



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Beneke Salvage  
Sale 341-08-25

District: Astoria

Date: August 09, 2007

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**Cost Summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sales Value</b>	\$309,951.14	\$0.00	\$309,951.14
		<b>Project Work:</b>	\$0.00
		<b>Advertised Value:</b>	\$309,951.14



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**Timber Description**

**Location:** Portions of Sect. 27, 28, 29, 30, 31, 32, & 33, T7N, R6W; Sect. 1, 2, 3, 10, 11, & 12, T6N, R7W; & Sections 5 & 6, T6N, R6W, W.M., Clatsop County, OR.

**Stand Stocking:** 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	23	0	97
Western Hemlock / Fir	20	0	95

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	836	154	18	1,008
Western Hemlock / Fir	295	102	4	401
Total	1,131	256	22	1,409



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**Comments:** Pond Values Used: 2nd Quarter Calendar Year 2007 + Local Pond Values.

Anticipated Log Markets: Clatskanie, Mist, and Tillamook, OR and Longview, WA

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost  
\$740/MBF = \$1,025/MBF - \$285/MBF

Red Alder Stumpage Price = Pond Value minus Logging Cost  
\$518/MBF = \$815/MBF - \$297/MBF

**HAULING**

Hauling costs equivalent to \$700 daily truck cost.

**Other Costs (Profit and Risk to be added):**

100% Branding and Painting: \$1/MBF x 1,409 MBF = \$ 1,409

Additional Felling & Bucking Costs: \$10/MBF x 1,409 MBF = \$ 14,090

TOTAL Other Costs (Profit and Risk to be added) = \$15,499

**OTHER COSTS (No Profit and Risk added):**

Slash Piling with Log Loader:

16 acres X 1 acre/hour X \$87.50/hour = \$1400

Additional Slash Piling at Cable Landings:

9 Landings X 3 hours/landing X \$65.00/hour = \$1,755

TOTAL Other Costs (No Profit and Risk added) = \$3,155



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## Logging Conditions

**Combination#: 1**            Douglas - Fir                            55.00%  
   Western Hemlock / Fir                55.00%

**Yarding Distance** Short (400 ft)                            **Downhill Yarding:** No  
**Logging System:** Cable: Small Tower <=40                **Process:** Manual Delimiting  
**Tree Size:**                    Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**Loads / Day:**                            4.0                            **Bd. Ft / Load:**                4,000  
**Cost / MBF:**                            \$168.81

**Machines:**                    Log Loader (A)  
   Tower Yarder (Small)

**Combination#: 2**            Douglas - Fir                            45.00%  
   Western Hemlock / Fir                45.00%

**Yarding Distance** Short (400 ft)                            **Downhill Yarding:** No  
**Logging System:** Shovel    **Process:** Manual Delimiting  
**Tree Size:**                    Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF  
**Loads / Day:**                            5.0                            **Bd. Ft / Load:**                4,000  
**Cost / MBF:**                            \$125.23

**Machines:**                    Shovel Logger



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**Logging Costs**

<b>Operating Seasons:</b>	1.00	<b>Profit Risk:</b>	15.00%
<b>Project Costs:</b>	\$0.00	<b>Other Costs (P/R):</b>	\$15,499.00
<b>Slash Disposal:</b>	\$0.00	<b>Other Costs:</b>	\$3,155.00

**Miles of Road**

Road Maintenance: \$10.62

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	4.5
Western Hemlock / Fir	\$0.00	2.0	4.0

**Local Pond Values**

Date	Specie	Grade	Value
8/9/07	Douglas - Fir	2S	\$565.00
8/9/07	Douglas - Fir	3S	\$525.00
8/9/07	Douglas - Fir	4S	\$505.00
8/9/07	Western Hemlock / Fir	2S	\$390.00
8/9/07	Western Hemlock / Fir	3S	\$365.00
8/9/07	Western Hemlock / Fir	4S	\$350.00



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**Logging Costs Breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
<b>Douglas - Fir</b>									
\$149.20	\$10.94	\$3.11	\$69.66	\$11.00	\$36.59	\$0.00	\$2.00	\$2.24	\$284.74
<b>Western Hemlock / Fir</b>									
\$149.20	\$11.15	\$3.11	\$79.89	\$11.00	\$38.15	\$0.00	\$2.00	\$2.24	\$296.74

