



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Pit Bull Sale 341-06-09

District: Forest Grove

Date: 7/7/05

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,155,281.08	\$0.00	\$2,155,281.08
		Project Work	(\$55,250.00)
		Advertised Value	\$2,100,031.08



Timber Sale Appraisal Timber Description Pit Bull Sale 341-06-09

"STEWARDSHIP IN FORESTRY"

District: Forest Grove

Location: Portions of Sec. 17, 18, T4N, R5W, W.M., Columbia County, Oregon
Portions of Sec 13, T4N, R6W, W.M., Clatsop County, Oregon

Date: 7/7/05

Stand Stocking: 40%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	18	0	98

Volume by Grade	Douglas - Fir	Total
2S	2,580	2,580
3S	2,181	2,181
4S	278	278
Total	5,039	5,039

Comments: Pond Values Used: 2nd Quarter 2005.

Red alder and other hardwoods:

Pond value (\$625) - DF logging costs (\$215.47) = \$409.53

Western redcedar:

Pond value (\$925) - DF logging costs (\$215.47) = \$709.53

Western hemlock and conifers other than DF:

Pond value (\$415) - DF logging costs (\$215.47) = \$199.53

P&R

BRAND & PAINT: 5,039 MBF @ \$1/MBF = \$5,039

TREE TOPPING: 216 TREES @ \$50/TREE = \$10,800

INTERMEDIATE SUPPORTS: 30 @ \$100/APIECE = \$3000

NO P&R:

BRUSH PILING: 20 ACRES @ \$200/ACRE = \$4,000

SORTING FIREWOOD: 30 HOURS @ \$150/HOUR = \$4,500

TOTAL OTHER COSTS: \$27,339



Timber Sale Appraisal

Logging Conditions

Pit Bull

Sale 341-06-09

"STEWARDSHIP IN FORESTRY"

Combination#: 1 Douglas - Fir 46.48%

Yarding Distance: Medium (800 ft) **Downhill Yarding:** No

Logging System: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber

Tree Size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

Loads/Day: 8 **Bd. Ft./Load:** 4,000

Cost/MBF: \$102.58

Machines:

- Log Loader (A)
- Stroke Delimber (A)
- Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 20.16%

Yarding Distance: Medium (800 ft) **Downhill Yarding:** No

Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Delimiting

Tree Size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF

Loads/Day: 5 **Bd. Ft./Load:** 4,000

Cost/MBF: \$165.83

Machines:

- Log Loader (A)
- Tower Yarder (Medium)

Combination#: 3 Douglas - Fir 33.36%

Yarding Distance: Short (400 ft) **Downhill Yarding:** Yes

Logging System: Shovel **Process:** Manual Delimiting

Tree Size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

Loads/Day: 6 **Bd. Ft./Load:** 4,000

Cost/MBF: \$96.74

Machines:

- Shovel Logger



Timber Sale Appraisal Logging Costs Pit Bull Sale 341-06-09

"STEWARDSHIP IN FORESTRY"

Date: 7/7/05

Operating Seasons: 2.0

Profit & Risk: 15%

Project Costs: \$55,250

Other Costs (P/R): \$18,839

Slash Disposal: \$0

Other Costs: \$8,500

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	17.0	0.0

Road Maintenance: \$0.00

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	4.0



Timber Sale Appraisal Logging Costs Breakdown Pit Bull Sale 341-06-09

"STEWARDSHIP IN FORESTRY"

Costs	Douglas - Fir
Logging	113.38
Road Maintenance	7.29
Fire Protection	1.08
Hauling	58.67
Other (P/R appl.)	3.74
Profit & Risk	27.62
Slash Disposal	0.00
Scaling	2.00
Other	1.69
Total	215.47

Amortization	0.00
Pond Value	643.19
Stumpage	427.72
Amortized	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Pit Bull Sale 341-06-09

Amortized

	Douglas - Fir
MBF	0.00
Value	0.00
Total	0.00

Unamortized

	Douglas - Fir
MBF	5,039.00
Value	427.72
Total	2,155,281.08

Gross Timber Sale Value

Recovery \$2,155,281.08

Prepared by: Nathan Hunter

Date: 7/7/05

District: Forest Grove

Phone: (503) 359-7478

PROJECT COST SUMMARY SHEET

Timber Sale: Pit Bull

CONSTRUCTION

Project No. 1

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
A-B	7 + 14	\$1,638.83
C-D	10 + 60	\$2,298.97
E-F	4 + 35	\$1,090.88
G-H	1 + 60	\$567.20
I-J	5 + 30	\$1,278.22
K-L	8 + 82	\$1,953.57
M-N	3 + 54	\$944.98
O-P	3 + 40	\$916.79
Q-R	8 + 90	\$1,971.59

