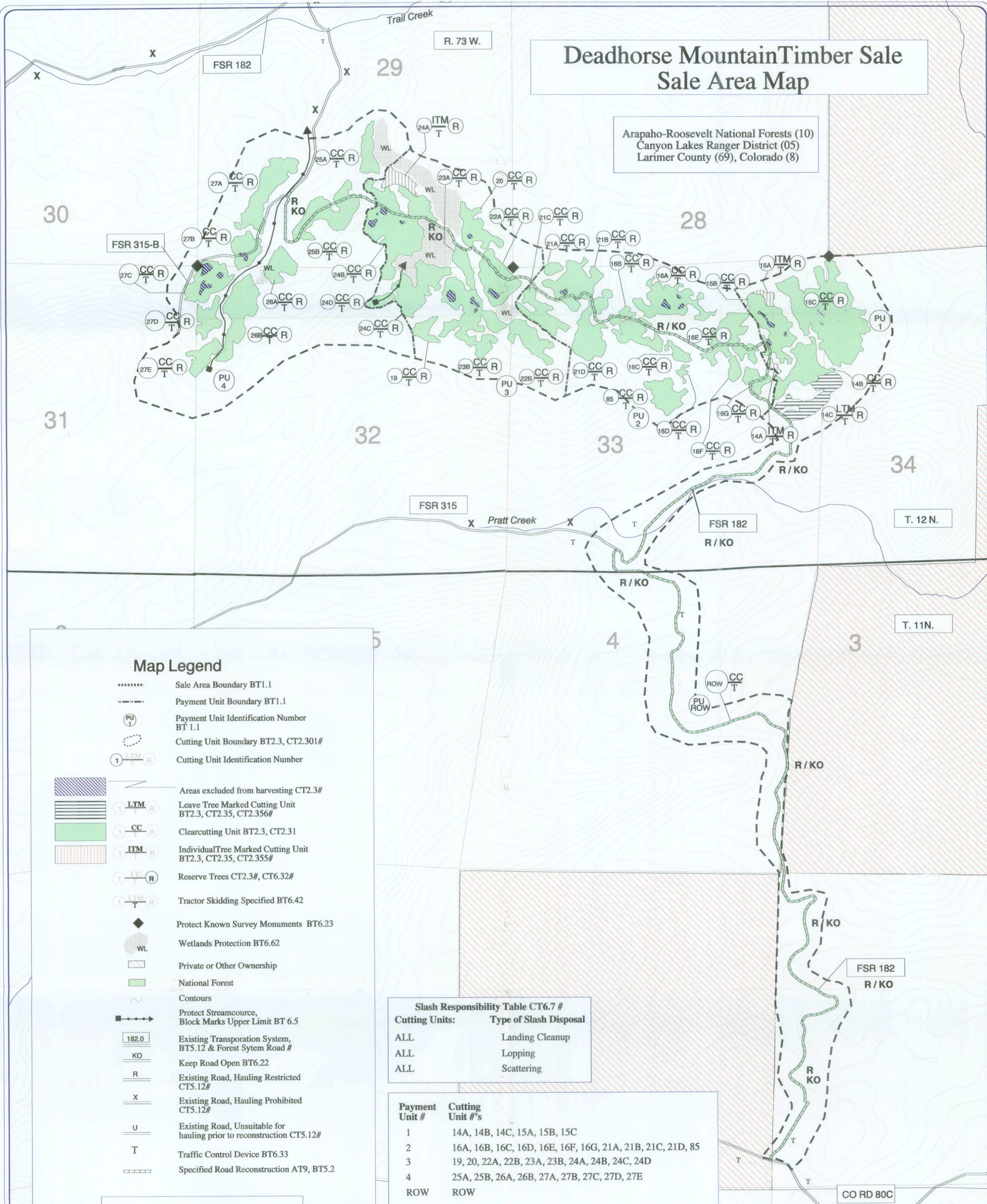
Live LP - Saw	7.6"
Other Conifer - Saw	8.6"
Live LP - POL	5.6"

Payment Units, AT5c; BT1.1

Payment Unit #	Cutting Unit(s) #
1	33, 36, 39, 40
2	34, 38, 37A, 37B, 44
3	45, 47, 58A, 58B, 66, 68, 69, 70, 80
4	41, 42, 43, 61, 62, 65, 63A, 63B, 63C
ROW	Spec. Rd ROW

Deadhorse Mountain Timber Sale Sale Area Map

Arapaho-Roosevelt National Forests (10)
Canyon Lakes Ranger District (05)
Larimer County (69), Colorado (8)



Map Legend

- Sale Area Boundary BT1.1
- - - - - Payment Unit Boundary BT1.1
- (PU 1) Payment Unit Identification Number BT 1.1
- (1) Cutting Unit Boundary BT2.3, CT2.301#
- (1) Cutting Unit Identification Number
- [Hatched Box] Areas excluded from harvesting CT2.3#
- [LTM Symbol] Leave Tree Marked Cutting Unit BT2.3, CT2.35, CT2.356#
- [CC Symbol] Clearcutting Unit BT2.3, CT2.31
- [ITM Symbol] Individual Tree Marked Cutting Unit BT2.3, CT2.35, CT2.355#
- [R Symbol] Reserve Trees CT2.3#, CT6.32#
- [LTM Symbol] Tractor Skidding Specified BT6.42
- [Diamond] Protect Known Survey Monuments BT6.23
- [WL Symbol] Wetlands Protection BT6.62
- [Hatched Box] Private or Other Ownership
- [Green Box] National Forest
- [Wavy Line] Contours
- [Arrow] Protect Streamcourse, Block Marks Upper Limit BT 6.5
- [182.0] Existing Transportation System, BT5.12 & Forest System Road #
- [KO] Keep Road Open BT6.22
- [R] Existing Road, Hauling Restricted CT5.12#
- [X] Existing Road, Hauling Prohibited CT5.12#
- [U] Existing Road, Unsuitable for hauling prior to reconstruction CT5.12#
- [T] Traffic Control Device BT6.33
- [Dashed Line] Specified Road Reconstruction AT9, BT5.2

Slash Responsibility Table CT6.7

Cutting Units:	Type of Slash Disposal
ALL	Landing Cleanup
ALL	Lopping
ALL	Scattering

Payment Unit #	Cutting Unit #'s
1	14A, 14B, 14C, 15A, 15B, 15C
2	16A, 16B, 16C, 16D, 16E, 16F, 16G, 21A, 21B, 21C, 21D, 85
3	19, 20, 22A, 22B, 23A, 23B, 24A, 24B, 24C, 24D
4	25A, 25B, 26A, 26B, 27A, 27B, 27C, 27D, 27E
ROW	ROW

Miscellaneous Information

- 1) A map and inventory of Noxious Weeds within the sale area is available at the Canyon Lakes Ranger District Office. Cleaning equipment prior to moving between cutting units will not be necessary. WO-CT6.35 Equipment Cleaning (7/01)
- 2) Whole Tree Skidding per CT6.42# will not be permitted.

