PART IV: OTHER INFORMATION

State Timber Sale Contract
No. 341-10-87
North Coal

NOTICE OF TRANSFER OF STATE TIMBER

Instructions **629:-Form-301-010**

Complete Section 1. Mark the box which applies to you/your company in Section 2. Complete Section 3 and obtain signatures.

SECTION 1

On _____, state timber sale purchaser (Transferor)
_____, sold, exchanged or otherwise transferred to
_____, (Transferee) state timber originating from State
Timber Sale Contract No. _____.

Transferee hereby certifies that they:

(a) Will not export the unprocessed state timber which is the subject of this transaction;

(b) Will not sell, transfer, exchange or otherwise convey the unprocessed timber which is the subject of this transaction to any other person without first obtaining a like certification from that person.

(c) Are not prohibited by OAR's 629-31-005 through 045 from purchasing state timber or logs directly from the State Forester, or this is a sale of Western Red Cedar for domestic processing.

SECTION 2

☐ Have not exported unprocessed timber originating from private lands in Oregon in the last 24 months.
☐ This is a sale of hardwood logs for domestic processing.
☐ This is a sale of Western Red Cedar for domestic processing.
☐ This is a sale of pulp logs or cull logs processed at domestic pulp mills, domestic chip plants or other domestic operations for the purpose of conversion of the logs into chips.

SECTION 3

The parties understand that falsely entering into this certification, or failure to comply with the terms of this certification is a violation of the Forest Conservation and Shortage Relief Act of 1990 and OAR Chapter 629, Division 31, and is subject to any and all penalties contained therein.

Transferor:	Transferee:
_____ Signed	_____ Signed
_____ Title	_____ Title
_____ Dated	_____ Dated

[Note: For the purpose of this form, the definition of unprocessed timber is the same as in OAR 629-31-005]

Mail To: State Forester
2600 State Street
Salem, OR 97310

State Timber Sale Contract
No. 341-10-87
North Coal

"STEWARDSHIP IN FORESTRY"

WRITTEN PLAN

SALE NAME: **North Coal**, 341-10 -87

PROTECTED WATERS: **Fall Creek** a small Type 'F' Stream.

DEFINITIONS: Stream buffer: at least 100 feet horizontal distance from the high water mark on each side of the stream.

LOCATION: Portions of Section 1, T3N, R10W, W.M., Tillamook County, Oregon.

ACTIVITY: Cable lines across stream.

PROTECTION MEASURES:

- All trees in the RMA are reserved from cutting.
- Cable yarding lines will be pulled out of the RMA prior to rigging the next yarding road.
- If trees or logs fall or slide into a stream channel they not be limbed, bucked, or removed without prior approval from ODF.
- Cable lines will be an average of at least 150 feet apart where they extend over or through the Type F stream and buffer.

DATE: 04/13/2010

PREPARED BY: **David Luttrell**

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Coal
Sale 341-10-87

District: Tillamook **Date:** April 19, 2010

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$60,353.18	$0.00	$60,353.18
		Project Work:	$(17,480.00)
		Advertised Value:	$42,873.18

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Coal
Sale 341-10-87

District: Tillamook **Date: April 19, 2010**

timber description

Location: Portions of Section 1, T3N, R10W, W.M., Tillamook County, Oregon.

Stand Stocking: 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	95
Western Hemlock / Fir	15	0	95

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	76	56	8	140
Western Hemlock / Fir	61	217	33	311
Total	137	273	41	451

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Coal
Sale 341-10-87

District: Tillamook **Date: April 19, 2010**

comments: Pond Values Used: 1st Quarter Calendar Year 2010.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
$570/MBF = $820/MBF - $250/MBF

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost
$270/MBF = $520/MBF - $250/MBF

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

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):
Brand and Paint: $1/MBF x 470 MBF = $470
TOTAL Other Costs (with Profit and Risk to be added) = $470

Other Costs (No Profit & Risk added):
Stimson road use fee: $598.55
TOTAL other costs (No Profit & Risk added) = $598.55

