



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Gnat Hunt Salvage
Sale 341-07-91

District: Astoria

Date: May 09, 2007

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sales Value	\$388,130.04	\$26,659.16	\$414,789.20
		Project Work:	\$0.00
		Advertised Value:	\$414,789.20



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Timber Description

Location: Sections 23,26,31&36, T8N, R7W; & Section 1, T7N,R7W; & Sections 4,5&6, T7N,R6W; & Sections 28,29,31,32&33, T8N,R6W, WM, Clatsop County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	28	0	95
Western Hemlock / Fir	22	0	95
Red Cedar	14	0	94
Alder (Red)	16	0	94

Volume by Grade	2S	3S	4S	SM	Total
Douglas - Fir	231	13	2	7	253
Western Hemlock / Fir	1,937	196	51	107	2,291
Red Cedar	0	37	9	0	46
Alder (Red)	0	37	7	0	44
Total	2,168	283	69	114	2,634



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

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

Sitka Spruce & Other Conifers Stumpage Price = Pond Value minus Logging Cost
 $\$160/\text{MBF} = \$410/\text{MBF} - \$250/\text{MBF}$

HAULING:

Hauling costs are equivalent to \$700 daily truck cost.

Other Costs (Profit & Risk to be added):

Felling and Bucking: $\$10/\text{MBF} \times 2,634 \text{ MBF} = \$26,340$

Branding and Painting: $\$1/\text{MBF} \times 2,634 \text{ MBF} = \$2,634$

TOTAL Other Costs (P&R to be added) = \$28,974

Other Costs (No Profit & Risk):

Slash Piling with Log Loader:

12 hours X 1 acre/hour X \$87.50/hour = \$1,050

Road Use Fee for access across private property = \$840

TOTAL Other Costs (No P&R) = \$1,890



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Logging Conditions

Combination#: 1

Douglas - Fir	82.00%
Western Hemlock / Fir	82.00%
Red Cedar	82.00%
Alder (Red)	82.00%

Yarding Distance: Medium (800 ft) **Downhill Yarding:** No
Logging System: Track Skidder **Process:** Manual Falling/Delimiting
Tree Size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
Loads / Day: 6.0 **Bd. Ft / Load:** 4,000
Cost / MBF: \$143.35

Machines: Log Loader (B)
Track Skidder

Combination#: 2

Douglas - Fir	10.00%
Western Hemlock / Fir	10.00%
Red Cedar	10.00%
Alder (Red)	10.00%

Yarding Distance: Medium (800 ft) **Downhill Yarding:** No
Logging System: Cable: Small Tower <=40 **Process:** Manual Delimiting
Tree Size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
Loads / Day: 3.0 **Bd. Ft / Load:** 4,000
Cost / MBF: \$225.08

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

Combination#: 3

Douglas - Fir	8.00%
Western Hemlock / Fir	8.00%
Red Cedar	8.00%
Alder (Red)	8.00%

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: 9.0 **Bd. Ft / Load:** 4,000
Cost / MBF: \$69.57

Machines: Shovel Logger



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Logging Costs

Operating Seasons:	1.00	Profit Risk:	18.00%
Project Costs:	\$0.00	Other Costs (P/R):	\$28,974.00
Slash Disposal:	\$0.00	Other Costs:	\$1,890.00

Miles of Road

Road Maintenance: \$5.47

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	2.0	4.0
Red Cedar	\$0.00	3.0	3.0
Alder (Red)	\$0.00	3.0	3.0

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



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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									
\$145.62	\$5.74	\$1.66	\$59.32	\$11.00	\$40.20	\$0.00	\$2.00	\$0.72	\$266.26
Western Hemlock / Fir									
\$145.62	\$5.74	\$1.66	\$77.86	\$11.00	\$43.54	\$0.00	\$2.00	\$0.72	\$288.14
Red Cedar									
\$145.62	\$5.80	\$1.66	\$69.86	\$11.00	\$42.11	\$0.00	\$2.00	\$0.72	\$278.77
Alder (Red)									
\$145.62	\$5.80	\$1.66	\$69.86	\$11.00	\$42.11	\$0.00	\$2.00	\$0.72	\$278.77