Landline are approximate

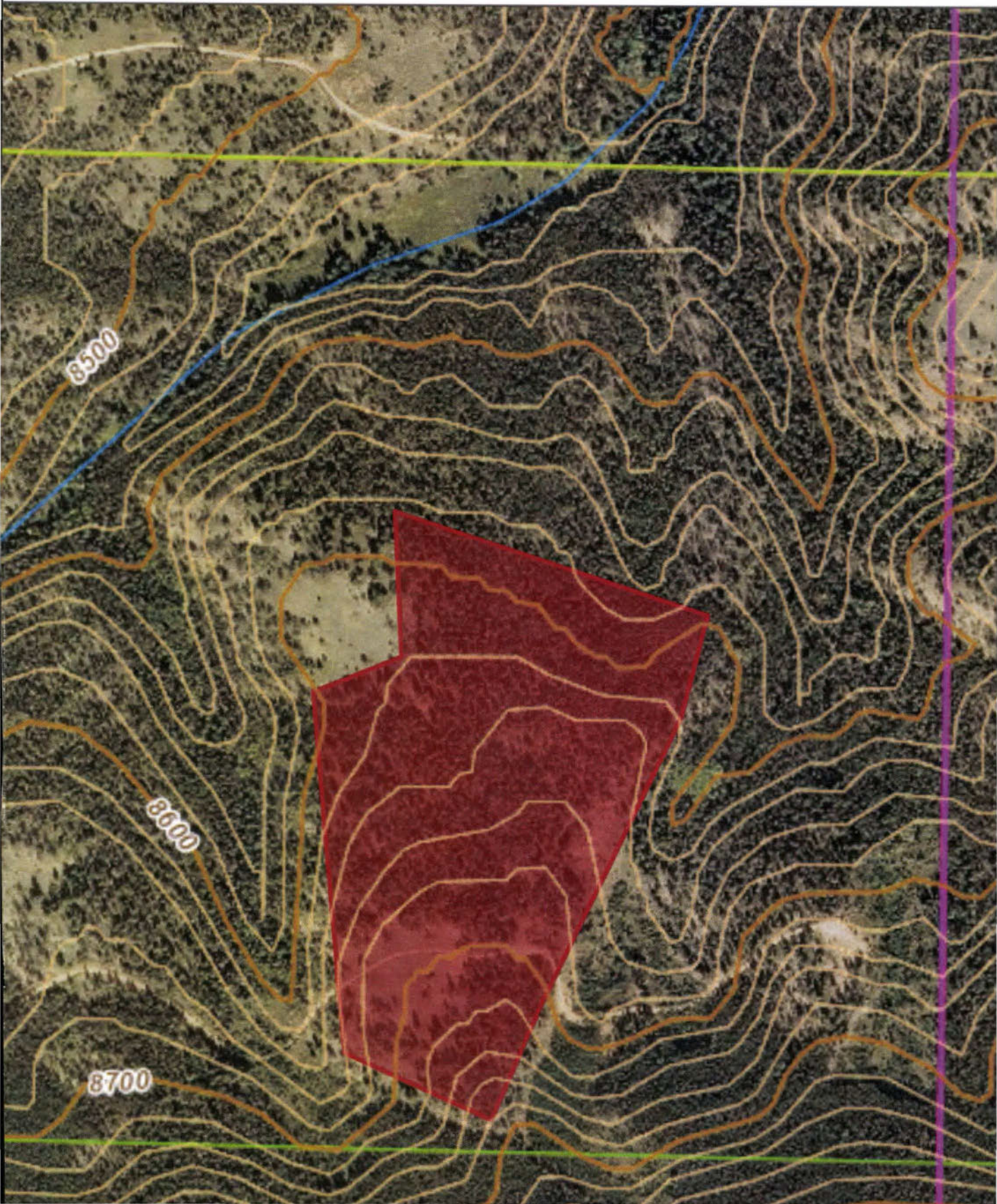


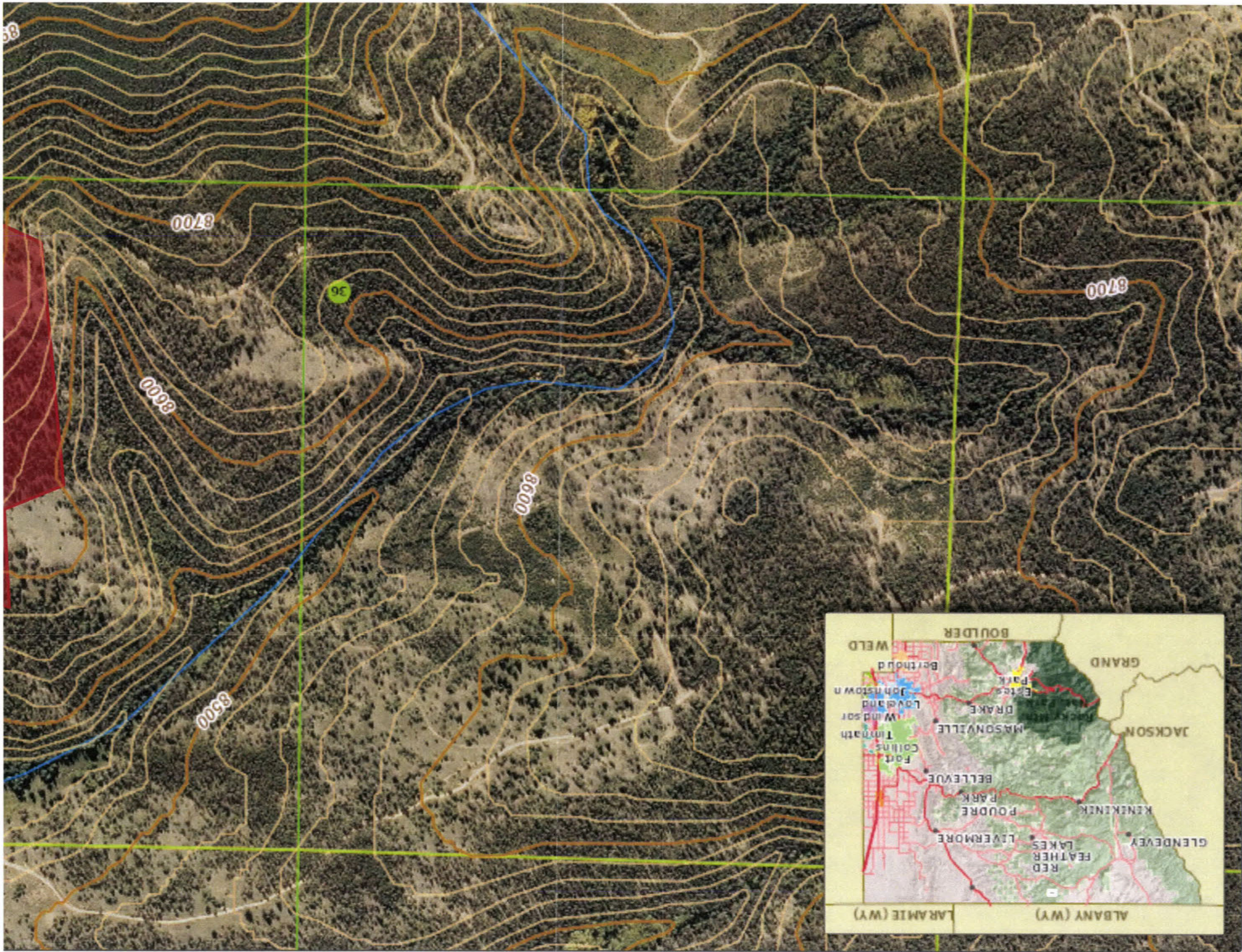
Map Scale:
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1 inch = 1000 feet



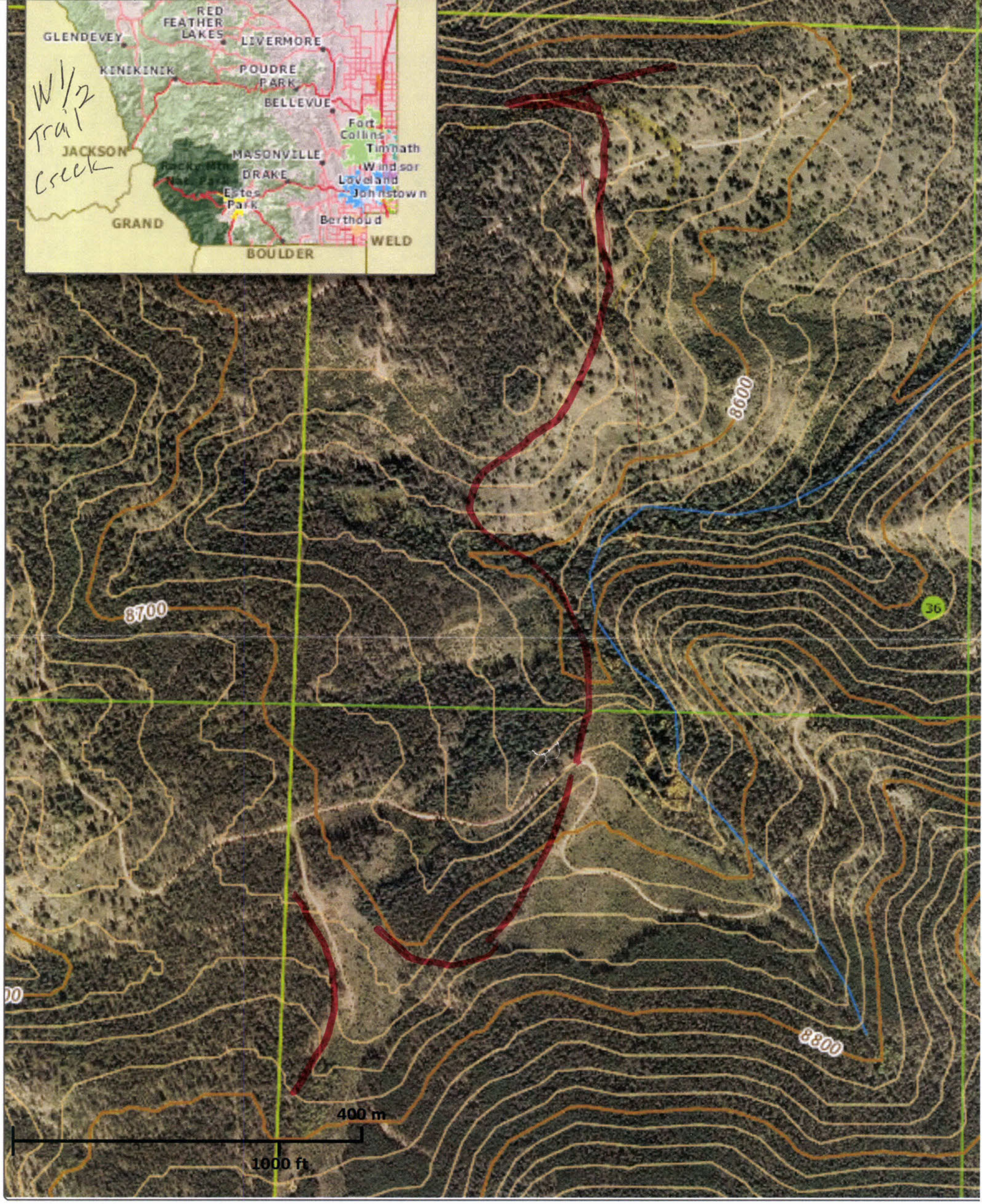
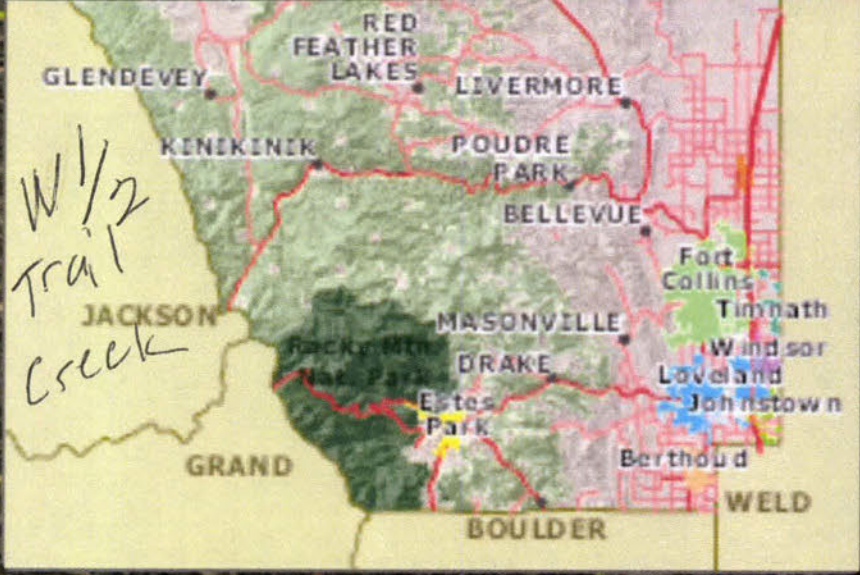
(DJH Re-offer Version 3/2004 File Location: fsfiles/unit/cldr/gis_projects/timber/deadhorse/gis/practice.apr)

