



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Stulls Ridge Steer
Sale 341-11-45

District: Coos

Date: May 04, 2011

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$645,132.21	\$7,985.60	\$653,117.81
		Project Work:	\$(77,508.00)
		Advertised Value:	\$575,609.81



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timber description

Location: Portions of Sections 33 and 34, T23S, R11W, and portions of Section 3, T24S, R11W, W.M., Coos County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	31	0	95
Western Hemlock / Fir	29	0	95
Alder (Red)	17	0	90

Volume by Grade	(12"+) 2S	10" - 11"	2S	3P	3S 10" -	3S 12"+	4S	6" - 7"	8" - 9"	SM	Total
Douglas - Fir	0	0	1,055	70	83	28	14	0	0	139	1,389
Western Hemlock / Fir	0	0	0	0	38	0	1	0	0	0	39
Alder (Red)	10	4	0	0	0	0	0	3	6	0	23
Total	10	4	1,055	70	121	28	15	3	6	139	1,451



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comments: Pond Values Used: 1st Quarter Calendar Year 2011.

Regeneration harvest of one unit containing 27 acres of predominantly 110 to 131 year old mature second growth Douglas-fir sawtimber with a small component of red alder and western hemlock.

Western Redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost.
\$793.98/MBF = \$925/MBF - \$131.02/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to \$700 daily truck cost.

Other Costs (with Profit & Risk to be added):

FELLING:

Felling of Unmerch Material: 45 MBF @ \$1 per MBF = \$45

Directional Felling: 250 MBF @ \$2 per MBF = \$500

YARDING & LOADING

Locate Corridors and Skid Roads: 7 MBF @ \$5 per MBF = \$35

Brand and Paint Logs: 1,451 MBF @ \$1 per MBF = \$1,451

Loader Time for Firewood Stacking: 8 hours @ \$75/hour = \$600

Cover landing slash pile with sheeting: 1 pile @ \$50 per pile = \$50

SNAG CREATION

Tree Topping: 7 trees @ \$100/each = \$700

Tree Girdling at topping Ht.: 7 trees @ \$100/each = \$700

TOTAL Other Costs (with Profit & Risk to be added) = \$4,081



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logging conditions

combination#: 1 Douglas - Fir 100.00%
 Western Hemlock / Fir 100.00%
 Alder (Red) 100.00%

yarding distance: Long (1,500 ft) **downhill yarding:** No

logging system: Cable: Medium Tower >40 - <70 **Process:** Manual Delimiting

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 12.0 **bd. ft / load:** 4,800

cost / mbf: \$60.07

machines: Log Loader (A)
 Tower Yarder (Medium)



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logging costs

Operating Seasons:	1.00	Profit Risk:	15.00%
Project Costs:	\$77,508.00	Other Costs (P/R):	\$4,081.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	1.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	5.0
Western Hemlock / Fir	\$0.00	3.0	5.0
Alder (Red)	\$0.00	3.0	3.5



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Local Pond Values

Date	Specie	Grade	Value
5/4/11	Douglas - Fir	3P	\$620.00
5/4/11	Douglas - Fir	SM	\$615.00
5/4/11	Douglas - Fir	2S	\$590.00
5/4/11	Douglas - Fir	3S	\$555.00
5/4/11	Douglas - Fir	3S 12"+	\$260.00
5/4/11	Douglas - Fir	4S	\$520.00
5/4/11	Western Hemlock / Fir	3S	\$520.00
5/4/11	Western Hemlock / Fir	4S	\$515.00
5/4/11	Alder (Red)	8" - 9"	\$460.00
5/4/11	Alder (Red)	10" - 11"	\$520.00
5/4/11	Alder (Red)	(12"+) 2S	\$570.00
5/4/11	Alder (Red)	6" - 7"	\$340.00



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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$60.07	\$1.07	\$3.02	\$42.61	\$2.81	\$16.44	\$0.00	\$5.00	\$0.00	\$131.02
Western Hemlock / Fir									
\$60.07	\$1.07	\$3.02	\$42.61	\$2.81	\$16.44	\$0.00	\$5.00	\$0.00	\$131.02
Alder (Red)									
\$60.07	\$1.12	\$3.02	\$63.77	\$2.81	\$19.62	\$0.00	\$5.00	\$0.00	\$155.41