53 + 65 stations

1.02 miles

SUBTOTAL CONSTRUCTION \$12,661.03

IMPROVEMENTS

Project No. 1

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
K-L	21 + 58	\$3,613.90
M-N	2 + 58	\$393.19
O-P	8 + 50	\$1,275.15

32 + 66 stations

0.62 miles

SUBTOTAL IMPROVEMENTS \$5,282.24

SURFACING

Project No. 2

<u>Road Segment</u>	<u>Amount</u>	<u>Type</u>	<u>Cost</u>
A-B	486 cy	6" - 0	\$3,188.16
C-D	753 cy	6" - 0	\$4,999.92
E-F	315 cy	6" - 0	\$1,890.00
G-H	146 cy	6" - 0	\$744.60
I-J	368 cy	6" - 0	\$1,895.20
K-L	1,962 cy	6" - 0	\$11,301.12
M-N	414 cy	6" - 0	\$2,351.52
O-P	796 cy	6" - 0	\$4,131.24
Q-R	612 cy	6" - 0	\$3,219.12
Total	5,852 cy	6" - 0	

SUBTOTAL SURFACING \$33,720.88

SPECIAL PROJECTS

Project No. 3	Grass seed and fertilize	
areas of disturbed soil.		\$822.60

SUBTOTAL SPECIAL PROJECTS \$822.60

MOVE IN

\$2,760.76

TOTAL ALL PROJECTS \$55,247.51

TOTAL CREDITS \$55,250.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Pit Bull Road: K to L

Construction - 8+82 stations
0.17 miles

Improvement - 21+58 stations
0.41 miles

CLEARING AND GRUBBING -

Scattering	1.98 acres @	\$790.00 per acre =	\$1,564.20	
Scattering	0.90 acres @	\$869.00 per acre =	\$782.10	
TOTAL CLEARING AND GRUBBING				\$2,346.30

EXCAVATION -

Road	21.58 sta @	\$55.49 per sta =	\$1,197.47	
Road	8.82 sta @	\$89.63 per sta =	\$790.54	
Landing	2.00 sta @	\$89.63 per sta =	\$179.26	
Grade, ditch and roll	0.58 mi @	\$1,199.00 per mi =	\$695.42	
TOTAL EXCAVATION				\$2,862.69

CULVERTS - MATERIALS & INSTALLATION

Culverts

26 LF of 18" \$350.48	0 LF of 24" \$0.00
0 LF of 30" \$0.00	0 LF of 36" \$0.00
0 LF of 42" \$0.00	0 LF of 48" \$0.00
0 LF of 54" \$0.00	0 LF of 60" \$0.00
<u>\$350.48</u>	<u>\$0.00</u>

Half Rounds

0 LF of 21" \$0.00	0 LF of 30" \$0.00
0 LF of 36" \$0.00	0 LF of 42" \$0.00
0 LF of 48" \$0.00	0 LF of 54" \$0.00
0 LF of 60" \$0.00	0 LF of 66" \$0.00
<u>\$0.00</u>	<u>\$0.00</u>

Culvert Stakes

1 stakes \$8.00

TOTAL CULVERTS \$358.48

SURFACING:

	10" deep =	56 cy/sta					
Subgrade	1,704 cy of	6" - 0	@	\$5.76 per cy =	\$9,815.04		
Curve Widening	90 cy of	6" - 0	@	\$5.76 per cy =	\$518.40		
Turnouts	112 cy of	6" - 0	@	\$5.76 per cy =	\$645.12		
Landing	<u>56</u> cy of	<u>6" - 0</u>	<u>@</u>	<u>\$5.76 per cy =</u>	<u>\$322.56</u>		
Total =	1962 cy of	6" - 0				TOTAL SURFACING	\$11,301.12

SPECIAL PROJECTS

Grass seed and fertilize areas of disturbed soil.	1.44 acres x \$180 / acre	\$259.20		
		\$0.00		
		\$0.00		
		\$0.00		
TOTAL SPECIAL PROJECTS				\$259.20

TOTAL COST = \$17,127.79

SUMMARY OF CONSTRUCTION COST

Timber Sale: Pit Bull Road: O to P

Construction - 3+40 stations
 0.06 miles

Improvement - 8+50 stations
 0.16 miles

CLEARING AND GRUBBING -

Scattering	0.78 acres @	\$790.00 per acre =	\$616.20	
Scattering	0.41 acres @	\$869.00 per acre =	\$356.29	
TOTAL CLEARING AND GRUBBING				\$972.49