NE 1/4 Trail Creek





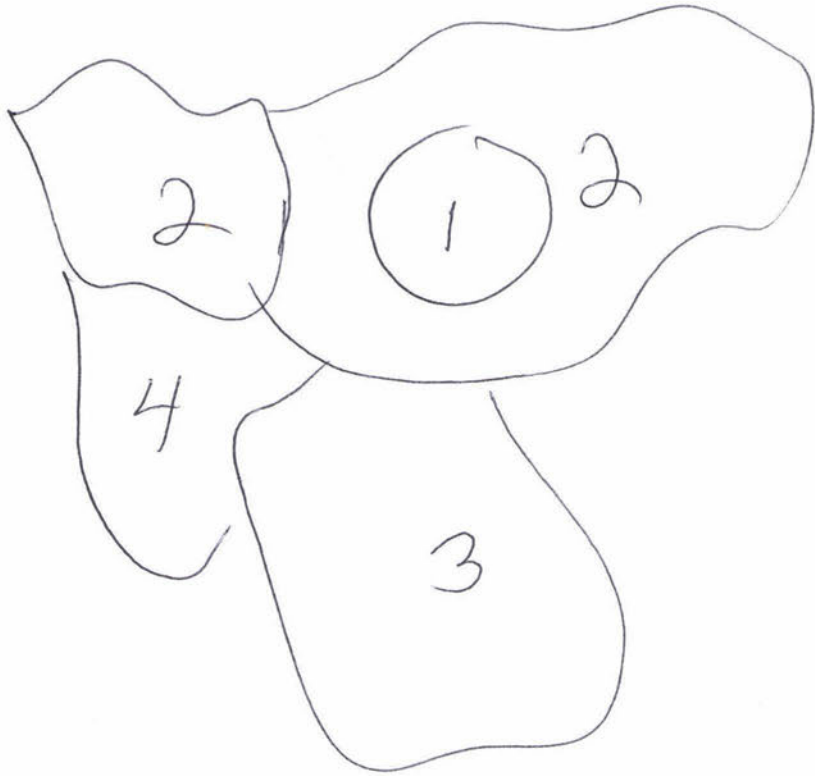
Trail Creek



S6, T7N, R72W

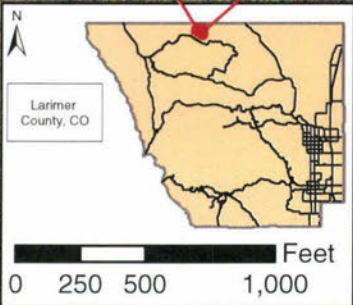


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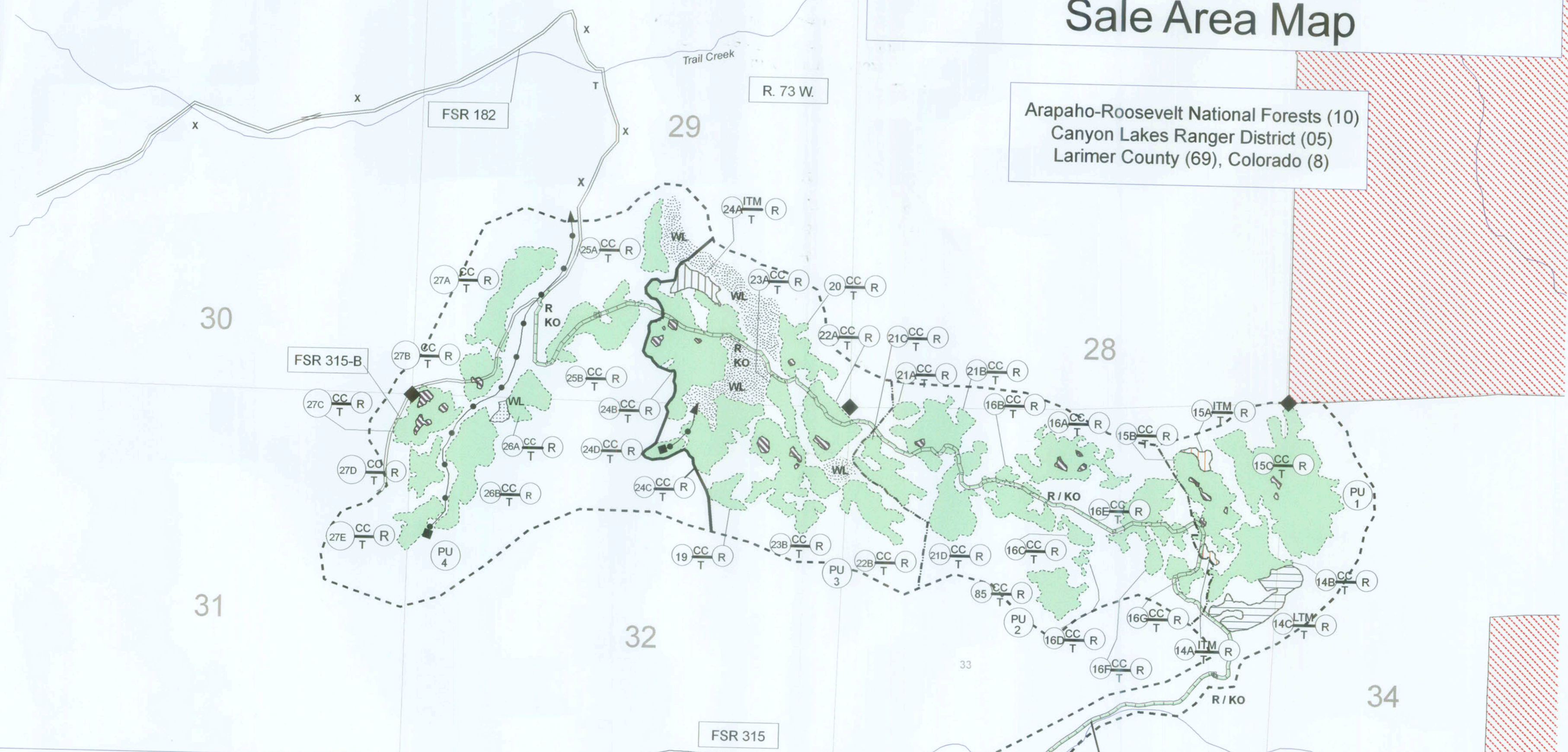
Trail Creek State Trust Land
Sec 36, T12N, R74W

Capitol Christmas Tree Location



Deadhorse Mountain Timber Sale Sale Area Map

Arapaho-Roosevelt National Forests (10)
Canyon Lakes Ranger District (05)
Larimer County (69), Colorado (8)



Map Legend

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- - - - - Payment Unit Boundary BT1.1
- BT 1.1 Payment Unit Identification Number
- - - - - Cutting Unit Boundary BT2.3, CT2.301#
- ① ITM R Cutting Unit Identification Number
- [Hatched Box] Areas excluded from harvesting CT2.3#
- [Horizontal Lines Box] LTM R Leave Tree Marked Cutting Unit BT2.3, CT2.35, CT2.356#
- [Green Box] CC R Clearcutting Unit BT2.3, CT2.31
- [Vertical Lines Box] ITM R Individual Tree Marked Cutting Unit BT2.3, CT2.35, CT2.355#
- [Circle with R] CC R Reserve Trees CT2.3#, CT6.32#
- [Circle with T] ITM R Tractor Skidding Specified BT6.42
- ◆ Protect Known Survey Monuments BT6.23
- WL Wetlands Protection BT6.62
- [Hatched Box] Private or Other Ownership
- [Green Box] National Forest
- ~ Contours
- ◆◆◆◆◆ Protect Streamcourse, Block Marks Upper Limit BT 6.5
- 182.0 Existing Transportation System, BT5.12 & Forest System Road #
- KO Keep Road Open BT6.22
- R Existing Road, Hauling Restricted CT5.12#
- X Existing Road, Hauling Prohibited CT5.12#
- U Existing Road, Unsuitable for hauling prior to reconstruction CT5.12#
- T Traffic Control Device BT6.33
- ▬▬▬▬▬ Specified Road Reconstruction AT9, BT5.2

Slash Responsibility Table CT6.7 #

Cutting Units:	Type of Slash Disposal
ALL	Landing Cleanup
ALL	Lopping
ALL	Scattering

Payment Unit #	Cutting Unit #'s
1	14A, 14B, 14C, 15A, 15B, 15C
2	16A, 16B, 16C, 16D, 16E, 16F, 16G, 21A, 21B, 21C, 21D, 85
3	19, 20, 22A, 22B, 23A, 23B, 24A, 24B, 24C, 24D
4	25A, 25B, 26A, 26B, 27A, 27B, 27C, 27D, 27E
ROW	ROW

Miscellaneous Information

- 1) A map and inventory of Noxious Weeds within the sale area is available at the Canyon Lakes Ranger District Office. Cleaning equipment prior to moving between cutting units will not be necessary. WO-CT6.35 Equipment Cleaning (7/01)
- 2) Whole Tree Skidding per CT6.42# will not be permitted.

Landline are approximate

Map Scale:
1: 12,000
1 inch = 1000 feet

(DJH Re-offer Version 3/2004 File Location:
fsfiles/unit/clrd/gis_projects/timber/deadhorse/gis/practice.apr)



United States
Department of
Agriculture

Forest
Service

Canyon Lakes
Ranger District

1311 South College Avenue
Fort Collins, CO 80524
Voice: (970) 498-1375 TDD: (970)
498-2707
Web: www.fs.fed.us/r2/arnf
Fax: (970) 498-2727 or 498-2726

Date: 2430-2
April 14, 2004

*Darwin ??
Hoggrave*

Dear Prospective Bidder:

On May 7, 2004, at 3:00 PM (local time), Sealed bids will be opened in the Supervisors Office, Medicine Bow/Routt National Forests, 2468 Jackson Street, Laramie, WY 82070 for the Trout Creek Timber Sale. The Trout Creek Timber Sale is located on the Canyon Lakes Ranger District, Arapaho and Roosevelt National Forests. It may be legally described as all or portions of sections 1, 2, 11 and 12 T11N, R74W; sections 31 and 32, T12N, R73W, and section 6, T11N, R73W; 6th P.M., Larimer County, Colorado. Timber Sale Contract form, FS-2400-6T will be used. The termination date for this sale is March 31, 2007.

There are 3.8 kilometers (2.4 miles) of specified road reconstruction, N/A kilometers of specified road construction, N/A specified road bridge(s), and N/A specified terminal facilities. A specified road construction cost of \$63,471.00 (\$59,614 specified road cost estimate plus \$3,857 Engineering deposits) has been allowed in the appraisal for this work.

The estimated quantities in this contract have been determined prior to felling. The total estimated quantity on this sale is 6486 CCF. Potential bidders should make their own inspection and estimate prior to bid submission. The Forest Service makes no representation, warranty, or guarantee of the accuracy of the following quantity estimates:

Estimated Quantities and Rates per Unit of Measure

Species	Product	Unit of Measure	Estimated Quantities	Average DBH	Advertised Rates	Base Rates	Required Deposits	
							Slash Disposal	Road Maintenance
Live Lodgepole Pine; TF & Other Conifers	Sawtimber	CCF	5021	9.2	\$14.93/CCF	\$6.00/CCF	\$2.29/CCF	None
Required Removal At Fixed Rates								
Live Lodgepole Pine	POL	CCF	1465	6.0	\$1.00/CCF	\$1.00/CCF	\$2.29/CCF	None
	TOTAL	CCF	6486				\$14,852.94	

The minimum acceptable total sale value bid for advertised timber is \$ 74,963.53.

There is a \$ 7,500.00 bid guarantee required on this sale.

If you wish further information on this sale, the prospectus and bid form, please write or call Dave Hattis, Sale Preparation Forester, (970) 498-1350, Canyon Lakes Ranger District, 1311 S. College Ave., Fort Collins CO 80524.

*After Postings
Please file in
Trail Creek S.L. file*

Sincerely,

(Signature)
ELLEN L. HODGES
District Ranger



Enclosure: Fort Collins Coloradoan Advertisement





United States
Department of
Agriculture

Forest
Service

Arapaho & Roosevelt
National Forests &
Pawnee National Grasslands

Canyon Lakes Ranger District
1311 South College Avenue
Fort Collins, CO 80524
(970) 498-1376 TDD 498-2769

B
FYI
Post

Reply to: 2430
Date: October 2, 2003

Dear Prospective Bidder:

On November 6, 2003, at 3:00 PM (local time), Sealed bids will be opened in the Supervisors Office, Medicine Bow/Routt National Forests, 2468 Jackson Street, Laramie, WY 82070 for the Trout Creek Timber Sale. The Trout Creek Timber Sale is located on the Canyon Lakes Ranger District, Arapaho and Roosevelt National Forests. . It may be legally described as all or portions of sections 1, 2, 11 and 12 T11N, R74W; sections 31 and 32, T12N, R73W, and section 6 T11N, R73W; 6th P.M., Larimer County, Colorado. Timber Sale Contract form, FS-2400-6T will be used. The termination date for this sale is March 31, 2007.

OW
DIE

There are 3.4 kilometers (2.4 miles) of specified road reconstruction, N/A kilometers of specified road construction, N/A specified road bridge(s), and N/A specified terminal facilities. A specified road construction cost of \$63,471.00 (\$59,614 specified road cost estimate plus \$3,857 Engineering deposits) has been allowed in the appraisal for this work.

The estimated quantities in this contract have been determined prior to felling. The total estimated quantity on this sale is 6486 CCF. Potential bidders should make their own inspection and estimate prior to bid submission. The Forest Service makes no representation, warranty, or guarantee of the accuracy of the following quantity estimates:

Estimated Quantities and Rates per Unit of Measure


Species	Product	Unit of Measure	Estimated Quantities	Average DBH	Advertised Rates	Base Rates	Required Deposits	
							Slash Disposal	Road Maintenance
Live Lodgepole Pine; TF & Other Conifers	Sawtimber	CCF	5021	9.2	\$37.85/CCF	\$6.00/CCF	\$1.67/CCF	None
Required Removal At Fixed Rates								
Live Lodgepole Pine	POL	CCF	1465	6.0	\$1.00/CCF	\$1.00/CCF	\$1.67/CCF	None
TOTAL		CCF	6486				\$10,831.62	

The minimum acceptable total sale value bid for advertised timber is **\$190,044.85**.

There is a \$19,100 bid guarantee required on this sale.

If you wish further information on this sale, the prospectus and bid form, please write or call Dave Hattis, Sale Preparation Forester, (970) 498-1350, Canyon Lakes Ranger District, 1311 S. College Ave., Fort Collins CO 80524.