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$557.77	\$291.51	\$0.00
Western Hemlock / Fir	\$0.00	\$407.87	\$119.73	\$0.00
Red Cedar	\$0.00	\$1,150.00	\$871.23	\$0.00
Alder (Red)	\$0.00	\$884.66	\$605.89	\$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	253	\$291.51	\$73,752.03
Western Hemlock / Fir	2,291	\$119.73	\$274,301.43
Red Cedar	46	\$871.23	\$40,076.58
Alder (Red)	44	\$605.89	\$26,659.16

Gross Timber Sale Value

Recovery: \$414,789.20

Prepared by: Dan Goody

Phone: 503-325-5451

Road Maintenance Cost Summary (Interim and Post Harvest)

Sale: Gnat Hunt Salvage MBF: 2,634
Date: April 5, 2007 \$\$/MBF: \$5.47
By: Dan Goody

Type	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost
Final Road Maintenance Haul Route Grading	Grader 14G	\$570	1	24	\$84	\$2,586
	Dump Truck 12CY	\$119	1	10	\$59	\$709
	FE Loader C966	\$570	1	8	\$79	\$1,202
Final Road Maintenance w/compaction	Grader 14G	\$570	1	30	\$84	\$3,090
	Dump Truck 12CY (2 @ \$119)	\$119	2	16	\$59	\$1,182
	FE Loader C966	\$570	1	8	\$79	\$1,202
	Vibratory Roller	\$570	1	24	\$79	\$2,466
	Water Truck 2,500 gallon Labor	\$139	1	24	\$70	\$1,819
				8	\$18	\$144
Total						\$14,400

Final Road Maintenance - without compaction

Production Rates	Miles/day	Distance(miles)	Days	Hours
Grader	2.5	6.0	2.4	24.0

Final Road Maintenance - with compaction

Production Rates	Miles/day	Distance(miles)	Days	Hours
Grader	1.5	4.5	3.0	30.0
Vibratory Roller	1.5	4.5	3.0	30.0

Final Road maintenance with process and compaction required on Nicolai Mainline.

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%
W. Hemlock / True Fir	22"	2,291	107	1,937	196	51	86
Douglas-fir	28"	253	7	231	13	2	10
Cedar	14"	46			37	9	2
Alder	16"	44			37	7	2
Totals		2,634					

Defect and breakage was estimated at 20 percent.