EXCAVATION -

Road	8.50 sta @	\$55.49 per sta =	\$471.67	
Road	3.40 sta @	\$89.63 per sta =	\$304.74	
Landing	2.00 sta @	\$89.63 per sta =	\$179.26	
Grade, ditch and roll	0.22 mi @	\$1,199.00 per mi =	\$263.78	
TOTAL EXCAVATION				\$1,219.45

CULVERTS - MATERIALS & INSTALLATION

Culverts

0 LF of 18" \$0.00	0 LF of 24" \$0.00
0 LF of 30" \$0.00	0 LF of 36" \$0.00
0 LF of 42" \$0.00	0 LF of 48" \$0.00
0 LF of 54" \$0.00	0 LF of 60" \$0.00
<u>\$0.00</u>	<u>\$0.00</u>

Half Rounds

0 LF of 21" \$0.00	0 LF of 30" \$0.00
0 LF of 36" \$0.00	0 LF of 42" \$0.00
0 LF of 48" \$0.00	0 LF of 54" \$0.00
0 LF of 60" \$0.00	0 LF of 66" \$0.00
<u>\$0.00</u>	<u>\$0.00</u>

Culvert Stakes

0 stakes \$0.00

TOTAL CULVERTS \$0.00

SURFACING:

	10" deep =	56 cy/sta			
Subgrade	667 cy of	6" - 0	@	\$5.19 per cy =	\$3,461.73
Curve Widening	45 cy of	6" - 0	@	\$5.19 per cy =	\$233.55
Turnouts	28 cy of	6" - 0	@	\$5.19 per cy =	\$145.32
Landing	<u>56</u> cy of	<u>6" - 0</u>	<u>@</u>	<u>\$5.19 per cy =</u>	<u>\$290.64</u>
Total =	796 cy of	6" - 0		TOTAL SURFACING	\$4,131.24

SPECIAL PROJECTS

Grass seed and fertilize areas of disturbed soil.	0.59 acres x \$180 / acre	\$106.20	
		<u>\$0.00</u>	
		<u>\$0.00</u>	
		<u>\$0.00</u>	
TOTAL SPECIAL PROJECTS			\$106.20

TOTAL COST = \$6,429.38

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Timber Sale: Pit Bull
Pit Name: Lower Rock Cr. Pit

Swell:	<u>1.30</u>	1-1/2"-0 (trk measure)	<u>cy</u>
Shrinkage:	<u>1.16</u>	4"-0 (trk measure)	<u>cy</u>
Drill Pct.:	<u>100%</u>	Pit Run (trk measure)	<u>5,852 cy</u>
		Total Truck Yardage	<u>5,852 cy</u>
		Total In Place Yardage	<u>4,502 cy</u>

Move in D8			\$533.00
Scalp & Clear Overburden	<u>\$130.31 /hr</u> x	<u>20 hrs</u>	= <u>\$2,606.20</u>
		Subtotal	\$3,139.20

Move in Excavator			\$533.00
Dig Rock	<u>\$0.75 /cy</u> x	<u>5,852 cy</u>	= <u>\$4,389.00</u>
		Subtotal	\$4,922.00

Strip Rock	<u>\$0.00 /cy</u> x	<u>0 cy</u>	= \$0.00
Push Rock	<u>\$0.53 /cy</u> x	<u>0 cy</u>	= \$0.00
Oversize Reduction	<u>\$4.00 /cy</u> x	<u>0 cy</u>	= \$0.00
Move in Crusher			\$0.00
Set Up Crusher			\$0.00
Move in Screening plant			\$0.00
Move in Loaders			\$0.00
Load Crusher	<u>\$0.41 /cy</u> x	<u>0 cy</u>	= \$0.00
Crushing (1-1/2" - 0)	<u>\$2.25 /cy</u> x	<u>0 cy</u>	= \$0.00
Crushing (4" - 0)	<u>\$2.00 /cy</u> x	<u>0 cy</u>	= \$0.00
Crushing (Jaw Run)	<u>\$1.75 /cy</u> x	<u>0 cy</u>	= \$0.00
Load Dump Truck	<u>\$0.32 /cy</u> x	<u>5,852 cy</u>	= <u>\$1,872.64</u>
		Subtotal	\$1,872.64