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$557.82	\$273.08	\$0.00
Western Hemlock / Fir	\$0.00	\$383.24	\$86.50	\$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

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	1,008	\$273.08	\$275,264.64
Western Hemlock / Fir	401	\$86.50	\$34,686.50

**Gross Timber Sale Value**

Recovery: \$309,951.14

Prepared by: Peter Stone

Phone: 503-325-5451

# TIMBER CRUISE REPORT

## Beneke SALVAGE FY 2008

1. **Sale Area Locations:**

Portions of Sections 27, 28, 29, 30, 31, 32, and 33, T7N, R6W, Portions of Sections 1, 2, 3, and 10, 11, and 12, T6N, R7W, and Sections 5 and 6, T6N, R6W, W.M., Clatsop County, Oregon

2. **Fund Distribution:**

BOF = 100%

Tax Code =     30-05 (44%)  
                  08-01 (56%)

3. **Sale Acreage and Treatments by Area:**

Area	Original Sale Name	Harvest Type	Net Acres	Survey Method
1 and 2	Bull Music Combination	Concentration	7	GIS
2a	Bull Music Combination	Patch Cut	4	GIS
3	Goose Pit Combination	Modified CC	14	GIS
4a	Cooked Goose Combination	Modified CC	12	GIS
4b	Cooked Goose Combination	Patch Cut	4	GIS
5	Thin Wild Goose	Modified CC	9	GIS
6, 7, 8 and 9	Foster Divide and Foster Thinning	Concentration	22	GIS
10	Fishhawk Basin Combination	Concentration	10	GIS
11	Lotta Thin	Patch Cut	5	GIS
12	Bovine ML Combination	Concentration	16	GIS
<b>TOTAL</b>			<b>103</b>	

4. **Cruise Method and Computations:**

All volume results were derived from data collected for the Goose Pit Combination Timber Sale.

Based on field evaluations, the following percentage adjustments were applied:

Areas 1, 2, 6 -10, and 12 (Concentration): Estimated that approximately 25% of the existing volume from the original "leave" stand cruise will be removed.

Areas 2a, 4b, and 11 (Patch Cut): Estimated that approximately 80% of the existing volume from the original "leave" stand cruise will be removed.

Areas 3, 4a, and 5 (Modified Clear-cut): Estimated that approximately 80% of the existing volume from the original "leave" stand cruise will be removed.

The cruise calculations were processed in the Astoria District office. The field cruise volumes were then evaluated and reviewed to calculate a per acre and sale volume. Percentages were used from the cruise for species and grades to establish the total sale volume.



5. **Timber Description:**

All areas have been logged within the last four years with the exception of Thin Wild Goose Timber Sale, which was logged approximately seven years ago. The timber type is predominately Douglas-fir and western hemlock with scattered mixed conifers approximately 50-70 years old. Average tree DBH ranges are from 14"-26".

7. **Statistical Analysis and Stand Summary:** A statistical analysis was not calculated. Stand Summary Reports attached.

8. **Volumes by Species and Sale Areas:** Volumes do not include "in-growth". The total net MBF volumes by species and grade are as follows:

Species	DBH	Net. Vol.	SM	2 Saw	3 Saw	4 Saw	Sale%
Douglas-fir	23"	1,008	0	836	154	18	72
W. Hemlock / True Fir	20"	401	0	295	102	4	28
<b>Totals</b>		<b>1,409</b>					

The cruise volume for the patch cuts and modified clearcuts was reduced by an estimated 20% for defect, breakage and standing wildlife trees that will be left.

9. **Approvals:**

Prepared by: AW Peter Stone Date: April 25, 2007

10. **Attachments:**

Species, Sort, Grade Reports (2 pages)

