



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Oscar
Sale 341-11-13

District: Astoria

Date: April 13, 2011

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,259,064.60	\$35,144.76	\$1,294,209.36
		Project Work:	\$(7,701.00)
		Advertised Value:	\$1,286,508.36



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timber description

Location: Portions of Section 31, T8N, R6W, and portions of Section 36, T8N, R7W, W.M., Clatsop County, Oregon.

Stand Stocking: 95%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	24	0	97
Western Hemlock / Fir	16	0	95
Alder (Red)	17	0	97

Volume by Grade	2S	3S	4S	Camprur	Total
Douglas - Fir	2,475	539	41	0	3,055
Western Hemlock / Fir	492	287	35	0	814
Alder (Red)	0	0	0	98	98
Total	2,967	826	76	98	3,967



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comments: Pond Values Used: 1st Quarter Calendar Year 2011.

Expected Log Markets: Clatskanie, Tillamook, Longview, Mist, Warrenton

Western redcedar and Other Cedars Stumpage Price = Pond Value
minus Logging Cost
 $\$757.90/\text{MBF} = \$950.00/\text{MBF} - \$192.10/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (with Profit & Risk to be added):

100% Brand and Paint: $\$1/\text{MBF} \times 3,967 \text{ MBF} = \$3,967$

Log Loader Slash & Landing Piling (includes Move-In and Pile Materials): = \$4,780 (see attached appraisal)

Machine washing for invasive weed compliance = \$2,000

Additional felling and bucking costs to avoid breakage: $\$1/\text{MBF} \times 3,967 \text{ MBF} = \$3,967$

TOTAL Other Costs (with Profit & Risk to be added) = \$14,714

Other Costs (No Profit & Risk added):

Waterbar and block dirt road segments after harvest:

$\$13.85/\text{station} \times 12 \text{ stations} = \166.20

TOTAL Other Costs (No Profit & Risk added) = \$166.20



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logging conditions

combination#: 1 Douglas - Fir 56.00%
 Western Hemlock / Fir 56.00%
 Alder (Red) 56.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Large Tower >=70 **Process:** Manual Falling/Delimiting
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 8.0 **bd. ft / load:** 4,600
cost / mbf: \$100.37

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

combination#: 2 Douglas - Fir 44.00%
 Western Hemlock / Fir 44.00%
 Alder (Red) 44.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process:** Manual Falling/Delimiting
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 9.0 **bd. ft / load:** 4,600
cost / mbf: \$60.50

machines: Shovel Logger



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logging costs

Operating Seasons:	1.00	Profit Risk:	12.00%
Project Costs:	\$7,701.00	Other Costs (P/R):	\$14,714.00
Slash Disposal:	\$0.00	Other Costs:	\$166.00

Miles of Road

Road Maintenance: \$2.66

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	4.2
Western Hemlock / Fir	\$0.00	2.0	4.1
Alder (Red)	\$0.00	3.0	3.0



Timber Sale Appraisal
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"STEWARDSHIP IN FORESTRY"

District: Astoria

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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									
\$82.83	\$2.74	\$1.11	\$76.63	\$3.71	\$20.04	\$0.00	\$5.00	\$0.04	\$192.10
Western Hemlock / Fir									
\$82.83	\$2.79	\$1.11	\$80.03	\$3.71	\$20.46	\$0.00	\$5.00	\$0.04	\$195.97
Alder (Red)									
\$82.83	\$2.74	\$1.11	\$71.52	\$3.71	\$19.43	\$0.00	\$5.00	\$0.04	\$186.38

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$538.02	\$345.92	\$0.00
Western Hemlock / Fir	\$0.00	\$444.47	\$248.50	\$0.00
Alder (Red)	\$0.00	\$545.00	\$358.62	\$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
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,055	\$345.92	\$1,056,785.60
Western Hemlock / Fir	814	\$248.50	\$202,279.00
Alder (Red)	98	\$358.62	\$35,144.76

Gross Timber Sale Value

Recovery: \$1,294,209.36

Prepared by: Jon Long

Phone: 503-325-5451

Site Prep Appraisal

Sale Number: 341-11-13
Sale Name: Oscar
Date: 02/11/2011

Vegetation Type/Zone	Vegetation Type/Zone Code	Production Rate (hr/ac)	Estimated Piles/Acre
Doug-fir	A	1.0	3.0
Hemlock/Fir	B	1.5	4.5
Hemlock/Spruce	C	2.0	6.0
Hemlock	D	2.0	6.0
Conifer/Hardwood	E	1.5	4.5

Sale Area	Harvest Type	Veg Type/Zone	Ground Based Yarding Acres	Estimated Piling Hours/Area	Cost/Hour	Total Cost/Area
1	MC	A	26	26	\$110.00	\$2,860.00
						\$0.00
						\$0.00
Sub Total =						\$2,860.00
Sale Area	Number of Landings to be Piled	Cost/Landing Pile*	Total Cost/Area	Number of In-Unit Piles	Material Cost/Pile	Total Cost/Area
1	3	\$195.00	\$585.00	78	\$5.00	\$390.00
						\$0.00
						\$0.00
Sub Total =						\$975.00
*No firewood piling						
Move-In Allowance	Number of Move-In's	Total Move-In Allowance				
\$945.00	1	\$945.00	Sub Total = \$945.00			
Grand Total =						\$4,780.00

Road Maintenance Cost Summary (Interim and Post Harvest)

