



Timber Sale Appraisal  
Noble View  
Sale 341-11-55

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: October 27, 2010

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**cost summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$159,156.62	\$121,318.12	\$280,474.74
		<b>Project Work:</b>	\$(12,990.00)
		<b>Advertised Value:</b>	\$267,484.74



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**timber description**

**Location:** Portions of Section 32, T1N, R7W, and Section 5, T1S, R7W, W.M., Tillamook County, Oregon.

**Stand Stocking:** 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	95
Western Hemlock / Fir	20	0	95
Alder (Red)	13	0	90

Volume by Grade	10" - 11"	12"+	2S	3S	4S	6" - 7"	8" - 9"	Total
Douglas - Fir	0	0	210	841	350	0	0	1,401
Western Hemlock / Fir	0	0	0	70	12	0	0	82
Alder (Red)	166	14	0	0	0	392	176	748
Total	166	14	210	911	362	392	176	2,231



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**comments:** Pond Values Used: 3rd Quarter Calendar Year 2010 + Local Pond Values.

Western Red Cedar & Other Cedars Stumpage Price = Pond Value minus Logging Cost  
 $\$600/\text{MBF} = \$850/\text{MBF} - \$250/\text{MBF}$

Pulp (Conifer & Hardwood) Price =  $\$37.00/\text{MBF}$   
(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:  $\$2/\text{MBF} \times 2,231 \text{ MBF} = \$4,462$   
TOTAL Other Costs (with Profit & Risk to be added) =  $\$4,462$

Other Costs (No Profit & Risk added):  
OHV Filter Construction:  $\$75 \text{ each} \times 1 = \$75$   
TOTAL Other Costs (No Profit & Risk added) =  $\$75$

ROAD MAINTENANCE  
Maintenance Rock:  $(\$9.00/\text{cu. yd.} \times 3.5 \text{ miles} \times 20 \text{ cu. yd.}/\text{MMBF}/\text{mile} \times 2.231 \text{ MMBF})/2,231 \text{ MBF} = \$.63/\text{MBF}$

Final Maintenance:  
Grading -  $\$500/\text{Mile} \times 3.5 \text{ miles} \times 1 \text{ grading}/2,231 \text{ MBF} = \$.78/\text{MBF}$

Vibratory Roller:  $\$17.75/\text{station} \times 52.8 \text{ stations}/\text{mile} \times 2 \text{ miles}/2,231 = \$.84/\text{MBF}$   
TOTAL Maintenance Cost =  $\$2.25/\text{MBF}$



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logging conditions

combination#: 1            Douglas - Fir                    30.00%  
                                  Western Hemlock / Fir        5.00%  
                                  Alder (Red)                    35.00%

yarding distance: Long (1,500 ft)                    downhill yarding: No  
 logging system: Cable: Large Tower >=70            Process: Stroke Delimber  
 tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF  
 loads / day: 5.0    bd. ft / load: 3,700  
 cost / mbf: \$206.85

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

combination#: 2            Douglas - Fir                    20.00%  
                                  Western Hemlock / Fir        5.00%  
                                  Alder (Red)                    15.00%

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: 5.0    bd. ft / load: 3,700  
 cost / mbf: \$180.76

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

combination#: 3            Douglas - Fir                    50.00%  
                                  Western Hemlock / Fir        90.00%  
                                  Alder (Red)                    50.00%

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)



"STEWARDSHIP IN FORESTRY"

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**logging costs**

Operating Seasons:	1.00	Profit Risk:	15.00%
Project Costs:	\$12,990.00	Other Costs (P/R):	\$4,462.00
Slash Disposal:	\$0.00	Other Costs:	\$75.00

**Miles of Road**

Road Maintenance: \$2.25

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	3.7
Alder (Red)	\$0.00	3.0	3.1



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"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: October 27, 2010

**Local Pond Values**

Date	Specie	Grade	Value
9/27/10	Douglas - Fir	2S	\$400.00
9/27/10	Douglas - Fir	3S	\$365.00
9/27/10	Douglas - Fir	4S	\$355.00
9/27/10	Western Hemlock / Fir	2S	\$310.00
9/27/10	Western Hemlock / Fir	3S	\$285.00
9/27/10	Western Hemlock / Fir	4S	\$270.00
10/27/10	Alder (Red)	8" - 9"	\$465.00
10/27/10	Alder (Red)	10" - 11"	\$490.00
10/27/10	Alder (Red)	12"+	\$515.00
10/27/10	Alder (Red)	6" - 7"	\$395.00



