



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
West 11
Sale WL-341-2020-W00337-01

District: Western Lane

Date: October 22, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$525,070.50	\$2,751.49	\$527,821.99
		Project Work:	(\$42,711.00)
		Advertised Value:	\$485,110.99



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Timber Description

Location: Portions of Sections 10 & 15, T24S R11W W.M., Coos County, Oregon

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	99
Alder (Red)	17	0	97
Maple	16	0	97

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	649	1,096	0	1,745
Alder (Red)	0	0	14	14
Maple	0	0	7	7
Total	649	1,096	21	1,766

Comments: Pond Values Used: Local Pond Values, September 2019

Douglas-fir Stumpage Price/MBF = \$300.90/MBF
Douglas-fir Stumpage Price/Ton = \$40.60/Ton

Western Red Cedar and Other Cedars Stumpage Price/MBF = Pond Value minus Logging Cost:
\$699.85/MBF = \$1,060/MBF - \$360.94/MBF
Western Red Cedar and Other Cedars Stumpage Price/Ton = \$94.57/Ton

Western Hemlock and Other Conifer Stumpage Price/MBF = Pond Value minus Logging Cost:
\$124.85/MBF = \$485/MBF - \$360.15/MBF
Western Hemlock and Other Conifer Stumpage Price/Ton = \$16.87/Ton

Red alder Stumpage Price/MBF = \$165.85/MBF
Red alder Stumpage Price/Ton = \$20.73/Ton

Bigleaf maple and Other Hardwoods Stumpage Price/MBF = \$61.37/MBF
Bigleaf maple and Other Hardwoods Stumpage Price/Ton = \$7.67/MBF

Branding and Painting = \$2.00/MBF

Fuel Cost Allowance = \$3.00/gallon

Hauling Cost Allowance = equivalent to \$900 daily truck cost.

Other Cost(With Profit and Risk to be added):
None.

Other Cost (No Profit and Risk added):
Final Road Maintenance = \$15,220

Reciprocal Agreement Rock = \$14,589

Total other cost (No Profit and Risk added): \$29,809



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Logging Conditions

Combination#: 1

Douglas - Fir	85.68%
Alder (Red)	90.00%
Maple	65.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 10 **bd. ft / load:** 3800
cost / mbf: \$204.75
machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Medium)

Combination#: 2

Douglas - Fir	14.32%
Alder (Red)	10.00%
Maple	35.00%

Logging System: Shovel **Process:** Harvester Head Delimbing
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 13 **bd. ft / load:** 3800
cost / mbf: \$108.18
machines: Forwarder
Harvester



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Logging Costs

Operating Seasons: 1.00	Profit Risk: 14%
Project Costs: \$42,711.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$29,809.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
2.0	7.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	3.8
Alder (Red)	\$0.00	3.0	3.5
Maple	\$0.00	3.0	3.5



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$190.92	\$8.42	\$2.49	\$84.16	\$0.00	\$40.04	\$0.00	\$2.00	\$16.88	\$344.91
Alder (Red)									
\$195.09	\$8.59	\$2.49	\$93.19	\$0.00	\$41.91	\$0.00	\$2.00	\$16.88	\$360.15
Maple									
\$170.95	\$8.59	\$2.49	\$93.19	\$0.00	\$38.53	\$0.00	\$2.00	\$16.88	\$332.63

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$645.81	\$300.90	\$0.00
Alder (Red)	\$0.00	\$526.00	\$165.85	\$0.00
Maple	\$0.00	\$394.00	\$61.37	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00
Maple	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,745	\$300.90	\$525,070.50
Alder (Red)	14	\$165.85	\$2,321.90
Maple	7	\$61.37	\$429.59

Gross Timber Sale Value

Recovery: \$527,821.99

Prepared By: Kevin Gehrig

Phone: 541-935-2283

West 11
WL 341-2020-W00337-01
Combined Project Costs

Project 1	Roadside brushing	\$1,934
Project 2	Construct and compact sub-grades, Road Improvements, End Haul and Stump Removal	\$32,711
Project 3	Clean Catch basins, Ditches and replace culvert	\$5,066
Project 4	Equipment Move in	\$3,000
TOTAL PROJECT COSTS		\$42,711

