



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Simmons-West Green Mt.
Salvage No. 2
Sale 341-08-92

District: Astoria

Date: May 01, 2008

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,109,927.64	\$168,671.16	\$1,278,598.80
		Project Work:	\$0.00
		Advertised Value:	\$1,278,598.80



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timber description

Location: Portions of Section 7, T6N, R8W, Sections 30, 31, and 32, T7N, R7W, Sections 22, 23, 24, 25, 26, 27, 34, 35, and 36, T7N, R8W, and Sections 25, and 36, T7N, R9W, W.M., Clatsop County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	21	0	95
Western Hemlock / Fir	19	0	95
Sitka Spruce	25	0	95
Alder (Red)	16	0	95

Volume by Grade	2S	3S	4S	Camprur	Total
Douglas - Fir	1,229	357	194	0	1,780
Western Hemlock / Fir	6,685	2,449	354	0	9,488
Sitka Spruce	2,815	427	102	0	3,344
Alder (Red)	0	0	0	469	469
Total	10,729	3,233	650	469	15,081



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comments: Pond Values Used: 1st Quarter Calendar Year 2008.

Expected Log Markets: Tillamook, OR, Garibaldi, OR - Chehallis, WA, and St. Helens, OR.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
\$775/MBF = \$1,050/MBF - \$275/MBF

OTHER COSTS (Profit & Risk to be added):

Additional Logging Costs:

Felling and Bucking \$30/MBF X 15,081MBF = \$452,430

Branding and Painting \$1/MBF X 15,081MBF = \$15,081

Loggers Choice spurs \$102/station X 32.5 sta. = \$3,315

Loggers Choice landings \$327/landing X 4 land. = \$1,308

Rock for first 50 feet on estimated 10 entry points off Saddle

Mountain County Road. 20 cy per entry point equals 200 cubic

yards at \$12.00 per yard placed and spread = \$2,400

Open and close dirt spurs into Area 5 8 hrs X \$94 = \$752

TOTAL OTHER COSTS (Profit & Risk to be added) = \$475,286

OTHER COSTS (No Profit & Risk included)

Slash Piling on ground based acres in MC Areas: \$120/hour
(excavator w/brush forks) X 130 hours or \$87.50/ hour (log loader)
X 178.29 hours = \$15,600

Move-in cost for excavator: 3 times X \$1,200 = \$3,600

Slash Piling in Salvage ground based Areas: 115 hours X
\$87.50/hour = \$10,062.50.

Slash Piling on Cable Landings with log loader/shovel 30 landings
at 3 hours per landing = 90 hours X \$87.50/hr = \$7,875.00.

TOTAL OTHER COSTS (No Profit & Risk to be included): \$37,137.50



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logging conditions

combination#: 1

Douglas - Fir	32.45%
Western Hemlock / Fir	35.15%
Sitka Spruce	32.31%
Alder (Red)	39.77%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Manual Falling/Delimiting
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 6.0 **bd. ft / load:** 4,000
cost / mbf: \$144.17

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

combination#: 2

Douglas - Fir	54.46%
Western Hemlock / Fir	51.56%
Sitka Spruce	49.42%
Alder (Red)	51.06%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Shovel **Process:** Manual Falling/Delimiting
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 5.0 **bd. ft / load:** 4,000
cost / mbf: \$71.93

machines: Feller Buncher w/ Delimber

combination#: 3

Douglas - Fir	1.99%
Western Hemlock / Fir	2.74%
Sitka Spruce	3.99%
Alder (Red)	2.66%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Manual Falling/Delimiting
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 6.0 **bd. ft / load:** 3,500
cost / mbf: \$164.76

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

combination#: 4

Douglas - Fir	9.08%
Western Hemlock / Fir	10.55%
Sitka Spruce	14.28%
Alder (Red)	6.51%



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yarding distance:	Medium (800 ft)	downhill yarding:	No
logging system:	Shovel	Process:	Manual Felling/Delimiting
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
loads / day:	5.0	bd. ft / load:	3,500
cost / mbf:	\$82.20		
machines:	Feller Buncher w/ Delimber		



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logging costs

Operating Seasons:	2.00	Profit Risk:	20.00%
Project Costs:	\$0.00	Other Costs (P/R):	\$475,286.00
Slash Disposal:	\$0.00	Other Costs:	\$37,137.50

Miles of Road

Road Maintenance: \$5.13

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	3.9
Western Hemlock / Fir	\$0.00	2.0	3.5
Sitka Spruce	\$0.00	2.0	3.5
Alder (Red)	\$0.00	2.0	3.3



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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									
\$99.61	\$5.39	\$0.58	\$78.53	\$31.52	\$43.13	\$0.00	\$2.00	\$2.46	\$263.22
Western Hemlock / Fir									
\$100.95	\$5.39	\$0.58	\$87.50	\$31.52	\$45.19	\$0.00	\$2.00	\$2.46	\$275.59
Sitka Spruce									
\$100.44	\$5.39	\$0.58	\$87.50	\$31.52	\$45.09	\$0.00	\$2.00	\$2.46	\$274.98
Alder (Red)									
\$103.79	\$5.39	\$0.58	\$92.80	\$31.52	\$46.82	\$0.00	\$2.00	\$2.46	\$285.36

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$422.97	\$159.75	\$0.00
Western Hemlock / Fir	\$0.00	\$320.76	\$45.17	\$0.00
Sitka Spruce	\$0.00	\$393.70	\$118.72	\$0.00
Alder (Red)	\$0.00	\$645.00	\$359.64	\$0.00