Sale: Oscar
 Date: February 10, 2011
 By: B. Rodgers

MBF: 3,967
 \$\$/MBF: \$2.66

Type	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost
Progressive Operations Entries (1)	Grader 14G	\$675	1	8	\$93	\$1,419
	Grader 14G	\$675	1	30	\$93	\$3,465
Final Haul	Dump Truck 12CY	\$141	1	4	\$73	\$433
Road	FE Loader C966	\$675	1	4	\$77	\$983
Maintenance	Vibratory Roller	\$675	1	30	\$72	\$2,835
Haul Route	Water Truck 2,500 gallon	\$165	1	15	\$83	\$1,410
Total						\$10,545

Interim Maintenance (1)

Production Rates
 Grader

Miles/day	Distance(miles)	Days	Hours
5.0	5.0	1	8

Final Road Maintenance

Production Rates
 Grader
 Vibratory Roller

Miles/day	Distance(miles)	Days	Hours
1.5	5.0	3.0	30.00
1.5	5.0	3.0	30.00

***Maintenance calculations were determined as follows:**

Haul Route is determined from sale areas north to Highway 30
 Shingle Mill Road and working spurs.

Total Miles: 5 Miles

SUMMARY OF ALL PROJECT COSTS

SALE NAME: Oscar

NEW CONSTRUCTION:

	<u>Road segment</u>	<u>Length/Sta</u>	<u>Cost</u>
Dirt Roads	1A-1B, 1C-1D	12.00	\$4,304.00
	TOTALS	12.00	\$4,304.00

ROAD IMPROVEMENT:

<u>Road segment</u>	<u>Length/Sta</u>	<u>Cost</u>
TOTALS		

SPECIAL PROJECTS:

<u>Description</u>	<u>Cost</u>
TOTAL	

MOVE IN:

<u>Equipment</u>	<u>Cost</u>
D-8 Dozer	\$1,220.00
10-12cy Dump Trucks x 2	\$282.00
Front End Loader (966)	\$675.00
Excavator (C330)	\$1,220.00
TOTAL	\$3,397.00

GRAND TOTAL \$7,701.00

Compiled By: B. Rodgers

Date: 03/10/2011

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Oscar
 ROAD: 1A to 1B(3.5) 1C to 1D(8.5)
 POINTS:

NEW CONSTRUCTION: 12.00 STATIONS
 IMPROVEMENT: STATIONS

0.23 MILES
 MILES

CLEARING & GRUBBING						
Method	Acres/amount	x	Rate	=	Cost	
1A - 1B, 1C - 1D Scatter Outside of R/W	1.00	x	\$1,161.00	=	\$1,161.00	
		x		=		
		x		=		
		x		=		
SUB TOTAL FOR CLEARING & GRUBBING					\$1,161	

EXCAVATION						
Material	Cy/amount	x	Rate	=	Cost	
1A - 1B, 1C - 1D Balanced Construction	12.00	x	\$106.00	=	\$1,272.00	
Landing Construction	2.00	x	\$338.00	=	\$676.00	
		x		=		
		x		=		
		x		=		
		x		=		
		x		=		
		x		=		
		x		=		
		x		=		
		x		=		
		x		=		
SUB TOTAL FOR EXCAVATION					\$1,948	

CULVERT MATERIALS AND INSTALLATION										
Location	Dia/type	Lineal ft.	Rate	Cost	Location	Dia/type	Lineal ft.	Rate	Cost	

Other/miscellaneous:	Description	Quantity	Rate	Cost
Culvert stakes & markers:				
SUB TOTAL FOR CULVERT MATERIALS & INSTALLATION				

Subtotal of Clearing, Exc., Culv. **\$3,109**

SURFACING		Subgrade prep:	Description	Stations/ amount	x	Rate/ sta/amt	Cost
			Shape and outside dirt road surface (with cat or grader)	12.00	x	\$15.93	\$191.16
					x		\$0.00

ROAD SEGMENT		1A to 1B		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	1A to 1B Volume (CY) per	Number of	0+00 to 3+50				
Junction Rock	4"-0" crushed	0+00	N/A	junction	55	junctions	1.00	55	\$9.13	\$502
Total Rock for Road Segment:				1A to 1B				55		\$502
ROAD SEGMENT		1C to 1D		POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	1C to 1D Volume (CY) per	Number of	0+00 to 8+50				
Junction Rock	4"-0" crushed	0+00	N/A	junction	55	junctions	1.00	55	\$9.13	\$502
Total Rock for Road Segment:				1C to 1D				55		\$502
Processing:		Description		No.sta	Rate/sta	Cost				
		Water, Process & Compact:						\$0		
SUB TOTAL FOR SURFACING				110		110		110		\$1,195

SPECIAL PROJECTS		Description	Cost
SUB TOTAL FOR SPECIAL PROJECTS			\$0

Subtotal of Surfacing & Spec. Proj. \$1,195
Subtotal of Clearing, Exc., Culv. \$3,109

GRAND TOTAL **\$4,304**

Compiled By: B. Rodgers

Date: 03/10/2011

**Oscar
TIMBER CRUISE REPORT
FY 2011**

1. **Sale Area Location:** Area 1 and Area 1 R/W is located in Portions of Section 31, T8N, R6W, and Portions of Section 36, T8N, R7W, W.M., Clatsop County, Oregon.

2. **Fund Distribution:** BOF 100%
Tax Code 1-03 (100%)

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Existing R/W	New R/W	Stream Buffer	Net Acres	Survey Method
1	Modified Clearcut	61	0	1	2	58	GIS
2 R/W	Clearcut	0	0	0	0	1	GIS
TOTALS		61	0	1	2	59	

4. **Cruisers and Cruise Dates:** Area 1 was cruised by Bryce Rodgers, Jon Long, Jay Morey, and Ed Holloran on February 09, 2011.

