



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Kerry Salvage
Sale 341-07-93

District: Astoria

Date: May 09, 2007

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sales Value	\$1,291,369.28	\$10,944.92	\$1,302,314.20
		Project Work:	\$0.00
		Advertised Value:	\$1,302,314.20



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District: Astoria

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Timber Description

Location: Portions of Sections 12, 13, 14, 15, 21, 22, 23, 24, 25, and 27, T7N, R6W, W.M., Clatsop County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	21	0	95
Western Hemlock / Fir	20	0	95
Red Cedar	20	0	94
Alder (Red)	17	0	94

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	2,048	389	77	2,514
Western Hemlock / Fir	2,536	1,028	125	3,689
Red Cedar	89	28	0	117
Alder (Red)	0	25	3	28
Total	4,673	1,470	205	6,348



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Comments: Pond Values Used: 1st Quarter Calendar Year 2007 + Local Pond Values

Expected Log Markets: Tillamook, Rainier, and Longview, WA

Sitka Spruce and Other Conifers Stumpage = Pond Value minus Logging Costs
 $\$135.08/\text{MBF} = \$420/\text{MBF} - \$284.92/\text{MBF}$

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (Profit & Risk to be added):

Felling & Bucking: $\$5/\text{MBF} \times 6,348\text{MBF} = \$31,740$

Branding & Painting: $\$1/\text{MBF} \times 6,348\text{MBF} = \$6,348$

TOTAL Other Costs (P&R to be added) = \$38,088

Other Costs (No Profit & Risk):

Slash Piling in-unit with Log Loader:
97 Acres X 1acre/hr X \$87.50/hr = \$8,488

Slash Piling at Cable Landings:
5 landings X 3hrs/landings X 87.50/hr = \$1,313

TOTAL Other Costs (No P&R) = \$9,801



"STEWARDSHIP IN FORESTRY"

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Logging Conditions

Combination#: 1

Douglas - Fir	25.00%
Western Hemlock / Fir	25.00%
Red Cedar	25.00%
Alder (Red)	25.00%

Yarding Distance: Medium (800 ft) **Downhill Yarding:** No
Logging System: Wheel Skidder **Process:** Manual Falling/Delimiting
Tree Size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
Loads / Day: 6.0 **Bd. Ft / Load:** 3,700
Cost / MBF: \$143.05

Machines: Log Loader (B)
Tire Skidder

Combination#: 2

Douglas - Fir	33.00%
Western Hemlock / Fir	33.00%
Red Cedar	33.00%
Alder (Red)	33.00%

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: 4.0 **Bd. Ft / Load:** 3,700
Cost / MBF: \$225.95

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

Combination#: 3

Douglas - Fir	29.00%
Western Hemlock / Fir	29.00%
Red Cedar	29.00%
Alder (Red)	29.00%

Yarding Distance: Medium (800 ft) **Downhill Yarding:** No
Logging System: Shovel **Process:** Manual Delimiting
Tree Size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
Loads / Day: 7.0 **Bd. Ft / Load:** 4,000
Cost / MBF: \$89.45

Machines: Shovel Logger

Combination#: 4

Douglas - Fir	13.00%
Western Hemlock / Fir	13.00%
Red Cedar	13.00%
Alder (Red)	13.00%



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Yarding Distance	Medium (800 ft)	Downhill Yarding:	No
Logging System:	Cable: Medium Tower >40 - <70	Process:	Stroke Delimber
Tree Size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
Loads / Day:	7.0	Bd. Ft / Load:	4,000
Cost / MBF:	\$119.43		
Machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)		



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Logging Costs

Operating Seasons:	2.00	Profit Risk:	15.00%
Project Costs:	\$0.00	Other Costs (P/R):	\$38,088.00
Slash Disposal:	\$0.00	Other Costs:	\$9,801.00

Miles of Road

Road Maintenance: \$5.35

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	4.0
Western Hemlock / Fir	\$0.00	2.0	4.0
Red Cedar	\$0.00	2.0	3.5
Alder (Red)	\$0.00	2.0	3.5

Local Pond Values

Date	Specie	Grade	Value
5/9/07	Douglas - Fir	2S	\$555.00
5/9/07	Douglas - Fir	3S	\$555.00
5/9/07	Douglas - Fir	4S	\$555.00
5/9/07	Alder (Red)	2S	\$690.00
5/9/07	Alder (Red)	3S	\$690.00
5/9/07	Alder (Red)	4S	\$690.00