"STEWARDSHIP IN FORESTRY"

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District: Tillamook

Date: October 27, 2010

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
<b>Douglas - Fir</b>									
\$152.92	\$2.36	\$1.97	\$60.87	\$2.00	\$33.02	\$0.00	\$5.00	\$0.03	\$258.17
<b>Western Hemlock / Fir</b>									
\$117.87	\$2.36	\$1.97	\$57.58	\$2.00	\$27.27	\$0.00	\$5.00	\$0.03	\$214.08
<b>Alder (Red)</b>									
\$154.23	\$2.48	\$1.97	\$72.00	\$2.00	\$34.90	\$0.00	\$5.00	\$0.03	\$272.61

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$367.75	\$109.58	\$0.00
Western Hemlock / Fir	\$0.00	\$282.80	\$68.72	\$0.00
Alder (Red)	\$0.00	\$434.80	\$162.19	\$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	1,401	\$109.58	\$153,521.58
Western Hemlock / Fir	82	\$68.72	\$5,635.04
Alder (Red)	748	\$162.19	\$121,318.12

**Gross Timber Sale Value**

Recovery: \$280,474.74

Prepared by: David Luttrell

Phone: 503-815-7025



## Pulp Appraisal

<b>Sale Name</b>	Noble View
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Species	Douglas-fir	Hemlock	**Alder	
Stems Per/ac.	89	4	97	0
Acres	118	118	118	0
Total Stems	10502	472	11446	0
BF/Stem, Conversion	10	10	10	10
Total MBF Per/Species	105	5	114	0
Pond Value Per/MBF	\$260	\$300	\$340	\$0
* Logging + Hauling Costs	\$213.79	\$213.79	\$299.89	\$0.00
Stumpage	\$46.21	\$86.21	\$40.11	\$0.00
Tons Per/MBF, Conversion	10	10	10	10
Price Per/Ton	\$4.62	\$8.62	\$4.01	\$0.00
Total Tons Per/Species	1050	47	1145	0
Total Value	\$4,852.97	\$406.91	\$4,590.99	\$0.00

	Total Price	Price/Ton	Price/MBF
	\$9,850.88	\$4.39	\$43.94
<b>Total Less P/R15%</b>	\$8,373.24	\$3.73	\$37.35

<b>*** Contract Price</b>	<b>\$37</b>
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\* Used Douglas-fir logging and hauling price for conifer.

\*\* Used 2nd quarter 2010 pond value for alder pulp

\*\*\* Pulp price rounded down to nearest whole dollar



"STEWARDSHIP IN FORESTRY"

## Noble View

### Volume Summary

Area 1-Modified Clearcut				
118 acres				
SPECIES	Gross MBF/Acre	Gross MBF	Hidden & Visible D&B	Net Vol MBF
Douglas-fir	12.5	1475	5.0%	1401
Hemlock	0.9	109	24.7%	82
		0	5.0%	0
		0	5.0%	0
Alder	7.3	860	13.1%	748
<b>TOTAL</b>	<b>20.7</b>	<b>2444</b>		<b>2231</b>

TOTAL SALE VOLUME			118 acres	
SPECIES	Gross Vol. (MBF)	Net Vol. (MBF)		
Douglas-fir	1475	1401		
Hemlock	109	82		
	0	0		
	0	0		
Red Alder	860	748		
<b>TOTAL</b>	<b>2444</b>	<b>2231</b>		



## PROJECT SUMMARY SHEET

Sale: Noble View

### CONSTRUCTION

Point	A to B	15+00	stations =	\$11,623.30
<b>SUBTOTAL CONSTRUCTION</b>				<b>\$11,623.30</b>

