



Timber Sale Appraisal
Jordan Bound
Sale 341-10-66

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: February 03, 2010

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$933,695.49	\$77,754.04	\$1,011,449.53
		Project Work:	\$(235,050.00)
		Advertised Value:	\$776,399.53



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timber description

Location: Portions of Sections 19, 30, and 31, T1N, R6W and Sections 25 and 36, T1N, R7W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	14	0	95
Western Hemlock / Fir	12	0	95
Alder (Red)	13	0	90

Volume by Grade	(10" - 11"	(12"+) 2S	(8" - 9") 4	2S	3S	4S	6" - 7"	Total
Douglas - Fir	0	0	0	1,663	4,775	1,768	0	8,206
Western Hemlock / Fir	0	0	0	0	141	100	0	241
Alder (Red)	77	39	114	0	0	0	303	533
Total	77	39	114	1,663	4,916	1,868	303	8,980



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comments: Pond Values Used: 4th Quarter Calendar Year 2009.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
 $\$540/\text{MBF} = \$790/\text{MBF} - \$250/\text{MBF}$

Pulp (Conifer & Hardwood) Price = $\$39.71/\text{MBF}$
(See attached Pulp Appraisal sheet)

SCALING COST ALLOWANCE = $\$5.00/\text{MBF}$

FUEL COST ALLOWANCE = $\$3.00/\text{Gallon}$

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

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

Brand and Paint: $\$2/\text{MBF} \times 8,980 \text{ MBF} = \$17,960$

Snag Creation: $\$10/\text{snag} \times 870 \text{ snags} = \$8,700$

TOTAL Other Costs (with Profit and Risk to be added) = $\$26,660$

Other Costs (No Profit & Risk added):

Truck Assist: $\$30/\text{MBF} \times 2,658/\text{MBF} = \$79,740$

Stimson road use fee: $\$26,617$

TOTAL Other Costs (No Profit & Risk added) = $\$106,357$

ROAD MAINTENANCE

Interim Maintenance: $\$250/\text{Mile} \times 15 \text{ miles} \times 2 \text{ grading}/8,980\text{MBF} =$
 $\$0.84/\text{MBF}$

Maintenance Rock: $(\$6.19/\text{cu. yd.} \times 15 \text{ miles} \times 25 \text{ cu. yd./MMBF/mile}$
 $\times 8.980 \text{ MMBF})/8,980 \text{ MBF} = \$2.32/\text{MBF}$

Final Maintenance:

Grading - $\$500/\text{Mile} \times 15 \text{ miles} \times 1 \text{ grading}/8,980 \text{ MBF} = \$0.84/\text{MBF}$

TOTAL Maintenance Cost = $\$4.00/\text{MBF}$



"STEWARDSHIP IN FORESTRY"

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logging conditions

combination#: 1

	Douglas - Fir	20.00%
	Western Hemlock / Fir	10.00%
	Alder (Red)	50.00%

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

logging system: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 4.0 **bd. ft / load:** 3,700

cost / mbf: \$225.95

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

combination#: 2

	Douglas - Fir	25.00%
	Alder (Red)	50.00%

yarding distance: Medium (800 ft) **downhill yarding:** No

logging system: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 6.5 **bd. ft / load:** 3,700

cost / mbf: \$139.05

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

combination#: 3

	Douglas - Fir	55.00%
	Western Hemlock / Fir	90.00%

yarding distance: Short (400 ft) **downhill yarding:** No

logging system: Cable: Small Tower <=40 **Process:** Stroke Delimber

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 7.0 **bd. ft / load:** 3,700

cost / mbf: \$109.43

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Small)



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logging costs

Operating Seasons:	2.00	Profit Risk:	15.00%
Project Costs:	\$235,050.00	Other Costs (P/R):	\$26,660.00
Slash Disposal:	\$0.00	Other Costs:	\$106,357.00

Miles of Road

Road Maintenance: \$4.00

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	3.5
Western Hemlock / Fir	\$0.00	3.0	3.4
Alder (Red)	\$0.00	2.0	3.0



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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									
\$140.14	\$4.20	\$0.98	\$60.87	\$2.97	\$31.37	\$0.00	\$5.00	\$11.84	\$257.37
Western Hemlock / Fir									
\$121.08	\$4.20	\$0.98	\$62.66	\$2.97	\$28.78	\$0.00	\$5.00	\$11.84	\$237.51
Alder (Red)									
\$182.50	\$4.40	\$0.98	\$111.60	\$2.97	\$45.37	\$0.00	\$5.00	\$11.84	\$364.66

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$369.94	\$112.57	\$0.00
Western Hemlock / Fir	\$0.00	\$278.78	\$41.27	\$0.00
Alder (Red)	\$0.00	\$510.54	\$145.88	\$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	8,206	\$112.57	\$923,749.42
Western Hemlock / Fir	241	\$41.27	\$9,946.07
Alder (Red)	533	\$145.88	\$77,754.04

Gross Timber Sale Value

Recovery: \$1,011,449.53

Prepared by: David Luttrell

Phone: 503-815-7025

Pulp Appraisal

Sale Name	Jordan Bound
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Species	Douglas-fir	Hemlock	Alder
Stems Per/ac.	146	6	19
Acres	440	440	440
Total Stems	64240	2640	8360
BF/Stem, Conversion	10	10	10
Total MBF Per/Species	642	26	84
Pond Value Per/MBF	\$260	\$300	\$320
Logging + Hauling Costs	\$210.01	\$183.74	\$294.10
Stumpage	\$49.99	\$116.26	\$25.90
Tons Per/MBF, Conversion	10	10	10
Price Per/Ton	\$5.00	\$11.63	\$2.59
Total Tons Per/Species	6424	264	836
Total Value	\$32,113.58	\$3,069.26	\$2,165.24
Less P/R 20%	\$25,690.86	\$2,455.41	\$1,732.19

	Total Price	Price/Ton	Price/MBF
Total Price	\$37,348.08	\$4.96	\$49.64
Total Less P/R 20%	\$29,878.46	\$3.97	\$39.71

Contract Price	\$39.71
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Revised Pre-Operations Report

February 3, 2010

Operation Name: Jordan Bound

**Legal: Portions of Sections 19, 30 and 31, T 1 N, R 6 W and
Sections 25 and 36, T 1 N, R 7 W, W.M. Tillamook County, Oregon
Management Basin: Wilson**

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres ¹
1	Modified Clearcut	96	91
2	Modified Clearcut	122	115
3	Modified Clearcut	124	115
4	Modified Clearcut	128	119
Total		470	440

1. The net acres are based on orthophotos and GIS and exclude roads and stream buffers.

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

Slopes have varied aspects and range from 10 to over 100+%. Elevations range from 1040 feet to 2400 feet. The major soil types are Jewell, Killiam, Osweg and Rye.

II. CURRENT STAND CONDITION:

Table 2. Stand Inventory Information⁴

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Net Acres ²
1	MC	213	DF/RA	56	13.5	178	185	49	91
2	MC	212	DF/WH/RA	56	16	180	128	46	115
3	MC	NA	DF/RA	56	15	172	163	46	115
4	MC	NA	DF/WH	56	14	198	211	61	119

1. The source of stand inventory information is from cruise plots.

2. The net acres are based on GIS and exclude roads and stream buffers.

3. The Target identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

4. These numbers are based on plot data taken to this point and final numbers may differ significantly. The directive for minor and major modifications will be followed for further review.

Stand Conditions

All of the sale areas had some level of natural regeneration. The natural regeneration consists mainly of Douglas-fir with varying amounts of red alder, scattered western hemlock and minor amounts of noble fir and western red cedar. Areas 1 and 2 were also aerially seeded in 1961. This aerial seeding appears to have failed since the birth year for these three areas is 1954.

Even though the Douglas-fir naturally regenerated, it shows symptoms of Swiss needle cast (SNC) and poor growth especially on the south facing slopes where the soils are poor and rocky. Due to stand age and poor site, the red alder has slowed height and diameter growth. No other significant insect or disease problems have been discovered at this time.

The brush component is comprised primarily of Oregon grape, vine maple, huckleberry, salal and sword fern in varying amounts.

The lack of stocking control, which includes the lack of inter-planting in poorly stocked areas and no pre-commercially thinning the over stocked areas, and low site caused by shallow soils and exposed rock, caused the overall growth of the conifer in the following areas to be low over the life of the stands.