Gradation Tests	<u>\$65.00 /2000 cy</u> x	<u>0 cy</u>	= \$0.00
Change Gradation			\$0.00
Clean Up Pit	<u>\$130.31 /hr</u> x	<u>2 hrs</u>	= <u>\$260.62</u>
		Subtotal	\$260.62

BASE COST \$1.74/cy **TOTAL PRODUCTION COST** \$10,194.46

Grass seed and fertilize waste area	\$180.00 /acre x	0.2 acres =	<u>\$36.00</u>
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MOBILIZATION COST SUMMARY

Timber Sale:

Pit Bull

MILEAGE FACTORS

Distance Factor	Distance Factor
0-25	55
30	60
35	65
40	70
45	75
50	80
	1.07
	1.15
	1.23
	1.31
	1.40
	1.48

MILEAGE FACTOR = 1.00

No.	EQUIPMENT DESCRIPTION	Base Cost	Move in Cost	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
0	Drill & Compressor	\$241	\$0.00						\$0.00
1	Graders	\$241	\$241.00	\$7.33	0	4.04	4.04	\$29.61	\$270.61
0	Loader (1.5 - 2.5 cy)	\$241	\$0.00	\$8.42	0	0	0	\$0.00	\$0.00
0	Loader (3 cy +)	\$387	\$0.00	\$9.56	0	0	0	\$0.00	\$0.00
2	Rollers & Compactors	\$241	\$482.00	\$14.25	0	4.04	4.04	\$115.14	\$597.14
1	Excavators	\$533	\$533.00	\$36.60	0	4.04	4.04	\$147.86	\$680.86
0	Large Backhoes	\$533	\$0.00	\$5.53	0	0	0	\$0.00	\$0.00
0	Small backhoes	\$241	\$0.00	\$4.84	0	0	0	\$0.00	\$0.00
0	Tractors (D5 - D7)	\$385	\$0.00	\$18.47	0	0	0	\$0.00	\$0.00
1	Tractors (D8)	\$533	\$533.00	\$25.53	0	4.04	4.04	\$103.14	\$636.14
4	Dump Truck (12 cy)	\$144	\$576.00	\$2.88	0	0	0	\$0.00	\$576.00
0	Belly Dump	\$158	\$0.00	\$3.68	0	0	0	\$0.00	\$0.00
0	Water Truck (3000 gal)	\$144	\$0.00	\$2.88	0	0	0	\$0.00	\$0.00

TOTAL MOBILIZATION COSTS = \$2,760.76

TIMBER SALE SUMMARY
Pit Bull

1. **Type of Sale:** Area 1,2 & 4 is an automark thin to 120 ft² of basal area per acre (RD 24) and Area 3 is a modified clearcut, recovery, sealed bid auction.
2. **Revenue Distribution:** 90% Columbia County - BOF
10% Clatsop County - BOF (Tax Code 8-01)
3. **Sale Acreage:** Area 1: 86 acres, Area 2: 20 acres, Area 3: 108 acres and Area 4: 77 acres. Acreage was determined by GIS. R/W in partial cut areas, was estimated to be 5 acres.

Volume: In MBF

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
DOUGLAS-FIR AREAS 1,2, & 4 PC-H	564	918	163	1,645
AREA 3 MC	2,026	1,273	116	3,415
R/W	<u>43</u>	<u>35</u>	<u>4</u>	<u>82</u>
TOTAL	2,633	2,226	283	5,142
LESS 2% D & B	2,580	2,181	278	5,039

4. **Cruise Data:** Sale areas 1, 2 & 4 were variable plot cruised using a 20 BAF with full plots. Area 3 was a SLI cruise converted to Superace using a 33, 33.6 & 40 BAF. Areas 1,2 & 4 were cruised in May 2005 and Area 3 was cruised in December 2003/January 2004. A top conifer diameter of 7 inches or 25% of DBH outside bark was used. The hardwood top diameter was 8 inches or 25% of DBH outside bark. Cruise statistics: Area 1, 2 & 4: CV = 74.5% and SE = 13.2%.
Area 3: CV = 46.3% and SE = 7.1%
Combined Sale Areas SE = approx. 11%
5. **Timber Description:** The sale area is predominately Douglas-fir with an average age of 50 years. There is a minor component of western redcedar, western hemlock, cherry and bigleaf maple scattered throughout the sale area. Areas 1, 2 & 4: average DBH of Douglas-fir take trees is 17 inches with a volume per acre of 8,989 BF and the average DBH of Douglas-fir leave trees is 24 inches with a volume per acre of 18,357 BF. Area 3: average DBH of Douglas-fir take trees is 20 inches and the volume per acre is 31,618 BF.
6. **Topography and Logging Method:** The topography ranges from 15% to 65%. Areas 1, 2 & 4 are 60% cable yarding and 40% ground based yarding. Area 3 is 70% cable yarding and 30% ground based yarding.