Sincerely,

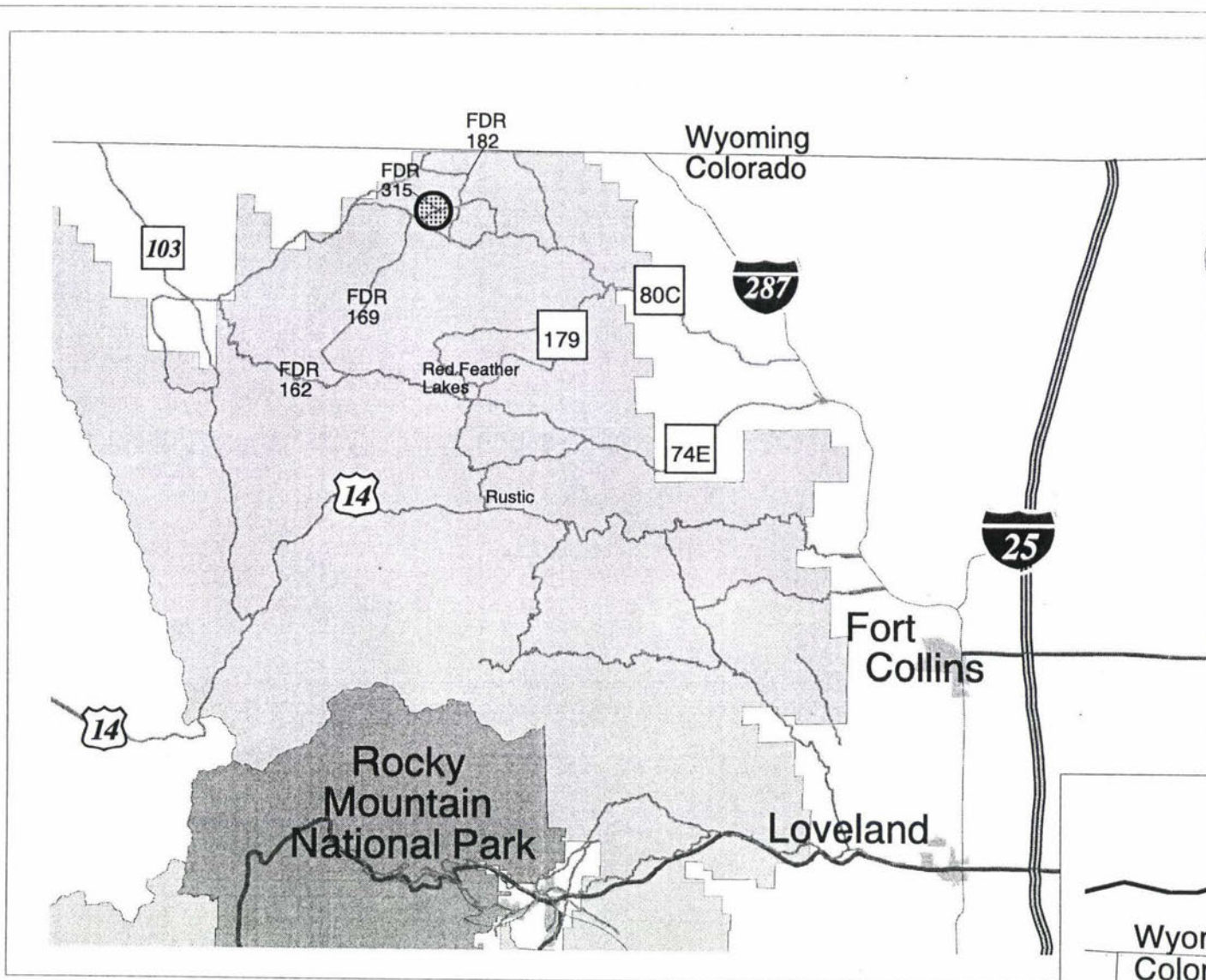

ELLEN L. HODGES
District Ranger

Enclosures (Advertisement, Map)


NATIONAL FOREST TIMBER FOR SALE
ARAPAHO - ROOSEVELT NATIONAL FORESTS

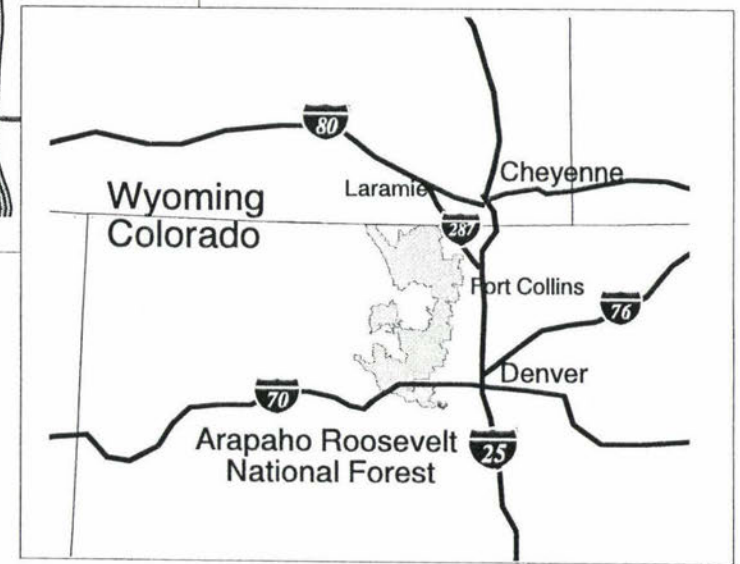
The TROUT CREEK Sale is located within sections 1, 2, 11, and 12 T11N, R74W; sections 31, and 32, T12N, R73W; and section 6, T11N, R73W; 6th P.M, State of Colorado, Larimer County. The Forest Service will receive sealed bids in public at The Forest Supervisor's Office, Medicine Bow-Routt National Forest, 2468 Jackson Street, Laramie, Wyoming 82070 at 3:00 PM local time on November 6, 2003 for for an estimated 5021 CCF Live Lodgepole pine and other conifers sawlogs, marked or otherwise designated for cutting. In addition, there is within the sale area an estimated volume of 1465 CCF Live Lodgepole pine products other than logs (POL) that the bidder agrees to remove at a fixed rate. Sale contains specified roads with an estimated public works construction cost of \$64,798. Bidders qualifying as small business concerns under the Small Business Act may, when submitting a bid, elect for the Forest Service to build permanent roads. Additional information concerning this option is in the prospectus. The Forest Service reserves the right to reject any and all bids. Interested parties may obtain a prospectus from the office listed below. A prospectus, bid form, and complete information concerning the timber, the conditions of sale, and submission of bids is available to the public from The District Ranger, Canyon Lakes Ranger District, 1311 South College Ave., Ft. Collins, CO 80524. Phone: (970) 498-1375. The USDA Forest Service is an Equal Opportunity Service Provider.

Trout Creek Timber Sale



Vicinity Map

 Approximate location of Trout Creek Timber Sale Area



TRAIL CREEK STATE LAND INFORMATION

Section 36, T12N, R75W

There were three post sales over a three year period that were sold to Morgan Timber Products. Harvesting began in July 1991 and was concluded in October 1992. Morgan had a post peeler set up on the sale area for approximately half of that time. The rest of the time, the posts were hauled to Fort Collins for peeling. Morgan has a tree harvesting shear, a rubber-tired skidder, a mechanical delimeter, a pole peeler, a cat tractor, and a loader.

A summary of accomplishments on the Morgan sales follows:

Sale	Unit	Size	Volume	Revenue	Harvest
Trail Cr. #2	1	7.3 Acres	252 cords	\$ 2,044	7-10, '91
Trail Cr. #3	A	4.3	67	5,109	1-07, '92
	B	1.9	48		
	C	2.1	49		
	D	3.3	101		
	E	7.8	214		
	F	2.7	52		
	G	4.0	99		
Trail Cr. #4	1	2.1	83	3,033	7-10, '92
	2	3.4	178		
	3	3.0	113		
Totals	11	41.9 Acres	1,334 cords	\$ 10,186	

All units were clearcut due to high incidence of dwarf-mistletoe. Slash piles were burned on Trail Creek #2 in December of 1991. Trees were tree-length skidded on most of the sale and de-limbed at the landing. Cutting was done by both the shear and by chain saw. Brush was piled with the rubber-tired skidder.

Christmas trees have been harvested from this unit over the last 10 years by George and Howard Hersh.

CSFS personel who assisted on the pre-sale field inventories were: Brent Ewers, Dave Farmer, Mike Hughes, Ray Mehaffey, Kathy Porter and Lincoln Sherman. Ray Mehaffey was Sale Administrator.

Additional slash piles will be burned in the Fall of 1993.

TRAIL CREEK STATE LAND INFORMATION

Section 36, T12N, R36W

There were three post sales over a three year period that were sold to Morgan Timber Products. Harvesting began in July 1991 and was concluded in October 1992. Morgan had a post peeler set up on the sale area for approximately half of that time. The rest of the time, the posts were hauled to Fort Collins for peeling. Morgan has a tree harvesting shear, a rubber-tired skidder, a mechanical delimeter, a pole peeler, a cat tractor, and a loader.

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	B	1.9	48		
	C	2.1	49		
	D	3.3	101		
	E	7.8	214		
	F	2.7	52		
	G	4.0	99		
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Additional slash piles will be burned in the Fall of 1993.



Reply to: 2430
Date: October 10, 2002

MD
D2
10/15

Dear Prospective Bidder:

On November 7, 2002, at 3:00 PM (local time), Sealed bids will be opened in the Supervisors Office, Medicine Bow/Routt National Forests, 2468 Jackson Street, Laramie, WY 82070 for the Deadhorse Mountain Timber Sale. The Deadhorse Mountain Timber Sale is located on the Canyon Lakes Ranger District, Arapaho and Roosevelt National Forests. It may be legally described as all or portions of sections 28, 29, 31, 32, 33 and 34 T12N, R73W; and sections 3, 4 and 10, T11N, R73W, 6th P.M., State of Colorado, Larimer County. Timber Sale Contract form, FS-2400-6T will be used. The termination date for this sale is March 31, 2006. This is a small business set-aside sale.

There are 9.3 kilometers (5.8 miles) of specified road reconstruction, N/A kilometers of specified road construction, N/A specified road bridge(s), and N/A specified terminal facilities. A specified road construction cost of \$79,155 (\$75,298 specified road cost estimate plus \$3,857 Engineering deposits) has been allowed in the appraisal for this work.

The estimated quantities in this contract have been determined prior to felling. The total estimated quantity on this sale is 4905 CCF. Potential bidders should make their own inspection and estimate prior to bid submission. The Forest Service makes no representation, warranty, or guarantee of the accuracy of the following quantity estimates:

Estimated Quantities and Rates per Unit of Measure

Species	Product	Unit of Measure	Estimated Quantities	Average DBH	Advertised Rates	Base Rates	Required Deposits	
							Slash Disposal	Road Maintenance
Live Lodgepole Pine; TF & Other Conifers	Sawtimber	CCF	4108	9.6	\$39.72/CCF	\$11.25/CCF	\$0.26/CCF	None
Required Removal At Fixed Rates								
Live Lodgepole Pine	POL	CCF	797	6.0	\$4.00/CCF	\$4.00/CCF	\$0.26/CCF	None
TOTAL		CCF	4905				\$2,471.30	

The minimum acceptable total sale value bid for advertised timber is **\$163,169.76**.

There is a \$16,400 bid guarantee required on this sale.

If you wish further information on this sale, the prospectus and bid form, please write or call Dave Hattis, Sale Preparation Forester, (970) 498-1350, Canyon Lakes Ranger District, 1311 S. College Ave., Fort Collins CO 80524.