ROAD MAINTENANCE

Maintenance Rock: ($8.00/cu. yd. x 2.0 miles x 25 cu. yd./MMBF/mile x .470 MMBF)/470 MBF = $0.40/MBF

Final Maintenance:
Grading - $500/Mile x 2.0 miles x 1 grading/470 MBF = $.2.12/MBF

TOTAL Maintenance Cost= $2.53/MBF

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Coal
Sale 341-10-87

District: Tillamook **Date: April 19, 2010**

logging conditions

combination#: 1 Douglas - Fir 100.00%

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: 6.0 **bd. ft / load:** 4,500
cost / mbf: $104.97

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

combination#: 2
Western Hemlock / Fir 100.00%

yarding distance: Medium (800 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: 5.0 **bd. ft / load:** 3,700
cost / mbf: $153.20

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

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Coal
Sale 341-10-87

District: Tillamook **Date:** April 19, 2010

logging costs

Operating Seasons:	1.00	**Profit Risk:**	10.00%
Project Costs:	$17,480.00	**Other Costs (P/R):**	$470.00
Slash Disposal:	$0.00	**Other Costs:**	$598.55

Miles of Road

Road Maintenance: $2.53

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	2.0	3.4
Western Hemlock / Fir	$0.00	3.0	3.3

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Coal
Sale 341-10-87

District: Tillamook **Date: April 19, 2010**

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
$104.97	$2.66	$9.72	$98.26	$1.04	$21.66	$0.00	$5.00	$1.33	$244.64
Western Hemlock / Fir									
$153.20	$2.66	$9.72	$67.49	$1.04	$23.41	$0.00	$5.00	$1.33	$263.85

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$447.86	$203.22	$0.00
Western Hemlock / Fir	$0.00	$366.43	$102.58	$0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Coal
Sale 341-10-87

District: Tillamook **Date:** April 19, 2010

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	$0.00	$0.00
Western Hemlock / Fir	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	140	$203.22	$28,450.80
Western Hemlock / Fir	311	$102.58	$31,902.38

Gross Timber Sale Value

Recovery: $60,353.18

Prepared by: David Luttrell **Phone:** 503-815-7025

"STEWARDSHIP IN FORESTRY"

PROJECT SUMMARY SHEET

Sale: North Coal

CONSTRUCTION

Point	C to D	9+00	stations =	$6,602.34
			SUBTOTAL CONSTRUCTION	**$6,602.34**

IMPROVEMENT

Point	A to B	103+30	stations =	$5,440.68
			SUBTOTAL IMPROVEMENT	**$5,440.68**

RECONSTRUCTION

Point	C to D	1+00	stations =	$1,989.86
			SUBTOTAL RECONSTRUCTION	**$1,989.86**

SPECIAL PROJECTS

Brush - A to B	2.0	miles of road		$1,200.00
			SUBTOTAL SPECIAL PROJECTS	**$1,200.00**

MOVE IN **$2,247.12**

GRAND TOTAL **$17,480.00**

SUMMARY OF CONSTRUCTION COST

Sale: **North Coal** Road: **A to B**

Construction -	0+00	stations	Improvement -	103+30	stations	Reconstruction -	0+00	stations
	0.00	miles		1.96	miles		0.00	miles

Ditchline Cleanout	0+00 to 103+30	298	cy. @	$1.40	per c.y.=	$417.20		
						TOTAL EXCAVATION		**$417.20**

CULVERTS - MATERIALS & INSTALLATION

		Culverts						
0+60		30	LF of 18"	$525.00				
		Culvert Stakes & Markers						
		1	stakes	$8.00				
				$8.00				
							TOTAL CULVERTS	**$533.00**

ROCK

0+00	to	4+00	110	cy. of	Crushed	@	$6.83	per c.y.=	$751.30	
97+00	to	103+30	90	cy. of	Crushed	@	$8.81	per c.y.=	$792.90	
Junction		0+00 to 0+30	30	cy. of	Crushed	@	$7.20	per c.y.=	$216.00	
									TOTAL ROCK	**$1,760.20**