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$584.56	\$453.54	\$0.00
Western Hemlock / Fir	\$0.00	\$519.87	\$388.85	\$0.00
Alder (Red)	\$0.00	\$502.61	\$347.20	\$0.00



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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,389	\$453.54	\$629,967.06
Western Hemlock / Fir	39	\$388.85	\$15,165.15
Alder (Red)	23	\$347.20	\$7,985.60

Gross Timber Sale Value

Recovery: \$653,117.81

Prepared by: Gloria Clary

Phone: 541-267-1757

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Stulls Ridge Steer

Additional "Other Cost" with additional profit and risk to be added:

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Felling				
Felling of unmerch material	MBF	45	\$ 1.00	\$ 45.00 ✓
Directional Felling	MBF	250	\$ 2.00	\$ 500.00 ✓
Yarding and Loading				
Ground Based Equipment Wash	Hours	0	\$ 65.00	\$ -
Locate Corridors and Skid Roads	MBF	7	\$ 5.00	\$ 35.00 ✓
Artificial guyline support	anchor	0	\$ 500.00	\$ -
Brand and paint logs	MBF	1451	\$ 1.00	\$ 1,451.00 ✓
Loader time for firewood stacking	Hours	8	\$ 75.00	\$ 600.00 ✓
Cover landing slash pile w/ sheeting	Pile	1	\$ 50.00	\$ 50.00 ✓
Snag Creation				
Tree Topping	Trees	7	\$ 100.00	\$ 700.00 ✓
Tree Girdling (DBH)	Trees		\$ 50.00	\$ -
Tree Girdling (Topping Height)	Trees	7	\$ 100.00	\$ 700.00 ✓
Miscellaneous Costs				
Log Placement in Stream	Crossings	0	\$ -	\$ -
Additional Fire Equipment	Seasons	0	\$ 1,000.00	\$ -
Maintenance rock per section 5	Cubic Yards	0	\$ 18.00	\$ -
Safety Flagging and/or signing	per day	0	\$ 110.00	\$ -

Total additional "Other Cost" with additional profit and risk to be added

\$ 4,081.00

NET VOLUMES AND ACREAGE

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							Vol. per Acre
			By County and Fund						Total Vois.	
			Coos			Douglas				
Area	Spec	CSL	BOF	Total	CSL	BOF	Total			
I	D-fir	1389		1389			0	1389	51.44	
	Hdwd	23		23			0	23	0.85	
	Cedar	0		0			0	0	0.00	
	Spruce	0		0			0	0	0.00	
	Hemlock	39		39			0	39	1.44	
TOTALS		1451	0	1451	0	0	0	1451		

TOTAL SALE VOLUME BY SPECIES

Douglas-fir	<u>1389</u>	MBF
Hemlock	<u>39</u>	MBF
Cedar	<u>0</u>	MBF
Spruce	<u>0</u>	
Hardwoods	<u>23</u>	MBF
Total	<u>1451</u>	MBF

Report by: Stulls Ridge Steer

Date: 05/06/2011

Unit For: Jon W. Hayes 5/6/2011
Date

Asst. Dist. For: [Signature] 5/6/11
Date

UTILITY VOLUME NOT SHOWN TO PROVIDE FOR RETENTION OF DOWN LOGS
NO INGROWTH INCLUDED

ACREAGE BY COUNTY (to nearest acre)

Sale Area	Coos County						Douglas County						TOTAL ACRES
	CSL		Hard wood	BOF		Hard woods	CSL		Hard woods	BOF			
	cc	pc		cc	pc		cc	pc		cc	pc		
I	27												27
SUM	27	0	0	0	0	0	0	0	0	0	0	0	27

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land

TIMBER SALE SUMMARY

Stulls Ridge Steer

1. **Type of sale:** Final harvest; Recovery, Sealed Bid.
2. **Boundary Lines:** Sale boundaries are marked on the ground with "Timber Sale Boundary" posters, red paint, and red flagging at locations shown on the Exhibit A.
3. **Revenue Distribution:** 100% CSL and 0% BOF; 100% Coos County.
4. **Sale Acreage:** The total sale area is 27 net acres. Buffer areas are posted outside the sale area and are not included in the net acreage calculation. Existing roads and unstocked areas in the timber sale area are not included in the net volume calculation. The acreage was determined using orthophoto imagery on the ARCVIEW Geographic Information System program.
5. **Volume by Species, Fund, and County:** See attached table.
6. **Grade by Percent:**