Area 1 is a mixed Douglas-fir and red alder stand with the red alder scattered across the sale areas and located in the draws. Area 1 has a SDI of 49%. However a large percent of the basal area, 25% and 43%, is red alder.

Area 2 is predominately a Douglas-fir stand with scattered western hemlock and red alder, which is generally located in the draws. In Area 2, the SDI's are just now 46% and the respective basal area of the conifer is 169 ft².

Area 3 is predominately a Douglas-fir stand with scattered western hemlock, a minor component of noble fir and red alder which is generally located in the draws. The poor stand growth is even more noticeable for Area 3 on the upper portions of the SW aspect. The SDI is 46% with a basal area at 163 ft².

Area 4 is predominately a Douglas-fir stand with scattered western hemlock and red alder which is generally located in the draws. The SDI of the stand is 61% with a basal area of 198 ft² and a QMD of just 13". The conifer stands in this area are overstocked resulting in the loss of live crown and reduced growth.

The brush component is comprised primarily of Oregon grape, vine maple, huckleberry, salal and sword fern in varying amounts.

III. DESIRED STAND CONDITION AND VISION:

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest	Desired Future	Net Acres
1	213	UDS	REG	GEN	91
2	212	UDS	REG	GEN	115
3	NA	UDS	REG	GEN	115
4	NA	UDS	REG	GEN	119

See Section IV: Proposed Management Prescription for more information on Green Tree, Down Wood, and Snag Strategies during operation. Also refer to Landscape Design in the Summary document for more information on strategies to move the district toward Desired Future Condition (DFC) goals.

Jordan Creek Sub-Basin Landscape View:

The Phipps Headwater sale is within the Jordan Creek sub-basin. Much of the basin is mixed species conifer stands and recent management has focused on partial cuts of mixed conifer stands and regeneration harvest of stands severely impacted by Swiss needle cast.

Modified Clearcuts: The DFC for Areas 1, 2, 3 and 4 are designated as General (GEN).

Short Term Vision: The regeneration harvest will remove the current slow growing alder western hemlock and Douglas-fir. After the regeneration harvest these stands will be composed of legacy structures retained from the present stand and have a young thriving new cohort of Douglas-fir and western hemlock. A component of red alder will exist along streams and in steep draws and will regenerate naturally with the planted Douglas-fir and hemlock. The residual Douglas-fir in the regeneration harvests will also serve as a source for future recruitment of larger snags and down wood.

Long Term Vision: The vision for these stands is to have a fully stocked mixed species stand that has both vertical and horizontal diversity. The stands will be pre-commercial thinned (PCT) 10 - 15 years after planting. At 35-40 years the stand will be commercially thinned to maintain productivity to maximize revenues at final harvest.

IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:

The prescription described below are based on the current stand conditions such as overall tree and stand growth, species mix, stand density and stand health.

Modified Clearcut

Areas 1, 2, 3 and 4:

Prescription:

The regeneration harvest will remove the slow-growing Douglas-fir, western hemlock and red alder. All other conifer and hardwoods will be reserved.

Green Tree: 5 green trees will be left, portions within the sale areas and portions in Green Tree Retention Areas. A component of conifer and red alder will also be retained in the stream buffers and HLHL's adding additional green trees within and adjacent to the sale area.

Snags

Snag creation will be done with this harvest operation. Approximately 2 snags per acre greater than 16" will be created within the sale area. Snags currently present in the stand will be reserved from felling as long as the snags are not a safety issue. If snags are cut, they will be left to contribute to down wood goals.

Down Wood

The existing down wood will be reserved in the sale areas and additional down wood will be created during this harvest operation to meet the goal of 600-900 cubic feet of logs in decay classes 1-2 per acre. The goal for down wood creation will be completed by bucking and leaving obvious defect from butt logs of felled Douglas-fir.

Pathway:

These areas will be reforested with a mixture of conifer species: western hemlock, SNC tolerant Douglas-fir, and possibly western red cedar and/or noble fir. A pre-commercial thinning is anticipated at 12 to 17 years when the crowns begin to close. A commercial thinning will then be planned at age 35 to 40. These stands will be managed for timber volume and revenue and will be harvested between ages 60 to 70years.

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	%		X
Planned Quarter:		1	

	Conifer	Hardwood	Total
Net Volume (MBF)	8447	533	8980
Stumpage Value (\$/MBF)	\$110.54	\$145.88	
Estimated Gross Value	\$933,695.49	\$77,754.04	\$1,011,449.53
		Project Costs:	\$235,050.00
		Estimated Net Value:	\$776,399.53

**Combined Douglas-fir and hemlock stumpage values based on harvest type.*

VI. HARVESTING AND ACCESS CONSIDERATIONS:

The sale areas are accessed via the C-Line, Boundary Road and roads located on private ownership. These are currently surfaced. See maps for specific road locations and conditions.

Approximately .31 miles road will be improved which includes grading, rocking, widening, culvert replacement, spot rocking, and adding new culverts. This work will bring all roads up to standards described in the Forest Roads Manual.

Approximately 2.22 miles of road will be constructed to provide access to the harvest areas. During the sale prep process roads within the sale areas will be reviewed for closure at the completion of the sale. See summary document for more information on this topic.

The operation will be 100% cable harvested.

Activity	Mainline	Collector	Rocked Spur ¹	Dirt Spur ¹
Construct			0.84	1.38
Improve		0.31		
Maintain ²		15.0		
Close/Block ³			0.84	1.38
Vacate ³				

1. Additional roads may be built by the operator at the time of harvest and will be approved by the State through the Operations Plan. These will be short dead end spurs and closed or blocked after harvest
2. All roads accessing the sale area will be maintained during the life of the timber sale contract. Maintenance miles in the table are those roads not being constructed or improved.
3. Roads not closed/blocked or vacated at the end of the sale will be reviewed for closure after reforestation is established.
4. The numbers in this table reflect planned Project Work associated with the sale.

VII. AQUATIC RESOURCES AND WATER QUALITY

Between Area 1 and Area 2 there are medium, unnamed Type F streams and their tributaries which include additional unnamed, small, perennial and seasonal Type N streams. These streams will be reviewed and protected appropriately during sale layout based on flow, topography, and terrain.

Other known aquatic habitat within the sale areas includes seeps, springs and waterfalls.

Oregon Department of Fish and Wildlife (ODFW) will be requested to complete stream surveys before sale layout begins. Streams of unknown status will be treated as Type F until surveys are completed to verify fish use.

Stream buffers within or adjacent to harvest unit boundaries will be managed according to *Forest Management Plan* Riparian Strategies. The riparian areas will be reviewed during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies. A sub-set of those standards are highlighted below.

A 25' no-harvest buffer will be established along the small type N streams. Additional trees including some wildlife trees will be retained resulting in a 30 - 35 foot buffer. The potential debris flow streams have a high probability of delivering wood to downstream fish-bearing streams. No harvest will be allowed within 25' horizontal distance of debris-flow prone type N streams. In addition, a minimum of 10 trees/acre will be retained within 100 feet of the stream to promote potential large wood recruitment.

The buffer between Areas 1 and 2, Areas will be extended either side of the Type F streams so that the combined buffer is at least 300 feet in width to separate the modified clearcuts in Areas 1 and 2.

Riparian management areas result in leave trees adjacent to the stream which protect stream temperature, provide nutrients, protect stream banks, and eventually provide wood to improve fish habitat.

Currently a watershed analysis is being done on the Wilson River. When this report is completed the recommendations for the watershed will be included.

VIII. T&E SPECIES CONSIDERATIONS:

The sale has been reviewed with the ODF Northwest Oregon Area Biologist. Surveys for marbled murrelets are not required for this sale due to the absence of potentially suitable habitat. Surveys for northern spotted owls are not required as the sale is within the Tillamook Burn (see November 2002 ODF Policy Guidance: Northern Spotted Owl Surveying on State Forest Lands).

Streams in this sale are in the headwaters of the Wilson basin. As of March 2008, coastal coho salmon are listed as threatened for the Oregon Coast. The riparian and aquatic strategies combined with road and harvest practices described in this Annual Operations Plan and our Northwest Oregon State Forests Management Plan (FMP) are designed to minimize impacts and or restore aquatic habitats that influence aquatic species.

T & E Plant species: The sale areas were checked against the Oregon Natural Heritage Program (ONHP) database of known threatened or endangered listed plant locations as well as local records in the Land Management Classification System (LMCS).