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District: Astoria

Date: May 09, 2007

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$151.79	\$5.62	\$1.38	\$53.26	\$6.00	\$32.71	\$0.00	\$2.00	\$1.54	\$254.30
Western Hemlock / Fir									
\$151.79	\$5.62	\$1.38	\$79.89	\$6.00	\$36.70	\$0.00	\$2.00	\$1.54	\$284.92
Red Cedar									
\$151.79	\$5.67	\$1.38	\$92.18	\$6.00	\$38.55	\$0.00	\$2.00	\$1.54	\$299.11
Alder (Red)									
\$151.79	\$5.67	\$1.38	\$92.18	\$6.00	\$38.55	\$0.00	\$2.00	\$1.54	\$299.11

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$555.00	\$300.70	\$0.00
Western Hemlock / Fir	\$0.00	\$403.07	\$118.15	\$0.00
Red Cedar	\$0.00	\$1,150.00	\$850.89	\$0.00
Alder (Red)	\$0.00	\$690.00	\$390.89	\$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
Red Cedar	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,514	\$300.70	\$755,959.80
Western Hemlock / Fir	3,689	\$118.15	\$435,855.35
Red Cedar	117	\$850.89	\$99,554.13
Alder (Red)	28	\$390.89	\$10,944.92

Gross Timber Sale Value

Recovery: \$1,302,314.20

Prepared by: Dan Goody

Phone: 503-325-5451

Road Maintenance Cost Summary (Interim and Post Harvest)

Sale: Kerry Salvage
 Date: May 2, 2007
 By: Dan Goody

MBF: 6,348
 \$\$/MBF: \$5.35

Type	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost
Interim Maintenance	Grader 14G	\$570	2	48	\$84	\$5,172
Final Road Maintenance Haul Route Grading	Grader 14G	\$570		36	\$84	\$3,024
	Dump Truck 12CY	\$119		16	\$59	\$944
	FE Loader C966	\$570		8	\$79	\$632
Final Road Maintenance w/compaction	Grader 14G	\$570	1	80	\$84	\$7,290
	Dump Truck 12CY (2 @ \$119)	\$119	2	48	\$59	\$3,070
	FE Loader C966	\$570	1	24	\$79	\$2,466
	Vibratory Roller	\$570	1	80	\$79	\$6,890
	Water Truck 2,500 gallon Labor	\$139	1	60	\$70	\$4,339
				8	\$18	\$144
Total						\$33,971

Final Road Maintenance - without compaction

Production/Rates	Miles/day	Distance(miles)	Days	Hours
Grader	2.5	9.0	3.6	36.0

Final Road Maintenance - with compaction MAINLINES & other roads with 3/4"-0" surface

Production/Rates	Miles/day	Distance(miles)	Days	Hours
Grader	1.5	12.0	8.0	80.0
Vibratory Roller	1.5	12.0	8.0	80.0

Final Road maintenance with process and compaction required on West Creek Ridge Road and other mainline used for hauling. Process & compaction also required on all roads surfaced with 3/4"-0" surfacing.

TIMBER CRUISE REPORT

KERRY SALVAGE FY 2008

1. Sale Area Location:

The sale areas are located in a portions of Sections 12, 13, 14, 15, 21, 22, 23, 24, 25, and 27, T7N, R6W, W. M., Clatsop County, Oregon.

2. Fund Distribution:

BOF = 100%

Tax Code = 1-02 (3%)
30-05 (95%)
8-01 (2%)

3. Sale Acreage and Treatments by Area:

Area	Original Sale Name	Harvest Type	Anticipated Salvage Acres	Survey Method
1	Kerry West Thinning	Salvage	73	GIS
2	Kerry West Thinning	Salvage	8	GIS
A	Kerry West Thinning	Modified Clearcut	6	GIS
B	Kerry West Thinning	Modified Clearcut	30	GIS
C	Kerry West Thinning	Modified Clearcut	10	GIS
3	Kerry East	Salvage	251	GIS
4	Kerry East	Salvage	39	GIS
D	Kerry East	Modified Clearcut	9	GIS
E	Kerry East	Modified Clearcut	34	GIS
F	Kerry East	Modified Clearcut	26	GIS
G	Kerry East	Modified Clearcut	7	GIS
H	Kerry East	Modified Clearcut	5	GIS
I	Kerry East	Modified Clearcut	14	GIS
TOTAL			512	

4. Cruise Method and Computations:

All volume results were derived from data collected for the Kerry East timber sale cruise and extrapolated to the anticipated salvage acreage of the other sale areas.

Based on field evaluations, the cruise was adjusted to approximately 35% of the existing volume from the original "leave" stand cruise for the areas identified as concentrations of blowdown.

Based on field evaluations, the cruise was adjusted to approximately 70% of the existing volume from the original "leave" stand cruise for the areas identified as modified clearcuts.