**MOVE IN** **\$1,366.70**

**GRAND TOTAL** **\$12,990.00**

# SUMMARY OF CONSTRUCTION COST

Sale: **Noble View** Road: **A to B**

Construction - 15+00 stations  
0.28 miles

**CONSTRUCTION:** CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	<u>Avg. Dist.</u> To W.A. (mi.)	<u>Outslope/Ditch</u>	Cost per Station	=		
0+00		15+00	30%		Outslope	\$191		\$2,865.00	
								<b>TOTAL</b>	<b>\$2,865.00</b>

<b>ROCK</b>									
0+00	to	15+00	830	cy. of	Crushed	@	\$8.20 per c.y.=	\$6,806.00	
Landing Rock		15+00	100	cy. of	Pit-Run	@	\$7.20 per c.y.=	\$720.00	
								<b>TOTAL ROCK</b>	<b>\$7,526.00</b>

<b>SPECIAL PROJECTS</b>									
Grade and shape road -			15.00	stations @		\$15.50	per station	\$232.50	
Roll subgrade w/ vibratory roller prior to rocking -			15.00	stations @		\$13.20	per station	\$198.00	
Remove large stumps -			1.00	jump sum @		\$650.00		\$650.00	
Grass seed and fertilize -			0.69	acres @		\$220.00	per acre	\$151.80	
								<b>TOTAL SPECIAL PROJECTS</b>	<b>\$1,232.30</b>

**GRAND TOTAL** **\$11,623.30**

## STOCKPILE & PIT RUN ROCK

Sale: **Noble View** Road: 930 c.y.  
 Total Truck Loads: 930 c.y.

Load Dump Truck: \$0.70 /cu.yd. x 930 cu.yds. = \$651.00  
 Subtotal \$651.00

Move in Roller and Compactor	1	@	\$348.45	=	\$348.45
Move in Grader	1	@	\$138.70	=	\$138.70
Move in Excavator	1	@	\$348.45	=	\$348.45
Move in Trucks	3	@	\$109.11	=	\$327.33
Move in Water Truck	1	@	\$128.26	=	\$128.26
				Subtotal	<u>\$1,291.19</u>

Base Cost= \$2.09 Per Cu.Yd. TOTAL PRODUCTION COSTS \$1,942.19

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 0 1500 (Crushed)	3.66	2.45	2.09	8.20	830	\$6,806.00
A to B Landing Rock (Pit-Run)	3.71	1.40	2.09	7.20	100	\$720.00
				Total C.Y.	<u>930</u>	Sub Total <u>\$7,526.00</u>
				TOTAL ROCKING COSTS		<u>\$7,526.00</u>

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

Sale: **Noble View**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
36.0	Pavement	30
2.0	Main Lines	7
3.0	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	Excavators (Large)	\$639.73	1	\$44.80	0.00	0.00	0	\$0.00	\$639.73
1	Tractor (D8)	\$612.39	2	\$15.10	0.00	0.00	0	\$0.00	\$612.39
1	Water Truck (1500 Gal)	\$114.58		\$2.85	0.00	0.00	0	\$0.00	\$114.58