SPECIAL PROJECTS

Remove gate assembly -	0.50	hours @	$145.00	per hour	$72.50
Construct waste areas -	1.00	hours @	$145.00	per hour	$145.00
Grade and shape road & sweep brush from ditchline-	103.30	stations @	$15.50	per station	$1,601.15
Re-process existing surfacing- 0+00 to 30+75	30.75	stations @	$27.50	per station	$845.63
Grass seed and fertilize -	0.30	acres @	$220.00	per acre	$66.00
				TOTAL SPECIAL PROJECTS	**$2,730.28**

GRAND TOTAL **$5,440.68**

SUMMARY OF CONSTRUCTION COST

Sale: North Coal Road: C to D

Construction -	9+00	stations	Improvement -	0+00	stations	Reconstruction -	1+00	stations
	0.17	miles		0.00	miles		0.02	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, DRIFTING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
1+00		6+50	30%		Outsloped	$191	=	$1,050.50	
6+50		8+50	60%		Outsloped	$1,493	=	$2,986.00	
8+50		10+00	30%		Outsloped	$191	=	$286.50	
								TOTAL	**$4,323.00**

RECONSTRUCTION: CLEARING AND GRUBBING - 0+00 to 1+00

Enhaul to W.A. - Station 78+90 Segment A to B	0.060	acres @	$1,500.00	per acre =	$90.00	
					TOTAL CLEARING AND GRUBBING	**$90.00**

RECONSTRUCTION: EXCAVATION - 0+00 to 1+00

Reconstruct Approach	2.00	hrs. @	$145.00	per hr. =	$290.00	
Waste Material Removal	203	cy. @	$1.40	per c.y.=	$284.20	
Widening	217	cy. @	$1.40	per c.y.=	$303.80	
					TOTAL EXCAVATION	**$878.00**

RECONSTRUCTION: ENDHAUL - 0+00 to 1+00

Waste Material Removal	0+00	to	1+00	203	cy. @	$1.58	per c.y.=	$320.74
Widening	0+00	to	1+00	217	cy. @	$1.58	per c.y.=	$342.86
Spread & compact				420	cy. @	$0.25	per c.y.=	$105.00
							TOTAL ENDHAUL	**$768.60**

ROCK

0+00	to	1+00	80	cy. of	Pit-Run	@	$9.18	per c.y.=	$734.40
								TOTAL ROCK	**$734.40**

SPECIAL PROJECTS

Grade and shape road -	10.00	stations @	$14.00	per station	$140.00	
Roll subgrade w/ vibratory roller -	10.00	stations @	$13.20	per station	$132.00	
Remove large stumps -	1.00	lump sum @	$675.00		$675.00	
Construct Landings & TA	3.00	@	$250.00	total	$750.00	
Grass seed and fertilize -	0.46	acres @	$220.00	per acre	$101.20	
					TOTAL SPECIAL PROJECTS	**$1,798.20**

GRAND TOTAL **$8,592.20**

ROCK COST SUMMARY

Pit:	Crushed & Pit-run	Stockpile Location:	SW 1/4 Section 10 T3N R9W W.M.
Sale:	**North Coal**		North Fork Nehalem (County Quarry Site)
		Pit-Run	80 c.y.
		Stockpile:	230 c.y.
		Total Truck Loads:	310 c.y.

Load Rock From Stockpile & Pit:	$0.60	/cu.yd.	x	310	cu.yds. =	$186.00
					Subtotal	$186.00
Move in Excavator -(From Work Area)	1	@		$224.00	=	$224.00
Move in Trucks	3	@		$119.43	=	$358.29
					Subtotal	$582.29
					TOTAL PRODUCTION COSTS	$768.29

Base Cost= $2.48 Per Cu.Yd.