State Timber Sale Contract
West 11
WL 341-2020-W00337-01

Road Brushing Costs

Location	1370 Rd.	Spur 2	
Point to Point/Satationing			
Miles	1.00	0.06	Total
Brushing Intensity	Light to Medium	Light to Medium	
Cost /Mile	\$ 1,350	\$ 1,350	
Move In Cost	\$ 500		
Total Cost	\$ 1,849.49	\$ 84	\$ 1,934

State Timber Sale Contract
West 11
WL 341-2020-W00337-01

Subgrade Construction/Culverts
Processing and Decking Right-of-Way Logs Not Included

Totals	1370	Spur 1a	Spur 1b	Spur 2	Spur 2a	TOTAL
Stations	82.9	3	3.7	26.95	1.55	119
Cost/Sta	\$ 348.00	\$ 420.00	\$ 372.00	\$ 171.00	\$ 1,077.00	
Cost	\$ 28,872.00	\$ 1,260.00	\$ 1,378.00	\$ 4,598.00	\$ 1,669.44	\$ 37,777.00

Earthwork

Clearing and Grubbing	1370	Spur 1a	Spur 1b	Spur 2	Spur 2a	TOTAL
Acreage	3.8	0.2	0.2		0.17	
Cost/Acre	\$1,337.00	\$1,337.00	\$1,337.00	\$1,337.00	\$1,337.00	
Total	\$ 5,081	\$ 268	\$ 268	\$ -	\$ 228	\$ 5,845.00

Excavation yards are bank run from State's design

Construction/Excavation	1370	Spur 1a	Spur 1b	Spur 2	Spur 2a	TOTAL
Stations	82.8	3	3.7		1	
Drift/Excavation Cu Yd						
\$/sta	\$122.00	\$122.00	\$122.00	\$122.00	\$122.00	
Drift/Excavation \$/yd						
Landing Construction	\$2,405.83	\$481.17	\$481.17		\$481.17	
Subtotal	\$ 12,508	\$ 848	\$ 933	\$ -	\$ 604	\$ 14,893.00

End-haul Costs are in addition to excavation costs above.

Cu Yd	1000					
\$/yd	\$4.95					
End-haul stumps						
Subtotal	\$4,948.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 4,948.00

Sidecast PullBack					Spur 2a	TOTAL
Station					1.84	
\$/yd	\$ 414.37	\$ 414.37	\$ 414.37	\$ 414.37	\$ 414.37	
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ 762.44	\$ 762.00

Culverts

Aluminized Steel	1370	Spur 1a	Spur 1b	Spur 2	Spur 2a	
Length (ft)	80			90		
Diameter	18"	18"	18"	18"	18"	0
Cost/Foot	\$ 13.85	\$ 13.85	\$ 13.85	\$ 13.85	\$ 13.85	
Subtotal	1108	0	0	1246.5	0	
Subtotal	\$ 1,108	\$ -	\$ -	\$ 1,247	\$ -	\$ 2,355.00
Installation Cost	\$ 1,276	\$ -	\$ -	\$ 1,435	\$ -	\$ 2,711.00

Subgrade Treatment

Compaction w/ Roller	1370	Spur 1a	Spur 1b	Spur 2	Spur 2a	TOTAL
Road Stations	82.8	3	3.7	26.95	1.55	119
Cost/STA	\$ 24.99	\$ 24.99	\$ 24.99	\$ 24.99	\$ 24.99	
Subtotal	\$ 2,069	\$ 75	\$ 93	\$ 674	\$ 39	\$ 2,950

Grade and Shape	1370	Spur 1a	Spur 1b	Spur 2	Spur 2a	TOTAL
Road Stations	82.9	3	3.7	26.95	1.55	
Cost/STA	\$ 22.70	\$ 22.70	\$ 22.70	\$ 46.06	\$ 22.70	
Subtotal	\$ 1,882	\$ 69	\$ 84	\$ 1,242	\$ 36	\$ 3,313

Move in Cost	Initial	Between Projects
D-7 Cat	\$ 1,500	
Dump Truck	\$ 200	
grader	\$ 500	
vibratory roller	\$ 200	
water truck	\$ 100	
small excavator	\$ 500	