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

This assessment is based on a LiDAR-generated 1 m digital elevation model and available geologic maps. There are high landslide hazard locations throughout the sale area. Areas 1 and 2 drain to Jordan Creek and unnamed tributaries to Jordan Creek. The risk of landslides delivering to these streams from the sale area is high. Portions of the sale area appear to be located on large, deep-seated landslide landforms. The geotechnical specialist will be consulted during sale layout.

X. RECREATION RESOURCES:

The sale area is designated as non-motorized in the *Tillamook State Forest Comprehensive Recreation Plan* (1993). This sale has been reviewed by the District Recreation Coordinator. No OHV trails or campsites were identified

within or adjacent to the sale area. The upper part of Jordan Creek Road has recently been vacated and converted into an OHV trail. It is located on the north side of Jordan Creek, opposite the sale areas. Recreational use common to this area is hunting.

XI. CULTURAL RESOURCES:

The *Tillamook State Cultural Assessment* does not list any cultural sites within or adjacent to the proposed sale boundary.

XII. SCENIC RESOURCES:

The sale area has a visual classification of Level 3 – Low sensitivity. No visual impact is expected.

XIII. OTHER RESOURCE CONSIDERATIONS

Easements will be needed to use existing roads, to build new a new road, to create a landing and yard through an existing plantation all located on private ownership. The boundaries of Areas 1 and 2, where they are adjacent to private land, will need to be identified in the field by the Engineering Unit prior to posting of the sale boundaries.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

The sale area contains Focused and Special, Aquatic and Riparian Habitat (See section VII. Aquatic Resources and Water Quality, for the management guidelines to be utilized). This sale also includes Special Stewardship, Operationally Limited. This area will be evaluated further with the geotechnical specialist to determine if this classification shows in the correct location. See Section IX, Slope Stability and Geotechnical Issues, for additional information.

Boundary lines depicted on Attachment C are approximate; exact locations and site specific management activities will be determined during the sale preparation process.

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Jordon Bound**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
50.0	Pavement	45
28.0	Main Lines	7
6.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Drill & Compressor	\$1,165.77		\$46.00	0.00	4.00	4	\$184.00	\$1,349.77
0	Brush Cutter	\$0.00		\$4.00	0.00	0.00	0	\$0.00	\$0.00
1	Graders	\$1,267.14		\$3.65	0.00	0.00	0	\$0.00	\$1,267.14
0	Loader (Small)	\$0.00	1	\$3.55	0.00	0.00	0	\$0.00	\$0.00
0	Loader (Med. & Large)	\$0.00	1	\$9.00	0.00	0.00	0	\$0.00	\$0.00
1	Rollers (smooth/grid) & Compactors	\$1,001.14		\$5.00	0.00	0.00	0	\$0.00	\$1,001.14
0	Excavators (Small)	\$0.00		\$22.00	0.00	0.00	0	\$0.00	\$0.00
0	Excavators (Med.)	\$0.00		\$35.50	0.00	0.00	0	\$0.00	\$0.00
2	Excavators (Large)	\$3,219.85	1	\$44.80	0.00	3.00	3	\$268.80	\$3,488.65
0	Tired Backhoes/Skidders	\$0.00		\$3.00	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D6)	\$0.00	2	\$7.10	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D7)	\$0.00	2	\$11.30	0.00	0.00	0	\$0.00	\$0.00
1	Tractor (D8)	\$1,486.24	2	\$15.10	0.00	0.00	0	\$0.00	\$1,486.24
3	Dump Truck (10 cy +)	\$1,258.32		\$2.85	0.00	4.00	4	\$34.20	\$1,292.52
0	Dump Truck (Off Hiway)	\$0.00	1	\$4.75	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$0.00		\$2.85	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (2500 Gal)	\$0.00		\$2.85	0.00	0.00	0	\$0.00	\$0.00
0	Jaw	\$1,066.00							
0	2-Stage Crusher	\$1,597.00							
0	3-Stage Crusher	\$2,489.00							

TOTAL MOVE-IN COSTS:	\$9,885.46
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TC TLOGSTVB

Log Stock Table - MBF

Project: **JB**

T01N R06W S19 TMC

T01N R06W S19 TMC

Twp Rge Sec Tract
01N 06W 19 AREA1

Type
MC

Acres
91.00

Plots
12

Sample Trees
64

Page 1
Date 1/21/2010
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Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches												
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
DF		8	2	32		29	5.0	28	2.2						28							
DF		8	2	40		25	5.0	24	1.9					24								
DF		8	3	32		241	5.0	229	17.9			114	54	62								
DF		8	3	36		57	5.0	55	4.3			32		23								
DF		8	3	40		642	5.0	610	47.6			201	206	203								
DF		8	4	16		8	5.0	7	.6		7											
DF		8	4	18		19	5.0	18	1.4		18											
DF		8	4	19		14	5.0	13	1.0		13											
DF		8	4	20		8	5.0	7	.6		7											
DF		8	4	21		14	5.0	13	1.0		13											
DF		8	4	22		8	5.0	7	.6		7											
DF		8	4	23		9	5.0	9	.7		9											
DF		8	4	24		47	5.0	44	3.5		44											
DF		8	4	25		5	5.0	5	.4		5											
DF		8	4	26		31	5.0	30	2.3		30											
DF		8	4	27		21	5.0	20	1.6		20											
DF		8	4	28		21	5.0	20	1.5		20											
DF		8	4	29		7	5.0	7	.6		7											
DF		8	4	32		40	5.0	38	3.0		38											
DF		8	4	33		9	5.0	8	.6		8											
DF		8	4	35		4	5.0	4	.3		4											
DF		8	4	36		10	5.0	9	.7		9											
DF		8	4	37		33	5.0	31	2.4		31											
DF		8	4	40		46	5.0	44	3.4		44											
DF		Totals				1,347	5.0	1,279	68.5		335	346	259	288	24	28						
RA		8	3	32		24	10.0	22	6.1					22								
RA		8	3	40		20	10.0	18	4.9				18									
RA		8	4	21		5	10.0	5	1.3		5											
RA		8	4	22		17	10.0	15	4.2		15											
RA		8	4	31		18	10.0	17	4.6		17											
RA		8	4	40		119	10.0	107	30.1		61	47										
RA		8	UT	26		7	10.0	7	1.9		7											
RA		8	UT	37		20	10.0	18	5.0		18											
RA		8	R	21		17	10.0	15	4.2		15											
RA		8	R	30		28	10.0	25	7.0		25											
RA		8	R	33		43	10.0	39	11.0		39											
RA		8	R	40		78	10.0	70	19.7		70											
RA		Totals				396	10.0	357	19.1		271	64	22									
DL		8	2	32		127		127	54.6								52		75			
DL		8	2	40		39		39	16.6								39					
DL		8	3	32		49		49	21.0				14	15			20					
DL		8	3	34		6		6	2.7			6										
DL		8	3	37		5		5	2.3			5										
DL		8	4	26		3		3	1.2		3											
DL		8	4	29		4		4	1.7		4											
DL		Totals				232		232	12.4		7	11	14	15			110		75			
Total All Species						1,975	5.4	1,868	100.0		335	623	335	323	39	28	110		75			

T01N R06W S19 TMC										T01N R06W S19 TMC											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
01N	06W	19	AREA1	MC	91.00	12	64	S	W												
Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
					Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf		
										6-7	8-9	10-11	12+	12-20	21-30	31-35	36-99				
DF		8	2	4	5.0	596	566	52	100				53 47				36	223	1.82	2.5	
DF		8	3	69	5.0	10,332	9,815	893	39	29	32	26 74				37	85	0.64	116.1		
DF		8	4	27	5.0	3,869	3,676	335	100				14	46	15	25	27	27	0.26	134.1	
DF	Totals			68	5.0	14,797	14,057	1,279	53	20	23	4	4	12	24	60	32	56	0.48	252.7	
RA		8	3	11	10.0	479	431	39	45		55		55 45				36	101	1.00	4.3	
RA		8	4	40	10.0	1,754	1,579	144	68	32		14 12 75				34	51	0.61	30.9		
RA		8	UT	7	10.0	298	269	24	100				27 73				32	42	0.61	6.3	
RA		8	R	42	10.0	1,822	1,640	149	100				27	26	47	33 48 0.35			34.0		
RA	Totals			19	10.0	4,354	3,918	357	76	18	6		19	22	60	33	52	0.52	75.5		
DL		8	2	71	1,818		1,818	165	100				77 23				34	427	2.58	4.3	
DL		8	3	26	662		662	60	19		22 58		91 9				33	157	1.13	4.2	
DL		8	4	3	74		74	7	100				100				28	35	0.46	2.1	
DL	Totals			12	2,554		2,554	232	3	5	6	86	3	78	19	32	241	1.63	10.6		
Type Totals					5.4	21,704	20,529	1,868	51	18	17	13	2	12	30	55	32	61	0.53	338.9	