9. **Approvals:**

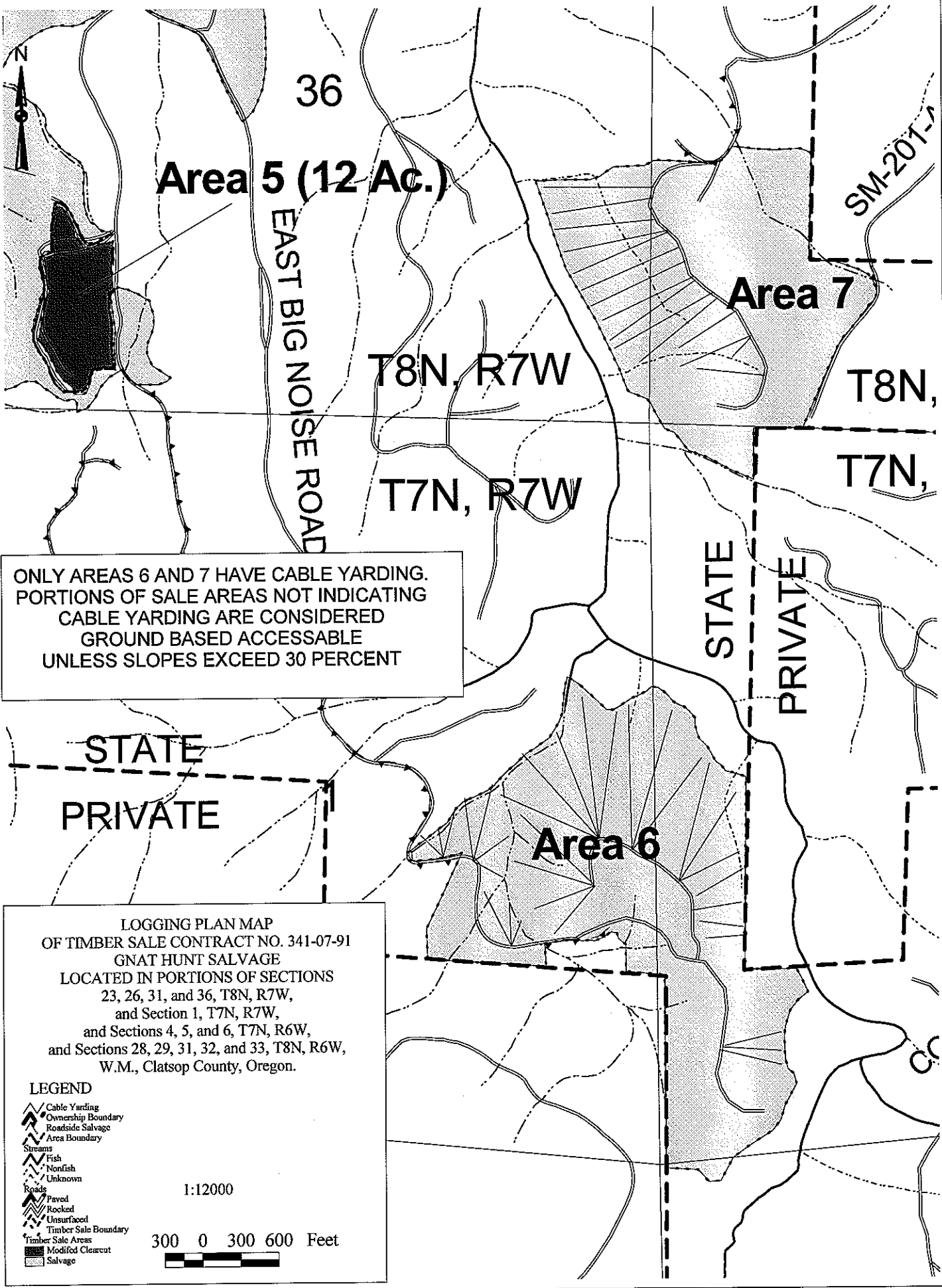
Prepared by: Dan Goody Date: April 5, 2007

10. **Attachments:**

Species, Sort, Grade Report
Stand Summary Report

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)							Page 1											
		Project: GNATHUNT							Date 4/5/2007											
									Time 10:57:51AM											
T8N R6W S28 TSALV										T8N R6W S28 TSALV										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
8N	6W	28	IN UNIT SALV	SALV	286.00	46	99	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	
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
H			4S		55.0	19	8	2	100				100				21	14	0.28	.6
H			DO CU		100.0	91											4		0.00	3.9
H			DO 2S	84	55.3	15,091	6,751	1,931		52	48		9	29	61	35	146	0.89	46.4	
H			DO 3S	9	57.0	1,531	658	188	78	22		3	24	29	45	32	34	0.36	19.3	
H			DO 4S	2	57.7	395	167	48	3	97			26	74		22	14	0.27	11.6	
H			DO SM	5	56.5	859	373	107			100			27	73	37	266	1.34	1.4	
H	Totals			86	55.8	17,985	7,957	2,276	0	9	46	45	1	11	29	59	31	96	0.70	83.3
D			DO CU		100.0	180											4		0.00	3.3
D			DO 2S	91	95.0	16,265	808	231		24	76		1	2	21	76	37	23	0.13	35.3
D			DO 3S	5	95.1	938	46	13	100				10	32	36	22	29	4	0.05	11.3
D			DO 4S	1	95.0	167	8	2	100				77	23			17	2	0.04	4.4
D			DO SM	3	95.0	457	23	7			100				46	54	36	38	0.20	.6
D	Totals			10	95.1	18,008	885	253		6	22	72	2	3	23	72	31	16	0.11	55.0
C			DO 3S	80	75.0	517	129	37		20	80				57	43	34	31	0.29	4.2
C			DO 4S	20	75.0	124	31	9	100				100				17	5	0.10	6.2
C	Totals			2	75.0	641	160	46	19	16	64		19		46	34	24	15	0.21	10.4
SF			DO 2S	42	75.0	91	23	6		100					100		40	50	0.31	.5
SF			DO 3S	50	75.0	107	27	8	25	75				75	25	35	28	0.21	1.0	
SF			DO 4S	8	75.0	15	4	1	100				100				27	7	0.14	.5
SF	Totals			1	75.0	213	53	15		20	80			7	38	55	34	28	0.22	1.9
A			DO 3S	83		130	130	37		100					100		40	150	1.08	.9
A			DO 4S	17		26	26	7		100			100				24	30	0.46	.9
A	Totals			2		156	156	45		100				17	83		32	90	0.84	1.7
Type Totals					75.1	37,002	9,211	2,634	0	10	43	46	1	10	28	60	31	60	0.45	152.3