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 0 400 (Crushed)	3.05	1.30	2.48	6.83	110		$751.30
A to B 9700 10330 (Crushed)	5.03	1.30	2.48	8.81	90		$792.90
A to B Junction (Crushed)	3.42	1.30	2.48	7.20	30		$216.00
C to D 0 100 (Pit-Run)	5.60	1.10	2.48	9.18	80		$734.40
				Total C.Y.	310	Sub Total	$2,494.60
					TOTAL ROCKING COSTS		$2,494.60

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Pit run	Location:	SW 1/4 Section 15 T3N R9W W.M.
Sale:	**North Coal**	Road:	c.y.
Swell:	1.30	Stockpile:	c.y.
Shirinkage	1.16	Total Truck Loads:	c.y.
Drill Pct.:	0%	In Place Total:	c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.							$780.00
Rip Rock:	$1.90	/cu.yd.	x	0	cu.yds.	=	$0.00
Load Dump Truck:	$0.70	/cu.yd.	x	0	cu.yds.	=	$0.00
					Subtotal		$780.00
Move in Excavator	1		@	$130.00	=		$130.00
					Subtotal		$130.00
					TOTAL PRODUCTION COSTS		$910.00

Base Cost= $0.00 Per Cu.Yd.

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
C to D Landing Rock (Pit-Run)	1.25	1.40	0.00	2.65	0		$0.00
				Total C.Y.	0	Sub Total	$0.00
						TOTAL ROCKING COSTS	$0.00

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

Sale: **North Coal**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
50.0	Pavement	30
2.0	Main Lines	7
1.0	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	Graders	$409.29		$3.65	0.00	0.00	0	$0.00	$409.29
1	Rollers (smooth/grid) & Compactors	$377.58		$5.00	0.00	0.00	0	$0.00	$377.58
1	Excavators (Large)	$599.20	1	$44.80	0.00	0.00	0	$0.00	$599.20
1	Tractors (D7)	$561.39	2	$11.30	0.00	0.00	0	$0.00	$561.39
1	Dump Truck (10 cy +)	$151.46		$2.85	0.00	0.00	0	$0.00	$159.28
1	Water Truck (2500 Gal)	$140.38		$2.85	0.00	0.00	0	$0.00	$140.38
					TOTAL MOVE-IN COSTS:				$2,247.12

"STEWARDSHIP IN FORESTRY"

North Coal

Volume Summary

Area 1-Partial cut				
		20 acres		
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF
Douglas-fir	7.4	148	5%	141
Hemlock	16.4	327	5%	311
TOTAL	23.8	475		452

TOTAL SALE VOLUME	20 acres	
SPECIES	Gross Vol. (MBF)	Net Vol. (MBF)
Douglas-fir	148	141
Hemlock	327	311
TOTAL	475	452

TC TSTNDSUM

Stand Table Summary

Project NCOAL

T03N R10W S01 TPC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	10W	01	AREA1_NC	PC	20.00	12	84