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

Project: GOOSEPIT

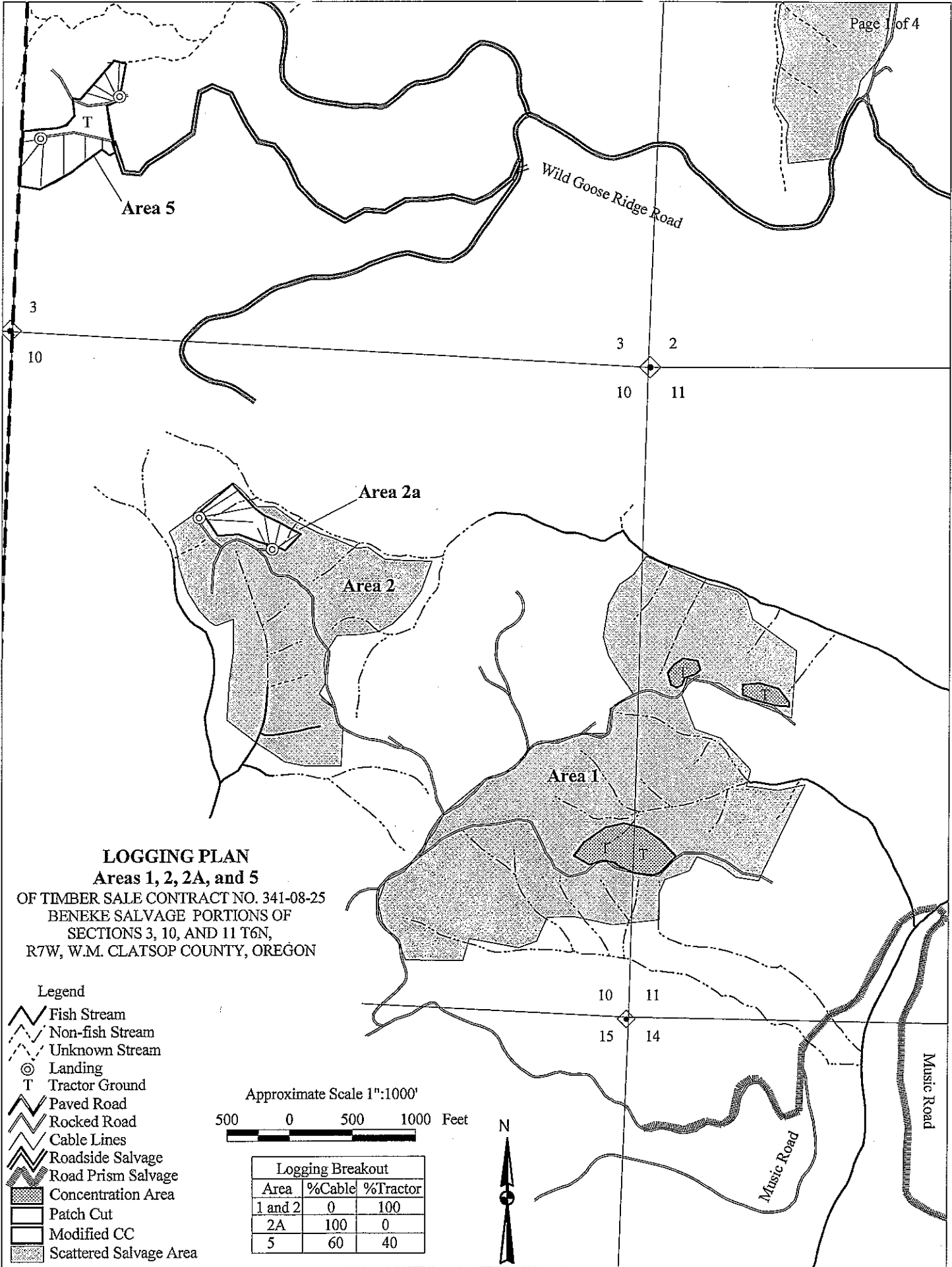
T06N R07W S01 TSALV

T06N R07W S01 TSALV

Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt															
06N	07W	01	MC	SALV	48.00	54	67	1	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					
D	?	?																						
D	?	2S		83	20.8	16,212	12,833	616		0	57	42			1	34	65	36	260	000.00				49.4
D	?	3S		15	20.3	2,969	2,366	114		90	10			4	11	24	61	34	68	000.00				34.7
D	?	4S		2	21.3	342	269	13		100				53	47			20	24	000.00				11.0
<b>D</b>	<b>Totals</b>			72	20.8	19,522	15,468	742		16	49	35		1	4	32	63	31	150	000.00				103.4
H	DO	CU																8		0.00				1.7
H	?	2S		73	21.1	5,717	4,511	217			80	20		5		4	90	38	233	000.00				19.4
H	?	3S		25	20.0	1,957	1,566	75		100					2	30	68	36	69	000.00				22.8
H	DO	4S		1	20.0	86	69	3		100				40	60			22	23	000.00				3.0
<b>H</b>	<b>Totals</b>			28	20.8	7,760	6,145	295		27	59	14		4	1	11	84	35	131	000.00				46.9
<b>Type Totals</b>					20.8	27,282	21,613	1,037		19	52	29		2	3	26	69	32	144	000.00				150.3

