PRE-CRUISE NARRATIVE

Sale Name: *GOING BEYOND*	**Region:** NORTHWEST REGION
App. #: *30-075639*	**District:** KULSHAN
Contact forester: MEGAN PENNEY	**Phone/ location:** (360)592-2311, DEMING WORKCENTER
Alternate contact: DOUG HOOKS	**Phone/ location:** (360)592-2311, DEMING WORKCENTER

UNIT ACREAGES AND METHOD OF DETERMINATION:

Unit #	Legal Descr. Sec/Twp/Rng	Grant	Gross acres	Net acres	Method of acreage determination (compass chain traverse, photo, declination used, etc)	Error of closure
1	Sec 05 & 04, 37N, 05E	01	76.12	73.5	GPS BOUNDARY TRAVERSE	N/A
Total			76.12	73.5		

HARVEST PLAN AND SPECIAL CONDITIONS:

Unit #	Harvest prescription: (mark leave, take, etc)	Special management areas:	Other conditions (# leave trees, etc.)
1	ALL TIMBER IS TO BE REMOVED WITHIN TIMBER SALE BOUNDARY TAGS, EXCLUDING LEAVE TREES MARKED WITH BLUE PAINT, OR WITHIN YELLOW LEAVE TREE TAGS, STUMPS, DOWN TREES AND SNAGS.	.44 AC. WETLAND ON EASTERN EDGE OF SALE, 100' WMZ TAGGED WITH TIMBER SALE TAGS	TOTAL # OF LEAVE TREES- 608 12 GT PATCHES 234 PAINTED /SCATTERED

OTHER PRE-CRUISE INFORMATION:

Unit #	Estimated Volume	Access information (Gates, locks, etc.)	Photos, traverse maps required
1	1,879.9 MBF CONIFER 1,061.0 MBF HARDWOOD	NO GATES, SOUTHERN MOST PART OF VAN ZANDT DIKE, IMMEDIATELY OFF OF THE N-1000 MAINLINE (OLD ACME DUMP)	SEE ATTACHED MAPS- TRAVERSE AND TIMBER SALE MAP

REMARKS:

The units are bounded by Timber Sale Boundary tags and pink flashers adjacent to mature timber.
There are nursery tags at each traverse station. Please see the attached maps. There is access to the western ½ of the sale via "Wild Rose Lane" off of highway 9, just North of Acme. I have spoken to the immediately adjacent landowner and they have no problems with us using that road to gain access to the western/lower ½ of the sale. There is an old fire line/trail off of the pull off on N-1000 that runs down the SE- South side of the sale down to the old road. The timber sale boundary is flagged in red, silviculture tags are flagged in pink, the wetland WMZ is flagged in blue-yellow and red. Please let me know if you have any problems. M.Penney

Prepared by:
Megan Penney

Title:
Forester 1,
Kulshan Unit

CC:

Cruise Narrative

Sale Name:	GOING BEYOND	**Region:**	NORTHWEST
App. #:	75639	**District:**	BAKER
Lead cruiser:	JIM PAST	**Completion date:**	02/27/04
Other cruisers on sale:	KEN MCGEE		

Unit acreage specifications:

Unit #	Cruised acres	Cruised acres agree with sale acres? Yes/No	If acres do not agree explain why.
1	73.5	YES	

Unit cruise specifications:

Unit #	Sample type (VP, FP, ITS,100%)	Expansion factor (BAF, full/ half)	Sighting height (4.5 ft, 16 ft.)	Grid size (Plot spacing or % of area)	Plot ratio (cruise: count)	Total number of plots
320'X150'	VP	46.95	4.5	320'X150'	1:1	60

Sale/Cruise Description:

Minor species cruise intensity:	VP CRUISED MINOR SPECIES THE SAME AS MAJOR SPECIES					
Minimum cruise spec:	MINIMUM TOP DIAMETER: 5 INCHES OR 40% OF 16' MINIMUM DBH: 8 INCHES					
Avg ring count by sp:	**DF =**	6	**WH =**	7	**SS =**	
Leave/take tree description:	TAGGED OUT LTA'S HAVE BEEN DEDUCTED FROM GROSS ACREAGE, BLUE PAINTED LEAVE TEES WERE IGNORED ON ALL PLOTS.					
Other conditions	VARIABLE STAND. MOSTLY CONIFER TO THE SOUTH WITH MORE HARDWOODS TO THE CENTER AND NORTH.					