Project Cost \$ 37,777.00

Move In Cost \$ 3,000

Total Cost \$ 40,777.00

Due to rounding, the numbers in the table above may not add up to the

State Timber Sale Contract
 WL 341-2020-W00337-01
 West 11

Final Road Maintenance Cost Summary

Totals	1370	Spur 1a	Spur 1b	Marlow Creek	Spur 2	Spur 2a	TOTAL
Stations	109.00	3.00	3.70	332.00	26.95	1.55	
Cost/Sta	\$ 53.92	\$ 75.02	\$ 64.30	\$ 62.29	\$ 41.73	\$ 105.45	
Total Cost	\$ 5,877	\$ 225	\$ 238	\$ 20,681	\$ 1,124.53	\$ 163.44	\$ 28,309

Spot Rocking	1370	Spur 1a	Spur 1b	Marlow Creek	Spur 2	Spur 2a	TOTAL
Total Yds	20	0	0	506	0	0	
Rock Size	1 1/2"-0"	0	0	3/4"-0"	0	0	
\$/yd	\$28.83	\$0.00	\$0.00	\$28.83	\$0.00	\$0.00	
Subtotal	\$ 577	\$ -	\$ -	\$ 14,589	\$ -	\$ -	\$ 15,166

Grade,Shape & Pull Ditches	1370	Spur 1a	Spur 1b	Marlow Creek	Spur 2	Spur 2a	TOTAL
Stations	109.00	3.00	3.70	332.00	26.95	1.55	
\$/STA	\$ 18.35	\$ 18.35	\$ 18.35	\$ 18.35	\$ 18.35	\$ 18.35	
Subtotal	\$ 2,000	\$ 55	\$ 68	\$ 6,092	\$ 495	\$ 28	\$ 8,738

Install Waterbars	1370	Spur 1a	Spur 1b	Marlow Creek	Spur 2	Spur 2a	TOTAL
# of waterbars	80.00	2.00	2.00		18.00	1.00	
\$/waterbar	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	
Subtotal	\$ 2,800.00	\$ 70.00	\$ 70.00	\$ -	\$ 630.00	\$ 35.00	\$ 3,605.00

Landing clean up	1370	Spur 1a	Spur 1b	Marlow Creek	Spur 2	Spur 2a	TOTAL
Stations	5.00	1.00	1.00			1.00	
\$/STA	\$ 100.00	\$ 100.00	\$ 100.00			\$ 100.00	
Subtotal	\$ 500	\$ 100	\$ 100	\$ -	\$ -	\$ 100	\$ 800

Move In	Initial	Between Proj.
Grader	\$ 500	
Vibratory Rolloer		
D * Cat		
Excavator	\$ 1,000	
Dump Truck		

Move in costs associated with one entry for the entire project

Total Final Maintenance Costs

\$ 29,809

Cruise Report

West 11

SALE # WL-341-2020-W00337-01

Sale Area: Portions of Sections 10 & 15, T24S, R11W, W.M., Coos County, Oregon. The sale has two areas: Area 1's net harvestable acres are 27 and Area 2's net harvestable acres are 37, with a total net acres of 64. There are approximately 6 acres of stream buffers and roads. Acres were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

Stand Description: West 11 is dominated by 47 and 52 year old Douglas-fir. In Area 1 there is a small component of bigleaf maple, myrtle and red alder present. Area 2 has a small component of western hemlock, red alder, bigleaf maple and chinquapin. The majority of the hardwood component is concentrated near the draws. Much of the stand consists of primarily sword fern, salal, Oregon grape, salmonberry, evergreen huckleberry, and vine maple. The slopes are variable ranging from 0-16%, with areas of steep 40-65% slopes. There are two streams located in the Southern sections of Area 1, and five streams located in the middle of Area 2. These units were appraised for be both cable and ground based operations.

Cruise Method: These areas were cruised in a grid pattern using a systematic variable radius plot sampling method. 11 plots were cruised in Area 1 in an alternating cruise-count pattern. Area 2 was cruised with 25 cruise plots. Every tree was graded using the official rules for log scaling for the above species. 40, 36, and 32 foot lengths were favored for #2 and #3 sawlog grades. Deductions for defect were estimated on a tree by tree basis. Logs that were not at least 16 feet in length and having at least 20 bf were not counted.