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Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Sitka Spruce	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,780	\$159.75	\$284,355.00
Western Hemlock / Fir	9,488	\$45.17	\$428,572.96
Sitka Spruce	3,344	\$118.72	\$396,999.68
Alder (Red)	469	\$359.64	\$168,671.16

Gross Timber Sale Value

Recovery: \$1,278,598.80

Prepared by: Edward Holloran

Phone: 503-325-5451

Road Maintenance Cost Summary (Interim and Post Harvest)

Sale: Simmons-West Green Mt. Salvage No. 2
Date: April 28, 2008
By: Ed Holloran

MBF: 15,081
\$/MBF: \$5.13

Type	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost
Interim Operations Entries (2)	Grader 14G	\$664	3	64	\$90	\$7,752
	Dump Truck 12CY	\$185	6	48	\$73	\$4,614
	FE Loader C966		3	24	\$72	\$1,728
Final Road Maintenance	Grader 14G	\$664	1	208	\$90	\$19,384
	Dump Truck 12CY	\$139	1	100	\$73	\$7,439
	Dump Truck w/ trailer 12CY	\$185	1	100	\$73	\$7,485
	FE Loader C966	\$664	1	100	\$74	\$8,064
	Vibratory Roller	\$664	2	138	\$72	\$11,264
	Water Truck 2,500 gallon	\$162	1	100	\$78	\$7,962
	Labor			64	\$25	\$1,600
Total						\$77,292

Interim Operations Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	2.5	14.0	5.6	56.0

Final Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grade only	1.5	2.1	1.4	14.0
Grader	1.5	20.3	13.5	135.3
Vibratory Roller	1.5	20.3	13.5	135.3

Process and Compact: Simmons Ridge Road to Spur 30 Junction, California Barrel Road to Area 15, and North Fork Road from Simmons Ridge Road to Area E: **7.55 Miles**.

Additional crushed rock roads that access Modified Clearcuts: **11.1 Miles**

Process and Compact: Weyerhaeuser Roads (Elk Mtn. ML, Elk Mtn. 57, and Elk Mtn. 57A): **1.55 Miles**

Grade only: Saddle Mountain County Road (**2.08 Miles**) and other crushed rock roads as necessary.

Extra hour included for each move between each road system.

The cruise calculations were processed in the Astoria District office. The field cruise volumes were 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:

Areas A, and T (Salvage) – These stands were not in previous timber sale areas. Area A is an extension of Areas 2 and 3 which are mixed conifer with some alder, and is approximately 60 years old. Area T is similar to Area U, a mixed conifer stand heavy to Western Hemlock and Sitka Spruce and is approximately 55 years old. These stands will be harvested in the same manner as Areas B through S and U.

Areas B through S and U (Salvage) – These stands were “auto-mark” partial cut two to five years ago, and are approximately 50 to 65 years old, consisting of moderate sized, Western Hemlock and Douglas-fir and Sitka Spruce with some cedar and alder. Wind storms have significantly damaged portions of these stands, resulting in several large concentrations and scattered blow-down. These stands will be salvage logged, harvesting only those trees blown down and those that are root sprung (leaning).

Area 1 (Modified Clearcut) – This stand is a Douglas-fir plantation, approximately 30 years old, with some larger Western Hemlock, Sitka Spruce, and Alder. This area will require whole tree logging and the removal of saw logs and pulp.

Areas 3, 4, and 5 (Modified Clearcut) – These stands have not been harvested previously. They are Western Hemlock, Sitka Spruce and Douglas-fir stands with a mix of Alder and Cedar that are approximately 45 to 70 years old. These areas will require snag and wildlife trees to be retained.

Areas 2, and 6 through 15 (Modified Clearcut) – These stands are similar to Areas A through U. These stands will be logged to salvage downed trees and the anticipated blow-down of the remaining standing trees on a setting basis. These areas will require snag and wildlife trees to be retained. These stands range in age from 45 to 70 years old.

6. Statistical Analysis and Stand Summary: A statistical analysis was not calculated. A spreadsheet showing cruise estimates by sale area is available at the Astoria District Office.

7. 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.	2 Saw	3 Saw	4 Saw	Camp Run	Sale%
Douglas-fir	21"	1,780	1,229	357	194		12%
W. Hemlock / True Fir	19"	9,488	6,685	2,449	354		63%
Spruce	25"	3,344	2,815	427	102		22%
Alder	16"	469				469	3%
Totals		15,081	10,729	3,233	650	469	100

Gross volumes were reduced for defect and breakage by 30 percent.

8. Approvals:

Prepared by: Edward M. Holloran
 Approved by: _____

Date: March 25, 2008
 Date: _____

9. Attachment:

Acres by Sale Area (1)

**Anticipated Salvage
Acres by Area**

Area	Harvest Type	Anticipated Salvage Acreage
1	MC	35
2	MC	156
3	MC	26
4	MC	16
5	MC	33
6	MC	155
7	MC	72
8	MC	73
9	MC	62
10	MC	29
11	MC	8
12	MC	14
13	MC	20
14	MC	7
15	MC	8
A	Salvage	1
B	Salvage	3
C	Salvage	1
D	Salvage	3
E	Salvage	21
F	Salvage	2
G	Salvage	6
H	Salvage	1
I	Salvage	3
J	Salvage	10
K	Salvage	1
L	Salvage	8
M	Salvage	10
N	Salvage	1
O	Salvage	2
P	Salvage	3
Q	Salvage	8
R	Salvage	4
S	Salvage	16
T	Salvage	2
U	Salvage	7
		827