5. **Cruise Method and Computation:**

Area 1 is a modified clearcut unit and was variable plot cruised using a 54 BAF for conifer and a 20 BAF for hardwoods. These plots are located on a 6 chain by 5 chain grid, with every plot measured and graded. A total of 19 plots were sampled.

Area 2 R/W The right-of-way volume within the harvest area was calculated by multiplying the R/W acreage and the total volume per acre from the plots in Area 1. In-sale right-of-way totals approximately 1 acre.

All cruisers used Corvallis MicroTechnology (CMT) and were downloaded to the Atterbury Super A.C.E. program in District for computing. See the attached Cruise Design for more details on the cruise method. The cruise calculations were processed in the Astoria district office.

AREA	CRUISE	TRACT	TYPE	ACRES
1	08N07W SEC 36	AREA 1	TAKE	58
2 R/W	08N07W SEC 36	AREA 1	A2RW	1

6. **Timber Description**

Area 1 is a modified clearcut unit, approximately 75 years-old, consisting of Douglas-fir, western hemlock, and patches of red alder. The average volume (net) is approximately 67 MBF/acre.

Area 2 R/W is similar to the timber description mentioned above. The average volume (net) is approximately 70 MBF/acre.

7. **Statistical Analysis and Stand Summary:** (See "Statistics" - Type Reports, attached)

Statistics for Stand B.F. volumes

Area	Estimated CV	Target SE%	Actual CV	Actual SE%
1 (MC)	40%	9%	31.6%	7.4%

8. Volumes by Species and Log Grade: (See "Species, Sort, Grade - Type and Project Reports, attached, of individual sale areas and combined areas and three cruise types).

Volumes by Species and Grade for All Sale Areas: (MBF) Volumes do not include "in-growth."

Species	DBH	Net Vol.	2 Saw	3Saw	4 Saw	CampRun	% D & B	% Sale
Douglas-fir	24	3,055	2,475	539	41		2.5	77
Western hemlock	16	814	492	287	35		5.2	21
Alder	17	98				98	2.6	2
TOTALS		3,967						100

9. Approvals:

Prepared by: Bryce Rodgers Date: February 10, 2011

Unit Forester Approval:  Date: 3/4/2011

10. Attachments:

- Cruise Design - 2 pages
- Cruise Maps- 1 pages
- Volume Reports(take) - 3 pages
- Statistics Reports – 2 pages
- Log Stock Tables(take) – 2 pages
- Stand Table(take)

X:\Sunset_Unit\Timber Sales\2011\Ocar\Cruise\CruiseReport.doc

**CRUISE DESIGN
ASTORIA DISTRICT**

Sale Name: Oscar Areas 1

Harvest Type: (CC) Clearcut

Approx. Cruise Acres: 59 Estimated CV% 40 Net BF/Acre SE% Objective 9

Planned Sale Volume : 3,540 MBF Estimated Sale Area Value/Acre: \$21,000/Ac
(60 MBF/Ac.)

A. **Cruise Goals:** (a) Grade minimum 100 conifer and hardwood trees:
(b) Sample 19 cruise plots (1 grade/ 1 count); (c) Other goals (X Determine volume and quality

B. Cruise Design:

1. **Plot Cruises:** BAF 54.44 (Full point; Half point) (circle one)
Use **20 BAF for all hardwoods**
Cruise Line Direction(s) 255AZ
Cruise Line Spacing 6 (chains)
Cruise Plot Spacing 5 (chains)
Grade/Count Ratio A// 1:1

If a plot ends up in a buffer adjust by pacing on through or offsetting one chain. Take plots as marked on map. All cedar are leave trees. Record all snags as SN. Grade all hardwoods as CampRun. Tape out blowdown trees to compare heights and form factors. Remember to use a 20 BAF for all hardwoods.

C. Tree Measurements:

- Diameter:** Minimum DBH to cruise is 8" for conifers and 10" for hardwoods. Record dbh to nearest $\frac{1}{2}$ " for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24".
- Bole Length:** Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.
- Top Cruise Diameter (TCD):** Minimum top outside bark is 7" for conifers and 7" for hardwoods or 40 % of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.
- Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.

5. **Tree Segments:** Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merchantable segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.

6. Species, Sort, and Grade Codes:

A. **Species:** Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DL, HL, CL, etc.)

B. **Sort:** Use code "1" (Domestic).

C. **Grade:** A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; R = Camp Run; 0 = Cull
Hardwoods: R = CampRun

7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.

8. **Standard Field Procedures: Plot Type Cruises:** Mark cruise line beginning and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at inter-visible points, not to exceed 100' apart. On "measure/grade" plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.

9. **Cruising Equipment:** Relaskop, Rangefinder, Logger's Tape (with dbh on back) Biltmore Stick, Compass, Cruise Cards in Tatum OR Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint.