Species	3 Peeler	SM	2 Saw (12"+)	3 Saw (12"+)	3 Saw (10-11")	4 Saw (8-9")	(6-7")
Douglas-fir	5 %	10 %	76 %	2 %	6 %	1 %	----
Red Alder	----	----	47 %	----	17 %	24 %	12 %
Western Red Cedar	----	----	----	----	----	----	----
Western Hemlock	----	----	----	----	99 %	1 %	----
Sitka Spruce	----	----	----	----	----	----	----

7. **Cruise:** The unit was variable plot cruised using the Big BAF cruise design, which consisted of 60 nested plots. For the mature stand each plot consists of both a full 40 BAF count plot and a full 360 BAF measure plot. The 40 BAF plot was used to tally the number of trees by species to determine the stand basal area. The 40 BAF plot was then used to select hardwoods and minor species to cruise and the 360 BAF plot to select Douglas-fir trees to cruise. Selected trees were cruised for diameter at breast height, height, grade and defect. Thirty-nine Douglas-fir Big BAF trees were cruised for diameter, height, grade and defect. The cruise was analyzed using the SuperACE cruising program.

A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	CV %	SE %
D4H	Total Height	Conifer: 16' Hardwood: 16'	Estimated or measured on all trees	44.9	7.49

B. Stand Summary:

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	BF per acre
Douglas-fir	31	34	184	51,440
Red Alder	17	6	10	850
Western Red Cedar	----	----	----	----
Western Hemlock	29	2	10	1,440

C. Green Tree Retention Summary: Most green trees were posted outside of the timber sale, except scattered trees which will be removed from the cruise. These scattered trees are marked with a "W" in red paint.

8. **Timber Description:** The timber sale has three stands that are moderately stocked of approximately 110 to 131 year old second growth of good to average quality, with red alder and western hemlock in the understory. Conifers range from 77 to 209 feet tall while hardwoods average 40 feet.

9. **Topography:** The unit ranges from 45% to 75% slope with typical steeper stream drainages.

10. **Logging Method:** The sale will be cable logged uphill with single-end suspension over the unit; full suspension will be required over designated streams and RMAs. A motorized carriage will be required to obtain the necessary suspension. Some portions of Area 1 may be ground yarded. Tail trees may need to be placed for yarding the sale area as approved in the operations plan.

11. **Access:** From Coos Bay, proceed east on Coos River Highway for 13 miles to Allegany, then turn on to the West Fork Millicoma Road for 5 miles to the 2000 road, then proceed 5 miles on the 2000 road to project point A at the junction of the 2175 road.

12. **Projects:**

Project No. 1: Road and Landing Construction

Project No. 2: Road Improvement

Project No. 3: Maintenance Road Surfacing

CRUISE VOLUME COMPUTATION REPORT

SALE NAME: Stulls Ridge Steer
 LEGAL LOCATION: T24S, R11W, Sec. 3 and T23S, R11W, Sec. 33 and 34

DATE: 05/11/2011
 BY: Gloria Clary

GROSS VOLUME MBF

SPECIES>>	Doug-fir	Hemlock	Red Cedar	Sitka Spruce	Hardwds	TOTAL
AREA	BY AREA					
Sale Area	1481	43	0	0	27	1,551
Less GTR Vol.	0	0	0	0	0	0
Less DWD Vol.	3	1	0	0	2	6
TOTAL	1478	42	0	0	25	1545

DEFECT AND BREAKAGE

Species	Doug-fir	Hemlock	Red Cedar	Sitka Spruce	Hardwds
Hidden cull	0.04	0.04	0.04	0	0.04
Breakage	0.02	0.02	0.03	0	0.03
Total	0.06	0.06	0.07	0.00	0.07