	<b>TOTAL MOVE-IN COSTS:</b>	<b>\$1,366.70</b>
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TC		PSTNDSUM		Stand Table Summary										Page 1	
														Date: 9/23/2010	
TO1N R07W S32 Ty0100 118.00				Project NBLVIEW										Time: 9:40:36AM	
				Acres 118.00										Grown Year:	
S Spec T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
	DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF	9	1	81	112	4.608	2.04	9.22	7.8	40.0	2.04	72	369	241	84	43
DF	10	2	77	105	7.465	4.07	11.20	10.0	40.0	3.19	112	448	377	132	53
DF	11	4	75	73	12.639	8.14	21.89	8.4	30.0	5.21	183	657	615	216	78
DF	12	1	70	85	2.592	2.04	2.59	15.9	40.0	1.18	41	104	139	49	12
DF	13	3	79	108	6.626	6.11	13.25	15.8	60.0	5.96	209	795	703	247	94
DF	14	3	79	95	5.713	6.11	11.43	17.9	66.7	5.82	204	762	687	241	90
DF	15	8	80	95	13.271	16.29	26.54	19.7	69.4	14.89	523	1,841	1,758	617	217
DF	16	6	78	92	8.748	12.21	16.04	23.3	83.6	10.64	373	1,341	1,256	441	158
DF	17	4	79	88	5.166	8.14	10.33	23.2	76.3	6.83	240	788	806	283	93
DF	18	6	81	100	6.912	12.21	13.82	29.7	101.7	11.70	410	1,405	1,380	484	166
DF	19	4	80	81	4.136	8.14	6.20	31.6	101.7	5.59	196	631	659	231	74
DF	20	4	77	86	3.732	8.14	7.46	29.7	86.2	6.32	222	644	746	262	76
DF	21	2	81	112	1.693	4.07	3.39	44.3	140.0	4.27	150	474	504	177	56
DF	22	1	79	90	.771	2.04	1.54	32.8	115.0	1.44	51	177	170	60	21
DF	23	1	72	79	.693	2.00									
DF	24	1	80	113	.648	2.04	1.94	39.0	163.3	2.16	76	318	255	90	37
DF	25	2	82	93	1.184	4.04	1.79	43.3	186.7	2.21	78	334	261	91	39
DF	27	1	78	117	.512	2.04	1.54	49.7	203.3	2.19	76	312	259	90	37
DF	28	2	74	133	.952	4.07	3.33	46.3	185.7	4.40	154	619	519	182	73
DF	29	1	74	101	.444	2.04	.44	31.4	80.0	.40	14	36	47	16	4
DF	33	1	81	142	.343	2.04	1.37	65.0	325.0	2.54	89	446	300	105	53
DF	42	1	89	49	.208	2.00									
DF	Totals	59	78	94	89.055	120.00	165.33	21.0	75.6	98.99	3,473	12,500	11,681	4,098	1,475
RA	8	1	73	21	5.730	2.00	5.73	3.3	10.0	.52	19	57	61	22	7
RA	9	4	74	83	18.108	8.00	22.64	8.1	30.0	5.07	183	679	598	216	80
RA	11	4	77	61	12.122	8.00	15.15	11.2	38.0	4.65	169	576	548	199	68
RA	12	4	73	95	10.186	8.00	17.83	12.4	40.0	6.06	221	713	716	260	84
RA	13	10	76	101	21.698	20.00	39.06	14.8	53.3	15.92	578	2,083	1,879	682	246
RA	14	7	74	78	13.160	14.00	18.69	14.5	55.5	7.43	270	1,038	877	319	122
RA	15	3	76	58	4.889	6.00	8.15	12.9	32.0	2.90	105	261	342	124	31
RA	16	2	76	79	2.865	4.00	4.30	26.2	80.0	3.09	112	344	365	133	41
RA	17	4	80	86	5.075	8.00	10.15	24.2	83.8	6.75	245	850	796	289	100
RA	20	1	72	67	.917	2.00	1.83	30.3	75.0	1.53	55	138	180	65	16
RA	21	1	72	74	.832	2.00	1.66	32.6	90.0	1.53	54	150	181	64	18
RA	23	1	61	80	.693	2.00	1.39	18.2	65.0	.69	25	90	82	30	11
RA	24	1	77	50	.637	2.00	.64	71.2	140.0	1.25	45	89	147	53	11
RA	Totals	43	75	79	96.911	86.00	147.21	14.1	48.0	57.39	2,083	7,067	6,772	2,458	834
WH	16	1	81	79	1.432	2.00	2.86	19.1	70.0	1.75	55	201	207	65	24
WH	17	1	73	88	1.269	2.00	2.54	18.9	60.0	1.53	48	152	181	57	18
WH	22	2	73	74	1.515	4.00	3.03	38.2	40.0	3.81	116	121	449	136	14
WH	36	1	82	87	.283	2.00	.57	119.7	475.0	2.22	68	269	261	80	32
WH	Totals	5	76	80	4.499	10.00	9.00	31.8	82.5	9.31	286	743	1,099	338	88
SS	13	1	66	46	2.170	2.00									
SS	21	1	48	31	.832	2.00	.83	42.7	30.0	.92	36	25	109	42	3
SS	Totals	2	61	42	3.001	4.00	.83	42.7	30.0	.92	36	25	109	42	3
OH	10	1	99	12	3.667	2.00									
OH	Totals	1	99	12	3.667	2.00									
Totals		110	77	84	197.133	222.00	322.37	18.2	63.1	166.61	5,877	20,335	19,661	6,935	2,400