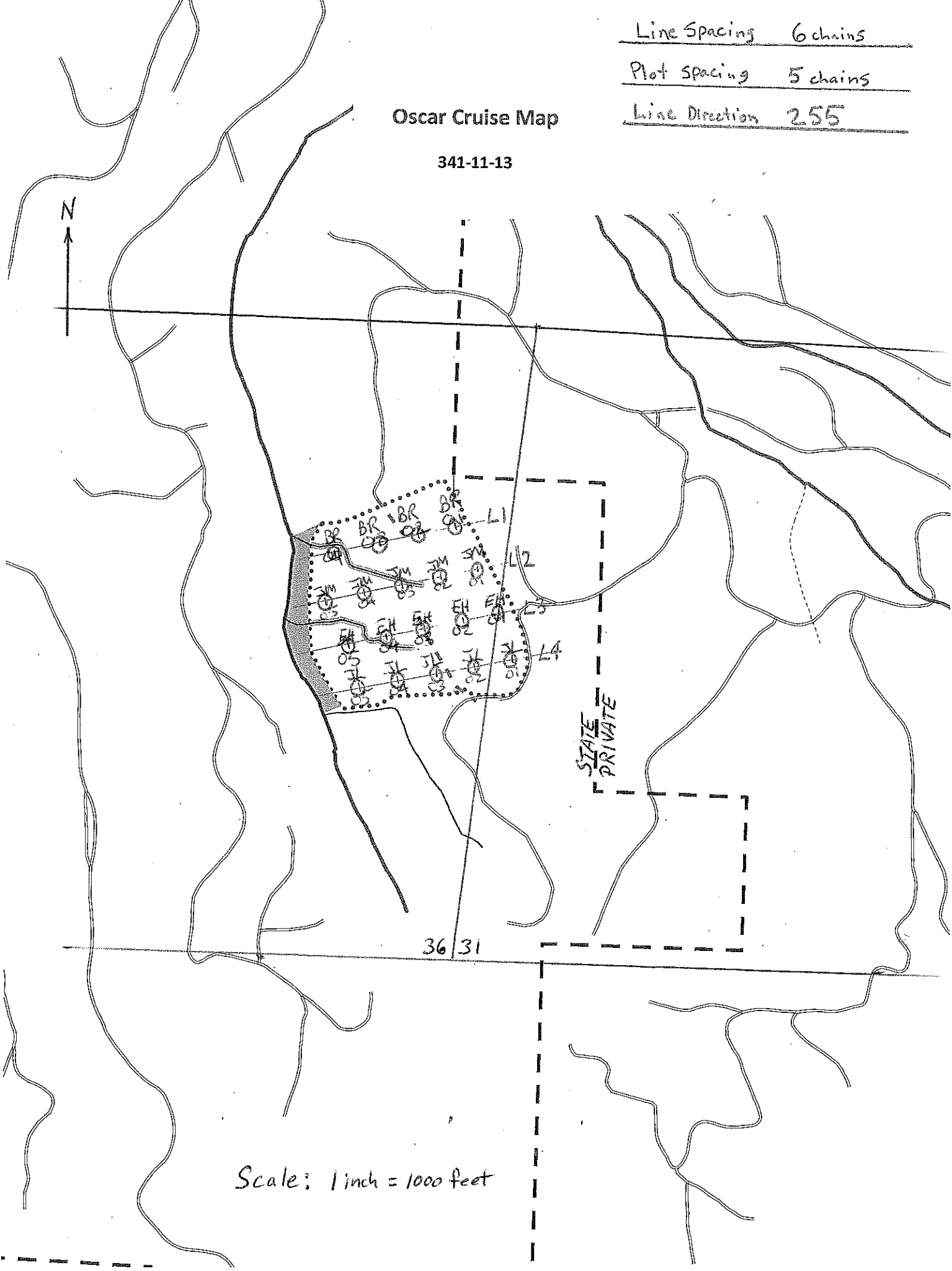
10. **Attachments:** A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design by: Jon Long Approved by: _____ Date: _____

Line Spacing 6 chains
Plot Spacing 5 chains
Line Direction 255

Oscar Cruise Map

341-11-13



Scale: 1 inch = 1000 feet

Species, Sort Grade - Board Foot Volumes (Project)

T08N R07W S36 TyA2RW	1.00
T08N R07W S36 TyTAKE	58.00

Project: OSCAR
Acres 59.00

Page 1
Date 3/2/2011
Time 7:52:25AM

Spp	So Gr	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	862											10		0.00	8.5	
D	DO2S	81	1.0	42,359	41,956	2,475		1	40	59	1		8	92	39	435	2.40	96.4	
D	DO3S	17	.6	9,200	9,141	539			82	18	0	5	48	46	35	109	0.89	84.2	
D	DO4S	2		687	687	41		4	96		68	32			18	28	0.51	24.4	
D Totals		77	2.5	53,107	51,784	3,055		0	17	35	48	2	1	15	82	34	242	1.64	213.5
H	DOCU		100.0	407											7		0.00	10.3	
H	DO2S	60	2.5	8,557	8,344	492			81	19			28	72	38	289	1.79	28.9	
H	DO3S	35	2.7	4,995	4,858	287		100			3	3	51	43	33	74	0.70	65.4	
H	DO4S	5		587	587	35		100			90	10			17	27	0.43	21.4	
H Totals		21	5.2	14,546	13,788	814		39	49	11	5	1	35	59	29	109	0.98	126.0	
A	DOCU		100.0	37											16		0.00	.5	
A	DOCR	100	.4	1,671	1,664	98		1	39	53	8	9	43	31	17	29	107	1.03	15.5
A Totals		2	2.6	1,709	1,664	98		1	39	53	8	9	43	31	17	28	104	1.01	16.0
Totals			3.1	69,362	67,236	3,967		0	22	39	40	2	2	19	76	32	189	1.40	355.6

Species, Sort Grade - Board Foot Volumes (Project)