Volume Tables: Volumes were computed using the SuperACE program.

Area 1 Net Cruised Volume (MBF)									
Species	Avg. DBH	Special Mill	2 Saw (mbf)	3 Saw (mbf)	4 Saw (mbf)	Camp Run (mbf)	Sub-Total (mbf)	Conversion Factor (tons/mbf)	Total Tons
Douglas-fir	14.8		216	406	92		714	7.4	5284
Red Alder	13.6					4	4	8	32
Big leaf maple	16					7	7	8	56
Total (MBF):							725		
Area 2 Net Cruised Volume (MBF)									
Species	Avg. DBH	Special Mill	2 Saw (mbf)	3 Saw (mbf)	4 Saw (mbf)	Camp Run (mbf)	Sub-Total (mbf)	Conversion Factor (tons/mbf)	Total Tons
Douglas-fir	16		433	405	193		1031	7.4	7629
Western hemlock	17.4			19	16		35	7.4	259
Red alder	20					10	10	8	80
Total (MBF):							1076		

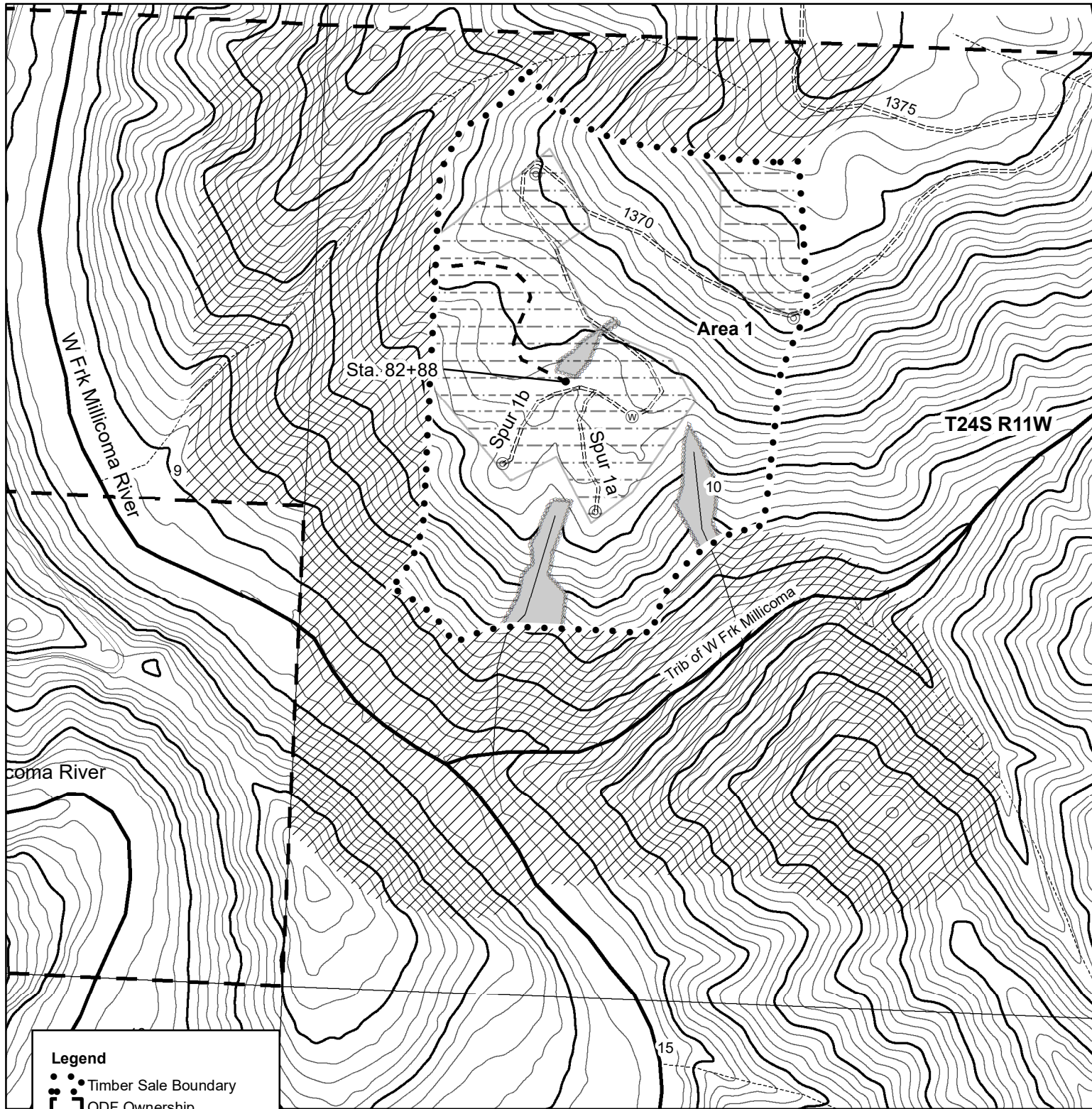