Field observations:

Grants: 01 100%_____ _____ _____ _____ _____

Prepared by: JIM PAST

Title: NORTHWEST REGION FOREST CRUISER

CC: WALTER PARKER

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T37N R05E S05 TyU-1 73.50

Project: GOBEYOND

Acres 73.50

Page 1
Date 2/27/2004
Time 7:05:20AM

Spp	S T So rt Gr ad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent of Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Bd Ft	CF/ Lf	Logs Per /Acre
BM	DM2S	37	15.3	2,049	1,734	127		8	53	40			100		32	213	1.88	8.1
BM	DM3S	30	28.3	1,953	1,400	103		36	38	25			100		32	136	1.44	10.3
BM	DM4S	33	60.2	3,712	1,479	109	24	51	20	4	3	18	79		22	20	0.63	72.3
BM	**Totals**	15	40.2	7,714	4,613	339	8	30	38	24	1	6	93		24	51	0.89	90.7
DF	DM3P	6		1,254	1,254	92				100			100		32	923	5.11	1.4
DF	DMSM	11		2,142	2,142	157				100			100		32	567	3.25	3.8
DF	DM2S	66	4.7	13,035	12,425	913		0	27	73			100		32	402	2.42	30.9
DF	DM3S	14	5.2	2,719	2,579	190	2	62	31	4	1	6	93		31	97	0.80	26.5
DF	DM4S	3	8.8	606	552	41	14	81	5		45	22	33		14	24	0.50	23.0
DF	**Totals**	60	4.1	19,756	18,952	1,393	1	11	22	66	1	1	97		27	222	1.67	85.6
RC	DM3S	86	1.8	2,037	2,000	147	1	38	22	39		3	97		31	121	1.36	16.5
RC	DM4S	14		323	323	24	93	7			32	68			13	15	0.35	21.6
RC	**Totals**	7	1.6	2,361	2,323	171	14	33	19	34	4	12	84		21	61	1.01	38.1
RA	DM2S	41	3.0	1,762	1,710	126		18	62	21			100		32	188	1.42	9.1
RA	DM3S	25	3.9	1,054	1,013	74		83	17				100		32	112	0.90	9.0
RA	DM4S	34	27.4	1,903	1,381	101	22	78			11	17	72		24	30	0.47	45.5
RA	**Totals**	13	13.0	4,718	4,103	302	8	54	30	9	4	6	91		26	64	0.71	63.6
WH	DM2S	36		305	305	22			100				100		32	230	1.52	1.3
WH	DM3S	36	14.3	356	306	22		100					100		32	101	0.91	3.0
WH	DM4S	28		227	227	17	88	12			12	88			21	22	0.25	10.5
WH	**Totals**	3	5.7	888	837	62	24	40	36		3	24	73		25	56	0.57	14.8
CW	DM1S	95	3.1	728	705	52				100			100		32	767	4.20	.9
CW	DM4S	5	45.1	62	34	3			100				100		21	53	1.52	.6
CW	**Totals**	2	6.4	790	739	54			5	95			100		28	475	3.35	1.6
Totals			12.9	36,226	31,568	2,320	4	22	25	49	2	4	94		25	107	1.10	294.4

PROJECT STATISTICS

PROJECT GOBEYOND

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
37N	05E	05	GOING BEYOND	U-1	73.50	60	290	S	W

TC PSTATS

PROJECT STATISTICS

PROJECT GOBEYOND

DATE 2/27/2004

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
37N	05E	05	GOING BEYOND	U-1	73.50	60	290	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	60	290	4.8		
CRUISE	28	141	5.0	9,060	1.6
DBH COUNT					
REFOREST COUNT	29	149	5.1		
BLANKS	3				
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR	56	25.6	24.7	96	18	85.3	19,756	18,952	3,820	3,820
BL MAPLE	36	39.7	16.9	61		61.8	7,714	4,613	1,982	1,981
R ALDER	23	27.0	15.8	67		36.8	4,718	4,103	1,185	1,184
WR CEDAR	21	19.9	17.0	46		31.3	2,361	2,323	800	801
WHEMLOCK	3	10.5	11.7	41	2	7.8	888	837	208	208
COTWOOD	2	.5	35.3	97		3.1	790	739	144	144
TOTAL	*141*	*123.3*	*18.3*	*66*		*226.1*	*36,226*	*31,568*	*8,140*	*8,137*