T08N R07W S36 TyTAKE 58.00

Project: OSCAR
Acres 58.00

Page 1
Date 2/10/2011
Time 12:42:49PM

Spp	So Gr	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	862											10		0.00	8.5
D	DO2S	81	1.0	42,321	41,919	2,431		1	40	59	1		8	92	39	435	2.40	96.3
D	DO3S	17	.6	9,197	9,138	530			82	18	0	5	48	46	35	109	0.89	84.2
D	DO4S	2		687	687	40	4	96			68	32			18	28	0.51	24.4
D Totals		77	2.5	53,067	51,744	3,001	0	17	35	48	2	1	15	82	34	242	1.64	213.5
H	DOCU		100.0	407											7		0.00	10.3
H	DO2S	60	2.5	8,557	8,344	484			81	19			28	72	38	289	1.79	28.9
H	DO3S	35	2.7	4,995	4,858	282		100			3	3	51	43	33	74	0.70	65.4
H	DO4S	5		587	587	34		100			90	10			17	27	0.43	21.4
H Totals		21	5.2	14,546	13,788	800	39	49	11	5	1	35	59	29	109	0.98	126.0	
A	DOCU		100.0	37											16		0.00	.5
A	DOCR	100	.4	1,671	1,664	97	1	39	53	8	9	43	31	17	29	107	1.03	15.5
A Totals		2	2.6	1,709	1,664	97	1	39	53	8	9	43	31	17	28	104	1.01	16.0
Totals			3.1	69,321	67,197	3,897	0	22	39	40	2	2	19	76	32	189	1.40	355.5

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)								Page 1										
		Project: OSCAR								Date	3/1/2011									
										Time	3:30:47PM									
T08N R07W S36 TA2RW										T08N R07W S36 TA2RW										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
08N	07W	36	AREA 1	A2RW	1.00	19	131	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				
D		DO	CU		00.0	862											10		0.00	8.5
D		DO	2S	81	1.0	44,554	44,112	44		1	38	61	1		8	91	39	443	2.43	99.7
D		DO	3S	17	.6	9,355	9,295	9		83	17		1	5	47	46	35	109	0.89	85.7
D		DO	4S	2		687	687	1	4	96			68	32			18	28	0.51	24.4
D	Totals			78	2.5	55,457	54,095	54	0	16	34	50	2	1	15	82	34	248	1.67	218.3
H		DO	CU		00.0	407											7		0.00	10.3
H		DO	2S	60	2.5	8,557	8,344	8			81	19			28	72	38	289	1.79	28.9
H		DO	3S	35	2.7	4,995	4,858	5		100			3	3	51	43	33	74	0.70	65.4
H		DO	4S	5		587	587	1		100			90	10			17	27	0.43	21.4
H	Totals			20	5.2	14,546	13,788	14		39	49	11	5	1	35	59	29	109	0.98	126.0
A		DO	CU		00.0	37											16		0.00	.5
A		DO	CR	100	.4	1,671	1,664	2	1	39	53	8	9	43	31	17	29	107	1.03	15.5
A	Totals			2	2.6	1,709	1,664	2	1	39	53	8	9	43	31	17	28	104	1.01	16.0
Type Totals					3.0	71,712	69,547	70	0	21	38	41	2	2	19	76	32	193	1.42	360.3

TC TSTATS				STATISTICS				PAGE 1		
				PROJECT OSCAR		DATE 2/10/2011				
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
08N	07W	36	AREA1	TAKE	58.00	19	128	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL		19	128	6.7						
CRUISE		19	128	6.7	8,709		1.5			
DBH COUNT										
REFOREST										
COUNT										
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		83	76.0	24.0	98	237.8	53,067	51,744	11,907	11,743
WHEMLOCK		32	65.5	16.0	59	91.7	14,546	13,788	3,705	3,616
R ALDER		13	8.7	17.0	54	13.7	1,709	1,664	465	457
TOTAL		128	150.2	20.5	78	343.2	69,321	67,197	16,077	15,816
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL:	68.1 %	COEFF		SAMPLE TREES - BF			# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH	5	10	15	
DOUG FIR		59.5	6.5	845	904	963				
WHEMLOCK		79.5	14.0	283	329	375				
R ALDER		52.4	15.1	214	252	290				
TOTAL		77.3	6.8	646	694	741	238	60	26	
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		82.2	19.4	61	76	91				
WHEMLOCK		165.8	39.1	40	66	91				
R ALDER		257.4	60.6	3	9	14				
TOTAL		61.5	14.5	128	150	172	160	40	18	
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		64.4	15.2	202	238	274				
WHEMLOCK		142.8	33.6	61	92	123				
R ALDER		212.7	50.1	7	14	21				
TOTAL		28.2	6.6	320	343	366	33	8	4	
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		67.0	15.8	43,575	51,744	59,913				
WHEMLOCK		140.0	33.0	9,240	13,788	18,337				
R ALDER		212.1	50.0	833	1,664	2,496				
TOTAL		35.6	8.4	61,557	67,197	72,836	54	13	6	