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:

Areas 1 through 6 (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 with some cedar and alder. Wind storms have significantly damaged portions of these stands, resulting in several large patches and scattered blowdown. These stands will be salvage logged, harvesting only those trees blown down and those that are root sprung (leaning).

Areas A through I (Modified Clearcut)– These stands are similar to Areas 1 through 6. These stands will be logged to salvage downed trees and the anticipated blowdown of the remaining standing trees.

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.	2 Saw	3 Saw	4 Saw	Sale%
W. Hemlock / True Fir	20"	3,689	2,536	1,028	125	58
Douglas-fir	21"	2,514	2,048	389	77	40
Cedar	20"	117	89	28		2
Alder	17"	28		25	3	<1
Totals		6,348				

Defect and breakage was estimated at 20 percent.

9. Approvals:

Prepared by: Dan Goody

Date: April 19, 2007

10. Attachments:

Species, Sort, Grade Reports (3)
Stand Summary Report (2)

Species, Sort Grade - Board Foot Volumes (Project)

T07N R06W S24 TyCCUT	141.00	Project: KERRSALV	Page 1
T07N R06W S24 TySALV	371.00		
		Acres 512.00	Date 4/19/2007
			Time 1:17:25PM

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					
D		DOCU		100.0	87											3		0.00	2.2	
D		DO2S	81	71.8	14,207	4,000	2,048		1	58	41		2	25	74	37	89	0.54	44.8	
D		DO3S	15	71.8	2,696	759	389		94	6			13	40	48	35	25	0.21	30.4	
D		DO4S	4	71.7	532	150	77		100			50	37	12		21	8	0.13	18.7	
D Totals			40	72.0	17,522	4,910	2,514		19	48	33	2	4	27	67	32	51	0.38	96.2	
H		DOCU		100.0	252											10		0.00	1.8	
H		DO2S	68	31.0	7,176	4,953	2,536			68	32		1	4	34	61	36	203	1.30	24.4
H		DO3S	28	30.5	2,888	2,009	1,028		88	12			0	11	50	39	34	67	0.55	30.0
H		DO4S	4	30.4	351	245	125		100			59	41			18	20	0.38	12.3	
H Totals			58	32.4	10,667	7,207	3,690		28	50	22	3	7	37	53	31	105	0.83	68.4	
C		DO2S	76	55.4	388	173	89				100			32	68	36	652	3.71	.3	
C		DO3S	24	55.4	121	54	28		67	33			33	67		32	76	1.05	.7	
C Totals			2	55.4	509	227	116		16	8	76		8	40	52	33	233	1.85	1.0	
A		DOCU		100.0	15											8		0.00	.2	
A		DO3S	90	55.4	113	50	26		74	26				52	48	36	47	0.44	1.1	
A		DO4S	10	55.4	12	5	3		100				100			23	13	0.23	.4	
A Totals			0	60.2	140	56	28		76	24			10	47	43	30	34	0.39	1.6	
Totals				57.0	28,838	12,399	6,348		24	48	27	2	6	33	59	32	74	0.57	167.2	

T07N R06W S24 TCCUT										T07N R06W S24 TCCUT		
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt			
07N	06W	24	MC AREAS	CCUT	141.00	102	149	1	W			