TOTAL MBF 1801

TOTAL TONS 13340

Note: A breakage and defect was applied to the volume in the appraisal.

Average MBF/Acre A1: 27

Average MBF/Acre A2: 29



Legend

- Timber Sale Boundary
- ODF Ownership
- Chainsaw Restricted Area
- Ground Based

Roads

- Logger Option
- DIRT
- GRAVEL

Streams

- Fish
- Nonfish
- Unknown
- Stream Buffer
- Landing to Construct
- Waste Areas

Logging Map 1 of 2

OF TIMBER SALE CONTRACT NO. WL-341-2020-W00337-01
WEST 11
PORTIONS OF SECTION 10 & 15, T24S, R11W, W.M.
COOS COUNTY, OREGON

AREA 1 NET ACRES = 27

Countour Interval - 20'

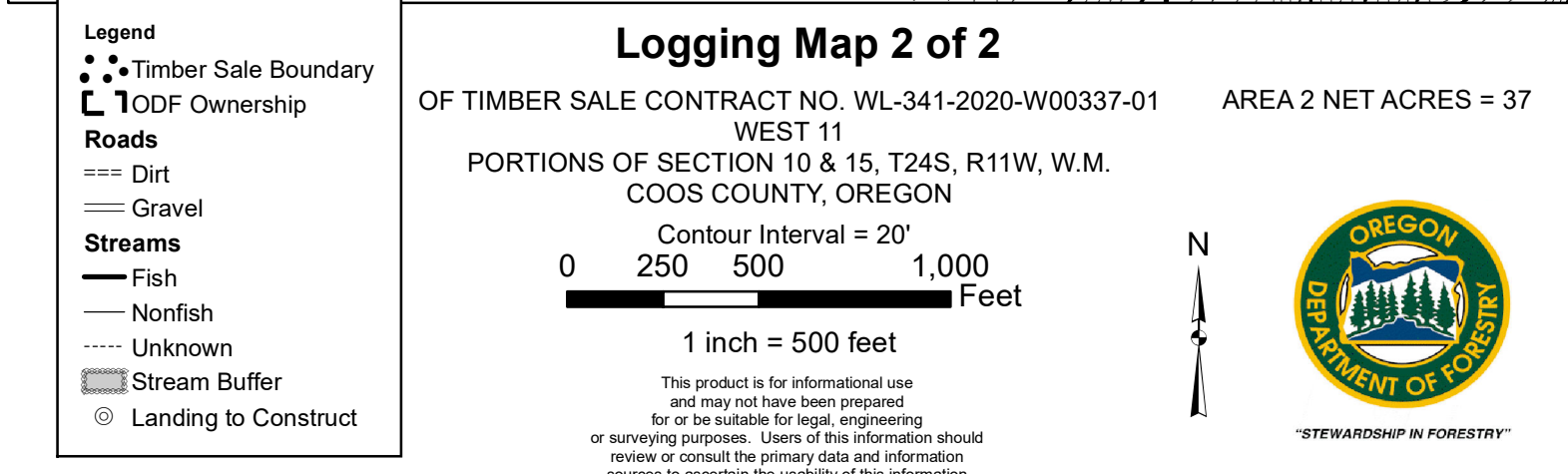
0 125 250 500
Feet

1 inch equals 375 feet

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