7. **Access:** From Forest Grove go north on Highway 47 to Highway 26. Go northwest on Hwy. 26 to North Fork Wolf Creek Road (just past milepost 35) and turn right. Go 4.5 miles to junction of McGregor Road and turn right. Continue on McGregor Road for 3 miles to sale area.

8. **Projects:**

Project No. 1: 1.02 miles of road construction costing \$12,661.03

0.62 miles of road reconstruction costing \$5,282.24

Project No. 2: Surfacing 1.64 miles of road costing \$33,720.88

Project No. 3: Grass seeding and fertilization costing \$822.60

Move in cost: \$2,760.76

Total of project costs: **\$55,250.00**

9. **Other Costs:**

Branding and Painting: \$5,039

Intermediate Supports: \$3,000

Tree Topping: \$10,800

Sorting Firewood: \$4,500

Brush Piling: \$4,000

Total other costs: **\$27,339**

CRUISE REPORT
Pit Bull

- 1. Acreage Calculation:** Area 1 is 86 acres, Area 2 is 20 acres, Area 3 is 108 acres and Area 4 is 77 acres, determined using ArcView.
- 2. Cruise Method:** Areas 1,2 & 4 were variable plot cruised using a 20 BAF and full plots. Trees were viewed at D4H.
Area 3 was an SLI cruise converted to Superace using a 33, 33.6 & 40 BAF.

SLIP STAND #	PLOT #	TOTAL PLOTS	BAF
7127	9-23	15	40
7131	6-11, 18-25	14	40
7133	23-27	5	33.6
7140	6-14	9	33

3. Sampling Intensity:

Area 1,2 & 4 PC-H

	ESTIMATED	ACTUAL
CV	60%	74.5%
SE	11%	13.2%
NO. OF PLOTS	30	32

Area 3 MC

	ESTIMATED	ACTUAL
CV	--	46.3%
SE	--	7.1%
NO. OF PLOTS	--	43

- 4. Form Factors:** Recorded for each tree using a form point of 16 feet.
- 5. Height Standards:** Conifer and hardwood merchantable heights were estimated to the nearest foot.
- 6. Diameter Standards:** Diameters were measured outside bark at 4 feet above stump height, to the nearest inch.
- 7. Grading System:** Grades were recorded on all segments between 12 feet and 40 feet in length.

8. Merchantable Top: Conifer merchantable tops were measured to 7 inches or 25% of DBH outside bark. Hardwood tops were measured to 8 inches outside bark.

9. Computation Procedures: Volumes for the sale area were computed in Forest Grove using "Super Ace 2004" program.

10. Cruiser: Areas 1,2 & 4 were cruised by Nathan Hunter in May of 2005. Area 3 was cruised by IRM contractors in December 2003/January 2004.