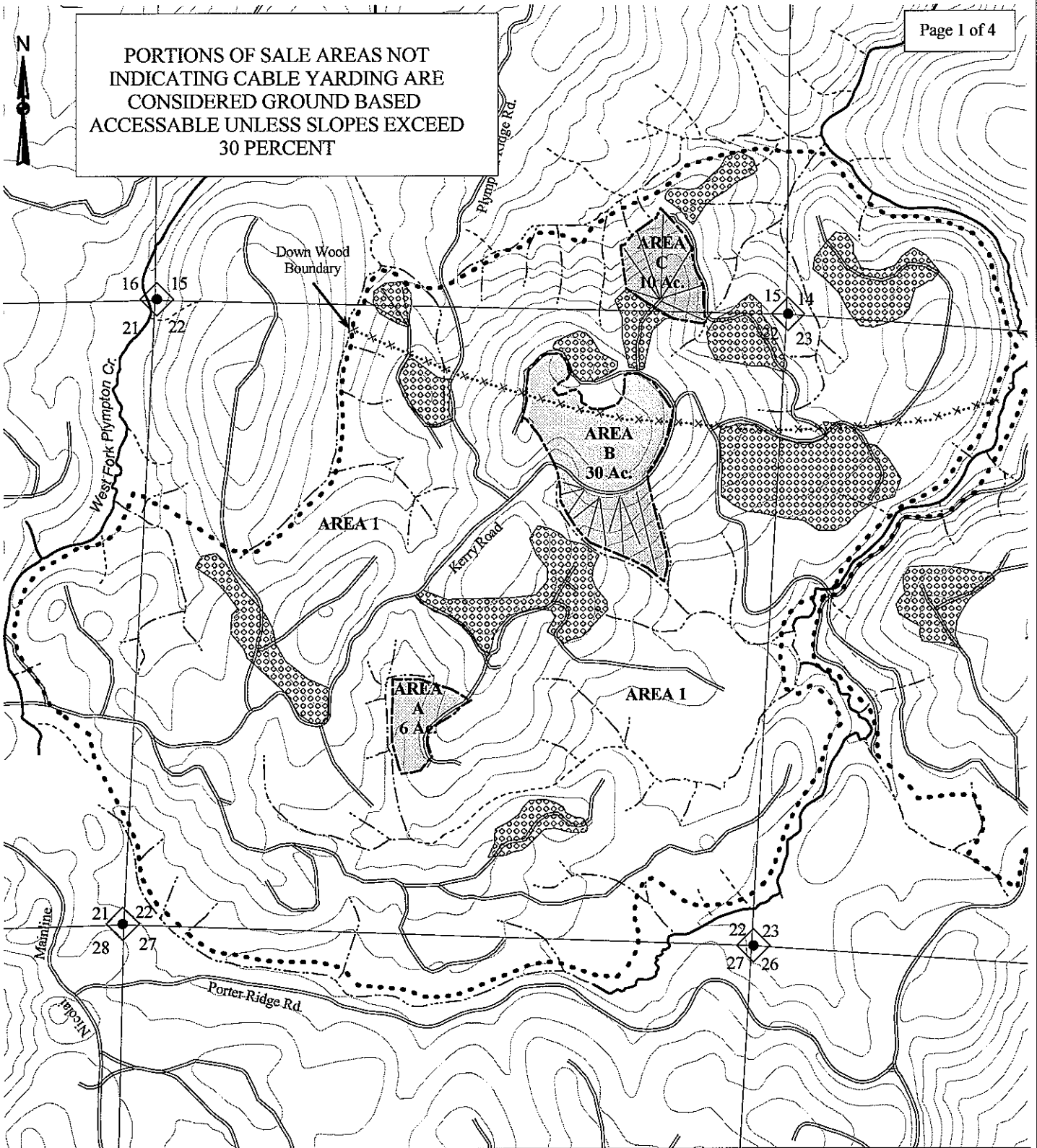
Spp	Sp	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
								Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln Ft
				4-5	6-11	12-16						17+	12-20	21-30	31-35	36-99				
D	DO	CU		00.0	87												3	0.00	2.2	
D	DO	2S	81	50.2	14,207	7,077	998		1	58	41		2	25	74		37	158	0.96	44.8
D	DO	3S	15	50.2	2,696	1,343	189		94	6			13	40	48		35	44	0.38	30.4
D	DO	4S	4	50.0	532	266	38		100				50	37	12		21	14	0.22	18.7
D	Totals		46	50.4	17,522	8,686	1,225		19	48	33		2	4	27	67	32	90	0.67	96.2
H	DO	CU		00.0	252												10	0.00	1.8	
H	DO	2S	68	5.8	7,176	6,757	953			68	32		1	4	34	61	36	277	1.78	24.4
H	DO	3S	28	5.1	2,888	2,740	386		88	12			0	11	50	39	34	91	0.75	30.0
H	DO	4S	4	5.0	351	334	47		100				59	41			18	27	0.51	12.3
H	Totals		52	7.8	10,667	9,831	1,386		28	50	22		3	7	37	53	31	144	1.13	68.4
C	DO	2S	76	30.0	388	272	38				100			32	68		36	1022	5.81	.3
C	DO	3S	24	30.0	121	84	12		67	33				33	67		32	119	1.65	.7
C	Totals		2	30.0	509	356	50		16	8	76		8	40	52		33	365	2.89	1.0
A	DO	CU		00.0	15												8	0.00	.2	
A	DO	3S	90	30.0	113	79	11		74	26				52	48		36	73	0.69	1.1
A	DO	4S	10	30.0	12	8	1		100				100				23	21	0.36	.4
A	Totals		0	37.5	140	87	12		76	24			10	47	43		30	53	0.61	1.6
Type Totals					34.3	28,838	18,960	2,673	24	48	28		2	6	32	60	32	113	0.87	167.2