TC TLOGSTVB

Log Stock Table - MBF

Project: **JB**

T01N R06W S30 TMC

T01N R06W S30 TMC

Twp Rge Sec Tract
01N 06W 30 AREA2

Type Acres Plots Sample Trees
MC 115.00 16 85

Page 2
Date 1/21/2010
Time 10:46:50AM

SPP	T	S rt	So de	Gr Len	Log	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches										
										2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
DL		8	4	24		3		3	1.3			3								
DL		Totals				202		202	7.0			12		29	30	132				
Total All Species						3,027	5.0	2,876	100.0		305	294	501	621	372	423	360			

T01N R06W S30 TMC T01N R06W S30 TMC
 Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt BdFt
 01N 06W 30 AREA2 MC 115.00 16 85 S W

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre			
					Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf				
									6-7	8-9	10-11	12+	12-20	21-30	31-35	36-99							
DF		8	2	33	5.3	7,497	7,101	817						100			20	80	37	256	1.59	27.7	
DF		8	3	54	5.1	12,008	11,395	1,310	17	29	44	10					31	69	36	102	0.72	111.9	
DF		8	4	12	5.0	2,567	2,439	280	100							22	46	18	13	25	26	0.28	92.3
DF		9	UT	1	5.0	149	142	16						100					26	124	1.48	1.1	
DF	Totals			84	5.2	22,221	21,076	2,424	21	16	24	40	3	6	26	66			32	90	0.71	233.1	
WH		8	3	72	5.0	1,167	1,109	127		77	23						100		40	102	0.64	10.9	
WH		8	4	28	5.0	439	417	48	100						22	25	54		34	38	0.28	10.9	
WH	Totals			6	5.0	1,606	1,525	175	27	56	17		6	7	87			37	70	0.48	21.7		
RA		8	3	49	12.8	367	320	37		45	55						100		40	109	1.19	2.9	
RA		8	4	51	10.0	364	328	38	100				6	42		52		32	43	0.53	7.6		
RA	Totals			3	11.4	732	648	75	51	22	27		3	21		76		34	61	0.74	10.6		
DL		8	2	78		1,390	1,390	160								57	43	34	371	2.39	3.8		
DL		8	3	20		347	347	40	23		77				37	63		31	127	0.95	2.7		
DL		8	4	2		23	23	3	100						100			24	40	0.59	.6		
DL	Totals			7		1,761	1,761	202	6		94		9	58	34			32	249	1.74	7.1		
Type Totals					5.0	26,319	25,010	2,876	21	17	22	40	2	7	26	65		32	92	0.72	272.5		

T01N R07W S25 TMC										T01N R07W S25 TMC			
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt				
01N	07W	25	AREA3	MC	115.00	13	64	S	W				

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre			
					Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf				
									6-7	8-9	10-11	12+	12-20	21-30	31-35	36-99							
DF		8	2	24	5.4	4,198	3,974							100			6	94	38	221	1.40	18.0	
DF		8	3	55	5.9	9,723	9,152	1,052	24	51	25				1	12	87		37	86	0.61	106.1	
DF		8	4	18	5.0	3,102	2,947	339	100						26	21	27	26	27	28	0.28	106.8	
DF		9	UT	3	5.0	496	471	54	100						71	6		23	20	21	0.30	21.9	
DF	Totals			77	5.6	17,519	16,543	1,902	34	28	14	24			7	5	13	76	31	65	0.54	252.7	
DL		8	2	70	1.3	2,764	2,727	314						100				100	39	357	1.93	7.6	
DL		8	3	26		1,011	1,011	116	8	24	68							100	40	132	0.90	7.6	
DL		8	4	4		138	138	16	100						77	23			18	22	0.37	6.4	
DL	Totals			18	.9	3,912	3,876	446	6	6	18	70			3	1		96	33	179	1.24	21.6	
RA		8	R	94	10.0	1,220	1,098	126	16	25	29	30					75	25	34	90	0.69	12.3	
RA		9	UT	6	10.0	67	60	7	100									100	16	18	0.27	3.3	
RA	Totals			5	10.0	1,287	1,158	133	21	23	27	29			5			71	23	30	74	0.64	15.6
Type Totals					5.0	22,718	21,577	2,481	28	24	15	33			6	4	14	77	31	74	0.60	290.0	

TC TLOGSTVB

Log Stock Table - MBF

Project: **JB**

T01N R07W S36 TMC

T01N R07W S36 TMC

Twp Rge Sec Tract Type Acres Plots Sample Trees
 01N 07W 36 AREA4 MC 119.00 21 117

Page 2
 Date 1/12/2010
 Time 1:47:44PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches													
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+		
WH				Totals	87	5.0	83	2.7		32		34	18									
Total All Species					3,204	4.9	3,048	100.0		664		416	753	586	350	135	144					

T01N R07W S36 TMC T01N R07W S36 TMC
 Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt BdFt
 01N 07W 36 AREA4 MC 119.00 21 117 S W

Spp	S	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log			Logs Per /Acre
					Net	Def%	Gross		Net	Log Scale Dia.				Log Length				Ln	Bd	
	T	rt	ad	BdFt				Net MBF	6-7	8-9	10-11	12+	12-20	21-30	31-35	36-99	Ft	Ft		
DF	8	2		14	6.2	3,379	3,169	377				100			22	78	37	203	1.33	15.6
DF	8	3		59	5.2	14,215	13,470	1,603	18	45	34	3			21	79	38	94	0.64	144.0
DF	8	4		26	5.0	6,114	5,808	691	100				4	22	26	48	32	33	0.29	173.8
DF	9	UT		1	5.0	109	104	12	100				100				15	19	0.23	5.5
DF	Totals			88	5.3	23,818	22,551	2,684	37	27	20	16	2	6	22	71	34	67	0.50	338.9
DL	8	2		74	.4	1,760	1,754	209				100			10	90	38	379	2.20	4.6
DL	8	3		21		512	512	61	8	15	77				15	85	38	140	0.96	3.7
DL	8	4		5		102	102	12	100				39	33		28	23	28	0.40	3.6
DL	Totals			9	.3	2,374	2,368	282	6	3	17	74	2	1	11	86	33	199	1.40	11.9
WH	8	3		23	5.0	173	165	20	100						100		32	57	0.46	2.9
WH	8	4		55	5.0	405	385	46	100				8	62		31	26	32	0.30	12.0
WH	9	UT		22	5.0	155	147	18		100						100	36	95	0.83	1.6
WH	Totals			3	5.0	734	697	83	79	21			4	34	24	38	28	43	0.40	16.4
Type Totals					4.9	26,926	25,616	3,048	35	25	19	21	2	6	21	71	34	70	0.53	367.2



STEWARDSHIP IN FORESTRY

Jordan Bound

Volume Summary

Area 1 - Modified Clearcut						
91 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir			14.8	1347	5%	1279
				0	5%	0
Red Alder			4.1	369	10%	333
			0.0	0	5%	0
			0.0	0	10%	0
TOTAL				1716		1611

Area 2 - Modified Clearcut						
115 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir			22.1	2538	5%	2408
Hemlock			1.6	185	5%	175
Red Alder			0.7	84	11%	75
			0.0	0	5%	0
			0.0	0	10%	0
TOTAL				2807		2658

Area 3 - Modified Clearcut						
115 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir			17.0	1958	6%	1848
					5%	0
Red Alder			1.2	140	10%	126
			0.0	0	5%	0
			0.0	0	10%	0
TOTAL				2098		1974



"STEWARDSHIP IN FORESTRY"

Jordan Bound

Volume Summary

Area 4 - Modified Clearcut						
119 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir			23.7	2821	5%	2672
Hemlock			0.6	69	5%	65
			0.0	0	5%	0
			0.0	0	5%	0
			0.0	0	10%	0
TOTAL				2890		2737

TOTAL SALE VOLUME			440 acres
SPECIES	Gross Vol. (MBF)	Net Vol. (MBF)	
Douglas-fir	8664	8206	
Hemlock	254	241	
Red Alder	594	534	
	0	0	
	0	0	
TOTAL	9511	8980	



OREGON DEPARTMENT OF FORESTRY

CRUISE REPORT

Jordan Bound

1. **Type of Sale**

Regeneration harvest, Recovery

2. **Legal Description**

Portions of Sections 19, 30 and 31, T 1 N, R 6 W and Sections 25 and 36, T 1 N, R 7 W, W.M. Tillamook County, Oregon

3. **Sale Acreage**

How the acreage was determined (Sale acreage was determined by GPS and orthophotographs along with GIS.)