TC TSTATS				STATISTICS				PAGE 1		
				PROJECT OSCAR		DATE 2/10/2011				
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
08N	07W	36	AREA1	00MC	59.00	19	133	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
		PLOTS	TREES		TREES	TREES				
TOTAL		19	133	7.0						
CRUISE		19	133	7.0	9,014		1.5			
DBH COUNT										
REFOREST										
COUNT										
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	83	76.0	24.0	98		237.8	53,067	51,744	11,907	11,743
WHEMLOCK	32	65.5	16.0	59		91.7	14,546	13,788	3,705	3,616
R ALDER	13	8.7	17.0	54		13.7	1,709	1,664	465	457
DOUGLEAV	3	1.5	32.7	120		8.6	2,390	2,351	485	485
SNAG	2	1.1	30.2	76		5.7	620		178	
TOTAL	133	152.8	20.7	79		357.5	72,331	69,547	16,739	16,300
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR	59.5	6.5	845	904	963					
WHEMLOCK	79.5	14.0	283	329	375					
R ALDER	52.4	15.1	214	252	290					
DOUGLEAV	37.8	26.1	1,236	1,673	2,110					
SNAG										
TOTAL	79.1	6.9	657	705	754	250	63	28		
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	82.2	19.4	61	76	91					
WHEMLOCK	165.8	39.1	40	66	91					
R ALDER	257.4	60.6	3	9	14					
DOUGLEAV	240.4	56.6	1	1	2					
SNAG	310.1	73.1	0	1	2					
TOTAL	59.4	14.0	131	153	174	149	37	17		
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	64.4	15.2	202	238	274					
WHEMLOCK	142.8	33.6	61	92	123					
R ALDER	212.7	50.1	7	14	21					
DOUGLEAV	237.3	55.9	4	9	13					
SNAG	299.5	70.6	2	6	10					
TOTAL	25.3	6.0	336	358	379	27	7	3		
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	67.0	15.8	43,575	51,744	59,913					
WHEMLOCK	140.0	33.0	9,240	13,788	18,337					
R ALDER	212.1	50.0	833	1,664	2,496					
DOUGLEAV	241.2	56.8	1,015	2,351	3,686					
SNAG										
TOTAL	31.6	7.4	64,374	69,547	74,720	42	11	5		

Log Stock Table - MBF
Project: **OSCAR**

T08N R07W S36 TTAKE

T08N R07W S36 TTAK

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
 08N 07W 36 AREA1 TAKE 58.00 19 128 Date 2/10/2011
 Time 12:57:11PM

Spp	S	So	Gr	Log	Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches										
										2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
D	DO	CU		4		1	100.0													
D	DO	CU		6		29	100.0													
D	DO	CU		10		7	100.0													
D	DO	CU		28		13	100.0													
D	DO	2S		14		9		9	.3									9		
D	DO	2S		18		12	7.7	11	.4					11						
D	DO	2S		32		185	1.3	183	6.1				45	44	69			26		
D	DO	2S		40		2,248	.9	2,228	74.2				21	215	268	865	611	247		
D	DO	3S		20		3		3	.1				3							
D	DO	3S		22		3		3	.1			3								
D	DO	3S		24		10		10	.3				4	3	3					
D	DO	3S		26		4		4	.1						4					
D	DO	3S		30		11		11	.4				8	3						
D	DO	3S		32		229	.3	229	7.6				14	74	65	37	39			
D	DO	3S		34		24		24	.8				13	7	4					
D	DO	3S		36		8		8	.3					8						
D	DO	3S		38		5		5	.2					5						
D	DO	3S		40		237	1.2	234	7.8				30	40	153	11				
D	DO	4S		14		7		7	.2				5	1						
D	DO	4S		16		13		13	.4			2	8	3						
D	DO	4S		18		2		2	.1					2						
D	DO	4S		20		6		6	.2				4	2						
D	DO	4S		22		6		6	.2				5	1						
D	DO	4S		23		2		2	.1					2						
D	DO	4S		24		4		4	.1				3	2						
D	Totals					3,078	2.5	3,001	77.0			2	93	148	255	315	362	934	611	283
H	DO	CU		2		1	100.0													
H	DO	CU		5		2	100.0													
H	DO	CU		6		7	100.0													
H	DO	CU		10		13	100.0													
H	DO	2S		32		137	2.2	134	16.8					12	54	38			30	
H	DO	2S		40		359	2.6	350	43.7					161	121	68				
H	DO	3S		16		8		8	.9				8							
H	DO	3S		24		4		4	.4				4							
H	DO	3S		26		4		4	.5					4						
H	DO	3S		32		139	3.0	135	16.9				40	43	52					
H	DO	3S		34		10		10	1.3				10							
H	DO	3S		36		11	8.3	10	1.3				10							
H	DO	3S		38		4	14.3	3	.4				3							
H	DO	3S		40		111	2.1	108	13.6				38	30	40					
H	DO	4S		14		5		5	.6				5							
H	DO	4S		16		26		26	3.2				26							
H	DO	4S		28		4		4	.4				4							
H	Totals					844	5.2	800	20.5				146	73	96	173	175	106		30
A	DO	CU		16		2	100.0													
A	DO	CR		16		4		4	4.2				1	1	2					
A	DO	CR		20		5		5	5.0			1	1	2						
A	DO	CR		30		41		41	42.6				2	5	8	6		21		

TC TLOGSTVB

Log Stock Table - MBF

Project: **OSCAR**

T08N R07W S36 TTAKE

T08N R07W S36 TTAK

Twp Rge Sec Tract Type Acres Plots Sample Trees
08N 07W 36 AREA1 TAKE 58.00 19 128

Page 2
Date 2/10/2011
Time 12:57:11PM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches									
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19
A		DO	CR	32		30		30	31.2			3	2	7	11		7		
A		DO	CR	40		17	2.5	16	17.0			6			5		6		
A		Totals				99	2.6	97	2.5		1	12	8	17	24		34		
Total All Species						4,021	3.1	3,897	100.0		2	252	229	368	512	536	1074	611	313