T03N R10W S01 TPC

Date: 03/09/201(

Time: 4:50:34PM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
WL		11	1	96	63	6.874	4.54	6.87	7.2	28.5	1.57	49	196	31	10	4
WL		13	1	94	110	4.922	4.54	9.84	13.5	52.3	4.26	133	514	85	27	10
WL		18	1	90	123	2.567	4.54	7.70	26.4	110.8	6.51	203	854	130	41	17
WL		20	3	91	136	6.238	13.61	16.64	37.6	165.1	20.02	626	2,746	400	125	55
WL		21	2	86	123	3.772	9.07	11.32	35.6	147.2	12.91	403	1,666	258	81	33
WL		23	2	91	116	3.145	9.07	7.86	50.2	209.0	12.63	395	1,643	253	79	33
WL		24	3	89	134	4.332	13.61	13.00	49.7	217.4	20.67	646	2,826	413	129	57
WL		25	3	89	139	3.993	13.61	11.98	57.4	267.1	22.01	688	3,199	440	138	64
WL		26	1	82	145	1.230	4.54	3.69	56.9	218.5	6.72	210	807	134	42	16
WL		27	2	88	148	2.282	9.07	7.99	61.9	301.3	15.82	494	2,406	316	99	48
WL		28	2	93	157	2.122	9.07	6.37	78.0	392.7	15.90	497	2,500	318	99	50
WL		30	2	82	147	1.848	9.07	5.55	75.3	345.2	13.36	418	1,914	267	84	38
WL		32	2	84	126	1.625	9.07	4.06	99.6	419.9	12.94	405	1,705	259	81	34
WL		35	1	76	135	.679	4.54	1.36	134.7	456.0	5.85	183	619	117	37	12
WL		41	1	75	160	.495	4.54	.99	163.6	598.5	5.18	162	592	104	32	12
WL		Totals	27	90	121	46.124	122.49	115.21	47.8	209.9	176.37	5,512	24,187	3,527	1,102	484
WH		10	1	92	80	8.318	4.54	8.32	11.6	38.0	3.08	96	316	62	19	6
WH		11	1	88	80	6.874	4.54	13.75	11.2	42.7	4.92	154	588	98	31	12
WH		12	1	89	85	5.776	4.54	5.78	17.1	57.0	3.17	99	329	63	20	7
WH		13	1	94	83	4.922	4.54	9.84	12.4	52.3	3.91	122	514	78	24	10
WH		14	2	88	114	8.488	9.07	16.98	18.6	68.9	10.09	315	1,169	202	63	23
WH		15	2	85	93	7.394	9.07	14.79	21.6	78.4	10.21	319	1,159	204	64	23
WH		16	1	86	108	3.249	4.54	9.75	20.5	85.5	6.38	199	833	128	40	17
WH		17	3	81	124	8.634	13.61	20.15	28.2	103.1	18.17	568	2,078	363	114	42
WH		18	2	84	122	5.134	9.07	10.27	33.1	116.4	10.86	339	1,195	217	68	24
WH		19	4	87	109	9.216	18.15	18.43	36.4	129.4	21.48	671	2,386	430	134	48
WH		20	1	88	142	2.079	4.54	6.24	36.1	148.8	7.20	225	928	144	45	19
WH		21	2	87	138	3.772	9.07	9.43	41.4	163.4	12.49	390	1,541	250	78	31
WH		23	1	81	125	1.572	4.54	3.14	58.6	204.3	5.90	184	642	118	37	13
WH		24	1	84	130	1.444	4.54	2.89	56.6	190.0	5.23	164	549	105	33	11
WH		26	1	94	149	1.230	4.54	3.69	68.7	354.7	8.12	254	1,309	162	51	26
WH		Totals	24	87	105	78.104	108.88	153.44	26.7	101.3	131.21	4,100	15,538	2,624	820	311
DL		16	1	85	114	3.249	4.54	6.50	26.8	99.7	4.80	174	648	96	35	13
DL		20	1	94	133	2.079	4.54	6.24	34.6	171.0	5.94	216	1,067	119	43	21
DL		21	1	76	140	1.886	4.54	3.77	45.6	137.7	4.73	172	520	95	34	10
DL		23	1	83	140	1.572	4.54	4.72	39.1	158.3	5.08	185	747	102	37	15
DL		24	2	89	134	2.888	9.07	8.66	48.5	215.3	11.56	420	1,866	231	84	37
DL		25	1	89	146	1.331	4.54	3.99	59.8	285.0	6.57	239	1,138	131	48	23
DL		27	2	81	149	2.282	9.07	6.85	60.2	245.4	11.34	412	1,680	227	82	34
DL		30	1	71	180	.924	4.54	3.70	68.0	273.1	6.91	251	1,010	138	50	20
DL		35	1	76	161	.679	4.54	2.04	90.3	310.3	5.06	184	632	101	37	13
DL		38	1	84	180	.576	4.54	1.73	134.4	665.0	6.39	232	1,149	128	46	23
DL		Totals	12	84	139	17.467	54.44	48.19	51.6	217.0	68.36	2,486	10,456	1,367	497	209
DF		12	1	95	95	5.776	4.54	5.78	18.5	66.5	3.05	107	384	61	21	8
DF		13	1	95	79	4.922	4.54	9.84	13.5	52.3	3.80	133	514	76	27	10
DF		18	2	86	135	5.134	9.07	12.84	31.1	119.7	11.37	399	1,536	227	80	31
DF		20	1	83	137	2.079	4.54	6.24	34.3	136.2	6.10	214	849	122	43	17
DF		21	2	87	141	3.772	9.07	11.32	38.2	169.4	12.32	432	1,917	246	86	38
DF		22	1	92	141	1.719	4.54	5.16	44.2	202.7	6.50	228	1,045	130	46	21
DF		23	1	86	120	1.572	4.54	4.72	41.7	167.8	5.61	197	792	112	39	16