*Boneke Salvage*

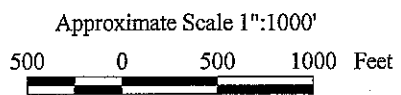
TC TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)							Page 1												
		Project: GOOSEPIT							Date 4/23/2007												
									Time 3:13:13PM												
T06N R07W S01 TSALV								T06N R07W S01 TSALV													
Twp	Rge	Sec	Tract	Type	Acre	Plots	Sample Trees	CuFt	BdFt												
06N	07W	01	CA	SALV	55.00	54	67	1	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		
D	?	?																			
D	?	2S		83	75.3	16,212	4,010	221		0	57	42		1	34	65	36	81	000.00	49.4	
D	?	3S		15	75.1	2,969	739	41		90	10			4	11	24	61	34	21	000.00	34.7
D	?	4S		2	75.4	342	84	5		100				53	47			20	8	000.00	11.0
<b>D</b>	<b>Totals</b>			72	75.2	19,522	4,834	266		16	49	35		1	4	32	63	31	47	000.00	103.4
H	DO	CU																			
H	?	2S		73	75.3	5,717	1,410	78			80	20		5		4	90	38	73	000.00	19.4
H	?	3S		25	75.0	1,957	489	27		100					2	30	68	36	21	000.00	22.8
H	DO	4S		1	75.0	86	21	1		100				40	60			22	7	000.00	3.0
<b>H</b>	<b>Totals</b>			28	75.3	7,760	1,920	106		27	59	14		4	1	11	84	35	41	000.00	46.9
<b>Type Totals</b>					75.2	27,282	6,754	371		19	52	29		2	3	26	69	32	45	000.00	150.3



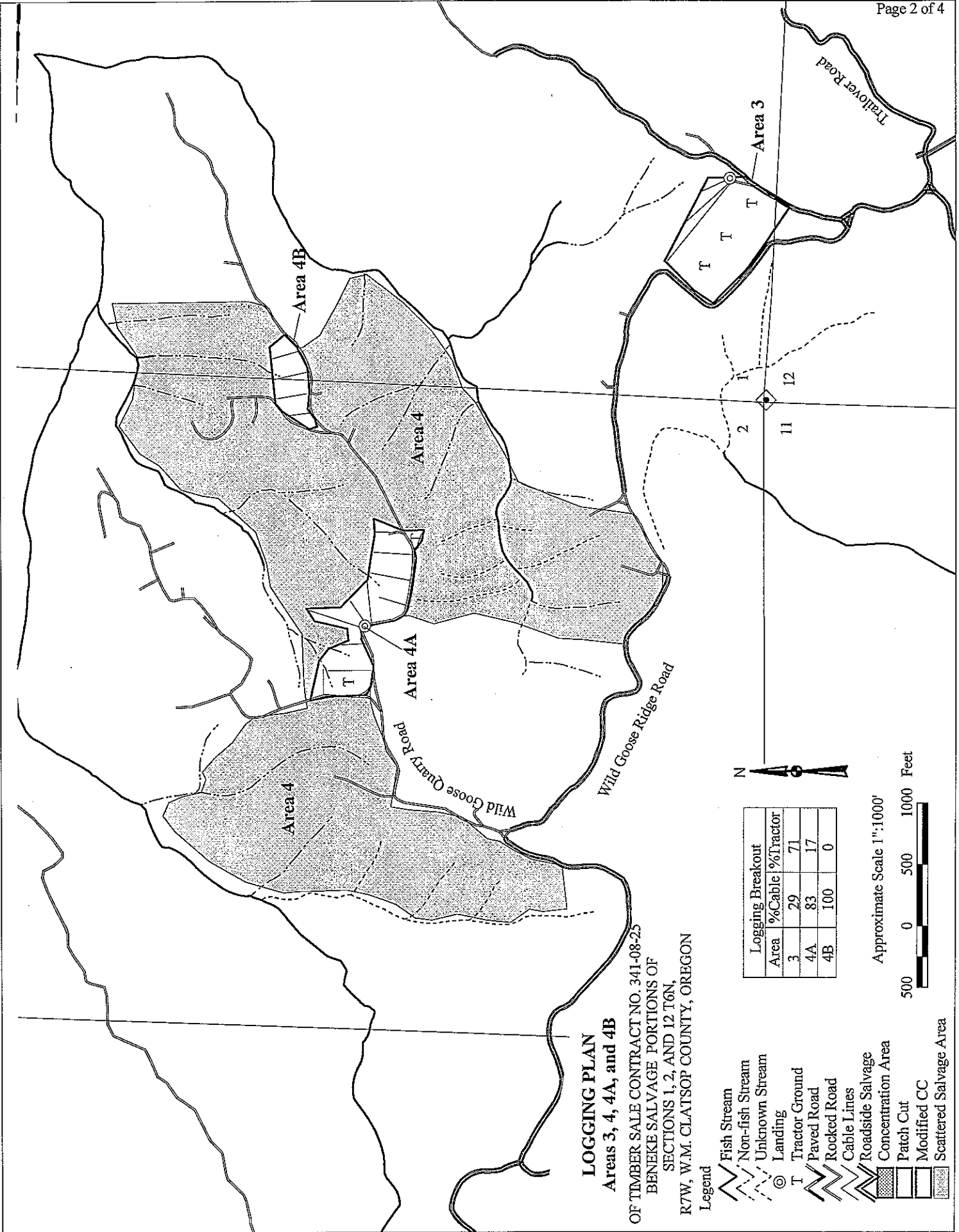
**LOGGING PLAN**  
**Areas 1, 2, 2A, and 5**  
 OF TIMBER SALE CONTRACT NO. 341-08-25  
 BENEKE SALVAGE PORTIONS OF  
 SECTIONS 3, 10, AND 11 T6N,  
 R7W, W.M. CLATSOP COUNTY, OREGON