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)							Page 1											
		Project: KERRSALV							Date 4/19/2007											
									Time 1:12:49PM											
T07N R06W S24 TSALV									T07N R06W S24 TSALV											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
07N	06W	24	SALVAGE AREA	SALV	371.00	102	149	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	DO	CU			00.0	87											3	0.00	2.2	
D	DO	2S	81	80.1	14,207	2,831	1,050		1	58	41		2	25	74		37	63	0.38	44.8
D	DO	3S	15	80.1	2,696	537	199		94	6			13	40	48		35	18	0.15	30.4
D	DO	4S	4	80.0	532	106	39		100			50	37	12			21	6	0.09	18.7
D	Totals			35	80.2	17,522	3,474	1,289	19	48	33	2	4	27	67		32	36	0.27	96.2
H	DO	CU		00.0	252												10	0.00	1.8	
H	DO	2S	68	40.5	7,176	4,268	1,583			68	32	1	4	34	61		36	175	1.12	24.4
H	DO	3S	28	40.1	2,888	1,731	642		88	12		0	11	50	39		34	58	0.47	30.0
H	DO	4S	4	40.0	351	211	78		100			59	41				18	17	0.32	12.3
H	Totals			63	41.8	10,667	6,209	2,304	28	50	22	3	7	37	53		31	91	0.72	68.4
C	DO	2S	76	65.0	388	136	50				100			32	68		36	511	2.91	.3
C	DO	3S	24	65.0	121	42	16		67	33			33	67			32	59	0.83	.7
C	Totals			2	65.0	509	178	66	16	8	76		8	40	52		33	183	1.45	1.0
A	DO	CU		00.0	15												8	0.00	.2	
A	DO	3S	90	65.0	113	39	15		74	26				52	48		36	37	0.34	1.1
A	DO	4S	10	65.0	12	4	2		100			100					23	10	0.18	.4
A	Totals			0	68.8	140	44	16	76	24			10	47	43		30	27	0.30	1.6
Type Totals					65.7	28,838	9,905	3,675	25	49	27	2	6	34	58		32	59	0.46	167.2

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	KERRSALV			DATE	4/19/2007	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
07N	06W	24	MC AREAS	CCUT	141.00	102	455	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES			
TOTAL		102	455	4.5						
CRUISE		35	149	4.3	9,258		1.6			
DBH COUNT										
REFOREST										
COUNT		67	306	4.6						
BLANKS										
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	73	36.9	20.9	87		88.3	17,522	8,686	4,175	2,080
WHEMLOCK	69	27.0	19.6	82		56.3	10,667	9,831	2,612	2,438
WR CEDAR	2	.7	30.6	47		3.6	509	356	132	93
R ALDER	5	1.1	16.7	47		1.6	140	87	46	30
TOTAL	149	65.7	20.5	84		149.9	28,838	18,960	6,966	4,640
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	61.9	6.1	35	37	39					
WHEMLOCK	89.7	8.9	25	27	29					
WR CEDAR	510.4	50.5	0	1	1					
R ALDER	715.7	70.8	0	1	2					
TOTAL	22.0	2.2	64	66	67	19	5	2		
CL: 68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	55.6	5.5	83	88	93					
WHEMLOCK	85.7	8.5	52	56	61					
WR CEDAR	503.8	49.8	2	4	5					
R ALDER	724.9	71.7	0	2	3					
TOTAL	12.9	1.3	148	150	152	7	2	1		
CL: 68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	57.0	5.6	8,196	8,686	9,176					
WHEMLOCK	85.9	8.5	8,996	9,831	10,666					
WR CEDAR	511.6	50.6	176	356	536					
R ALDER	810.1	80.1	17	87	157					
TOTAL	26.1	2.6	18,471	18,960	19,450	27	7	3		

TC TSTATS		STATISTICS							PAGE 1	
		PROJECT KERRSALV							DATE 4/19/2007	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
07N	06W	24	SALVAGE AREA	SALV	371.00	102	455	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
		PLOTS	TREES	PER PLOT	TREES	TREES				
TOTAL		102	455	4.5						
CRUISE		35	149	4.3	24,360	.6				
DBH COUNT										
REFOREST										
COUNT		67	306	4.6						
BLANKS										
100 %										
STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	73	36.9	20.9	87		88.3	17,522	3,474	4,175	832
WHEMLOCK	69	27.0	19.6	82		56.3	10,667	6,209	2,612	1,540
WR CEDAR	2	.7	30.6	47		3.6	509	178	132	46
R ALDER	5	1.1	16.7	47		1.6	140	44	46	15
TOTAL	149	65.7	20.5	84		149.9	28,838	9,905	6,966	2,433
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	61.9	6.1	35	37	39					
WHEMLOCK	89.7	8.9	25	27	29					
WR CEDAR	510.4	50.5	0	1	1					
R ALDER	715.7	70.8	0	1	2					
TOTAL	22.0	2.2	64	66	67	19	5	2		
CL: 68.1 %	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	55.6	5.5	83	88	93					
WHEMLOCK	85.7	8.5	52	56	61					
WR CEDAR	503.8	49.8	2	4	5					
R ALDER	724.9	71.7	0	2	3					
TOTAL	12.9	1.3	148	150	152	7	2	1		
CL: 68.1 %	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	57.0	5.6	3,278	3,474	3,670					
WHEMLOCK	85.9	8.5	5,682	6,209	6,736					
WR CEDAR	511.6	50.6	88	178	268					
R ALDER	810.1	80.1	9	44	79					
TOTAL	37.9	3.7	9,534	9,905	10,276	57	14	6		