TC TSTNDSUM

Stand Table Summary

Project NCOAL

T03N R10W S01 TPC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	10W	01	AREA1_NC	PC	20.00	12	84

T03N R10W S01 TPC

Date: 03/09/201(

Time: 4:50:34PM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		Totals	9	90	115	24.975	40.83	55.88	30.6	125.9	48.76	1,711	7,038	975	342	141
RC		10	1	84	42	8.318	4.54	8.32	5.8	19.0	1.13	48	158	23	10	3
RC		15	1	74	90	3.697	4.54	7.39	20.9	57.0	3.62	154	421	72	31	8
RC		16	1	72	60	3.249	4.54	3.25	40.2	76.0	3.07	131	247	61	26	5
RC		20	1	83	105	2.079	4.54	4.16	36.8	109.2	3.60	153	454	72	31	9
RC		Totals	4	80	63	17.343	18.15	23.12	21.0	55.4	11.42	486	1,281	228	97	26
OC		5	1	81	40	33.271	4.54									
OC		9	1	98	17	10.269	4.54									
OC		10	1	73	30	8.318	4.54									
OC		11	1	88	75	6.874	4.54									
OC		12	1	88	70	5.776	4.54									
OC		60	2	99	14	.462	9.07									
OC		75	1	98	17	.148	4.54									
OC		Totals	8	84	41	65.119	36.29									
Totals			84	86	92	249.133	381.08	395.84	36.1	147.8	436.12	14295	58,500	8,722	2,859	1,170

TC TLOGSTVB

Log Stock Table - MBF

Project: NCOAL

T03N R10W S01 TPC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	10W	01	AREA1_NC	PC	20.00	12	84

T03N R10W S01 TPC
Page 1
Date 3/9/2010
Time 4:48:29PM

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+
WL		8	2	17	2	5.0	2	.5								2				
WL		8	2	38	12	5.0	12	2.4									12			
WL		8	2	40	334	5.0	317	65.6						17	77	157	57	9		
WL		8	3	20	2	5.0	2	.4						2						
WL		8	3	21	1	5.0	1	.1			1									
WL		8	3	28	2	5.0	2	.4					2							
WL		8	3	32	6	5.0	6	1.2				3		3						
WL		8	3	37	2	5.0	2	.4			2									
WL		8	3	40	128	5.0	122	25.2			5	19	25	21	11		40			
WL		8	4	13	1	5.0	1	.1			1									
WL		8	4	16	6	5.0	5	1.1		2		4								
WL		8	4	17	3	5.0	3	.6		2	1									
WL		8	4	18	2	5.0	2	.4		2										
WL		8	4	19	1	5.0	1	.1				1								
WL		8	4	21	1	5.0	1	.1		1										
WL		8	4	22	2	5.0	2	.3		1		1								
WL		8	4	23	1	5.0	1	.2			1									
WL		8	4	24	1	5.0	1	.2			1									
WL		8	4	27	1	5.0	1	.1		1										
WL		8	4	31	1	5.0	1	.2			1									
WL		8	4	38	1	5.0	1	.2		1										
WL		Totals			509	5.0	484	41.3		8	12	28	27	44	88	160	108	9		
WH		8	2	40	65	5.0	61	19.7							45		16			
WH		8	3	28	3	5.0	2	.8			2									
WH		8	3	32	17	5.0	17	5.3				17								
WH		8	3	35	1	5.0	1	.5			1									
WH		8	3	38	4	5.0	4	1.2			4									
WH		8	3	40	203	5.0	193	62.0			27	32	74	41	19					
WH		8	4	16	1	5.0	1	.2		1										
WH		8	4	17	1	5.0	1	.4		1										
WH		8	4	18	3	5.0	3	1.1		3										
WH		8	4	19	4	5.0	4	1.2		4										
WH		8	4	20	2	5.0	2	.5		2										
WH		8	4	22	1	5.0	1	.3		1										
WH		8	4	28	4	5.0	4	1.2		4										
WH		8	4	32	1	5.0	1	.4		1										
WH		8	4	36	3	5.0	3	.9		3										
WH		8	4	37	3	5.0	3	1.0			3									
WH		8	4	38	1	5.0	1	.4		1										
WH		8	4	40	10	5.0	9	3.0		6	3									
WH		Totals			327	5.0	311	26.6		27	40	49	74	41	64		16			
DL		8	2	36	14	5.0	14	6.5								14				
DL		8	2	40	137	5.0	130	62.3						5	38	56	17	14		
DL		8	3	31	1	5.0	1	.5				1								
DL		8	3	32	7	5.0	6	3.0					6							
DL		8	3	40	56	5.0	54	25.7			5	6	22	13	7					
DL		8	4	16	1	5.0	1	.3			1									
DL		8	4	17	1	5.0	1	.4			1									