Sincerely,

Ellen L. Hodges

ELLEN L. HODGES
District Ranger

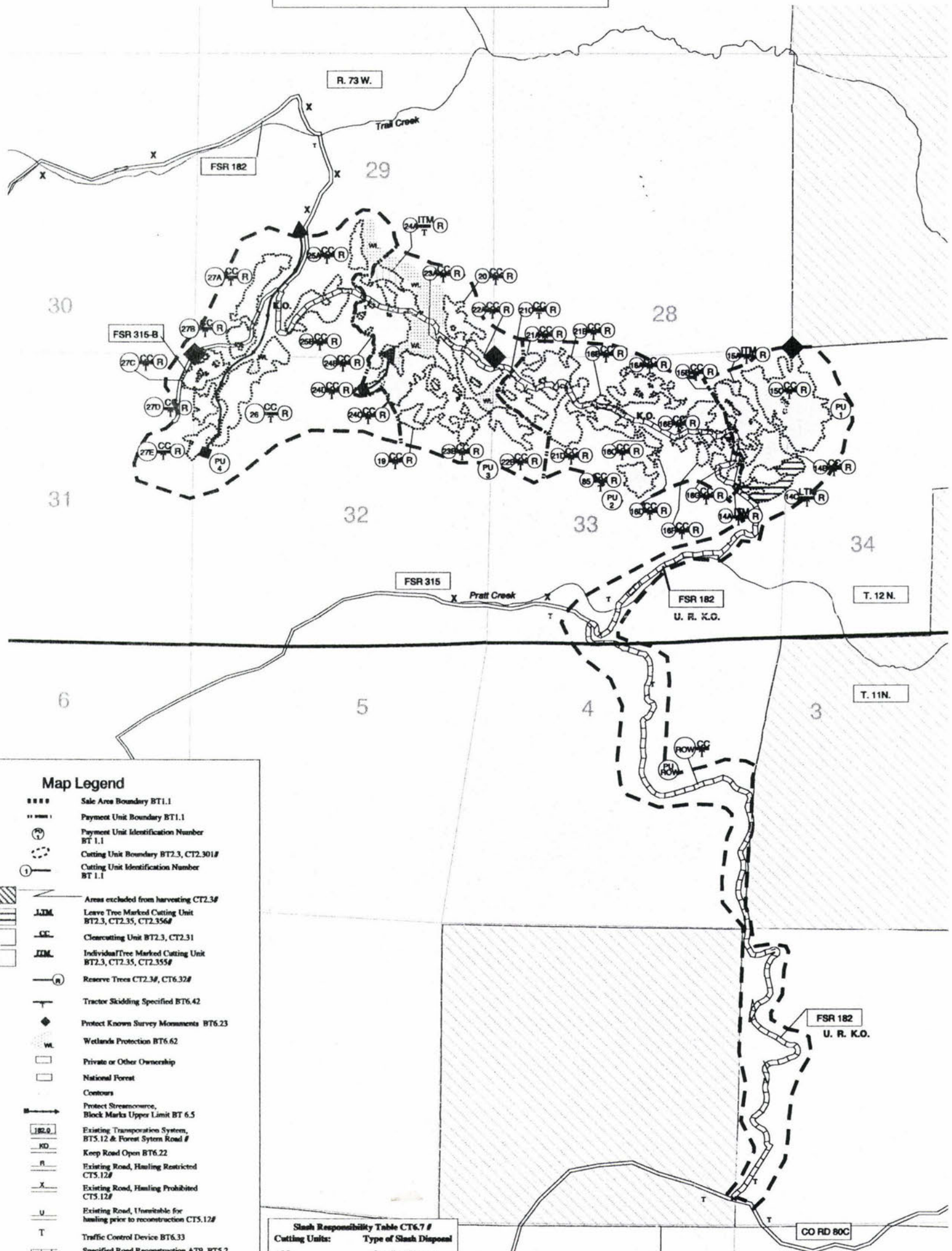
Enclosures (AD, Map)

NATIONAL FOREST TIMBER FOR SALE
ARAPAHO - ROOSEVELT NATIONAL FOREST

THE DEADHORSE MOUNTAIN TIMBER SALE is located within sections 28, 29, 31,32, 33, and 34 T12N, R73W; sections 3, 4 and 10, T11N, R73W; 6th P.M, State of Colorado, Larimer County. The Forest Service will receive sealed bids in public at the Forest Supervisor's Office, Medicine Bow-Routt National Forest, 2468 Jackson Street, Laramie, Wyoming 82070 at 3:00 PM local time on November 7, 2002, for an estimated 4108 CCF Live Lodgepole pine and other conifers sawlogs, marked or otherwise designated for cutting. In addition, there is within the sale area an estimated volume of 797 CCF Live Lodgepole pine products other than logs (POL) that the bidder agrees to remove at a fixed rate. This is a small business set aside sale. If no self-certifying small business concern makes a valid bid, the Forest Service will readvertise this sale without restrictions on bidder size. Sale contains specified roads with an estimated public works construction cost of \$81,845. Bidders qualifying as small business concerns under the Small Business Act may, when submitting a bid, elect for the Forest Service to build permanent roads. Additional information concerning this option is in the prospectus. The Forest Service reserves the right to reject any and all bids. Interested parties may obtain a prospectus from the office listed below. A prospectus, bid form, and complete information concerning the timber, the conditions of sale, and submission of bids is available to the public from the District Ranger, Canyon Lakes Ranger District, 1311 South College Ave., Ft. Collins, CO 80524. Phone No. (970) 498-1375. The USDA Forest Service is an Equal Opportunity Service Provider.

Deadhorse Mountain Timber Sale Information Map

Arapaho-Roosevelt National Forests (10)
Canyon Lakes Ranger District (05)
Larimer County (69), Colorado (8)



Map Legend

- Sale Area Boundary BT1.1
- Payment Unit Boundary BT1.1
- (1) Payment Unit Identification Number BT 1.1
- Cutting Unit Boundary BT2.3, CT2.301#
- (1) Cutting Unit Identification Number BT 1.1
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- CC Clearcutting Unit BT2.3, CT2.31
- IJM Individual Tree Marked Cutting Unit BT2.3, CT2.35, CT2.355#
- (R) Reserve Trees CT2.3#, CT6.32#
- Tractor Skidding Specified BT6.42
- ◆ Protect Known Survey Monuments BT6.23
- W Wetlands Protection BT6.62
- Private or Other Ownership
- National Forest
- Contours
- Protect Streamcourse, Block Marks Upper Limit BT 6.5
- Existing Transportation System, BT5.12 & Forest System Road #
- KD Keep Road Open BT6.22
- R Existing Road, Hauling Restricted CT5.12#
- X Existing Road, Hauling Prohibited CT5.12#
- U Existing Road, Unavailable for hauling prior to reconstruction CT5.12#
- T Traffic Control Device BT6.33
- Specified Road Reconstruction AT9, BT5.2

Landline are approximate



Map Scale:
1: 24,000
1 inch = 2000 feet



Disclaimer:
The Forest Service uses the most current and available data available. GIS data and product accuracy may vary. They may be developed from sources of differing accuracy, accuracy may vary at certain scales, based on resolution or interpretation, incomplete data being created or updated, etc. Using GIS products for purposes other than those for which they were created, may yield inaccurate or misleading results. The Forest Service reserves the right to correct, update, modify, or replace GIS products without notification. For more information, contact:
Arapaho and Roosevelt National Forest
Patricia Holman-Grosholz
200 West Prospect Road
Ft. Collins, CO 80526
(970) 496-1100

If this map contains cartouches, these cartouches were generated and stored using the Digital Elevation Model (DEM) files. Any cartouches generated from DEM's using a scale of less than 1:100,000 will tend to lose relative results and should be used for display purposes only.
(DTH Original Version 9/2002 File Location:
fsfiles/units/cld/gis_projects/timber/deadhorse/gis/practice.apr)

Slash Responsibility Table CT6.7

Cutting Units:	Type of Slash Disposal
ALL	Landing Cleanup
ALL	Lopping
ALL	Scattering

Payment Unit #	Cutting Unit #'s
1	14A, 14B, 14C, 15A, 15B, 15C
2	16A, 16B, 16C, 16D, 16E, 16F, 16G, 21A, 21B, 21C, 21D, 85
3	19, 20, 22A, 22B, 23A, 23B, 24A, 24B, 24C, 24D
4	25A, 25B, 26, 27A, 27B, 27C, 27D, 27E
ROW	ROW

Miscellaneous Information

- 1) Water Sources that could be used for road dust abatement purposes do not exist on the National Forest. WO-CT5.31# Road Maintenance Requirements (7/01)
- 2) A map and inventory of Noxious Weeds within the sale area is available at the Canyon Lakes Ranger District Office. Cleaning equipment prior to moving between cutting units may not be necessary. WO-CT6.35 Equipment Cleaning (7/01)
- 3) Whole Tree Logging per CT6.42# will not be permitted.



United States
Department of
Agriculture

Forest
Service

Canyon Lakes
Ranger District

1311 South College Avenue
Fort Collins, CO 80524
Voice: (970) 498-1375 TDD: (970) 498-2707
Web: www.fs.fed.us/r2/arnf
Fax: (970) 498-2727 or 498-2726

MR M
DF —
DW DW
NH NH
XP —
SF —
please file
under
Trail Creek
State
Land
Section
NA

File Code: 2430
Date: March 31, 2004

Dear Prospective Bidder:

On April 22, 2004 at 3:00 PM (local time), Sealed bids will be opened in the Supervisors Office, Medicine Bow/Routt National Forests, 2468 Jackson Street, Laramie, WY 82070 for the Deadhorse Mountain Timber Sale. The Deadhorse Mountain Timber Sale is located on the Canyon Lakes Ranger District, Arapaho and Roosevelt National Forests. It may be legally described as all or portions of sections 28, 29, 30, 31, 32, 33 and 34 T12N, R73W; and sections 3, 4 and 10, T11N, R73W, 6th P.M., State of Colorado, Larimer County. Timber Sale Contract form, FS-2400-6T will be used. The termination date for this sale is March 31, 2007.

There are 9.3 kilometers (5.8 miles) of specified road reconstruction, N/A kilometers of specified road construction, N/A specified road bridge(s), and N/A specified terminal facilities. A specified road construction cost of \$72,458 (\$68,601 specified road cost estimate plus \$3,857 Engineering deposits) has been allowed in the appraisal for this work.

The estimated quantities in this contract have been determined prior to felling. The total estimated quantity on this sale is 4649 CCF. Potential bidders should make their own inspection and estimate prior to bid submission. The Forest Service makes no representation, warranty, or guarantee of the accuracy of the following quantity estimates:

Estimated Quantities and Rates per Unit of Measure

Species	Product	Unit of Measure	Estimated Quantities	Average DBH	Advertised Rates	Base Rates	Required Deposits	
							Slash Disposal	Road Maintenance
Live Lodgepole Pine; TF & Other Conifers	Sawtimber	CCF	3852	9.6	\$14.12/CCF	\$6.00/CCF	\$2.15/CCF	None
Required Removal At Fixed Rates								
Live Lodgepole Pine	POL	CCF	797	6.1	\$1.00/CCF	\$1.00/CCF	\$2.15/CCF	None
	TOTAL	CCF	4649				\$9,995.35	

The minimum acceptable total sale value bid for advertised timber is \$54,390.24.

There is a \$5,500 bid guarantee required on this sale.

If you wish further information on this sale, the prospectus and bid form, please write or call Dave Hattis, Sale Preparation Forester, (970) 498-1350, Canyon Lakes Ranger District, 1311 S. College Ave., Fort Collins CO 80524.