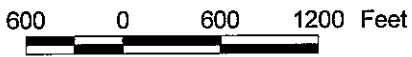
PORTIONS OF SALE AREAS NOT INDICATING CABLE YARDING ARE CONSIDERED GROUND BASED ACCESSIBLE UNLESS SLOPES EXCEED 30 PERCENT



LOGGING PLAN MAP

OF TIMBER SALE CONTRACT NO. 341-07-93
KERRY SALVAGE
PORTIONS OF SECTIONS 12, 13, 14, 15, 21, 22,
23, 24, 25, AND 27, T7N, R6W, W.M.,
CLATSOP COUNTY, OREGON.

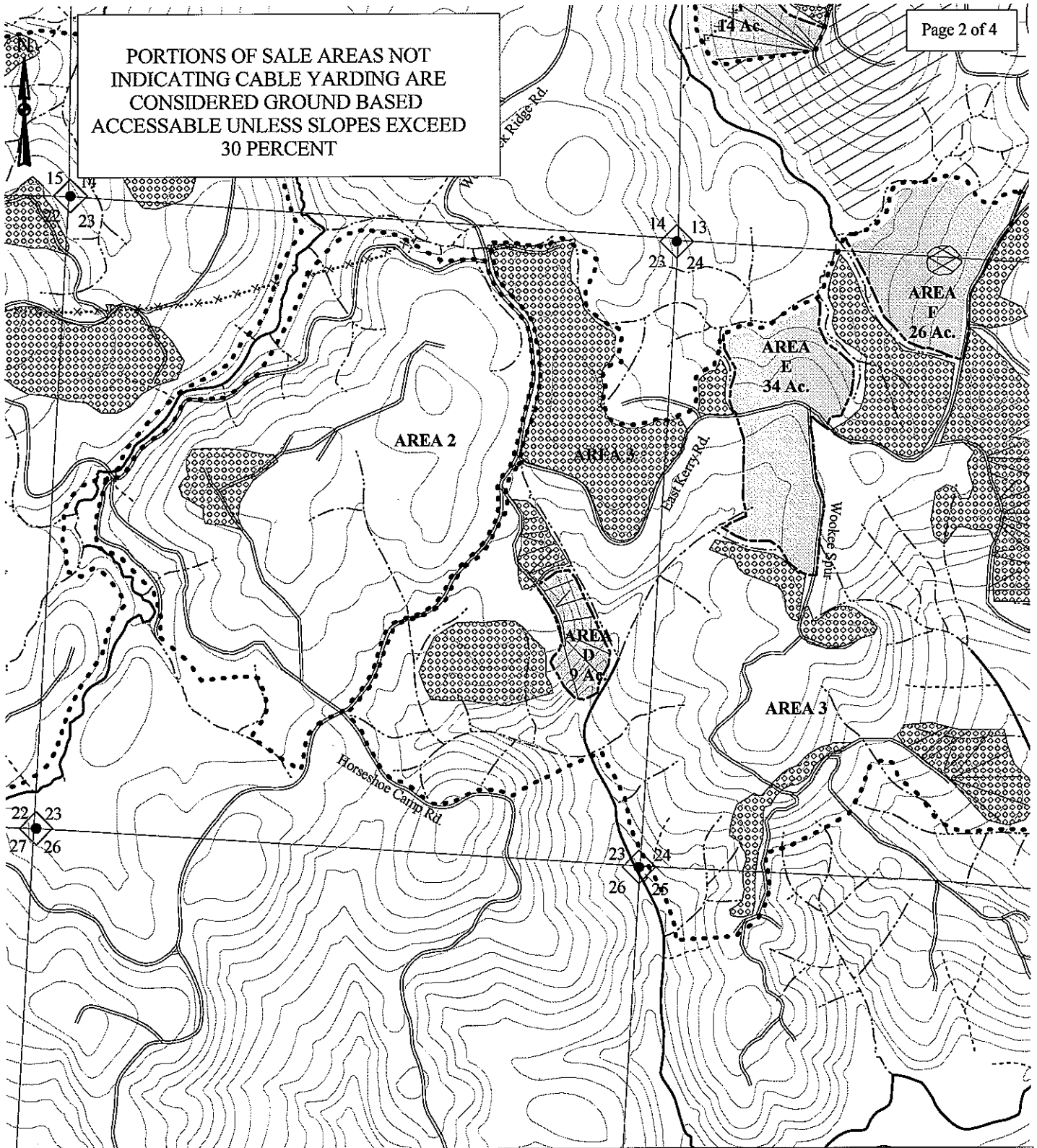
APPROXIMATE SCALE 1" = 1,000'