TOTAL MC ACRES	714
TOTAL SALVAGE ACRES	113
GRAND TOTAL	827

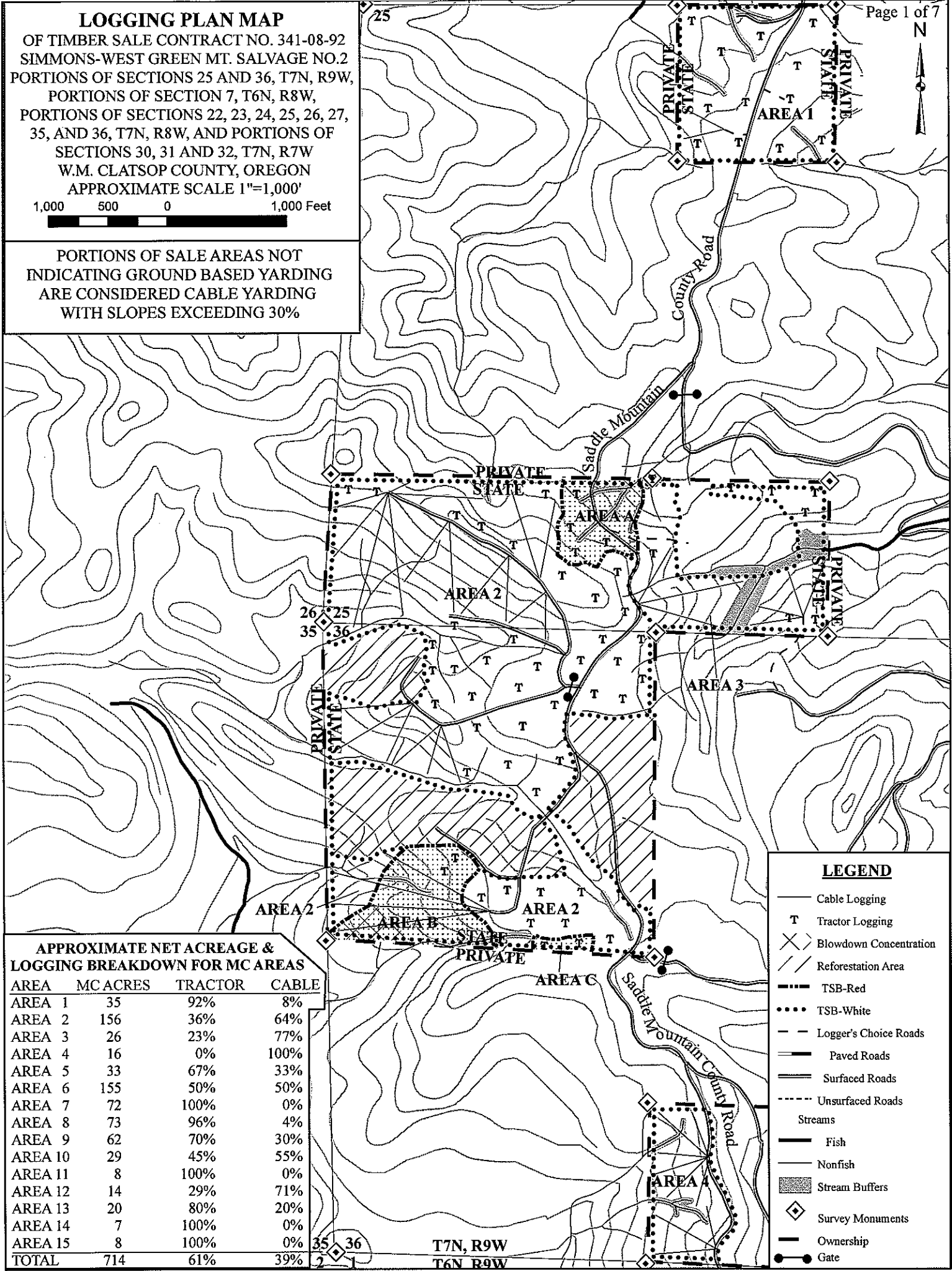
Anticipated Acres have roads, streams, buffers, plantations and non-salvage acres removed.

LOGGING PLAN MAP

OF TIMBER SALE CONTRACT NO. 341-08-92
 SIMMONS-WEST GREEN MT. SALVAGE NO.2
 PORTIONS OF SECTIONS 25 AND 36, T7N, R9W,
 PORTIONS OF SECTION 7, T6N, R8W,
 PORTIONS OF SECTIONS 22, 23, 24, 25, 26, 27,
 35, AND 36, T7N, R8W, AND PORTIONS OF
 SECTIONS 30, 31 AND 32, T7N, R7W
 W.M. CLATSOP COUNTY, OREGON
 APPROXIMATE SCALE 1"=1,000'