NET VOLUME BY MBF BY AREA

SPECIES	Doug-fir	Hemlock	Red Cedar	Sitka Spruce	Hardwds	TOTALS
	BY AREA					
Sale Area	1389	39	0	0	23	1451
TOTALS	1389	39	0	0	23	1451

NET VOLUME BY GRADE AND MBF

Grade >>>>>>>>>>>>	2 PEE	3 PEE	SM	2SAW(12"+)	3SAW(12"+)	3SAW(10-11")	4SAW(8-9") (RA)	(6-7") (RA)	
Sale Area	Species								
Doug-Fir	0	70	139	1055	28	83	14	0	
Hdwds	0	0	0	10	0	4	6	3	
Red Cedar	0	0	0	0	0	0	0	0	
Hemlock	0	0	0	0	0	38	1	0	
Sitka Spruce	0	0	0	0	0	0	0	0	

GRADE DISTRIBUTION BY PERCENT

Grade >>>>>>>>>>>>	2 PEE	3 PEE	SM	2SAW(12"+)	3SAW(12"+)	3SAW(10-11")	4SAW(8-9") (6-7")
Doug-fir	0%	5%	10%	76%	2%	6%	1%
Hardwood	0%	0%	0%	47%	0%	17%	24%
Red Cedar	0%	0%	0%	0%	0%	100%	0%
Hemlock	0%	0%	0%	0%	0%	99%	1%
Sitka Spruce	0%	0%	0%	0%	0%	0%	0%

SUMMARY OF CONSTRUCTION COST
Stulls Ridge Steer

Project 1: Road and Landing Construction

Points: C to D Length: 365' Type: 14' no ditch

Excavator	150	hrs at	\$125.00	per hour	\$18,750.00
Cat time - construction w/ripper	20	hrs at	\$135.00	per hour	\$2,700.00
Cat time - waste area	50	hrs at	\$125.00	per hour	\$6,250.00
Drill & Shoot	25	hrs at	\$300.00	per hour	\$7,500.00
Dump Truck (haul to Pt E, 2.6 mi RT)	150	hrs at	\$100.00	per hour	\$15,000.00
Dump Truck (haul to Pt E, 2.6 mi RT) (Haul approx. 10,000 cu yds total)	150	hrs at	\$100.00	per hour	\$15,000.00
Dump Truck (haul stumps to Pt F)	4	hrs at	\$100.00	per hour	\$400.00
Laborer	150	hrs at	\$38.00	per hour	\$5,700.00

Move-in

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Total
Excavator	40	5	\$100.00	\$500.00
Cat w/ripper	40	5	\$100.00	\$500.00
Cat	40	5	\$100.00	\$500.00
Drill & Comp	40	5	\$100.00	\$500.00
Grader	40	4	\$100.00	\$400.00
Dump Truck	40	4	\$100.00	\$400.00
Dump Truck	40	4	\$100.00	\$400.00

Total Move-in: \$3,200.00

Project 1 Total \$74,500.00

Project 2: Road Improvement

Points: A to B Length: 3950' Type: 14' w/ditch

Grader time	3	hrs at	\$85.00	per hour	\$255.00
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Project 2 Total \$255.00