LEGEND

- Cable Yarding
- Timber Sale Boundary
- Area Boundary
- Ownership Boundary
- Down Wood Boundary
- Reforestation Areas
- Roads
- Streams
- Fish
- Nonfish
- Unknown
- GTRA
- Concentrations of Blowdown
- Modified Clearcuts

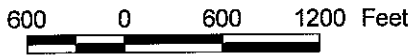
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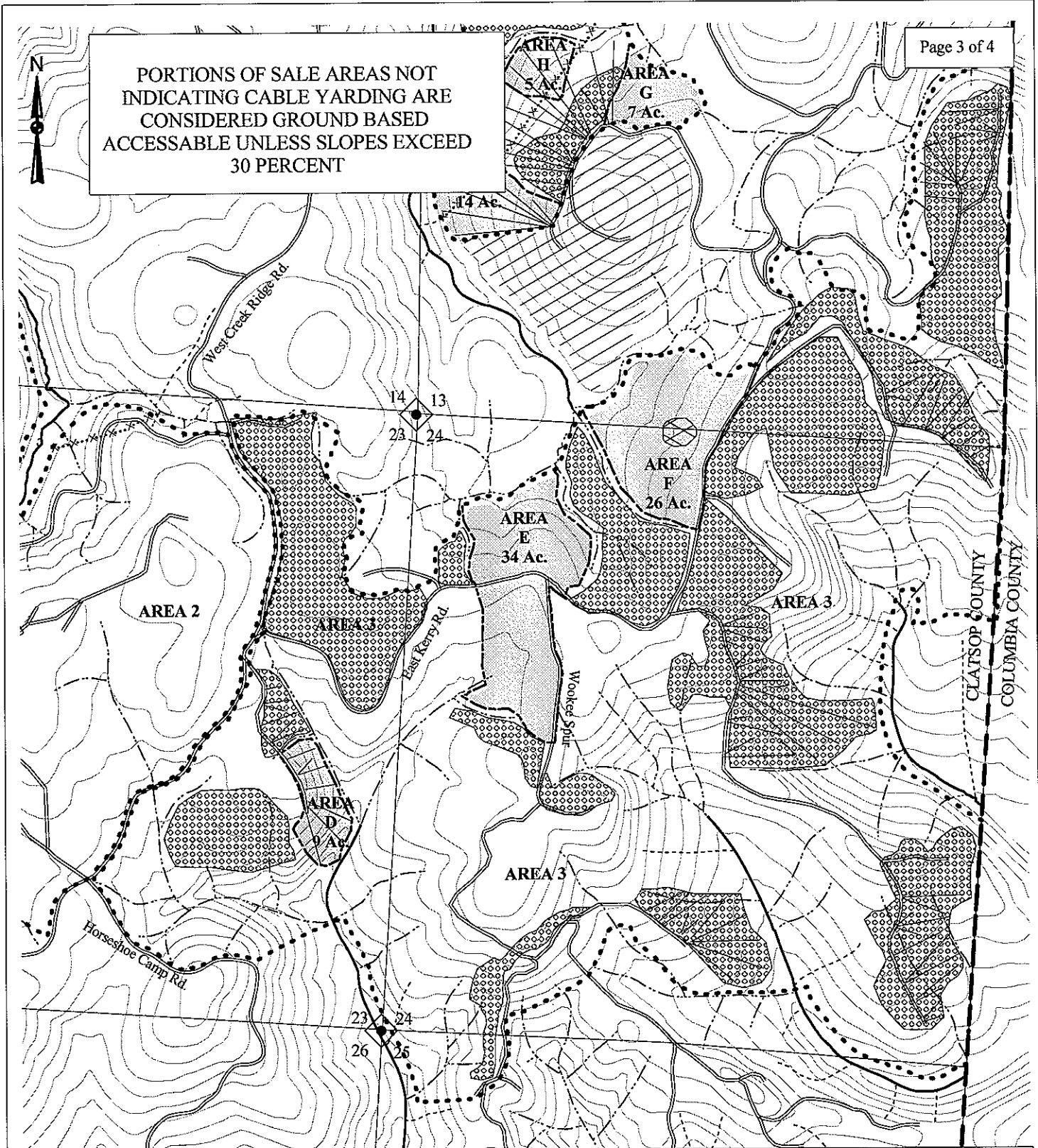