1,000 500 0 1,000 Feet

PORTIONS OF SALE AREAS NOT
 INDICATING GROUND BASED YARDING
 ARE CONSIDERED CABLE YARDING
 WITH SLOPES EXCEEDING 30%



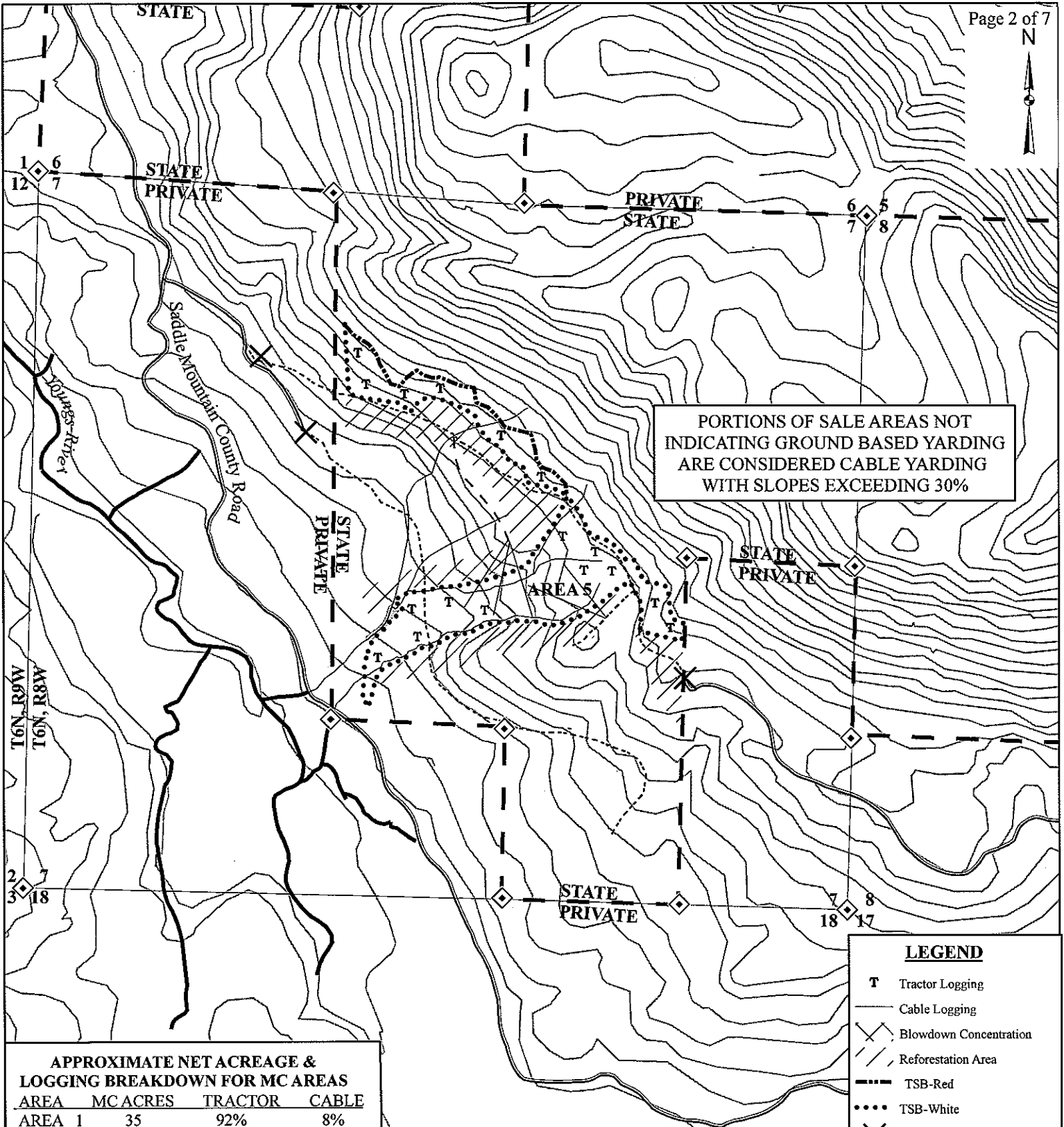
APPROXIMATE NET ACREAGE & LOGGING BREAKDOWN FOR MC AREAS

AREA	MC ACRES	TRACTOR	CABLE
AREA 1	35	92%	8%
AREA 2	156	36%	64%
AREA 3	26	23%	77%
AREA 4	16	0%	100%
AREA 5	33	67%	33%
AREA 6	155	50%	50%
AREA 7	72	100%	0%
AREA 8	73	96%	4%
AREA 9	62	70%	30%
AREA 10	29	45%	55%
AREA 11	8	100%	0%
AREA 12	14	29%	71%
AREA 13	20	80%	20%
AREA 14	7	100%	0%
AREA 15	8	100%	0%
TOTAL	714	61%	39%

LEGEND

- Cable Logging
- T Tractor Logging
- X Blowdown Concentration
- /// Reforestation Area
- TSB-Red
- TSB-White
- - - Logger's Choice Roads
- Paved Roads
- Surfaced Roads
- Unsurfaced Roads
- Streams
- Fish
- Nonfish
- ▨ Stream Buffers
- ◇ Survey Monuments
- Ownership
- Gate