TC		PSTNDSUM										Stand Table Summary				Page	1				
												Date:	3/4/2011								
T08N R07W S36 TyA2RW		1.00										Project				OSCAR		Time:		3:03:17PM	
T08N R07W S36 TyTAKE		58.00										Acres				59.00		Grown Year:			
S Spec T	DBH	Sample Trees	Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net		Totals								
			FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.		Tons	Cu.Ft. Acre	Bd.Ft. Acre	Cunits	MBF						
D	13	2	86	89	3.108	2.87	6.22	15.5	55.0		96	342	57	20							
D	15	2	86	110	2.335	2.87	4.67	25.5	100.0		119	467	70	28							
D	16	6	88	116	6.156	8.60	14.36	25.9	98.6		371	1,416	219	84							
D	18	8	89	116	6.486	11.46	16.21	28.0	111.0		454	1,800	268	106							
D	19	4	85	111	2.910	5.73	7.28	33.4	120.0		243	873	143	52							
D	20	10	85	114	6.567	14.33	14.45	41.2	149.1		595	2,154	351	127							
D	21	4	87	126	2.382	5.73	7.15	38.0	165.0		272	1,179	160	70							
D	22	10	87	115	5.427	14.33	14.11	45.1	176.2		636	2,486	375	147							
D	23	8	89	140	3.972	11.46	11.92	51.1	220.8		609	2,632	359	155							
D	24	14	87	128	6.384	20.06	18.24	50.7	211.5		925	3,858	546	228							
D	25	16	85	128	6.724	22.92	19.33	56.9	235.2	1,099	4,547	649	268								
D	26	6	89	139	2.331	8.60	6.99	64.7	301.1		452	2,106	267	124							
D	27	6	88	138	2.162	8.60	6.49	70.2	314.4		455	2,039	269	120							
D	28	10	87	147	3.350	14.33	10.05	77.9	356.0		783	3,578	462	211							
D	29	12	86	148	3.748	17.19	11.24	81.7	381.7		919	4,291	542	253							
D	30	17	86	151	4.680	22.97	14.04	90.6	422.8	1,271	5,935	750	350								
D	31	4	85	153	1.093	5.73	3.28	98.8	463.3		324	1,520	191	90							
D	32	6	82	150	1.539	8.60	4.62	88.7	423.3		409	1,955	242	115							
D	33	3	85	146	.491	2.91	1.47	106.4	507.2		157	746	92	44							
D	34	8	87	149	1.818	11.46	5.45	117.0	578.3		638	3,154	376	186							
D	35	2	85	157	.429	2.87	1.29	128.3	643.3		165	828	97	49							
D	36	7	87	140	1.223	8.64	4.08	109.1	552.2		445	2,254	263	133							
D	38	2	88	146	.364	2.87	1.09	144.0	763.3		157	833	93	49							
D	40	2	85	146	.328	2.87	.99	157.3	803.3		155	791	91	47							
D	Totals	169	87	127	76.009	237.96	205.02	57.3	252.6		11,751	51,784	6,933	3,055							
H	9	2	86	20	6.486	2.87	6.49	5.0	20.0		32	130	19	8							
H	10	4	87	18	11.074	5.73	11.07	7.0	30.0		78	332	46	20							
H	12	4	84	70	7.620	5.73	11.27	12.1	45.9		137	517	81	31							
H	13	2	86	100	3.108	2.87	6.22	18.5	70.0		115	435	68	26							
H	14	2	86	105	2.680	2.87	5.36	23.0	80.0		123	429	73	25							
H	15	2	88	91	2.335	2.87	4.67	25.5	90.0		119	420	70	25							
H	16	6	87	92	6.156	8.60	12.31	28.3	98.3		349	1,211	206	71							
H	17	2	88	105	1.818	2.87	3.64	37.0	130.0		135	473	79	28							
H	18	10	89	103	8.107	14.33	19.46	33.4	126.7		650	2,465	384	145							
H	19	4	88	108	2.910	5.73	5.82	44.5	155.0		259	902	153	53							
H	20	4	85	112	2.627	5.73	6.57	41.2	160.0		271	1,051	160	62							
H	22	10	88	103	5.427	14.33	11.94	54.1	204.5		646	2,442	381	144							
H	23	2	86	92	.993	2.87	1.99	57.5	210.0		114	417	67	25							
H	24	6	86	111	2.736	8.60	5.47	65.2	263.3		357	1,441	210	85							
H	25	2	79	102	.841	2.87	1.68	47.0	165.0		79	277	47	16							
H	30	2	95	115	.584	2.87	1.75	87.7	483.3		154	846	91	50							
H	Totals	64	87	76	65.503	91.69	115.70	31.3	119.2		3,616	13,788	2,134	814							
A	11	2	86	68	1.595	1.05	1.60	19.0	60.0		30	96	18	6							
A	13	2	86	69	1.142	1.05	2.28	14.5	45.0		33	103	20	6							
A	14	2	87	93	.985	1.05	1.97	21.5	85.0		42	167	25	10							
A	15	2	86	68	.858	1.05	1.72	19.5	65.0		33	112	20	7							
A	17	2	86	78	.668	1.05	1.34	27.5	95.0		37	127	22	7							
A	18	2	87	74	.596	1.05	1.19	29.0	100.0		35	119	20	7							
A	19	2	86	80	.535	1.05	1.07	30.0	105.0		32	112	19	7							
A	20	2	87	76	.482	1.05	.96	37.5	110.0		36	106	21	6							
A	22	6	86	78	1.196	3.16	2.39	45.8	191.7		110	459	65	27							
A	23	2	86	84	.365	1.05	.73	54.0	230.0		39	168	23	10							