**Legend**

- Fish Stream
- Non-fish Stream
- Unknown Stream
- Landing
- Tractor Ground
- Paved Road
- Rocked Road
- Cable Lines
- Roadside Salvage
- Road Prism Salvage
- Concentration Area
- Patch Cut
- Modified CC
- Scattered Salvage Area



Logging Breakout		
Area	%Cable	%Tractor
1 and 2	0	100
2A	100	0
5	60	40

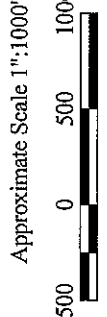
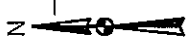


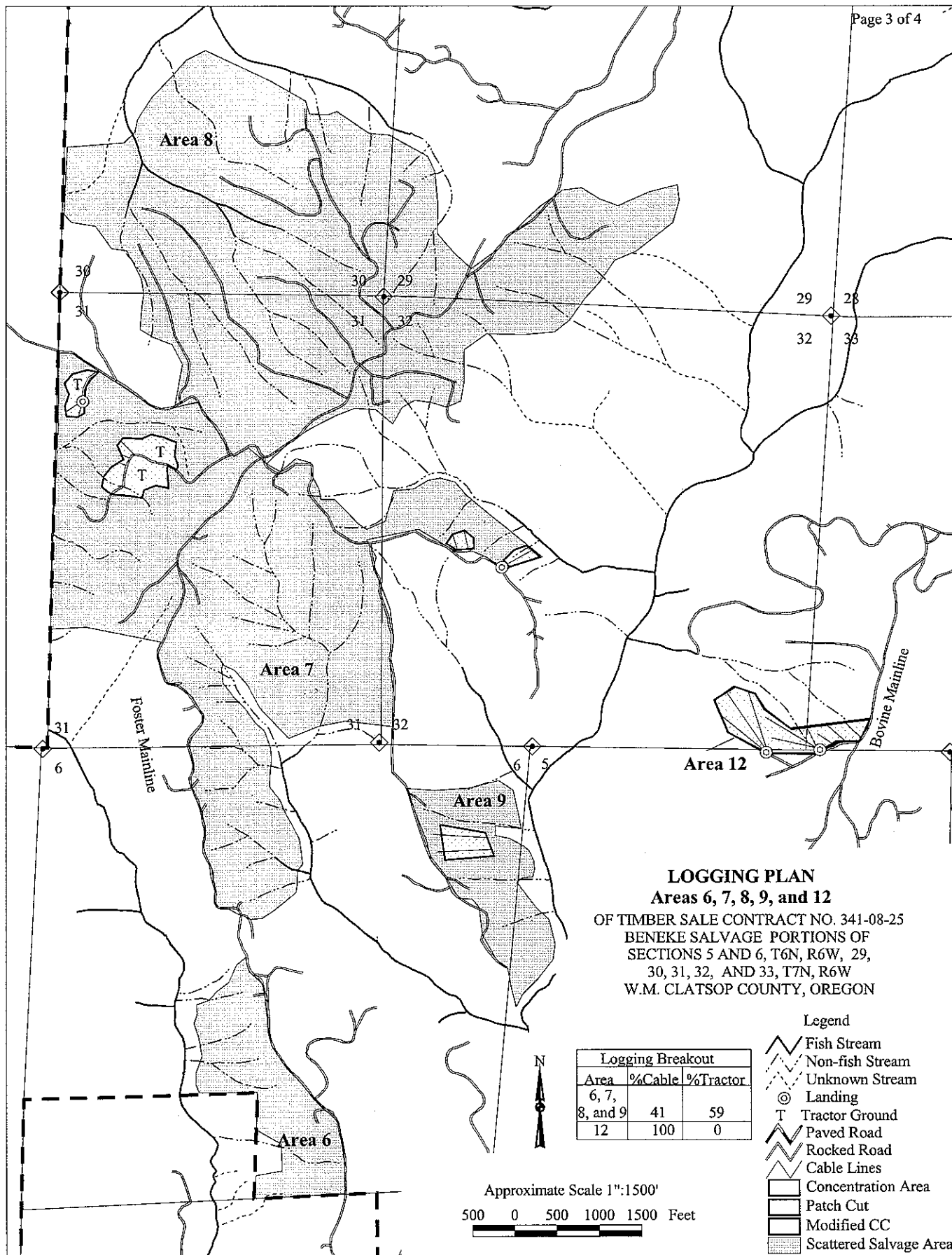
**LOGGING PLAN**  
**Areas 3, 4, 4A, and 4B**  
 OF TIMBER SALE CONTRACT NO. 341-08-25  
 BENEKE SALVAGE PORTIONS OF  
 SECTIONS 1, 2, AND 12 T6N,  
 R7W, W.M. CLATSOP COUNTY, OREGON

**Legend**

- Fish Stream
- Non-fish Stream
- Unknown Stream
- Landing
- Tractor Ground
- Paved Road
- Rocked Road
- Cable Lines
- Roadside Salvage
- Concentration Area
- Patch Cut
- Modified CC
- Scattered Salvage Area

Area	%Cable	%Tractor
3	29	71
4A	83	17
4B	100	0

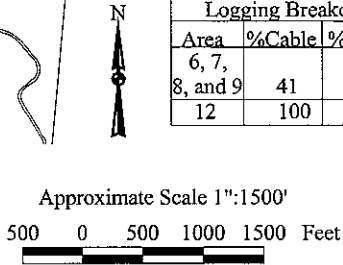