Sincerely,

Ellen L. Hodges

ELLEN L. HODGES
District Ranger



NATIONAL FOREST TIMBER FOR SALE
ARAPAHO - ROOSEVELT NATIONAL FORESTS

THE DEADHORSE MOUNTAIN TIMBER SALE is located within sections 28, 29, 31, 32, 33, and 34 T12N, R73W; sections 3, 4 and 10, T11N, R73W; 6th P.M, State of Colorado, Larimer County. The Forest Service will receive sealed bids in public at the Forest Supervisor's Office, Medicine Bow-Routt National Forest, 2468 Jackson Street, Laramie, Wyoming 82070 at 3:00 PM local time on April 22, 2004, for an estimated 3852 CCF Live Lodgepole pine and other conifers sawlogs, marked or otherwise designated for cutting. In addition, there is within the sale area an estimated volume of 797 CCF Live Lodgepole pine products other than logs (POL) that the bidder agrees to remove at a fixed rate. Sale contains specified roads with an estimated public works construction cost of \$74,567. Bidders qualifying as small business concerns under the Small Business Act may, when submitting a bid, elect for the Forest Service to build permanent roads. Additional information concerning this option is in the prospectus. This sale includes a cooperative construction option in which the Forest Service will contribute \$11,341. Additional information concerning this option is in the prospectus. The Forest Service reserves the right to reject any and all bids. Interested parties may obtain a prospectus from the office listed below. A prospectus, bid form, and complete information concerning the timber, the conditions of sale, and submission of bids is available to the public from the District Ranger, Canyon Lakes Ranger District, 1311 South College Ave., Ft. Collins, CO 80524. Phone No.: (970) 498-1375. The USDA Forest Service is an Equal Opportunity Service Provider.

Important Notice:

When this Advertisement was published in the *Fort Collins Coloradoan* on March 23, 2004 it contained two errors. These errors are described below:

- A small portion of the Sale Area is also located in Section 30, T12N, R73W 6th P.M, State of Colorado, Larimer County
- An optional cooperative road package was described and is highlighted above. This option will not be included as part of the Deadhorse Mountain Timber Sale. The Forest Service desires to complete this work but will do so with a construction or service contract that will not be associated with the Deadhorse Mountain Timber Sale Contract. Additional information about this is included in the prospectus.

These errors were considered minor and would not affect the development of a bid for the timber sale. Consequently the bid date, time and location of bid submission remains as advertised.

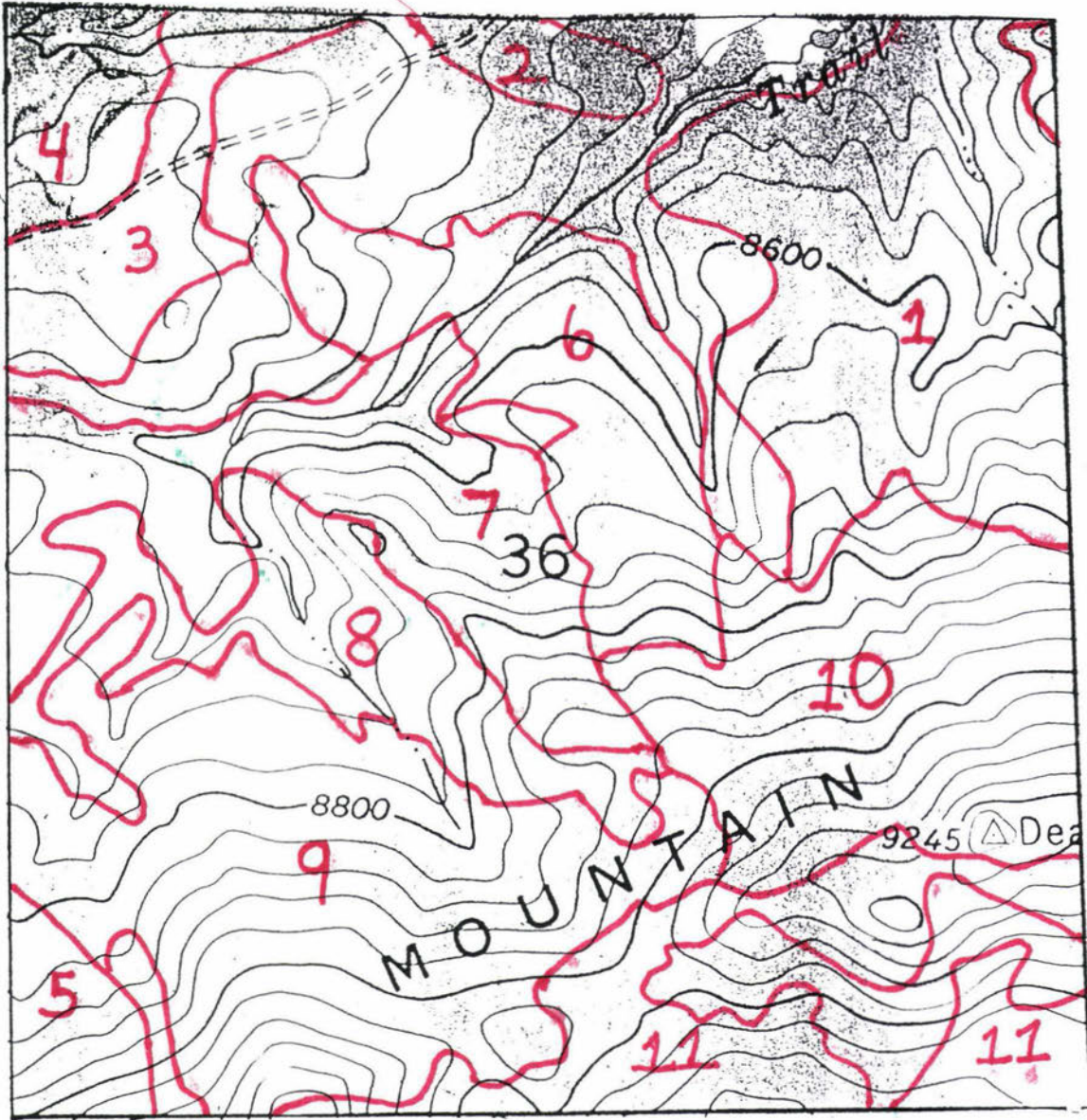
Trail creek state land
Regeneration survey
5/24/07

Boyd Lebeda + Gil Szeki

TSE in 7/07

TSE in 7/09

S 36 T 12N R 74W



1 = STAND 1

SCALE: 6" = 1 mile

10/31/07

Decent volume in stand 11
Decent slopes
Inlet area crossing
cross ~~ARE~~
Adj to Adj Sale
Boundary will marked
6-10 pockets of Adj re MFB
in stand 11

± 3200 trees per acre
± 4' tall average
→

± 6000 trees per acre
± 6 to 8' tall average
↖

± 1750 trees per acre
± 4 to 8' tall average
↓

± 2600 trees per acre
± 6' tall average
TSE in 7/07
→

± 2000 trees per acre
± 6 to 8' tall average
←

± 7500 trees per acre
± 6' tall average
↗

± 4300 trees per acre
± 2 to 6' tall average
TSE in 7/09
↖

± 4750 trees per acre
± 4-6' tall average
TSE in 7/09
→

Trail Creek

TIMBER SALE PROSPECTUS

Sale Name: Deadhorse Mountain Type of Sale: Premeasured

National Forest: Arapaho/Roosevelt Ranger District: Canyon Lakes

Bidding Method: Sealed Bid Guarantee: \$16,400.00

MA 11/7
TDW
DOB
DK DMK
MMA - please return
K 11/21

Location of Bid Opening:

Office:
Forest Supervisors Office
USDA-Forest Service
Medicine Bow-Routt National Forests

Address:
2468 Jackson
Laramie, Wyoming 82070

Date: November 20, 2002 **Time:** 3:00 PM (Local Time)

1. **INTRODUCTION.** This prospectus furnishes prospective bidders with information not contained in the published advertisement and is designed to enable bidders to decide whether or not to further investigate the sale. The prospectus is not a legally binding document, but is offered to provide general information about a sale. The contract does not include descriptions, estimates, and other data in this prospectus, unless otherwise stated. In the event that the prospectus contains an error or contradicts the sample contract, the contract governs. Bidders are urged to examine the timber sale and make their own estimates. Timber sale Contract 2400-6T, will be used. Inspect the sale area and the sample contract before submitting a bid. Obtain the appraisal, other information on the timber, and conditions of sale and bidding at Forest Service offices listed above and in the named attached advertisement.

2. **BIDDING.** This is a SEALED BID sale. Bidders must submit sealed bids on prepared forms they can obtain from Forest Service offices listed above and in the attached advertisement. The forms include instructions for bidding and submission of the required certifications. A bid guarantee must be included with the bid in the form of cash, a bid bond on Form FS-6500-13 (4/82) or later, certification of annual bid bond allocation on Form FS-6500-13a (4/82) or later, an irrevocable letter of credit, a certified check, bank draft, cashiers check, official bank check, or bank or postal money order payable to the Forest Service, USDA in the amount specified above and in the bid form. The bid guarantee shall be returned to each bidder whose bid is not accepted.

This is a small business set-aside sale. The Forest Service shall readvertise the sale without restriction on the size of bidders if no self-certifying, qualified small business concern makes a valid bid.

Deadhorse Mountain Timber Sale Prospectus Addendum

(November 4, 2002)

On November 4, 2002, the Canyon Lakes District Ranger elected to extend the advertisement period for the Deadhorse Mountain Timber Sale. The revised bid date and time when bids will be received is **3:00 PM local time, November 20, 2002**. The purpose for this extension was to provide accurate information to prospective bidders regarding the following:

Sample Contract AT5a: The index recorded was \$130.62. The accurate index is \$133.14.

2400-14tv Bid Form: Base indices (j) \$130.62 was changed to \$133.14.

NATIONAL FOREST TIMBER FOR SALE
ARAPAHO - ROOSEVELT NATIONAL FORESTS

THE DEADHORSE MOUNTAIN TIMBER SALE is located within sections 28, 29, 31, 32, 33, and 34 T12N, R73W; sections 3, 4 and 10, T11N, R73W; 6th P.M, State of Colorado, Larimer County. The Forest Service HAS EXTENDED THE ADVERTISEMENT PERIOD and will receive sealed bids in public at the Forest Supervisor's Office, Medicine Bow-Routt National Forest, 2468 Jackson Street, Laramie, Wyoming 82070 at 3:00 PM local time on November 20, 2002, for an estimated 4108 CCF Live Lodgepole pine and other conifers sawlogs, marked or otherwise designated for cutting. In addition, there is within the sale area an estimated volume of 797 CCF Live Lodgepole pine products other than logs (POL) that the bidder agrees to remove at a fixed rate. This is a small business set aside sale. If no self-certifying small business concern makes a valid bid, the Forest Service will readvertise this sale without restrictions on bidder size. Sale contains specified roads with an estimated public works construction cost of \$81,845. Bidders qualifying as small business concerns under the Small Business Act may, when submitting a bid, elect for the Forest Service to build permanent roads. Additional information concerning this option is in the prospectus. The Forest Service reserves the right to reject any and all bids. Interested parties may obtain a prospectus from the office listed below. A prospectus, bid form, and complete information concerning the timber, the conditions of sale, and submission of bids is available to the public from the District Ranger, Canyon Lakes Ranger District, 1311 South College Ave., Ft. Collins, CO 80524. Phone No. (970) 498-1375. The USDA Forest Service is an Equal Opportunity Service Provider.



Reply to: 2430
Date: November 4, 2002

Dear Prospective Bidder:

In October 2002, you were notified that bids would be accepted for the Deadhorse Mountain Timber Sale. The original bid date was schedule for November 7, 2002 however; the advertised period will be extended 13 days. The additional time is being provided because some contractual items need to be corrected and clarified. This additional time will provide all prospective bidders an opportunity to consider the changes that will be made to the sample contract. All changes will be described in an addendum to the prospectus.

On **November 20, 2002, at 3:00 PM (local time)**, Sealed bids will be opened in the Supervisors Office, Medicine Bow/Routt National Forests, 2468 Jackson Street, Laramie, WY 82070 for the Deadhorse Mountain Timber Sale. The Deadhorse Mountain Timber Sale is located on the Canyon Lakes Ranger District, Arapaho and Roosevelt National Forests. It may be legally described as all or portions of sections 28, 29, 31, 32, 33 and 34 T12N, R73W; and sections 3, 4 and 10, T11N, R73W, 6th P.M., State of Colorado, Larimer County. Timber Sale Contract form, FS-2400-6T will be used. The termination date for this sale is March 31, 2006. This is a small business set-aside sale.