TC TLOGSTVB

Log Stock Table - MBF

Project: NCOAL

T03N R10W S01 TPC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	10W	01	AREA1_NC	PC	20.00	12	84

T03N R10W S01 TPC

Date 3/9/2010

Time 4:48:29PM

Spp	ST	Sort	Grade	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+
DL	8	4	20		1	5.0	1	.3		1										
DL	8	4	21		0	5.0	0	.1		0										
DL	8	4	25		1	5.0	1	.6		1										
DL	8	4	26		1	5.0	1	.4				1								
DL			Totals		220	5.0	209	17.9		2		8	7	28	19	45	70	17	14	
DF	8	2	40		80	5.0	76	54.1							29	34	13			
DF	8	3	40		59	5.0	56	40.0				13	14	22	7					
DF	8	4	18		2	5.0	2	1.3		2										
DF	8	4	22		1	5.0	1	.4		1										
DF	8	4	26		1	5.0	1	.8		1										
DF	8	4	34		2	5.0	2	1.1		2										
DF	8	4	38		1	5.0	1	.9		1										
DF	8	4	40		2	5.0	2	1.4		2										
DF			Totals		148	5.0	141	12.0		8		13	14	22	36	34	13			
RC	8	3	38		5	5.0	5	19.3					5							
RC	8	3	40		15	5.0	14	55.5					6		8					
RC	8	4	20		3	5.0	3	12.3		3										
RC	8	4	28		2	5.0	2	8.2		2										
RC	8	4	31		1	5.0	1	4.6		1										
RC			Totals		27	5.0	26	2.2		6			11		8					
Total All Species					1,232	5.0	1,170	100.0		51		73	109	151	147	231	242	142	23	

"STEWARDSHIP IN FORESTRY"

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
North Coal

1. Type of Sale

Thinning, Recovery

2. Legal Description

Section 1, T 3 N, R 10 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	
	Gross	Net
Area 1 (Partial Cut)	21	20

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 12 variable radius plots were taken on the sale area, spaced on a square grid of 250' x 250' at an azimuth of 110°. 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 54.44 was used, the point of observation 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 9.4% and the coefficient of variation was 85.8 % based on 61 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

The sale area was railroad logged in the late 1920's and naturally regenerated from that. The primary species are Western Hemlock, Douglas-fir and Red Cedar. There has been no previous stand management in the stand.