Project 3: Maintenance Road Surfacing

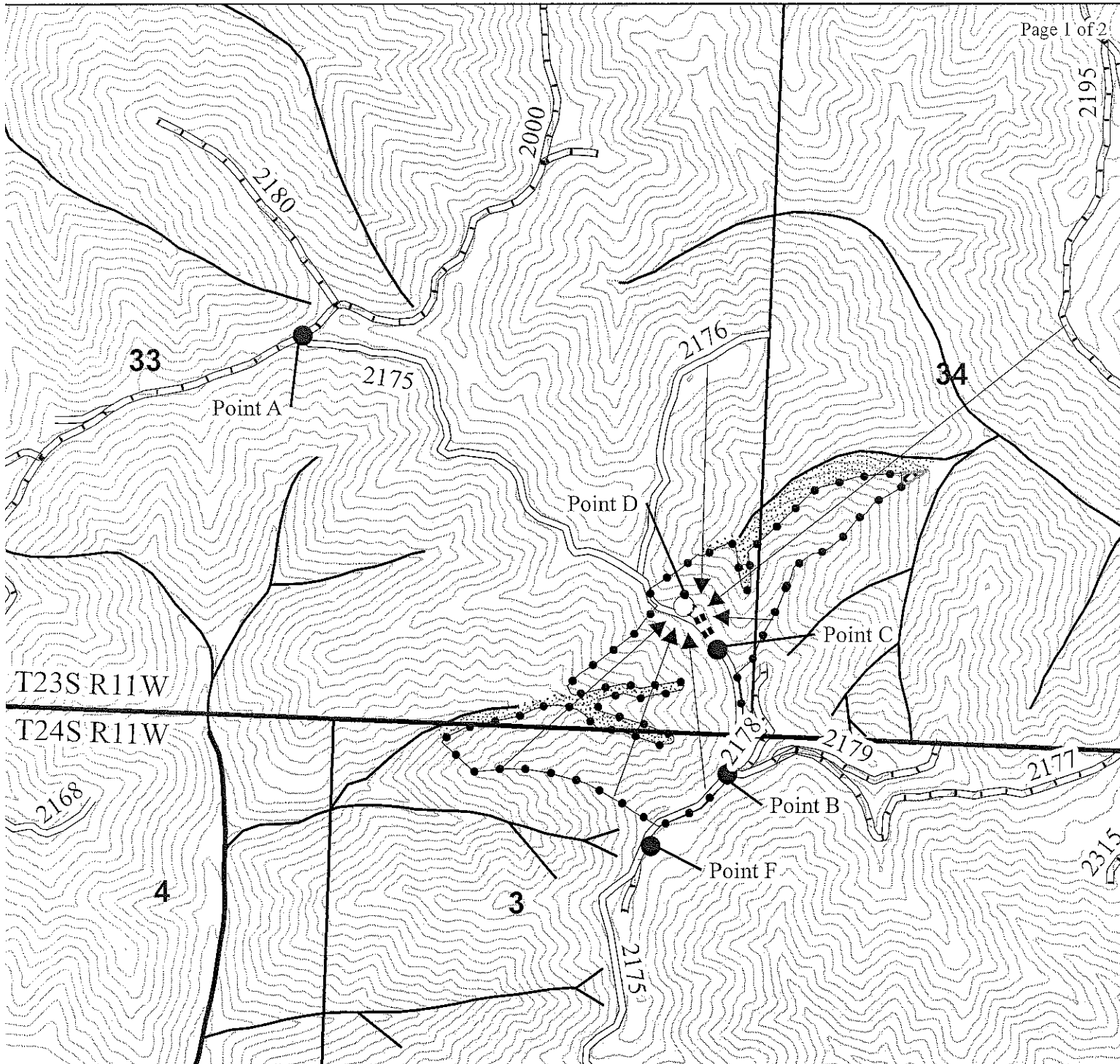
Points: 2175 rd (near spur C to D)

2 1/2" rock for maintenance on Haul Route for after road construction and log haul	126	yards at	\$21.17	per yd	\$2,667.42
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Grader	1	hr at	\$85.00	per hr	\$85.00
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Project 3 Total \$2,753.00

Total Project Costs \$77,508.00



Legend

- Landing
- ▭ Posted Sale Boundary
- Project Point
- Roads**
- Purchaser Maintained Road
- ▭ State Maintained Road
- ➔ Yarding Corridor
- ▨ New Road Construction
- Streams**
- Type F
- Type N Perennial
- ⋯ Type N Seasonal
- ▨ Stream Buffer
- ▨ Green Tree Retention - Group
- Contours: 40 Foot