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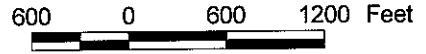
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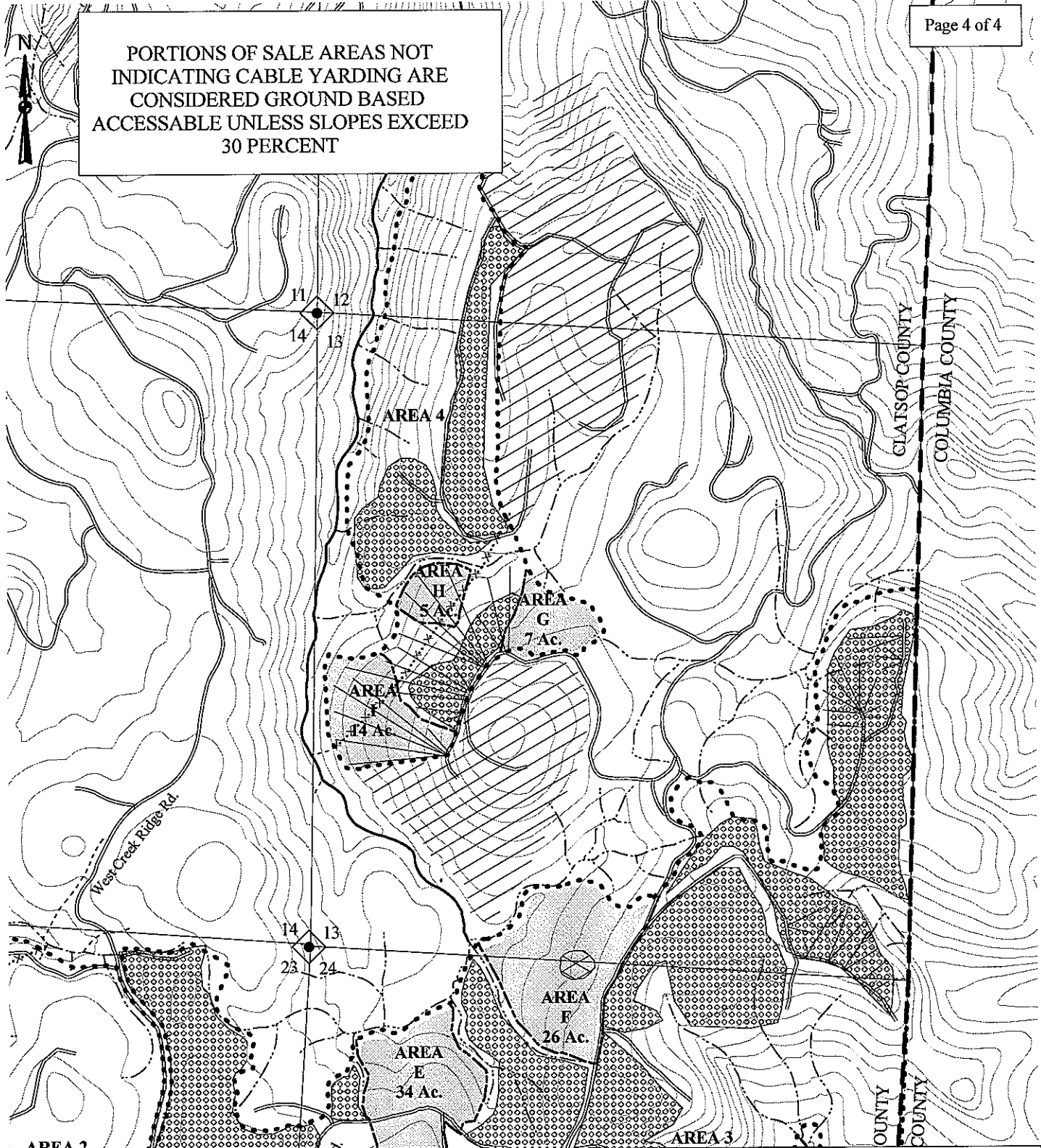
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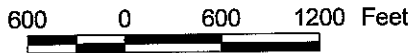
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