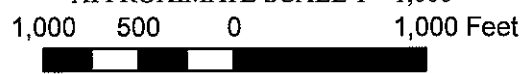
T7N, R9W
 T6N, R9W



APPROXIMATE NET ACREAGE & LOGGING BREAKDOWN FOR MC AREAS

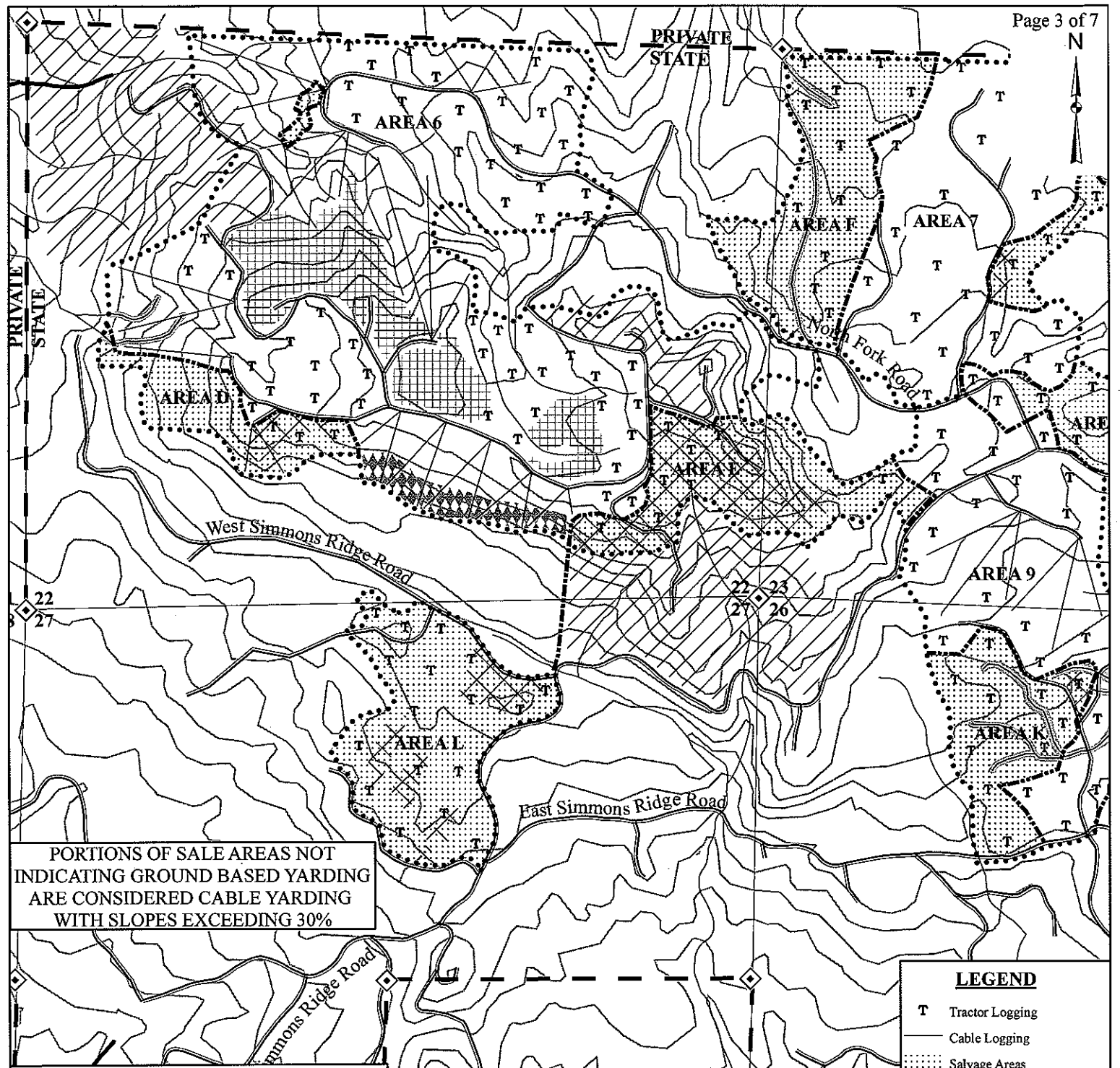
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 W.M. CLATSOP COUNTY, OREGON
 APPROXIMATE SCALE 1"=1,000'