	ACRES	
	<u>Gross</u>	<u>Net</u>
Area 1 (Modified Clearcut)	96	91
Area 2 (Modified Clearcut)	122	115
Area 3 (Modified Clearcut)	124	115
Area 4 (Modified Clearcut)	128	119

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures**

A. Cruise Method

A total of 63 variable radius plots were taken on the sale area, spaced on a rectangular grid of 350' x 700'. All plots were full cruise plots. All conifers 8 inches DBH and greater containing 20 net board feet and all hardwoods 10 inches DBH and greater containing 30 net board feet were recorded on all plots. Species were recorded on all trees, and they were graded and measured for merchantable height, diameter, and form factor.

B. Plot size

A basal area factor of 40 was used for the sale area. The point of observation is 4.5 feet.

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Tree heights were recorded to a 6 inch top outside bark for all conifers

and 7 inches top outside bark for hardwoods; or three tenths (0.3) of DBH for all species, whichever was greater. Log lengths all favored 40 feet for all species. Height and diameter measurement standards were to the nearest foot or inch respectively.

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, stand tables, and volume for each species and type. This data was then entered into the Volume Summary table to compute sale volumes. The standard error for the cruise was 7.2% and the coefficient of variation was 57.1 % based on 25 MBF per acre.

6. Hidden Defect and Breakage

5% hidden defect and breakage was taken on conifers and 10% hidden defect and breakage was taken on hardwoods.

7. Timber Description

Most of the sale area burned in the 1933 Tillamook burn. Portions of areas 2 and 4 were unburned but were harvested in the 1940's and 50's. The sale naturally regenerated and is at age 56. Some aerial seeding was done in Areas 1 and 2 in 1961. There has not been any past management activities in these stands. Areas 1 and 3 have a higher mix of alder; therefore the total volume per acre is less than areas 2 and 4. Timber near the ridges is smaller one log trees, but farther down slope the timber generally improves with more two and a few three log trees. There is some evidence of Swiss Needle Cast, there are a few small Phellinus pockets and quite a bit of bear damage in some areas. The alder is fairly straight and appears to be unsprayed.