Stand Table Summary

T08N R07W S36 TyA2RW	1.00
T08N R07W S36 TyTAKE	58.00

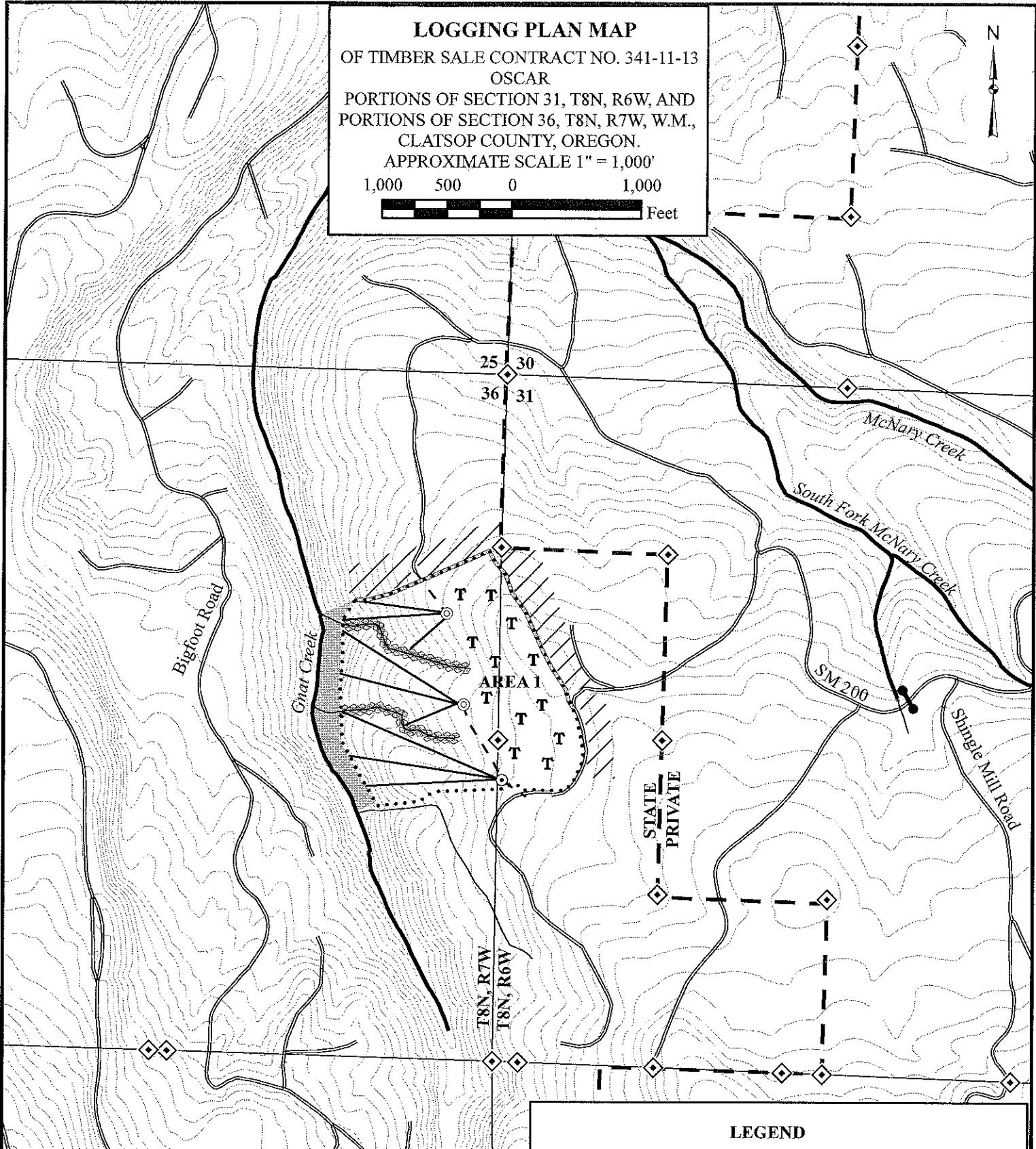
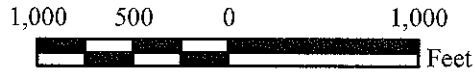
Project **OSCAR**
Acres **59.00**

Time: **3:03:17PM**
Grown Year:

S Spec T	Sample DBH	Trees	Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
			FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
A	28	2	87	64	.246	1.05	.49	59.0	195.0		29	96		17	6
A	Totals	26	86	75	8.667	13.68	15.74	29.0	105.7		457	1,664		270	98
Totals		259	87	102	150.179	343.34	336.45	47.0	199.8		15,824	67,236		9,336	3,967

LOGGING PLAN MAP

OF TIMBER SALE CONTRACT NO. 341-11-13
 OSCAR
 PORTIONS OF SECTION 31, T8N, R6W, AND
 PORTIONS OF SECTION 36, T8N, R7W, W.M.,
 CLATSOP COUNTY, OREGON.
 APPROXIMATE SCALE 1" = 1,000'



LOGGING BREAKDOWN

	TRACTOR	CABLE
AREA 1 (MC)	44%	56%
AREA 2 (R/W)	100%	

APPROXIMATE NET ACREAGE

AREA 1 (MC) = 58 ACRES
 AREA 2 (R/W) = 1 ACRE
 TOTAL SALE ACREAGE = 59 ACRES

LEGEND

- Timber Sale Boundary
- Non Posted Timber Sale Boundary
- Ownership Boundary
- Surfaced Road
- New Road Construction
- Gate
- Cable Logging
- Tractor Logging
- Landing to Construct
- Logger's Choice Landing
- Type F Stream
- Type N Stream
- Survey Monument
- Stream Buffer
- Posted Stream Buffer
- Reforestation Area