LEGEND

- T Tractor Logging
- Cable Logging
- X Blowdown Concentration
- /// Reforestation Area
- TSB-Red
- ... TSB-White
- X Blocked Roads
- - - Logger's Choice Roads
- == Paved Roads
- Surfaced Roads
- Unsurfaced Roads
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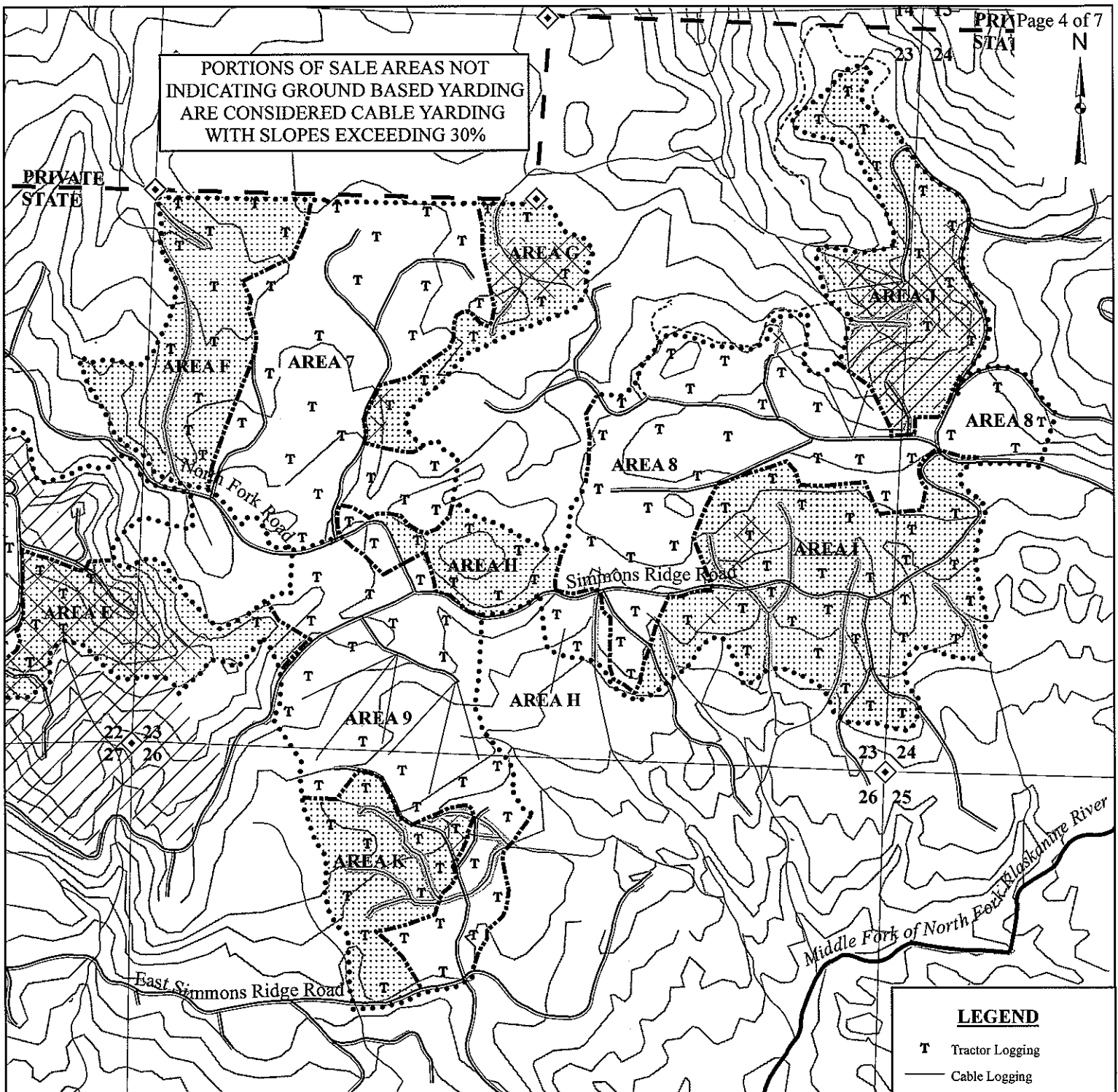
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- Cable Logging
- Salvage Areas
- X Blowdown Concentration
- Seasonal Restriction Area
- Reforestation Areas
- Non Salvage Areas
- TSB-Red
- TSB-White
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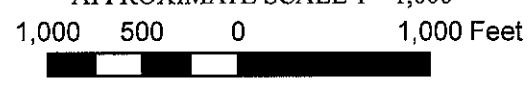
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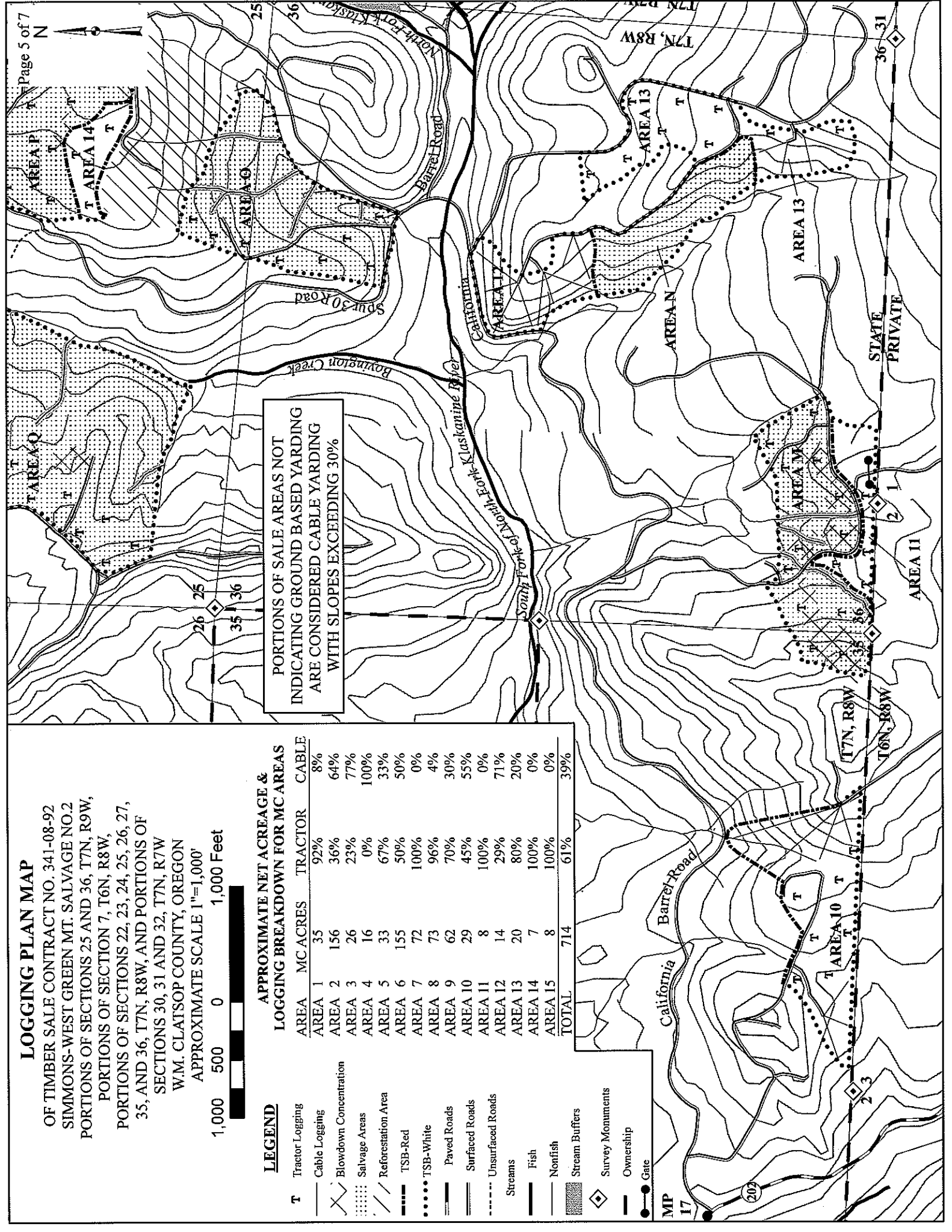
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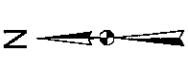
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TOTAL	714	61%	39%