Log Stock Table - MBF

T01N R07W S32 Ty0100 118.00

Project: NBLVIEW  
Acres 118.00

Page 2  
Date 9/23/2010  
Time 9:36:10AM

Spp	S T	So Gr rt 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		CO 4	21		3		3.9			3												
WH		CO 4	29		4		5.1			4												
WH		CO 4	32		3		3.1			3												
WH		Totals			109	19.7	88	3.7		11	2	13	25	10				27				
DF		CO 2	26		17		1.2								17							
DF		CO 2	32		170		11.5							35		107		27				
DF		CO 2	40		44		3.0							44								
DF		CO 3	16		9		.6									9						
DF		CO 3	26		6		.4							6								
DF		CO 3	28		15		1.0			3	12											
DF		CO 3	32		409		27.7			83	107		161	33		24						
DF		CO 3	36		43		2.9				24		19									
DF		CO 3	40		400		27.1			12	144		220	24								
DF		CO 4	13		11		.7			11												
DF		CO 4	15		5		.4			5												
DF		CO 4	16		2		.1					2										
DF		CO 4	17		9		.6			7		2										
DF		CO 4	20		4		.3			4												
DF		CO 4	21		2		.1			2												
DF		CO 4	22		4		.3			4												
DF		CO 4	23		8		.5			5		2										
DF		CO 4	24		20		1.3			5	15											
DF		CO 4	25		14		1.0			12	2											
DF		CO 4	27		22		1.5			22												
DF		CO 4	29		2		.2			2												
DF		CO 4	30		10		.7			10												
DF		CO 4	31		7		.5			4	4											
DF		CO 4	32		39		2.6			39												
DF		CO 4	33		15		1.0			15												
DF		CO 4	34		24		1.6			24												
DF		CO 4	35		16		1.1			16												
DF		CO 4	36		24		1.6			13	10											
DF		CO 4	37		15		1.0			15												
DF		CO 4	38		5		.4			5												
DF		CO 4	40		104		7.1			48	56											
DF		Totals			1,475		1,475	61.5		269	185	292	400	143	17	141		27				

Log Stock Table - MBF

T01N R07W S32 Ty0100 118.00

Project: NBLVIEW  
Acres 118.00

Page 3  
Date 9/23/2010  
Time 9:36:10AM

S Spp	Gr rt	Log de 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+
SS	CO	UT 22	3		3	100.0				3								
SS		Totals	3		3	.1				3								
Total		All Species	2,447	2.0	2,400	100.0		280	629	501	609	168	17	141	54			

TC P5PCSTGR

**Species, Sort Grade - Board Foot Volumes (Project)**

T01N R07W S32 Ty0100 118.00

**Project: NBLVIEW**  
**Acres 118.00**

**Page 1**  
**Date 9/23/2010**  
**Time 9:38:00AM**

S Spp	So T	Gr. rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log			Logs Per /Acre	
				Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf		
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
RA	H	3	55	3.7	4,055	3,903	461		97	3			11	59	30	33	87	0.82	44.8	
RA	H	4	44	2.3	3,204	3,131	370		100				19	47	23	11	24	31	0.36	100.8
RA	H	UT	1		33	33	4		100				100				16	20	0.63	1.6
<b>RA Totals</b>			35	3.1	7,291	7,067	834		98	2			9	27	43	21	26	48	0.54	147.2
WH	CO	3	85	22.3	821	638	75		51	13	36			57	43	33	133	1.57	4.8	
WH	CO	4	15		105	105	12	86	14				14	64	22		25	25	0.37	4.2
<b>WH Totals</b>			4	19.7	926	743	88	12	46	11	31		2	9	52	37	29	83	1.09	9.0
DF	CO	D														32		0.00	1.4	
DF	CO	2	15		1,961	1,961	231			42	58			7	73	19	33	270	2.09	7.3
DF	CO	3	60		7,473	7,473	882		89	11			1	2	46	50	35	108	0.86	69.4
DF	CO	4	25		3,066	3,066	362	74	26				8	23	28	41	30	35	0.33	88.6
<b>DF Totals</b>			61		12,500	12,500	1,475	18	59	13	9		3	8	46	43	32	75	0.65	166.7
SS	CO	UT	100		25	25	3		100					100			22	30	1.94	.8
<b>SS Totals</b>			0		25	25	3		100					100			22	30	1.94	.8
<b>Totals</b>				2.0	20,741	20,335	2,400	12	72	9	7		5	15	45	35	29	63	0.62	323.8



## OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Noble View*

### 1. Type of Sale

Regeneration harvest, Recovery

### 2. Legal Description

Portions of Section 32, T1N, R7W, and Section 5, T1S, R7W, W.M., Tillamook County, Oregon.