There are 9.3 kilometers (5.8 miles) of specified road reconstruction, N/A kilometers of specified road construction, N/A specified road bridge(s), and N/A specified terminal facilities. A specified road construction cost of \$79,155 (\$75,298 specified road cost estimate plus \$3,857 Engineering deposits) has been allowed in the appraisal for this work.

The estimated quantities in this contract have been determined prior to felling. The total estimated quantity on this sale is 4905 CCF. Potential bidders should make their own inspection and estimate prior to bid submission. The Forest Service makes no representation, warranty, or guarantee of the accuracy of the following quantity estimates:

Estimated Quantities and Rates per Unit of Measure

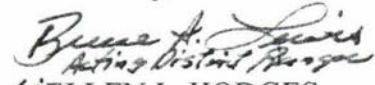
Species	Product	Unit of Measure	Estimated Quantities	Average DBH	Advertised Rates	Base Rates	Required Deposits	
							Slash Disposal	Road Maintenance
Live Lodgepole Pine; TF & Other Conifers	Sawtimber	CCF	4108	9.6	\$39.72/CCF	\$11.25/CCF	\$0.26/CCF	None
Required Removal At Fixed Rates								
Live Lodgepole Pine	POL	CCF	797	6.0	\$4.00/CCF	\$4.00/CCF	\$0.26/CCF	None
		TOTAL	4905				\$2,471.30	

The minimum acceptable total sale value bid for advertised timber is **\$163,169.76**.

There is a \$16,400 bid guarantee required on this sale.

If you wish further information on this sale, the prospectus and bid form, please write or call Dave Hattis, Sale Preparation Forester, (970) 498-1350, Canyon Lakes Ranger District, 1311 S. College Ave., Fort Collins CO 80524.

Sincerely,


ELLEN L. HODGES
District Ranger

Enclosures (AD, Prospectus Addendum)

STATISTICAL ANALYSIS - SMALL SAMPLE

TR CK Unit
Unit 10 Type

x = Board feet or basal area per sampling point. From R2-2400-60.
 n = Number of sample points taken. _____

x	x ²	x	x ²	x	x ²	x	x ²	x	x ²
200									
100									
200									
120									
160									
160									
40									
220									
Column Sub-Totals									

$$\sum x =$$

$$\sum x^2 =$$

(1) Mean = $\bar{x} = \frac{\sum x}{n} =$ 150 MBF(BA)

(2) Standard Deviation = S.D.

$$= \sqrt{\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}} = \pm$$
 60 MBF(BA)

(3) Coefficient of Variation = C.V.

$$= \frac{SD(100)}{\bar{x}} =$$
 40.3 %

(4) Number of sampling points needed = N.

$$= \frac{(C.V.)^2}{(\text{Maximum Sampling Error})^2} = \frac{(\quad)^2}{(5)^2} = \frac{25}{\quad} =$$
 4 Plots

(5) Standard Error of the Mean = S.E.

$$= \frac{S.D.}{\sqrt{n}} = \pm$$
 20 MBF(BA)

(6) Sampling Error = E.

$$= \frac{S.E.(100)}{\bar{x}} =$$
 13.3 %

Area TCStand 10Plot 1BAF 20BA 500

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LAP	6	30	No	
LAP	4	20	Mistletoe	No Record
LAP	8	30		
LAP	6	30		Many Aspen Being
LAP	10	40		Checked out
LAP	8	30		
LAP	10	40		
LAP	8	30		
LAP	8	30 (32)		Age 91
LAP	6	30		Slope 20
				plot 1/2
LAP	6	30		
LAP	6	30		10 LAP < 2"
LAP	4	20		
LAP	4	10		
LAP	4	20		Slope 35

Area _____

Stand _____

Plot 3

BAF _____

BA 200

Species	DBH	Ht.	DMR	Remarks
LPP	8	40 (38)		Age = 89
LPP	6	30	No	(3 regen
"	8	40	Mistletoe	→ ① SAF ② LLA
"	6	30		↑ has witch's broom
"	8	30		
"	6	30		
"	8	40		
"	6	30		
"	4	30		Slope 50%
"	4	30		

PLOT 4

LPA	4	20		5 LPA Regen
"	6	30		
"	6	30		
"	8	30		
"	16	30 (34)	age 86	
"	8	30		

Slope 35%

Area _____

Stand _____

Plot _____ 5

BAF _____

BA _____

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LLP	6	30		
"	6	30 (31)	No	
"	4	30	Mistle toe	4 LLP Regen
"	4	30		
"	6	30		25% Slope
"	6	30		
"	6	30		
"	4	30		

Plot 6

25% slope

LLP	6	30 (32)	No	
LLP	6	30		4 LLP Regen
"	4	30		
"	6	30		
"	4	30		
"	6	40		
"	6	30		
"	4	20		

Area _____

Stand 10Plot 7BAF 20

BA _____

Species	DBH	Ht.	DMR	Remarks
LLP	4	30	No	43 in 1/100 acre plot
LLP	4	20		
LLP	4			Slope = 25%
LLP	6	30	No	20% slope
"	6	30		
"	4	30		7 LLP Regen
"	4	30		
"	4	30		
"	4	30		
"	4	20		
"	6	30		
"	4	30		
"	4	20		
"	4	30		

Area RockStand 11Plot 1BAF 20BA 180

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>	
LP	4	20	0		
LP	10	40	↓		
LP	12	40			
LP	12	40			
LP	14	40			
LP	6	30			
LP	8	30			
LP	6	30			
LP	8	30			
					Fork tip
					Dead

Regen - 7 LP

slope - 8%

US - Gross, CJ Duff

Abt of suppressed aspen is area

Starting from SE corner of section
280 every 3.5 ch

Area TRCKStand 11Plot 2BAF 20BA 160

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	10	40	↓	
LP	10	40		
LP	8	30		
LP	8	40		
LP	8	30		
LP	10	40		
LP	8	40		
LP	8	40		
LP	8	40		

15 2" aspen 100 acre suppressed

slope - 12

Regen - 0

US - Duff

D+D

Area TRCKStand 11Plot 3BAF 20BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
----------------	------------	------------	------------	----------------

LP

12

40

9

LP

10

40

Age 80

LP

8

LP

8

LP

8

LP

8

LP

8

At 5 lbs due to unmeasurable Aspen
patches

Slope - 28

Regen

US - DUFF, Dc D

Knap track

Area TRCKStand 11Plot 4BAF 20BA 180

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	40	↓	
LP	4	30		
LP	8	40		
LP	6	40		
LP	10	40		
LP	6	40		
LP	10	40		
LP	10	40		
LP	6	30		
LP	6	40		

Slope - 26

Regen - 0

US - Dof

Area TRCKStand 11Plot 5BAF 20BA 180

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	8	40	0	Age 85
LP	8	↓	↓	
LP	8	↓	↓	
LP	8	↓	↓	
LP	8	↓	↓	
LP	6	30	↓	
LP	6	40	↓	
LP	8	↓	↓	
LP	10	↓	↓	
slope -		18		
Regen -		0		
US -		Duff		

Area TRCKStand 9Plot 7BAF 20BA 180

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	20	0	
LP	8	30	0	
LP	6	30	0	
LP	6	30	0	
LP	6	30	0	
LP	6	30	0	
LP	6	30	0	
LP	6	30	0	
LP	8	30	0	Age - 85
LP	4	20	0	Dead top

17 Ch. from corner

Slope - 30

Regen - 0

US - Puff forbs

			BA 220	<u>2</u>
LP	4	30	0	
LP	4			
LP	6			
LP	6			
LP	6			
LP	6			
LP	6			
LP	8			
LP	6			
LP	6			
LP	6			

4 ch

US - Puff forbs

Slope 25
Deer Rub

Regen = 0

Few AS
suppressed

Area _____

Stand _____

Plot 3

BAF _____

BA 120

Species	DBH	Ht.	DMR	Remarks
LP	6	20	↓	Dead top
LP	8	30		
LP	10	40		
LP	6	30		
LP	6	30		
LP	8	30		
LP	8	30		

slope - 25

Regen - 0

Buck Reb

US - Forbs Diff

4ch

BA 160 Plot 4

LP	10	40		
LP	8	40		
LP	10	30		
LP	8	30		
LP	6	30		
LP	4	20		Dead
LP	8	30		
LP	8	40		

Slope - 20

Regen - 0

US - Diff, Forbs

4ch

Area TRCKStand 8Plot 1BAF 20BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	8	30	0	
LP	12	40	0	Fork Top
LP	10	40	0	
LP	8	30	0	
LP	8	20	0	Dead top
LP	6	30	0	Dead Top

Regen - 0

Slope - 20

unstory Duff

Kink

CJ

Regen

Coyote Scat

Near meadow opening S side sand

Area TRCKStand PPlot 2BAF 20BA 200

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
----------------	------------	------------	------------	----------------

LP

6

30

0

4

20

4

20

6

30

6

30

6

30

4

20

6

30

8

30

10

30

Age = 90

Down hill a 310° 3 ch

Squirrel warden

Slope = 20%

Regen - 0

US - Puff Blower

Area TRCKStand 8Plot 3BAF 20BA 40

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	12	40	0	
AS	6	20	-	

open meadow

Regen 2 Aspen

slope - 25

US - Grass forb CJ

Area TRUKStand 8Plot 4BAF 20BA - 40

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
PP	12	20	+	Dead
PP	16	30	0	Bush top

US - Grass, current
 slope - 25
 Runge - 0

3 Ch at 310

Mix species in Area
 PP, AS, DF, PF, LP

Area TRCKStand 8Plot 5BAF 20BA 80

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
----------------	------------	------------	------------	----------------

PP

16

40

0

PP

10

30

PP

14

40

PP

14

20

↓

Age 190

US Fir, Grass Duff

Slope 25

Regen 0

X-mas trees below

Area TR CKStand 8Plot 6BAF 20BA 90

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
----------------	------------	------------	------------	----------------

SF

12

40

0

Dying

SF

12

40

0

Dead

LP

8

30

0

LP

12

30

0

Slope

Rogen 1

US - Duff Kind Grass

Area TRCKStand 8Plot 7BAF 20BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
----------------	------------	------------	------------	----------------

AS

60

20

—

AS

60

20

—

LP

10

40

LP

10

40

LP

8

30

LP

8

30

Slope - 35%

Regen - 3

US-CJ

Bare soil

2ch at 315°

Area TRCK Stand 8 Plot 8

BAF 20

BA 60

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
----------------	------------	------------	------------	----------------

LP

10

30

0

LP

14

40

Fork top

LP

14

40

↓

slope - 30

Regen - 9

un-story - B soil, Diff forbs

2ch

315

Area TRCKStand 7Plot 2BAF 20BA 140

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LLP	6	30	1	10% Slope Diff w/ moderate D+D Age = 85
"	6	40		
"	8	40	1	
"	10	40		
"	8	40'		
"	6	40	1	
"	8	40	1	
		46		

80% from where Rd crosses boundary

Area has been thinned

Area TRCKStand 7Plot 2BAF 20BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	30	3	Canker in area
"	4	20	2	10% slope
"	4	20	1	Grass, duff, holly
"	4	20	1	
"	6	30	2	
"	6	30	3	Age = 90

Regen \emptyset

80%

4 more chairs

Area TRCKStand 7Plot 3BAF 20BA 180

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
SF	6	30	—	
DF	8	30	0	Dead top
LP	6	30	0	
DF	14	40	↓	
SF	12	50		
SF	10	50		
SF	10	40		
DF	12	30		

Regen - 20-25
 slope - 45%

Just above Riparian area

US - forbs, moss, Grasses

From A₅ stand N side in 4 Ch
 at 140°

Area TRCKStand 7Plot 4BAF 20BA 180

Species	DBH	Ht.	DMR	Remarks
DF	12	20	0	Dead top wind slope
DF	4	20		
DF	16	40		
LP	6	20		
DF	6	20		
LP	8	30		
LP	4	20		
DF	8	30		
DF	8	20		