PORTIONS OF SALE AREAS NOT INDICATING GROUND BASED YARDING ARE CONSIDERED CABLE YARDING WITH SLOPES EXCEEDING 30%





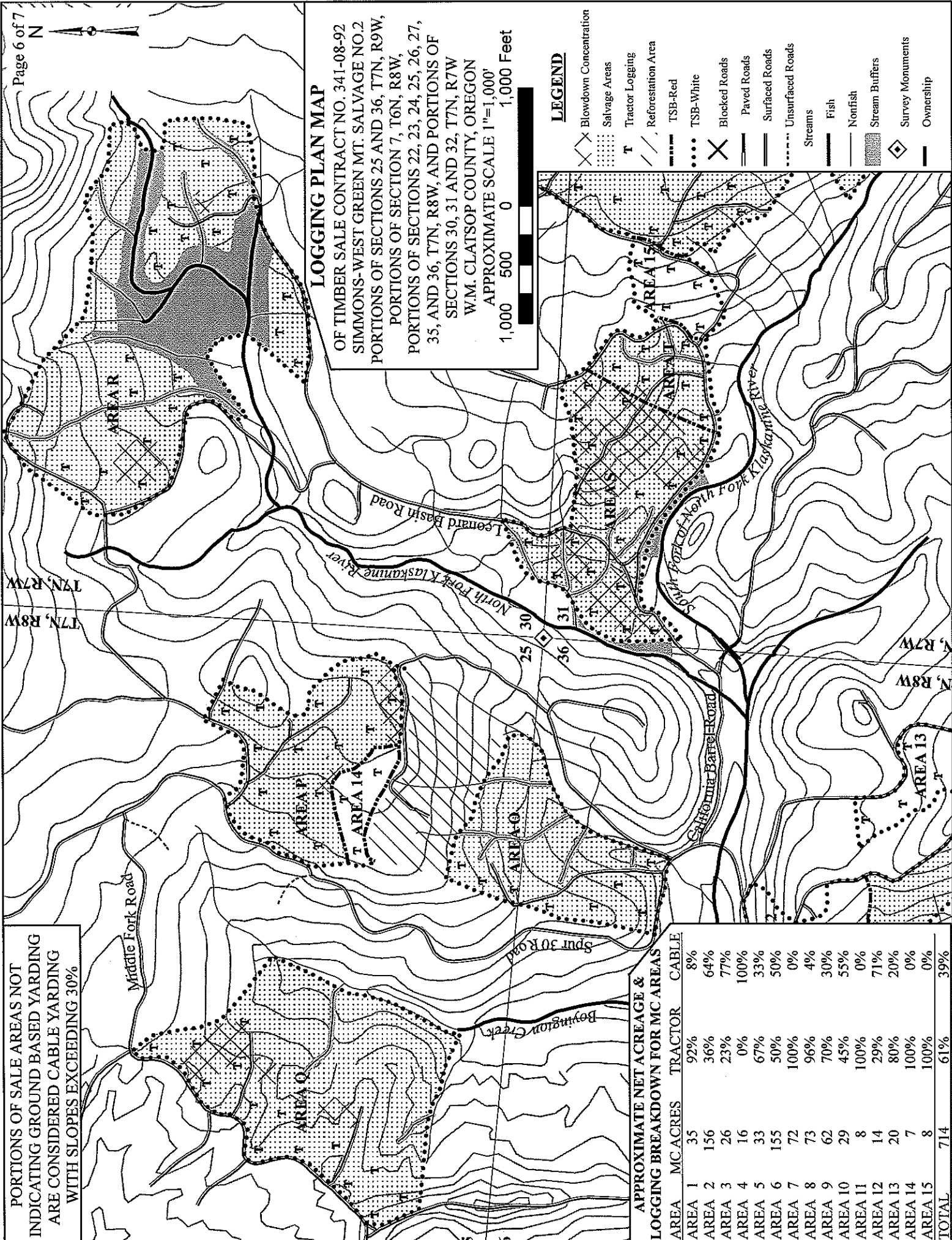
PORCTIONS OF SALE AREAS NOT INDICATING GROUND BASED YARDING ARE CONSIDERED CABLE YARDING WITH SLOPES EXCEEDING 30%

LOGGING PLAN MAP

OF TIMBER SALE CONTRACT NO. 341-08-92
 SIMMONS-WEST GREEN MT. SALVAGE NO.2
 PORTIONS OF SECTIONS 25 AND 36, T7N, R9W,
 PORTIONS OF SECTION 7, T6N, R8W,
 PORTIONS OF SECTIONS 22, 23, 24, 25, 26, 27,
 35, AND 36, T7N, R8W, AND PORTIONS OF
 SECTIONS 30, 31 AND 32, T7N, R7W
 W.M. CLATSOP COUNTY, OREGON
 APPROXIMATE SCALE: 1"=1,000'
 1,000 500 0 1,000 Feet

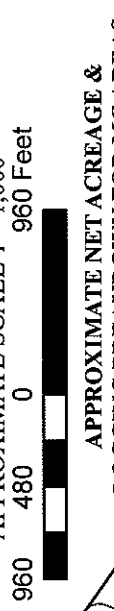
LEGEND

- Blowdown Concentration
- Salvage Areas
- Tractor Logging
- Reforestation Area
- TSB-Red
- TSB-White
- Blocked Roads
- Paved Roads
- Surfaced Roads
- Unsurfaced Roads
- Streams
- Fish
- Nonfish
- Stream Buffers
- Survey Monuments
- Ownership