### 3. Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

	<b>ACRES</b>	
	<u>Gross</u>	<u>Net</u>
<b>Area 1 (Clearcut)</b>	121	118

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 20 variable radius plots were used on the sale area, spaced on a rectangular grid of 350' x 750'. All plots were full cruise plots. All conifers 8 inches DBH and greater containing 20 net board feet and all hardwoods 9 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.

The standard error and the coefficient of variation for the cruise as based on Net/BF per acre shown in the table below.

	Coefficient of Variation %	Standard Error %
Area 1	53.2	12.2

#### 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.

#### **6. Hidden Defect and Breakage**

5% hidden defect and breakage was taken on conifers and 10% hidden defect and breakage was taken on hardwoods. There was an additional 3.1 percent visible defect for Alder and 19.7 percent visible defect for Hemlock.

#### **7. Timber Description**

The entire area was burned in the 1933 and the 1939 Tillamook burns. Approximately 15 acres on the ridge top was planted around 1957. Approximately 68 additional acres mostly on the upper portions of the area were planted around 1960. The rest of the sale appears to be natural regeneration.

Approximately 56 acres of alder was sprayed in 1977, the alder in these areas have short boles and multiple tops. There has not been any other management activity in this area. The hemlock defect is high due to top breakage and rot. See attached volume summary for more stand information.