8. Cruiser Names/Dates

Service Contract Cruiser 2007

9. Revenue Distribution

FDF 100%

Tax Code: 9-2

Deed Numbers: 158, 159, 160, 190, 194

10. Attachments

Volume Summaries

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave

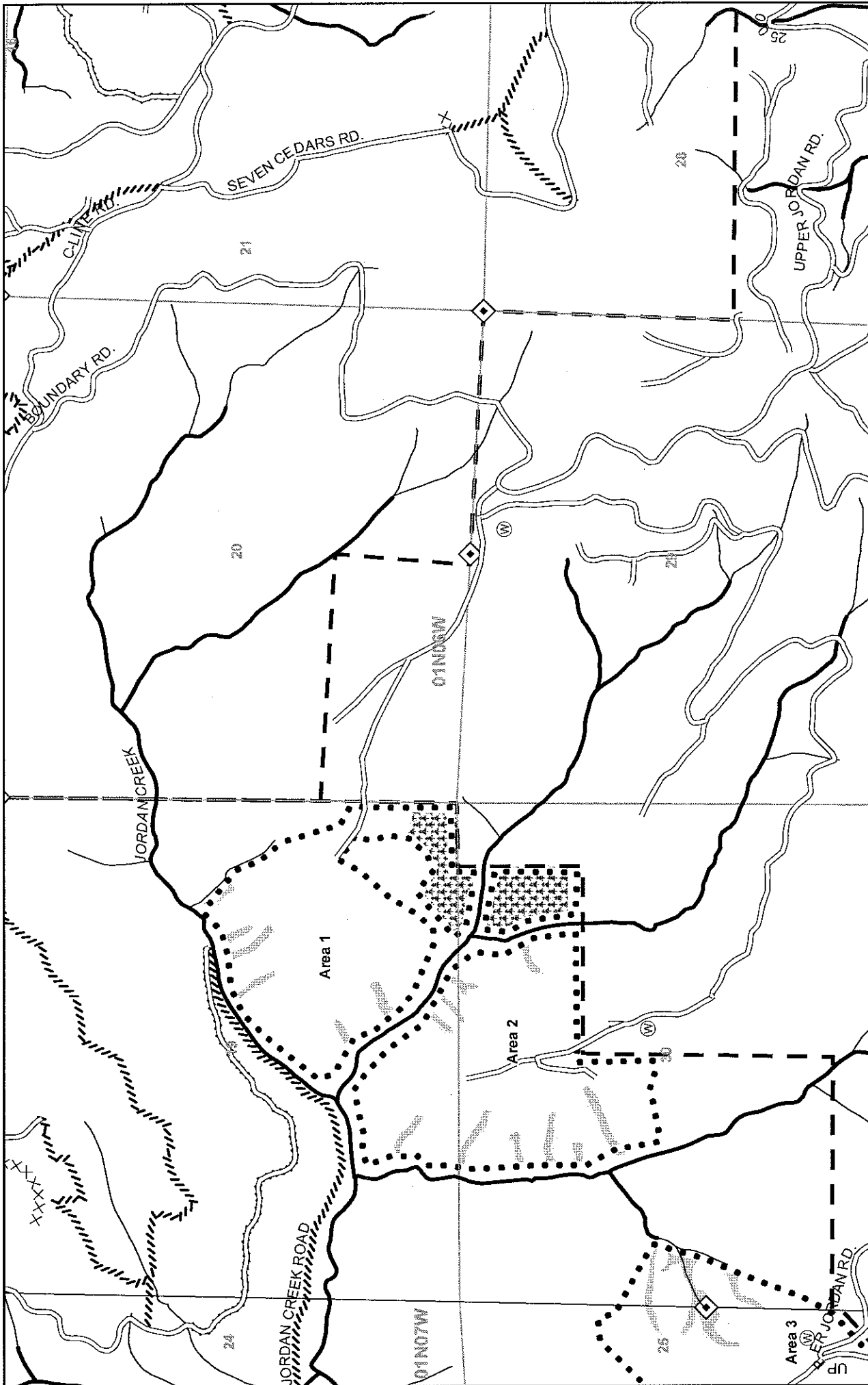
DF – Douglas-fir take

RA – Red alder take

RC – Western red cedar reserved

WL – Western hemlock leave

WH – Western hemlock take



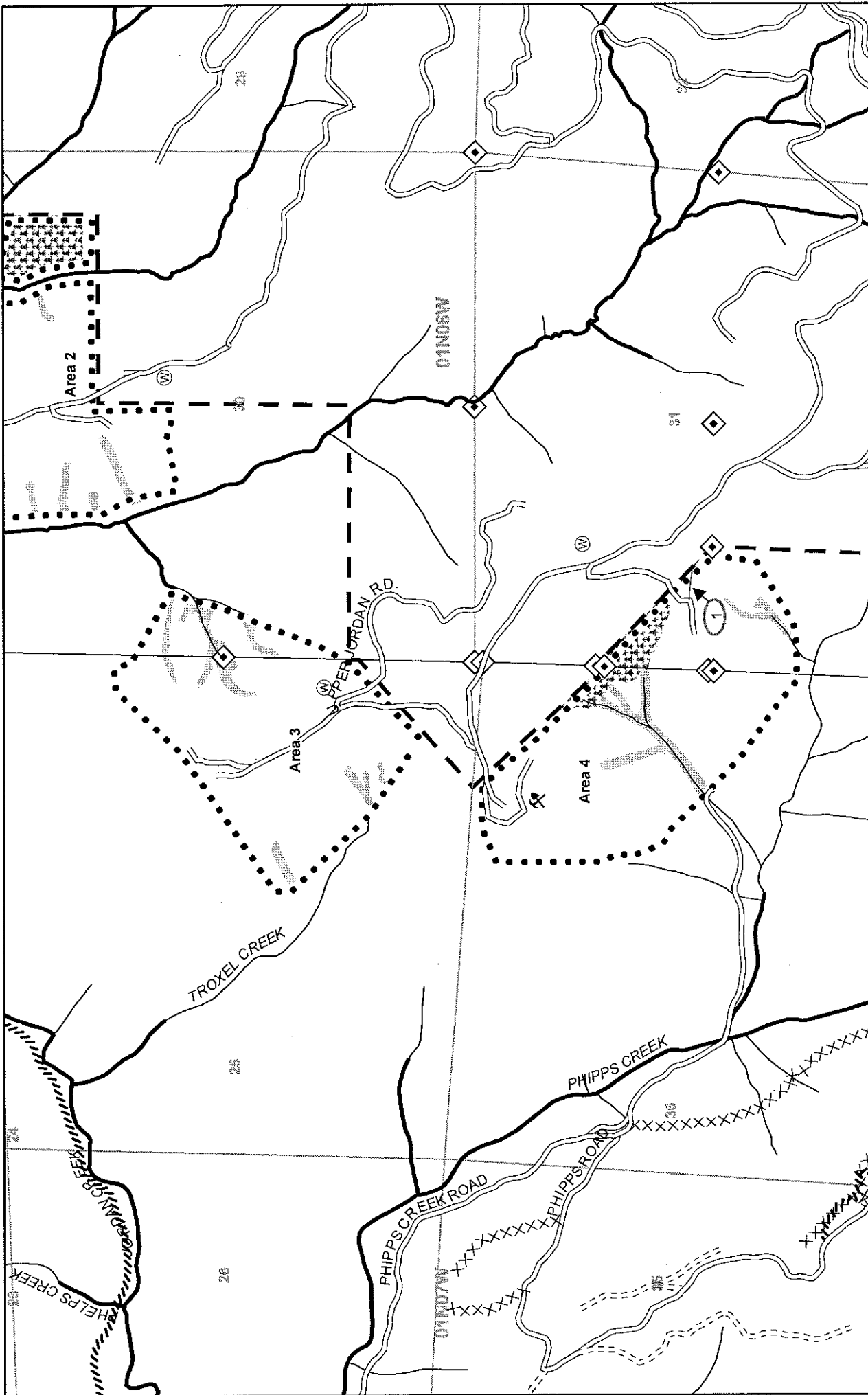
LOGGING PLAN
 Timber Sale Contract No. 341-10-66
 Jordan Bound
 Portions of Sections 19, 30 and 31
 T1N, R6W, and
 Sections 25 and 36, T1N7W, W.M.,
 Tillamook County, Oregon
 1,000 0 1,000 Feet

Tillamook District GIS
 1-19-2010
 This product is for informational use and may not have been prepared or suitable for legal, engineering, or surveying purposes.

Type of		Acres	
Area	Operation	Gross	Net
1	Modified clearcut	96	91
2	Modified clearcut	122	115
3	Modified clearcut	124	115
4	Modified clearcut	128	119
Total		470	440

Legend:

- Rock source
- Stock pile
- Waste area
- Bridge
- Gate
- Survey corner
- Domestic water supply intake
- Truck turn-around
- Helicopter landing zone
- Landing
- Buffer
- Non-required thinning
- Cable yarding
- Ground yarding
- Helicopter yarding
- Downhill yarding
- Green tree retention area
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- Unsurfaced road
- Paved road
- Abandoned road
- Swing road
- Non-project road
- Blocked road
- Road construction
- OHV trail
- Non-motorized trail
- Transmission line
- Railroad



LOGGING PLAN
Timber Sale Contract No. 341-10-66
Jordan Bound
Portions of Sections 19, 30 and 31
T1N, R6W, and
Sections 25 and 36, T1N7W, W.M.,
Tillamook County, Oregon
 1,000 0 1,000 Feet

Area Operation Acres

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1	Modified clearcut	96	91
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Tillamook District GIS
 1-19-2010
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Legend:

- Rock source
- Stock pile
- Waste area
- Bridge
- Gate
- Survey corner
- Domestic water supply intake
- Truck turn-around
- Helicopter landing zone
- Landing
- Buffer
- Non-required thinning
- Cable yarding
- Ground yarding
- Helicopter yarding
- Downhill yarding
- Green tree retention area
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- Unsurfaced road
- Surfaced road
- Paved road
- Abandoned road
- Swing road
- Non-project road
- Blocked road
- Road construction
- OHV trail
- Non-motorized trail
- Transmission line
- Railroad

TEMPORARY ROAD USE AGREEMENT

This Agreement is made and entered into as of the 24th day of December, 2009, by and between **Stimson Lumber Company**, hereinafter called the "Licensor" and the **State of Oregon – Department of Forestry**, hereinafter called the "Licensee".

The parties hereto, each in consideration of the agreements herein contained and the performances on the part of the other do agree:

1. **RIGHTS GRANTED:** The licensee has the right to construct, use and maintain roads and waste areas over lands owned by the licensor in portions of Sections 19, 20, 29, 30, 31, and 32, Township 1 North, Range 6 West, W.M Tillamook County, OR. The location of said roads and waste areas are shown on Exhibit "A" attached hereto and made part of this agreement.

The use of said roads shall be for timber harvest and forest management purposes only, including but not limited to hauling of aggregate material by licensee under the terms of this agreement. This agreement does not grant any rights for public access for recreational use or any other purpose, other than activities directly associated with the purchase and removal of Licensee's timber sale "Jordan Bound".

2. **TERM:** The term of this agreement shall be for a period of five years from the date first entered into.
3. **MAINTENANCE:** The licensee agrees to maintain the road at its sole cost and expense and upon expiration of this agreement it shall leave the roads in as good as condition as existed when its use first commenced, provided however that in the event of Co-use with the licensor or other licensees the cost of maintenance shall be pro-rated among users based on their respective use of the road.
4. **REGULATIONS AND FIRE DANGER:** It is understood that in the use of said roads the licensee will at all times be governed by and obey any and all rules and/or regulations promulgated by the licensor, now or hereafter, pertaining to the use and occupancy of said roads by the users thereof, and in addition thereto will comply with all laws and rules of lawful authority. Regulations by the licensor with respect to fire danger include the right to suspend use of said roads during periods of high fire danger. Regulations by the licensor with the respect to road conditions include, but is not limited to, the right to suspend use of said roads due to excessive moisture conditions or the freezing and thawing of road beds. Such restrictions may be applied when it is reasonably determined by the licensor that continued use would cause road damage beyond what can be repaired with normal maintenance.
5. **ASSIGNMENT:** This agreement shall not be assigned nor shall any part of the interest of the licensee herein or hereunder be transferred or sublet without the consent of the licensor endorsed hereon in writing, except to contractors of the licensee. As it is the intent of the licensee to sell timber from its' lands that requires the removal over said roads, the licensor hereby agrees to allow the licensee to assign this agreement to the successful purchaser of such timber providing all the terms and provisions of this agreement are complied with by the assignee.

6. **INDEMNITY:** The licensee agrees to save and hold harmless the licensor, its officers, employees and agents, from every charge, cost, damage, expense, or liability of any kind or nature arising or growing out of this agreement or the use and occupancy of same by any employee, contractor, guest or invitee of the licensee during the term of this agreement, and/or any violation or noncompliance with the terms and conditions hereof. This indemnity is limited to the extent allowed by the Oregon Constitution Article XI, Section 7 and the Oregon Tort Claims Act.
7. **INSURANCE:** As protection against liability for injury to persons and damage to property, the licensee's timber sale purchaser shall obtain and deliver to the licensor at its' office in Forest Grove, Oregon, prior to commencing any operations under this agreement, a Comprehensive Liability Policy or Policies (being a combination of Automobile and General Liability form), or certificate evidencing same, indicating that the licensee's timber sale purchaser carries in his name, with an Insurance Company acceptable to the licensor, Bodily Injury Liability coverage, including automobile, in the amounts of \$1,000,000/\$1,000,000 and Property Damage Liability coverage, including automobile, in the amount of \$1,000,000 and such insurance policy or policies, or other insurance coverage for like amounts, shall be maintained in effect during the term hereof and shall bear endorsement requiring the insurer to give ten days prior written notice to the licensor of any intended or proposed cancellation of such insurance policy or policies.
8. **DEFAULT:** If the licensee shall fail to perform or abide by any of the conditions or agreements herein provided for, then, and in that event, the licensor may, at its' option by notice in writing to the licensee, cancel and terminate this agreement, and upon such cancellation and/or termination, the licensee hereby agrees to discontinue the use of said roads forthwith; and in the case the licensee shall refuse to do so, then, and in that event, the licensor shall have the right, using such force as may be necessary, without being liable therefore in damages, to evict the licensee and/or the agents, contractors, representatives and guests of the licensee therefrom.
9. **SPECIAL CONDITIONS:** Licensee will pay licensor a road use fee of \$18,471.00. **Payment shall be made to the licensor prior to the removal of any timber.**

Licensee will pay licensor a fee of \$8,146.00 for damages to conifer reproduction on newly constructed roads and waste areas across Stimson Lumber Company lands. **Payment shall be made to the licensor prior to any new construction.**

All waste area locations shall have the clearing limits flagged according to the descriptions on the attached exhibit "A" and shall be approved by Stimson Lumber prior to construction.