LOGGING PLAN

Of Timber Sale Contract No.
STULLS RIDGE STEER
 341-11-45

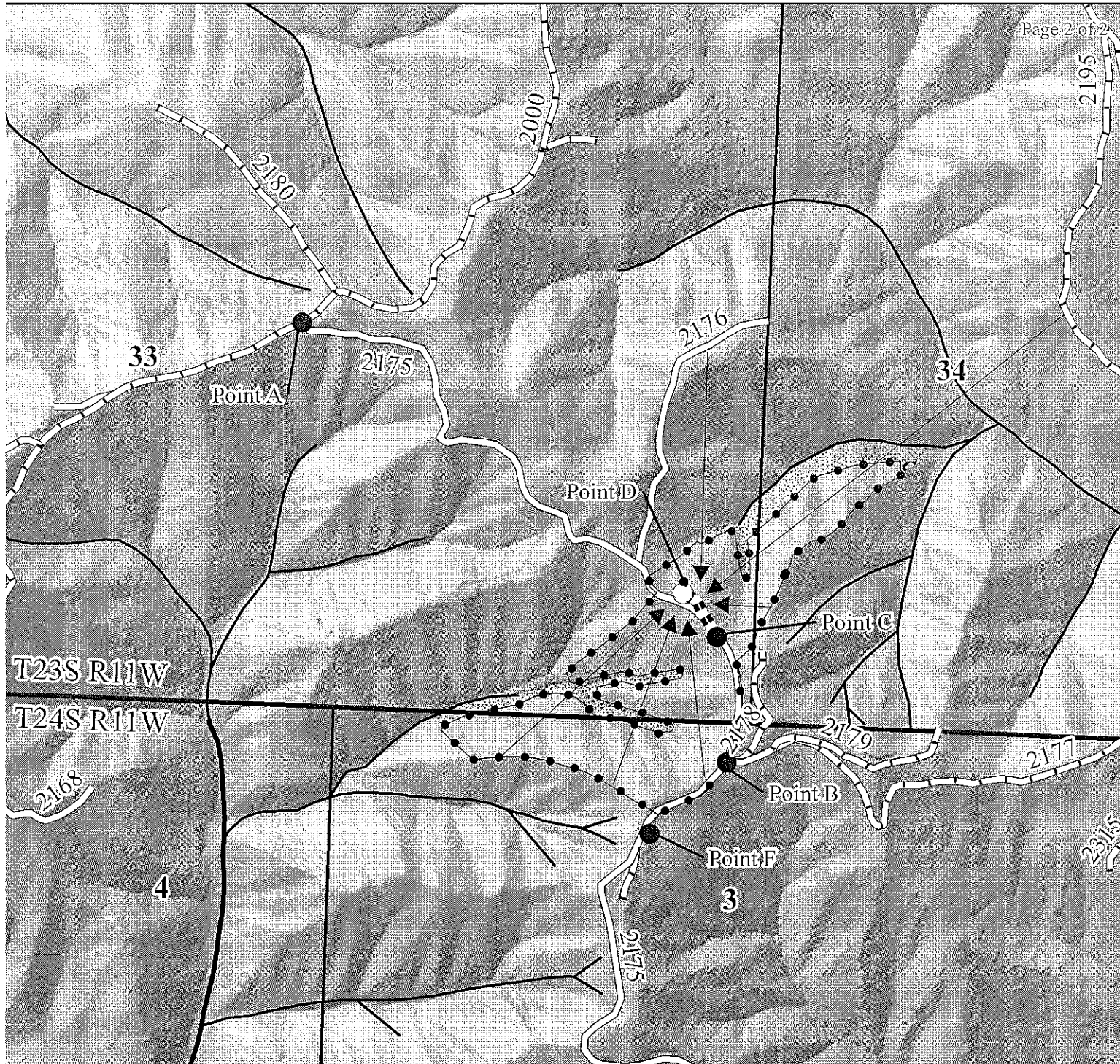
Portions of Sections 33 and 34, T23S, R11W, and
 Portions of Section 3, T24S, R11W, W.M.
 Coos County, Oregon
 Approximately 27 net harvest acres



Approx. Scale: 1 inch = 750 feet



This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.



Legend

- Landing
- ▭ Posted Sale Boundary
- Project Point
- Roads**
- ══ Purchaser Maintained Road
- ══ State Maintained Road
- Yarding Corridor
- ▣▣▣▣ New Construction
- Streams**
- Type F
- Type N Perennial
- ⋯ Type N Seasonal
- ▨ Stream Buffer
- ▩ Green Tree Retention - Group
- Contours: 40 Foot



LOGGING PLAN

Of Timber Sale Contract No.
STULLS RIDGE STEER
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Portions of Sections 33 and 34, T23S, R11W, and
 Portions of Section 3, T24S, R11W, W.M.
 Coos County, Oregon
 Approximately 27 net harvest acres

Approx. Scale: 1 inch = 1,000 feet



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