8. Cruiser Names/Dates

Contract Cruised

9. Revenue Distribution

FDF: 100%

Tax Code: 56-1

Deed Numbers: 35

10. Attachments

Stand Table (partial cut)

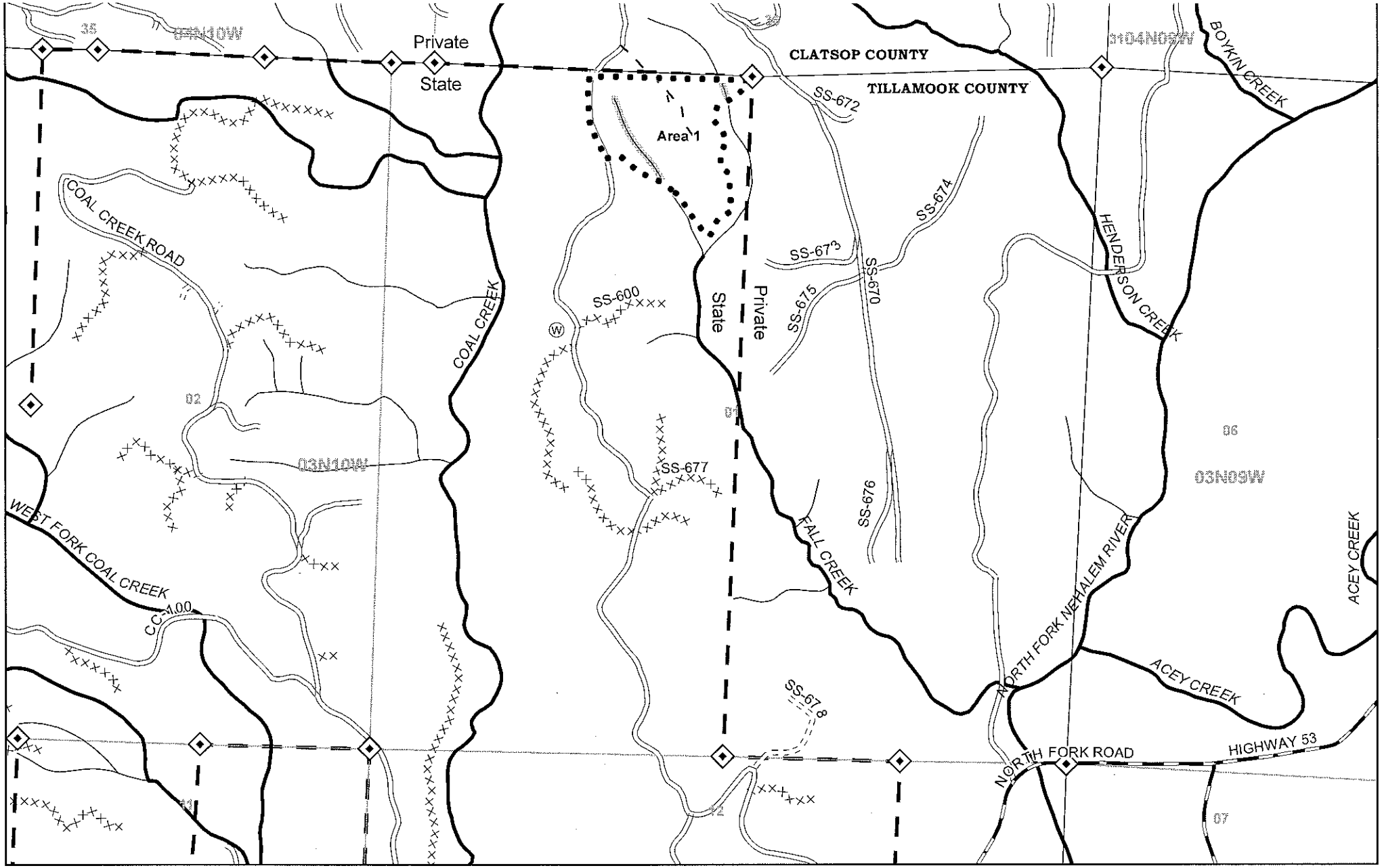
Volume Summaries

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave
DF – Douglas-fir take
RC – Western red cedar reserved
WL – Western hemlock leave
WH – Western hemlock take



LOGGING PLAN
Timber Sale Contract No. 341-10-87
North Coal
Portions of Sections 1
T3N, R10W, W.M.,
Tillamook County, Oregon

Area	Type of Operation	Acres Gross	Net
1	Partial cut	21	20

Tillamook District GIS
2-17-2010
This product is for informational use and may not have been prepared or suitable for legal, engineering, or surveying purposes.