SD: 1	COEFF VAR.	S.E.%	SAMPLE TREES - BF LOW	AVG	HIGH	# OF TREES REQ. 5	7	INF. POP. 10
DOUG FIR	156.0	13.1	384	442	500			
BL MAPLE	229.5	19.3	37	46	55			
R ALDER	270.2	22.8	23	30	37			
WR CEDAR	329.1	27.7	24	34	43			
WHEMLOCK	871.9	73.4	1	4	6			
COTWOOD	882.0	74.3	6	25	43			
TOTAL	*111.4*	*9.4*	*525*	*580*	*634*	*497*	*253*	*124*

SD: 1	COEFF VAR.	S.E.%	TREES/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	125.2	16.2	21	26	30			
BL MAPLE	124.4	16.1	33	40	46			
R ALDER	125.8	16.2	23	27	31			
WR CEDAR	169.5	21.9	16	20	24			
WHEMLOCK	384.9	49.7	5	10	16			
COTWOOD	471.5	60.9	0	0	1			
TOTAL	*60.4*	*7.8*	*114*	*123*	*133*	*146*	*74*	*36*

SD: 1	COEFF VAR.	S.E.%	BASAL AREA/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	116.2	15.0	72	85	98			
BL MAPLE	111.4	14.4	53	62	71			
R ALDER	122.3	15.8	31	37	43			
WR CEDAR	162.6	21.0	25	31	38			
WHEMLOCK	369.1	47.7	4	8	12			
COTWOOD	467.6	60.4	1	3	5			
TOTAL	*45.1*	*5.8*	*213*	*226*	*239*	*82*	*42*	*20*

SD: 1	COEFF VAR.	S.E.%	NET BF/ACRE LOW	AVG	HIGH	# OF PLOTS REQ. 5	7	INF. POP. 10
DOUG FIR	117.1	15.1	16,086	18,952	21,817			
BL MAPLE	115.4	14.9	3,926	4,613	5,301			
R ALDER	119.1	15.4	3,472	4,103	4,734			
WR CEDAR	172.4	22.3	1,806	2,323	2,840			
WHEMLOCK	374.2	48.3	433	837	1,241			
COTWOOD	468.8	60.5	292	739	1,187			
TOTAL	*63.9*	*8.2*	*28,965*	*31,568*	*34,170*	*163*	*83*	*41*

TC PSTNDSUM

Stand Table Summary

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Date: 2/27/2004

T37N R05E S05 TyU-1 73.50

Project GOBEYOND
Acres 73.50

Time: 6:49:46AM
Grown Year:

Spc	S T	DBH	Sample Trees	FF 16'	Tot Av Ht	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		12	3	87	85	5.695	4.57	15.14	8.4	36.2	3.62	127	548	266	93	40
DF		16	1	86	112	1.091	1.52	3.27	18.2	73.3	1.70	59	240	125	44	18
DF		17	1	85	119	1.013	1.52	3.04	20.9	93.3	1.81	63	284	133	47	21
DF		18	1	86	115	.834	1.52	2.50	24.0	103.3	1.71	60	258	126	44	19
DF		20	1	90	124	.698	1.52	2.09	31.7	156.7	1.89	66	328	139	49	24
DF		21	2	88	137	1.298	3.05	5.19	28.1	139.7	4.16	146	725	305	107	53
DF		24	4	87	128	1.939	6.09	6.79	39.6	140.7	7.68	269	955	565	198	70
DF		25	3	85	131	1.340	4.57	4.91	41.7	206.4	5.84	205	1,014	429	151	75
DF		26	5	85	122	2.065	7.62	6.61	48.7	231.9	9.18	322	1,533	675	237	113
DF		27	3	82	131	1.149	4.57	4.21	47.0	220.0	5.65	198	927	415	146	68
DF		28	3	86	123	1.069	4.57	3.56	54.6	256.0	5.53	194	912	407	143	67
DF		29	5	86	132	1.660	7.62	5.64	61.6	307.1	9.90	347	1,733	728	255	127
DF		30	1	86	132	.310	1.52	1.24	56.1	277.5	1.98	70	344	146	51	25
DF		31	3	85	135	.872	4.57	3.49	59.7	243.3	5.93	208	849	436	153	62
DF		32	5	85	147	1.364	7.62	5.45	69.0	382.0	10.73	376	2,083	789	277	153
DF		33	4	86	141	1.026	6.09	3.85	76.4	421.3	8.37	294	1,621	615	216	119
DF		34	2	85	138	.483	3.05	1.69	85.3	461.4	4.11	144	780	302	106	57
DF		35	1	86	158	.228	1.52	.91	89.4	522.5	2.32	81	476	171	60	35
DF		36	2	87	145	.431	3.05	1.72	87.8	515.0	4.31	151	888	317	111	65
DF		37	1	86	137	.204	1.52	.82	88.9	510.0	2.07	73	416	152	53	31
DF		38	1	86	149	.193	1.52	.77	100.4	592.5	2.21	78	458	163	57	34
DF		40	1	85	125	.175	1.52	.70	96.4	520.0	1.92	67	363	141	49	27
DF		41	1	82	162	.166	1.52	.66	120.0	690.0	2.27	80	458	167	59	34
DF		42	2	85	129	.317	3.05	1.27	106.2	581.2	3.83	134	736	282	99	54
DF		Totals	56	86	120	25.620	85.29	85.55	44.6	221.3	108.74	3,815	18,931	7,993	2,804	1,391
BM		8	1	82	38	4.919	1.72	4.92	5.3	20.0	.70	26	98	51	19	7
BM		11	1	82	74	2.602	1.72	5.20	9.0	15.0	1.26	47	78	93	34	6
BM		12	2	82	61	4.373	3.43	8.75	9.5	5.0	2.21	83	44	162	61	3
BM		14	2	83	77	3.259	3.43	6.52	15.7	29.7	2.72	102	194	200	75	14
BM		15	3	83	79	4.224	5.15	9.95	15.2	44.0	3.99	151	437	293	111	32
BM		16	3	84	75	3.676	5.15	8.54	17.2	42.9	3.90	147	366	287	108	27
BM		17	2	83	69	2.232	3.43	4.46	20.7	49.5	2.46	92	221	181	68	16
BM		18	3	83	84	2.915	5.15	7.77	21.0	43.7	4.31	163	340	317	120	25
BM		19	3	82	88	2.616	5.15	7.85	21.5	44.4	4.45	168	349	327	124	26
BM		20	1	82	98	.828	1.72	2.48	24.3	50.0	1.60	60	124	118	44	9
BM		21	3	83	97	2.142	5.15	6.43	29.0	75.6	4.95	186	485	364	137	36
BM		23	2	83	96	1.190	3.43	3.57	34.2	96.7	3.23	122	345	238	90	25
BM		24	4	83	103	2.186	6.87	6.56	39.6	93.3	6.88	260	612	506	191	45
BM		25	2	78	91	1.007	3.43	3.02	38.2	121.7	3.06	115	368	225	85	27
BM		27	2	83	95	.864	3.43	2.59	46.1	71.7	3.17	119	186	233	88	14
BM		28	1	83	88	.402	1.72	1.20	48.3	126.7	1.54	58	153	114	43	11
BM		32	1	82	117	.307	1.72	.92	77.0	176.7	1.88	71	163	138	52	12
BM		Totals	36	83	76	39.744	61.82	90.74	21.7	50.3	52.33	1,973	4,563	3,846	1,450	335
RA		11	1	80	85	2.320	1.53	4.64	9.8	45.0	1.26	46	209	92	34	15
RA		12	1	85	74	1.949	1.53	3.90	11.7	35.0	1.26	45	136	93	33	10
RA		13	1	86	100	1.661	1.53	4.98	11.2	46.7	1.53	56	233	113	41	17
RA		14	4	85	71	5.729	6.12	11.46	15.4	48.8	4.84	176	559	356	130	41
RA		15	2	84	89	2.495	3.06	7.49	13.2	41.7	2.73	99	312	200	73	23
RA		16	3	87	81	3.418	4.59	7.99	18.4	64.2	4.06	147	513	298	108	38
RA		17	2	85	80	1.943	3.06	4.86	20.1	78.0	2.69	98	379	198	72	28
RA		18	2	83	76	1.733	3.06	3.47	27.0	75.0	2.57	93	260	189	69	19
RA		19	3	86	81	2.341	4.59	5.47	27.5	95.6	4.14	150	523	304	111	38