APPROXIMATE NET ACRES & LOGGING BREAKDOWN FOR MC AREAS

AREA	MC ACRES	TRACTOR	CABLE
AREA 1	35	92%	8%
AREA 2	156	36%	64%
AREA 3	26	23%	77%
AREA 4	16	0%	100%
AREA 5	33	67%	33%
AREA 6	155	50%	50%
AREA 7	72	100%	0%
AREA 8	73	96%	4%
AREA 9	62	70%	30%
AREA 10	29	45%	55%
AREA 11	8	100%	0%
AREA 12	14	29%	71%
AREA 13	20	80%	20%
AREA 14	7	100%	0%
AREA 15	8	100%	0%
TOTAL	714	61%	39%

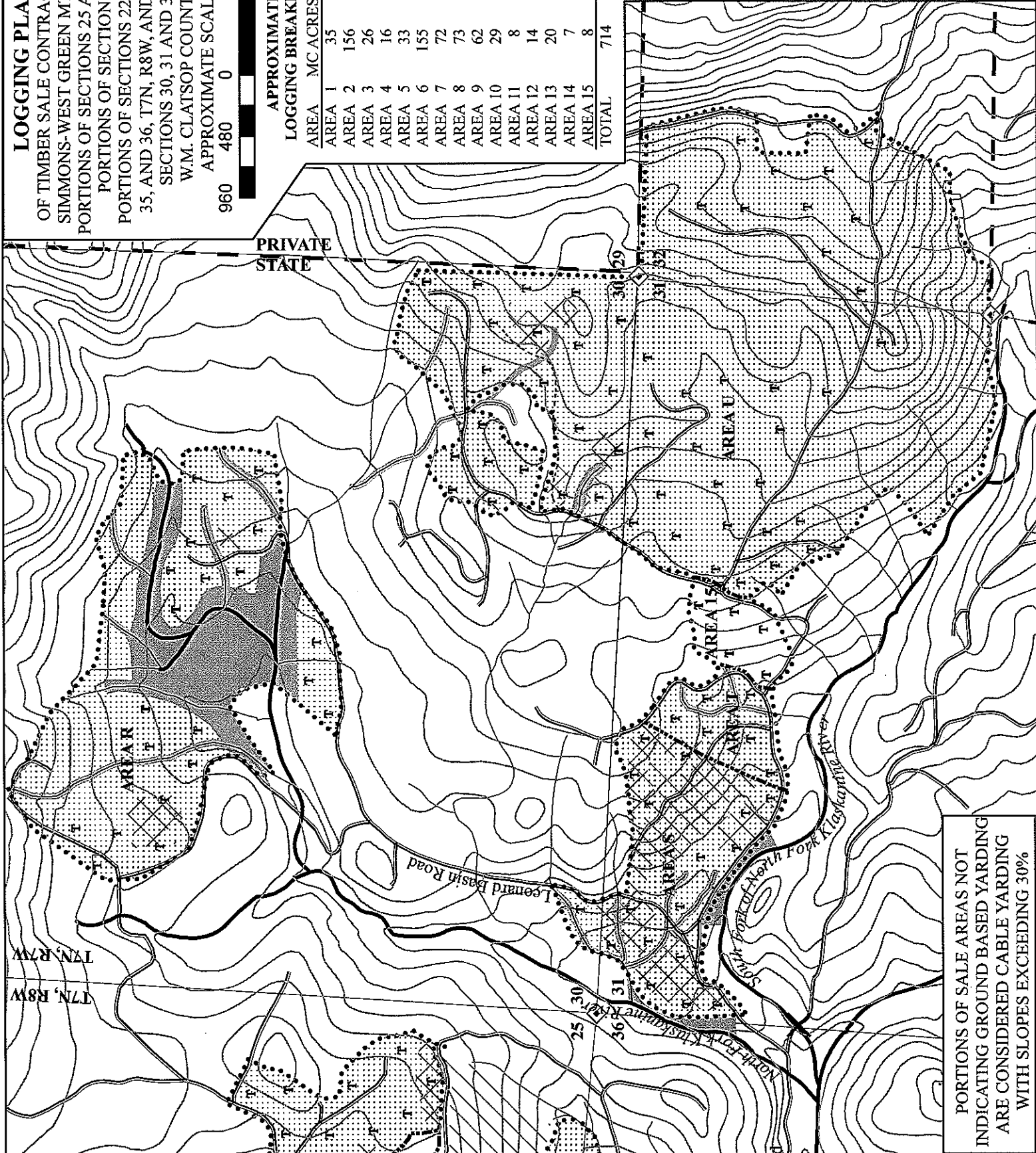


APPROXIMATE NET ACREAGE & LOGGING BREAKDOWN FOR MC AREAS

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AREA 1	35	92%	8%
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AREA 4	16	0%	100%
AREA 5	33	67%	33%
AREA 6	155	50%	50%
AREA 7	72	100%	0%
AREA 8	73	96%	4%
AREA 9	62	70%	30%
AREA 10	29	45%	55%
AREA 11	8	100%	0%
AREA 12	14	29%	71%
AREA 13	20	80%	20%
AREA 14	7	100%	0%
AREA 15	8	100%	0%
TOTAL	714	61%	39%

LEGEND

- T Tractor Logging
- Salvage Areas
- Blowdown Concentration
- Reforestation Area
- TSB-Red
- TSB-White
- Blocked Roads
- Paved Roads
- Surfaced Roads
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PORTIONS OF SALE AREAS NOT INDICATING GROUND BASED YARDING ARE CONSIDERED CABLE YARDING WITH SLOPES EXCEEDING 30%