TC TSTATS		STATISTICS							PAGE	1
		PROJECT GNATHUNT							DATE	4/5/2007
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
8N	6W	28	IN UNIT SALV	SALV	286.00	46	209	1	W	
				TREES	ESTIMATED		PERCENT			
				PER PLOT	TOTAL		SAMPLE			
		PLOTS	TREES		TREES		TREES			
TOTAL		46	209	4.5						
CRUISE		24	99	4.1	15,817		.6			
DBH COUNT										
REFOREST										
COUNT		22	105	4.8						
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
WHEMLOCK	46	28.6	22.5	93		78.7	17,985	7,957	4,048	1,813
DOUG FIR	46	16.6	28.7	108		74.4	18,008	885	3,851	191
WR CEDAR	3	8.3	13.5	31		8.2	641	160	213	53
PS FIR	2	1.0	16.5	70	0	1.4	213	53	57	14
R ALDER	2	.9	16.0	66		1.2	156	156	47	47
TOTAL	99	55.3	23.3	88		164.0	37,002	9,211	8,216	2,118
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
WHEMLOCK	50.6	7.5	26	29	31					
DOUG FIR	45.3	6.7	15	17	18					
WR CEDAR	283.1	41.7	5	8	12					
PS FIR	474.8	70.0	0	1	2					
R ALDER	678.2	99.9	0	1	2					
TOTAL	36.9	5.4	52	55	58			54	14	6
CL: 68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH			5	10	15
WHEMLOCK	47.2	7.0	73	79	84					
DOUG FIR	46.9	6.9	69	74	80					
WR CEDAR	252.9	37.3	5	8	11					
PS FIR	474.3	69.9	0	1	2					
R ALDER	678.2	99.9	0	1	2					
TOTAL	7.7	1.1	162	164	166			2	1	0
CL: 68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH			5	10	15
WHEMLOCK	47.4	7.0	7,402	7,957	8,513					
DOUG FIR	48.5	7.1	822	885	948					
WR CEDAR	255.5	37.6	100	160	221					
PS FIR	477.0	70.3	16	53	91					
R ALDER	678.2	99.9	0	156	311					
TOTAL	33.6	5.0	8,755	9,211	9,668			45	11	5



Area 5 (12 Ac.)

Area 7

T8N, R7W

T8N,

T7N, R7W

T7N,

STATE

PRIVATE

STATE
PRIVATE

Area 6

ONLY AREAS 6 AND 7 HAVE CABLE YARDING.
PORTIONS OF SALE AREAS NOT INDICATING
CABLE YARDING ARE CONSIDERED
GROUND BASED ACCESSABLE
UNLESS SLOPES EXCEED 30 PERCENT

LOGGING PLAN MAP
OF TIMBER SALE CONTRACT NO. 341-07-91
GNAT HUNT SALVAGE
LOCATED IN PORTIONS OF SECTIONS
23, 26, 31, and 36, T8N, R7W,
and Section 1, T7N, R7W,
and Sections 4, 5, and 6, T7N, R6W,
and Sections 28, 29, 31, 32, and 33, T8N, R6W,
W.M., Clatsop County, Oregon.

LEGEND

- Cable Yarding
- Ownership Boundary
- Roadside Salvage
- Area Boundary
- Streams
- Fish
- Nonfish
- Unknown
- Roads
- Paved
- Rocked
- Unsurfaced
- Timber Sale Boundary
- Timber Sale Areas
- Modified Clearcut
- Salvage

1:12000

300 0 300 600 Feet