Licensee shall install a gate at its own expense on the boundary road at the approximate location shown on Exhibit "A". Gate shall be manufactured from heavy duty steel with posts anchored in concrete.

Licensee and its contractors will be responsible for locking all gates when operations are concluded on a daily basis, or coordinating with other users as to who will be responsible for locking all gates.

In witness whereof, the parties hereto have caused this agreement to be executed as below subscribed:

LICENSEE: STATE OF OREGON
DEPT. OF FORESTRY

LICENSOR: STIMSON LUMBER CO.

BY: _____

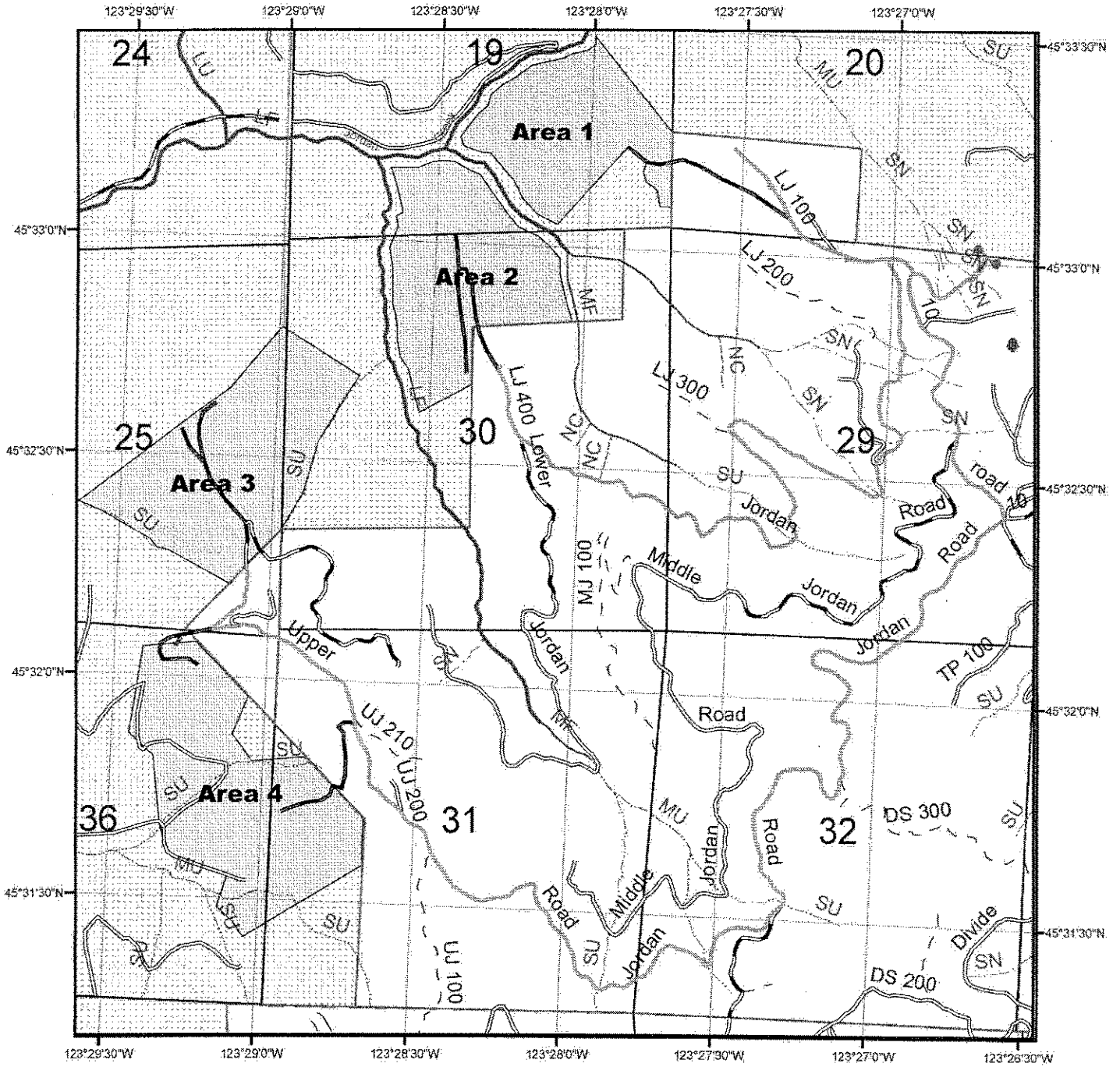
BY: W. Ray Jones

TITLE: _____

TITLE: VP RESOURCE

Exhibit "A"