**LOGGING PLAN**  
**Areas 6, 7, 8, 9, and 12**  
 OF TIMBER SALE CONTRACT NO. 341-08-25  
 BENEKE SALVAGE PORTIONS OF  
 SECTIONS 5 AND 6, T6N, R6W, 29,  
 30, 31, 32, AND 33, T7N, R6W  
 W.M. CLATSOP COUNTY, OREGON

Logging Breakout		
Area	%Cable	%Tractor
6, 7, 8, and 9	41	59
12	100	0

- Legend**
- Fish Stream
  - Non-fish Stream
  - Unknown Stream
  - Landing
  - Tractor Ground
  - Paved Road
  - Rocked Road
  - Cable Lines
  - Concentration Area
  - Patch Cut
  - Modified CC
  - Scattered Salvage Area



# LOGGING PLAN

## Areas 10 and 11

OF TIMBER SALE CONTRACT NO. 341-08-25  
 BENEKE SALVAGE PORTIONS OF  
 SECTIONS 27, 28, and 33, T7N, R6W,  
 W.M. CLATSOP COUNTY, OREGON

**Legend**

- Fish Stream
- Non-fish Stream
- Unknown Stream
- Landing
- Tractor Ground
- Paved Road
- Rocked Road
- Cable Lines
- Concentration Area
- Patch Cut
- Modified CC
- Scattered Salvage Area

Logging Breakout		
Area	%Cable	%Tractor
10	0	100
11	100	0

Approximate Scale 1"=1000'