#### **8. Cruiser Names/Dates**

Contract 2010, Chris Woodward

#### **9. Revenue Distribution**

FDF: 100%

Tax Code: 9-2

Deed Numbers: 159, 161

#### **10. Attachments**

Stand Table

Volume Summaries

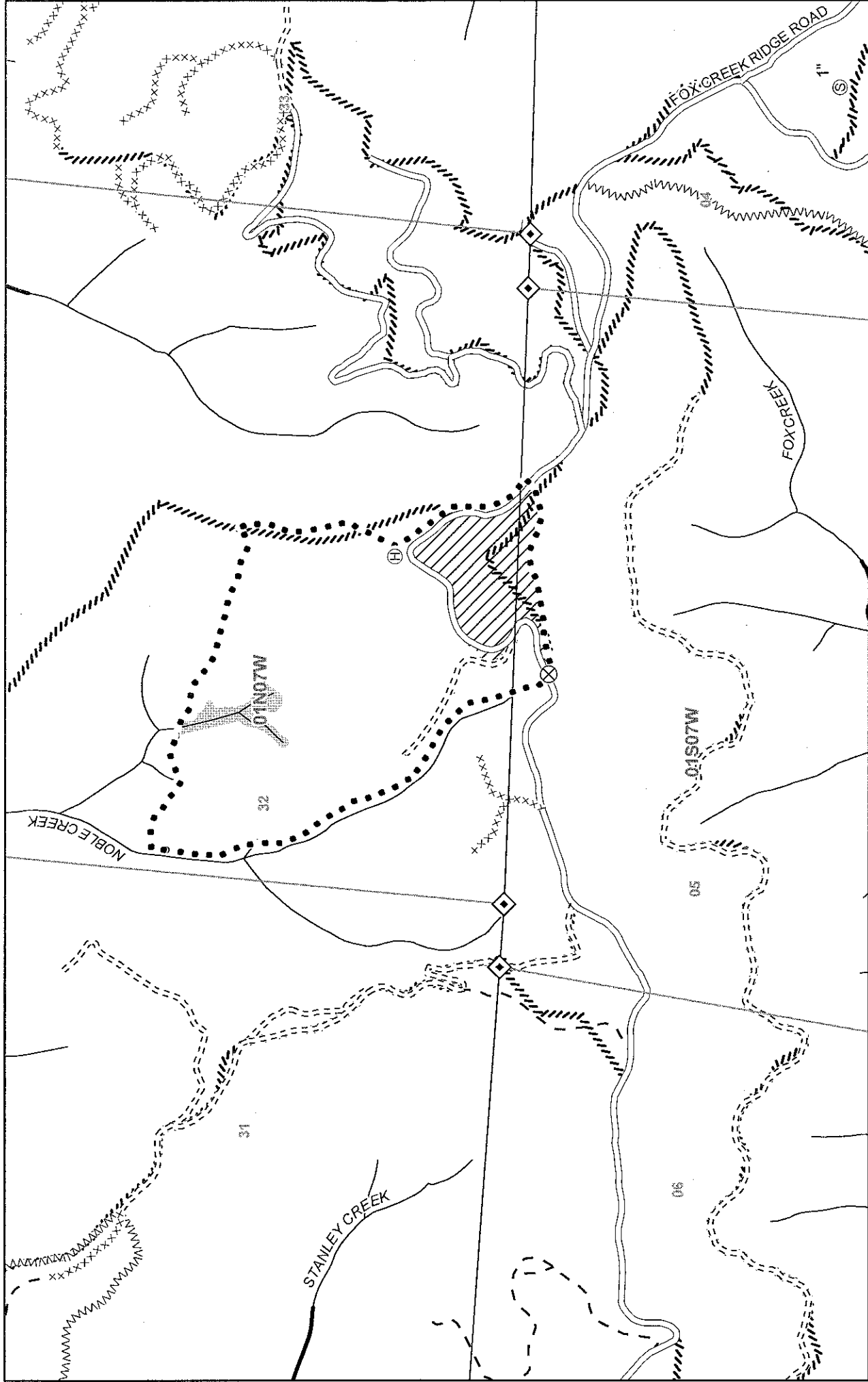
Log Stock Tables

Logging Plan

#### **11. Stand and Log Stock Tables Species Key**

DL – Douglas-fir leave

DF – Douglas-fir take  
OH – Other hardwoods  
RL – Red alder leave  
RA – Red alder take  
RC – Western red cedar reserved  
SL – Sitka spruce leave  
SS – Sitka spruce take  
WL – Western hemlock leave  
WH – Western hemlock take



**LOGGING PLAN**  
 Timber Sale Contract No. 341-11-55  
 NOBLE VIEW  
 Portions of Section 32, T1N, R7W, and  
 Section 5, T1S, R7W, W.M.,  
 Tillamook County, Oregon

Scale: 1,000 Feet

North Arrow

Type of		Acres	
Area	Operation	Gross	Net
1	Modified	clearcut	121 118
<b>Total</b>			<b>121 118</b>

Tillamook District GIS  
 09/15/2010  
 This product is for informational use and may not have been prepared or suitable for legal, engineering, or surveying purposes.

<ul style="list-style-type: none"> <li>Rock source</li> <li>Stock pile</li> <li>Waste area</li> <li>Bridge</li> <li>Gate</li> <li>Survey corner</li> <li>Domestic water supply intake</li> <li>Truck turn-around</li> <li>Helicopter landing zone</li> <li>Cultural site</li> </ul>	<ul style="list-style-type: none"> <li>Landing</li> <li>Buffer</li> <li>Non-required thinning</li> <li>Cable yarding</li> <li>Ground yarding</li> <li>Helicopter yarding</li> <li>Downhill yarding</li> <li>Green tree retention area</li> </ul>	<ul style="list-style-type: none"> <li>Area boundary</li> <li>Sale boundary</li> <li>Ownership boundary</li> <li>Perennial Type-F stream</li> <li>Perennial Type-N stream</li> <li>Unsurfaced road</li> <li>Surfaced road</li> <li>Paved road</li> <li>Abandoned road</li> </ul>	<ul style="list-style-type: none"> <li>Swing road</li> <li>Non-project road</li> <li>Non-project blocked road</li> <li>OHV trail</li> <li>Non-motorized trail</li> <li>Transmission line</li> <li>Railroad</li> <li>Trail filter</li> <li>Helicopter landing</li> </ul>
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