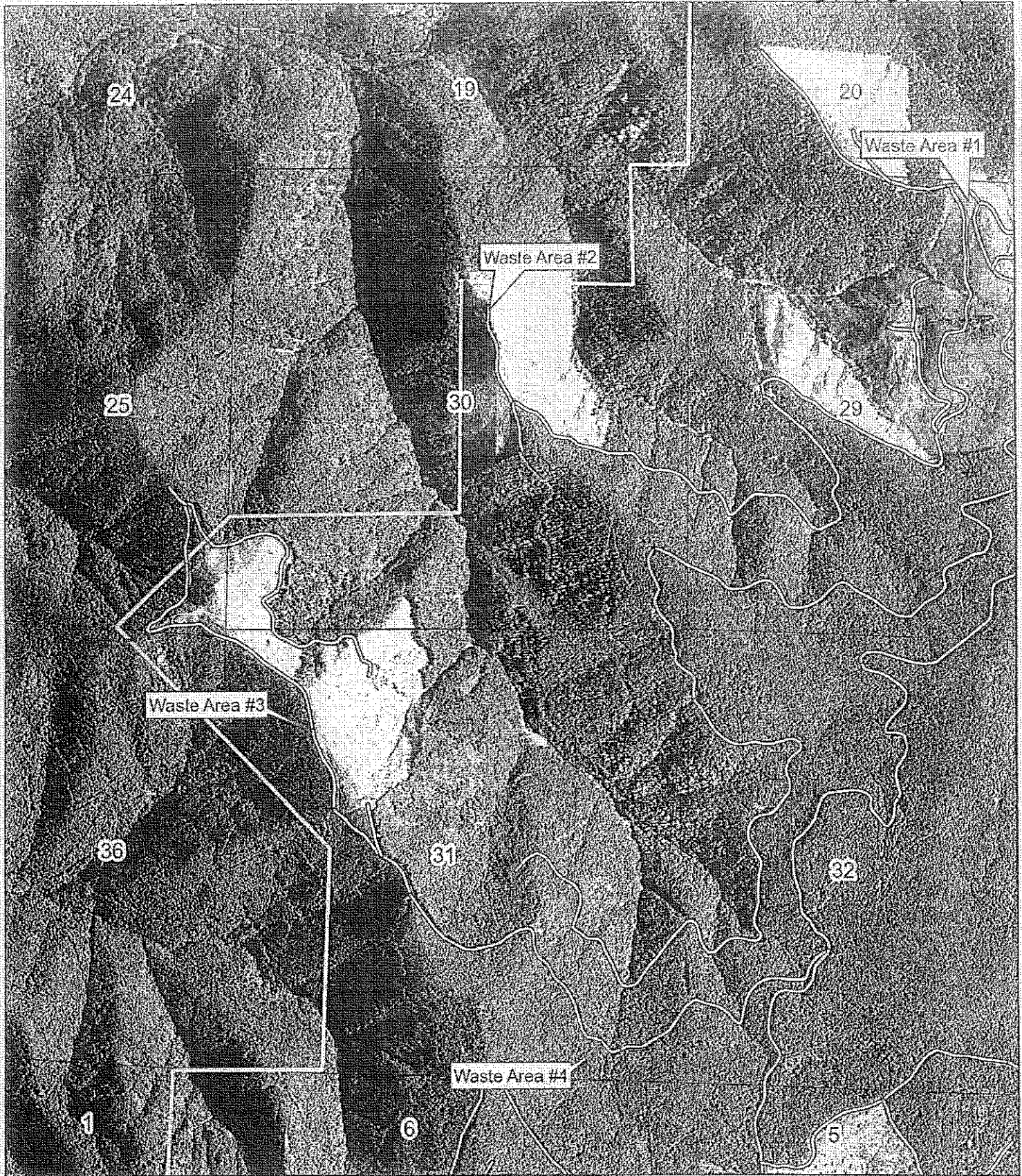
T. 1 N, R. 6 W







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- ROAD USE LOCATION
- GATE INSTALLATION AREA



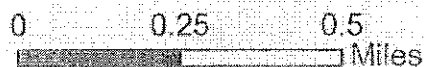


Legend

-  Existing Roads
-  Planned New Roads
-  Property Line
-  Section Lines

Proposed Waste Area Locations

T1N, R6W, SEC. 29, 30, & 31



1 / 200

Forest Grove District GIS

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

Waste Area Descriptions:

- #1: Reprod. ~5 years old
 Area to be cleared approximately = 75' x 75'
- #2: Existing landing in 2 year old clearcut (landing size = 160' x 80')
 Area to be cleared approximately = 40' x 40'
- #3: Douglas fir Timber
 Area to be cleared approximately = 100' x 150'
- #4: 6-12" Alder along old skid road
 Area to be cleared approximately = 20' x 20'

CUTTING LINE AGREEMENT

This AGREEMENT is entered into on this 7th day of December, 2009, by and between the State of Oregon, acting by and through its' Department of Forestry (State) and Stimson Lumber Company (Owner).

WHEREAS State and Stimson Lumber Company desire to establish a timber cutting line between timber owned by the State and timber owned by the Owner and establish certain conditions concerning cutting along the lines;

NOW, THEREFORE, it hereby is agreed by and between the parties as follows:

1. The cutting lines are shown on Exhibit "A" to this agreement. The cutting lines will be marked on the ground with pink ribbon and white "Timber Sale Boundary" tags.
2. The cutting lines establish lines to which either party or both parties may cut timber and conduct related forest management activities. It is not intended to mark or establish by adverse possession, agreement, acquiescence, estoppel or otherwise the true boundary between the adjoining parcels of land owned by the parties of this agreement.
3. Any timber cut over the cutting lines shall be paid for by the party cutting over the lines at a rate of single stumpage according to fair-market value.
4. Each party agrees to make payment to the other party as determined by paragraph 3 above within sixty (60) days of billing by the party to whom the money is owed.
5. This agreement shall terminate five (5) years from the date of its execution. Any liability of either party for cutting over the cutting lines during the term of this agreement shall terminate on that date.

State of Oregon by and Through
its' Department of Forestry

Title: District Forester

Stimson Lumber Company



Title: VP Resource

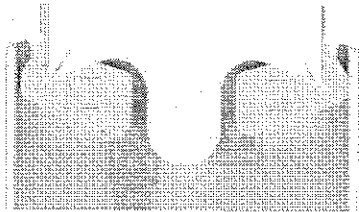


EXHIBIT "A"

Page 1 of 2

CUTTING LINE AGREEMENT ODE-STIMSON LUMBER

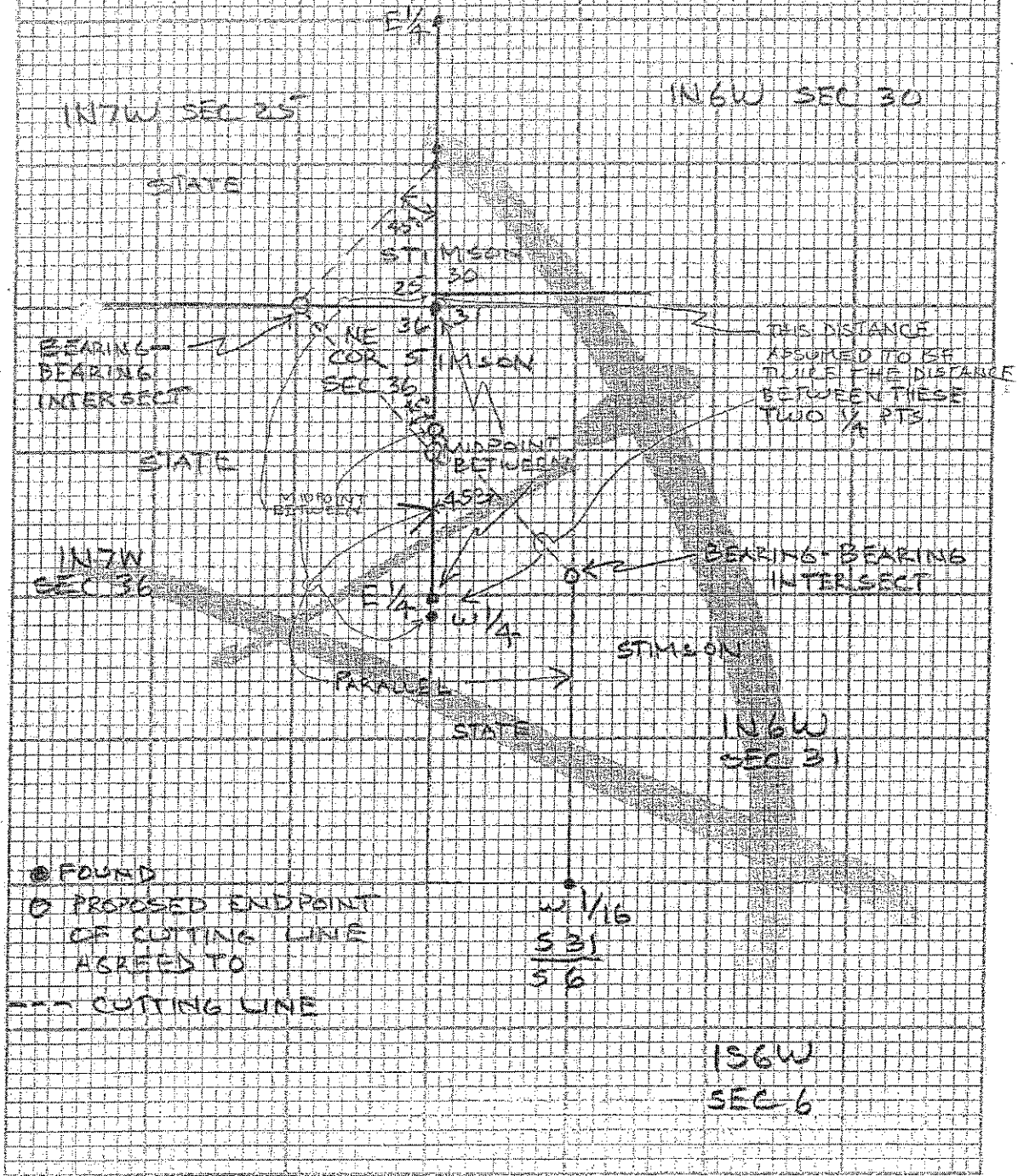


EXHIBIT "A"

We will occupy all found monuments and traverse through them to ensure proper closure.

We will occupy the midpoint between the calculated position of the NW corner of Section 31 and the found W1/4 of the same. We will turn 45 degrees from this midpoint heading southeasterly and perform a bearing-bearing intersection with the line turned northerly and parallel with the west boundary of Section 31 from the found W1/16 corner.

Similarly, we will occupy the midpoint between the found NE corner of Section 36 and the found E1/4 of the same. We will turn 45 degrees from this midpoint heading northwesterly and perform a bearing-bearing intersection with the line beginning at the E1/16 of Section 25, turning 45 degrees and heading southwesterly.