US - Rocks Duff DHD

Regen: 6 Aspen 1 DF

Slope 33%

140° at 4 ch

Area TRCKStand 7Plot 5BAF 20BA 140

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	8	30	0	Age 85
LP	6	30	0	
LP	4	30	0	
DF	18	40	1	Dead
LP	6	20	0	
DF	16	40	1	Dead
LP	6	30	0	

US - Rock Duff D+D

slope 45

110° for 4ch

Rages - 4

Area TRStand 6Plot 2BAF CKBA 240

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	10	40	0	
LP	8	40		
LP	10	40		Age 90
LP	6	30		
LP	6	40		
LP	10	40		
LP	6	30		
LP	4	30		
DF	6	30		
LP	8	40		
DF	8	40		
LP	8	40	✓	

4 Ch ~~E~~ of Meadow on W Side of Stand.

Slope - 25
 Regen - 0

US - Duff, Grass, CJ

Area TRCKStand 6Plot 7BAF 20BA 180

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>	
LP	6	40	9 ↓ ↓ ↓		
LP	10	40			
LP	4	20			
LP	10	40			
LP	8	40			
LP	6	40			
LP	4	20			Dead top
LP	8	40			
LP	8	40			

Slope = 25
Regen = 2 Fir

In Ravine bottom

Excell - young trees

Area TRCKStand 6Plot 3BAF 20BA 180

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	4	20	—	Dead
LP	4	30	↓	
LP	10	40	↓	
LP	8	40	↓	
LP	6	40	↓	
LP	8	40	↓	
LP	8	40	↓	
LP	10	40	↓	
LP	6	40	↓	Dead

US - Vaccinium

Doff

Spce 20

Regen 3

Area TR CKStand 2Plot 1BAF 20BA 80

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	8	30	0	
LP	8	30	0	
LP	8	30	0	
LP	8	30	0	

under story - grass, holly + CT
 slope 13%
 Regen 1
 Needle Die back

Started from where boundary line
 cross Rd with stand 130°, 3 pts
 every 2 ch then turn 220 for 4th
 plot

Area TRCKStand 2Plot 2BAF 20BA 160

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	30	1	↑ Age 68
LP	4	30	0	
LP	6	30	0	
LP	6	30	0	
LP	6	30	0	
LP	6	30	0	
LP	6	30	0	
LP	6	30	0	

Understory - Duff grass

Regen - 0

Slope 8

Needle Die Back

swollen canker at base of tree

Area TRCKStand 2Plot 3BAF 20BA 100

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	30	0	
LP	6	30	0	
LP	4	30	0	Dead Top
LP	6	30	0	
LP	4	30	0	

Needle Die Back

Regen = 0 but 9 to 10 Trees in 1-2 inch class

Slope 12%

Understory Drift grass

Area TR CKStand ZPlot 4BAF 20BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	30	0	
LP	4	30	0	
LP	6	30	0	
LP	6	30	0	
LP	6	30	0	Age 86
LP	4	30	0	

slope 8%

Regen = 0 several small suppressed trees

Understory Duff Grass

Deer & elk sign

Area TRCKStand 3Plot 1BAF 20BA 40

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	12	40	0	Age 92
LP	12	40	0	

Reyes 1
 slope 5%
 Needle die back

Starting from where Morgan side Rd meets
 New Road 340° 3 ch 2 pts turning
 West 2 ch and back 180° for
 2 pts

Area TRCKStand 3Plot 3BAF 20BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	30	1	
LP	4	30	0	
LP	6	30	1	
LP	4	30	0	
LP	6	30	1	
LP	6	30	1	

Slope 40%
 Understory Dufe
 Regen 1
 Needle lie back

Area TRCKStand 3Plot 4BAF 20BA 160

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
PF	6	20	0	poor form
PF	6	20	0	
PF	8	20	0	
LP	8	20	1	
DF	6	20	0	
DF	6	20	0	
DF	12	30	0	
LP	8	20	—	Dead

Elk Sign
 understory - grass Puff
 slope - 20
 Reges - 0

Area TRCKStand 3Plot 5BAF 20BA 170

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	10	40	1	Fork top
LP	6	30	1	
LP	8	40	1	
LP	8	40	0	
LP	8	40	0	
LP	8	30	0	Fork top

Regen - 2 aspen
 Needle die back
 slope - 7%

start back at pick up 5 ch at
 210°

Elk sign

Area TRCKStand 3Plot 6BAF 20BA 80

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	10	40	0	
LP	10	40	0	Age - 96
LP	8	40	0	
LP	6	30	0	

Understorey - grass Duff
slope 8%

2 more chains at 210°

Squirrel middles

Area has been thinned resulting in
Release good eye for small cut

Slight needle die back

Regen - 0

Area TRCK Stand 4 Plot 1

BAF 10

BA 70

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	7.7	31	0	Age 94
DF	6.1	26	0	
LP	6.8	30	1	
LP	5.9	28	1	
LP	5	22	0	
DF	8.1	32	0	
LP	8	32	0	

Slope 6%

Regen 0 $\frac{1}{100}$ of acre

Area TRCKStand 4Plot 2BAF 10BA 100

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	11.3	43	0	
LP	9	40	1	
LP	9	45	2	
LP	6.5	35	0	
LP	9.8	40	0	
LP	11.4	41	1	
① LP	8 8	36	0	Forked top
LP	10.6	45	1	Age 96 to 98
LP	11.1	43	0	
LP	11	41	1	

Regen 21
Slope 15

Area TRCK Stand 4 Plot 3

BAF 10

BA 90

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	11.5	40		
LP	12.4	42		
LP	5.8	33		
LP	6.2	37		
LP	6	35		Dead
LP	8	39		
LP	7	35		
LP	7.1	36		
LP	6.2	34		

Age Approx 90 yrs
 Slope 87°
 Regen 1 aspen

Area TRCK Stand 4 Plot 4

BAF 10

BA 150

Species	DBH	Ht.	DMR	Remarks
LP	9.3	45	0	Canker
LP	7.4	45	1	
LP	8.1	46	0	
LP	9.9	46	0	
LP	8.4 (3)	45	0	
LP	6.4	45	0	
LP	4.5	37	1	
LP	5.9	40	1	
LP	7.2	44	1	
LP	5.8 (10)	45	0	
LP	10.5	46	0	
LP	8.2	44	0	
LP	6.8	41	0	
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>Slope 47 Approx Age 90 Regen 10 Aspen 1 DF</p> </div>				
LP	8.6		1	
LP	5.6		1	

Area TRCK Stand 4 Plot 15

BAF 10

BA 100

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	8.9	39	1	
LP	6.1	35	0	
LP	6.6	35	1	
LP	7.4	37	1	Forked top
LP	8	38	0	
LP	7.1	37	1	
LP	8.5	39	1	
LP	7.2	36	1	
LP	6	35	2	
LP	7.6	34	1	

Regen 0
slope 14%
App Age 90

Area TRCK Stand 5 Plot 1

BAF 20 BA 40

Species	DBH	Ht.	DMR	Remarks
LP	4	10	4	Age - 80
LP	4	20	4	

Trees < 4" ($\frac{1}{100} A$) = 36 10 are AS

Slope - 40
 Regen - 2 Aspen
 US - Rock, Duff, CJ

Severely infected Mistletoe

4 ch at 160°

	DBH	Ht.	DMR	Remarks
LP	4	20	1	BA <u>80</u> <u>2</u>
LP	4	20	0	
LP	4	20	1	
LP	4	20	0	

Trees < 4" ($\frac{1}{100} A$) = 59

Regen - 0
 US - Rock Duff
 Slope 45

8 ch at 160

Area TRCK

Stand 5

Plot 3

BAF 20

BA 80

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	20	2	
LP	4	10	2	Forked top
LP	4	10	3	
LP	6	20	3	

Regen 1

100 acre Trees 2" = 32, 8 are Aspen

Slope

US Rock, Diff Vaccinium

STATISTICAL ANALYSIS - SMALL SAMPLE

Unit
Type

x = Board feet or basal area per sampling point. From R2-2400-60.
n = Number of sample points taken. _____

x	x ²	x	x ²	x	x ²	x	x ²	x	x ²
Column Sub-Totals									

$$\sum x =$$

$$\sum x^2 =$$

(1) Mean = $\bar{x} = \frac{\sum x}{n} =$ _____ MBF(BA)

(2) Standard Deviation = S.D.

$$= \sqrt{\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}} = \pm$$
 _____ MBF(BA)

(3) Coefficient of Variation = C.V.

$$= \frac{SD(100)}{\bar{x}} =$$
 _____ %

(4) Number of sampling points needed = N.

$$= \frac{(C.V.)^2}{(\text{Maximum Sampling Error})^2} = \frac{(\quad)^2}{(5)^2} = \frac{25}{\quad} =$$
 _____ Plots

(5) Standard Error of the Mean = S.E.

$$= \frac{S.D.}{\sqrt{n}} = \pm$$
 _____ MBF(BA)

(6) Sampling Error = E.

$$= \frac{S.E.(100)}{\bar{x}} =$$
 _____ %

Area TR CKStand 1Plot 1BAF 20BA 100

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	30	0	scar on trunk
LP	6	30	0	↓
LP	4	30	0	
LP	6	30	0	
LP	6	30	0	Fork top

Buck Rubs

Regen below along riparian area

X-mas trees

Slope 25%

 $\frac{1}{100}$ acre = 2Started from small finger timber on NE boundary
in 5 chains at 140° for 3 plots.

Turn to 200° 5 chains for 3 more plots

needle die back - Rust?

Understory - Common Juniper & Kinack

Area TR CRStand 1Plot 2BAF 20BA 160

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	30	2	
LP	4	30	1	
LP	6	30	1	
LP	4	30	1	
LP	8	30	1	
DF	8	30	0	Pitch flows
SA	10	20	0	Nearly Dead
PF	6	20	0	

Need die back

Spind

Good Regen $\frac{1}{100}$ 6

Slope = 17%

PF = Pinus Flexilis (Limber)

Understory - Common Jun. Kinnik

Area TRCKStand 1Plot 3BAF 30BA 100

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
AS	6	40	-	Dead
AS	4	30	-	Dead
LP	14	40	1	Dead top
LP	16	40	1	
LP	16	50	0	

Excellent site Small patch

Under story Grasses, forbs, CT

Deer & elk sign squirrel midden

Peggs @ aspen

Age = 2 Tree 1-70 yrs Don 16" Tree 100+
bore to. Small

slight needle die back

 $\frac{1}{2}$ of aspens in the area dead.

Area TRCKStand 1Plot 4BAF 20BA 140

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	30	1	
LP	6	30	1	
LP	8	30	1	
LP	6	30	1	
DF	22	50	0	Dead Top Poor form
LP	6	30	1	
LP	6	30	1	

Regen 7

Slope 27%

witches broom

Needle die back

under story

Carron juniper

Area TR CKStand 1Plot 5BAF 20BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
LP	6	40	1	
LP	8	40	3	
LP	8	40	2	
LP	8	40	2	
LP	8	40	1	
LP	8	40	1	

Needle fire back

slope 12%
Regen - 1

understory CJ - litter

Porcupine Damage

Age 85

Area TR CKStand 7Plot 6BAF 20BA 120

<u>Species</u>	<u>DBH</u>	<u>Ht.</u>	<u>DMR</u>	<u>Remarks</u>
DF	14	40	0	
LP	12	40	1	
LP	10	40	1	
DF	10	40	0	
DF	8	40	0	Age 10
DF	10	40	0	

Needle lie back on LP
 under steep CT - Diff
 slope 7%