11. Signatures: Preparer: Nathan Hunter 5-16-05
Nathan Hunter Date

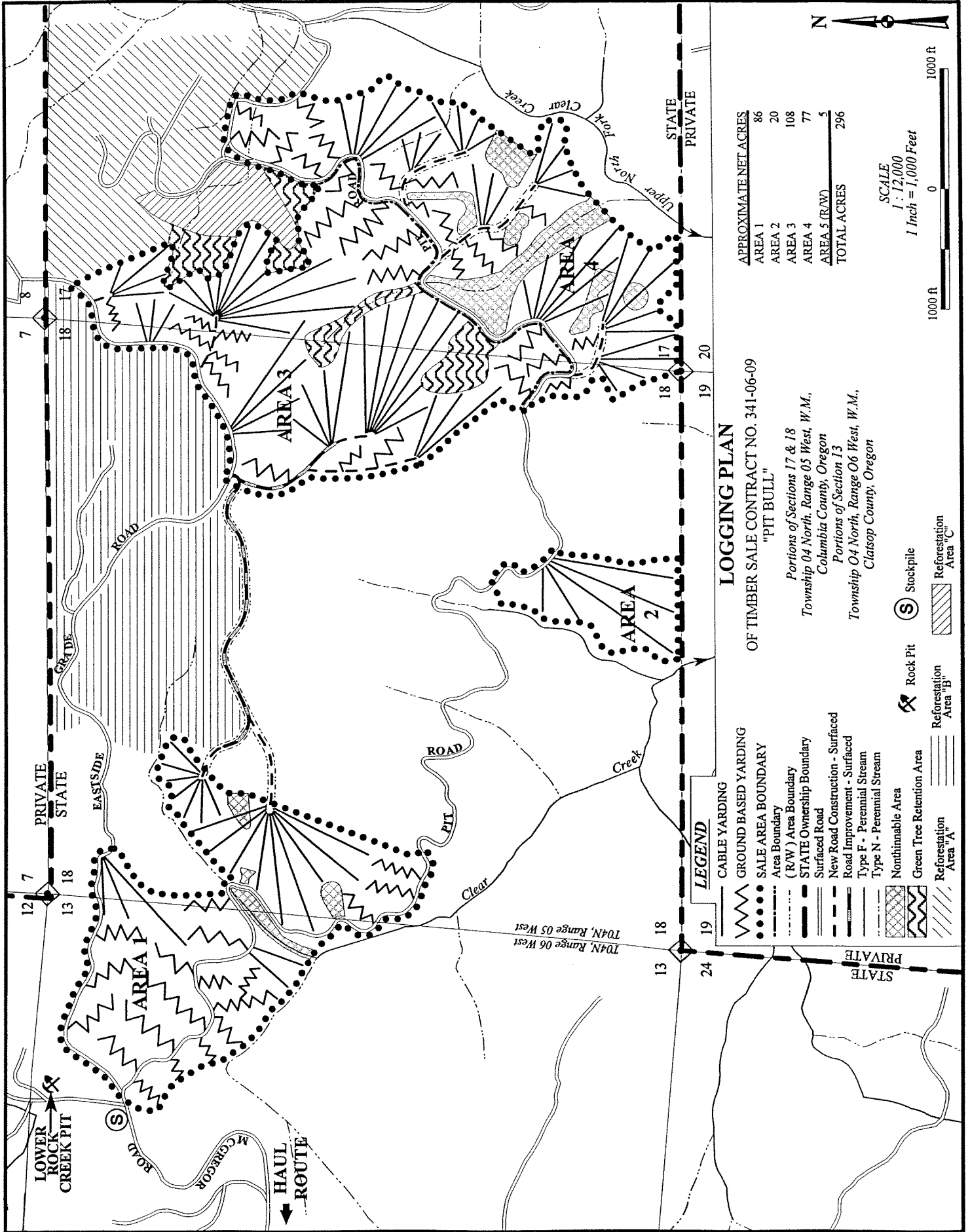
Acting Unit Forester: Mike Haasken 5/18/05
Mike Haasken Date

Residual Stand Specifications

Partial Cut Area 1,2 & 4

Residual QMD assumption (from cruise leave tree information) – 24 inches.
Target Relative Density – 24

	MINIMUM	TARGET	MAXIMUM
RELATIVE DENSITY	22	24	27
BASAL AREA	110	120	130
TREES PER ACRE	35	38	41



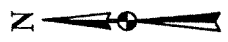
LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-06-09
"PIT BULL"

Portions of Sections 17 & 18
Township 04 North, Range 05 West, W.M.,
Columbia County, Oregon
Portions of Section 13
Township 04 North, Range 06 West, W.M.,
Clatsop County, Oregon

APPROXIMATE NET ACRES	
AREA 1	86
AREA 2	20
AREA 3	108
AREA 4	77
AREA 5 (R/W)	5
TOTAL ACRES	296

SCALE
1" = 12,000
1 Inch = 1,000 Feet



LEGEND

- CABLE YARDING
- GROUND BASED YARDING
- SALE AREA BOUNDARY
- Area Boundary
- (R/W) Area Boundary
- STATE OWNERSHIP BOUNDARY
- Surfacd Road
- New Road Construction - Surfacd
- Road Improvement - Surfacd
- Type F - Perennial Stream
- Type N - Perennial Stream
- Nonthinnable Area
- Green Tree Retention Area
- Reforestation Area "A"
- Reforestation Area "B"
- Reforestation Area "C"
- Stockpile
- Rock Pit

PRIVATE STATE

STATE PRIVATE

STATE PRIVATE

LOWER ROCK CREEK PIT

HAUL ROUTE

EASTSIDE ROAD

ROAD

ROAD

PIT

Clear Creek

Creek

T04N, Range 06 West
T04N, Range 05 West

Upper North Fork Clear Creek

7

12

13

18

7

18

17

13

18

19

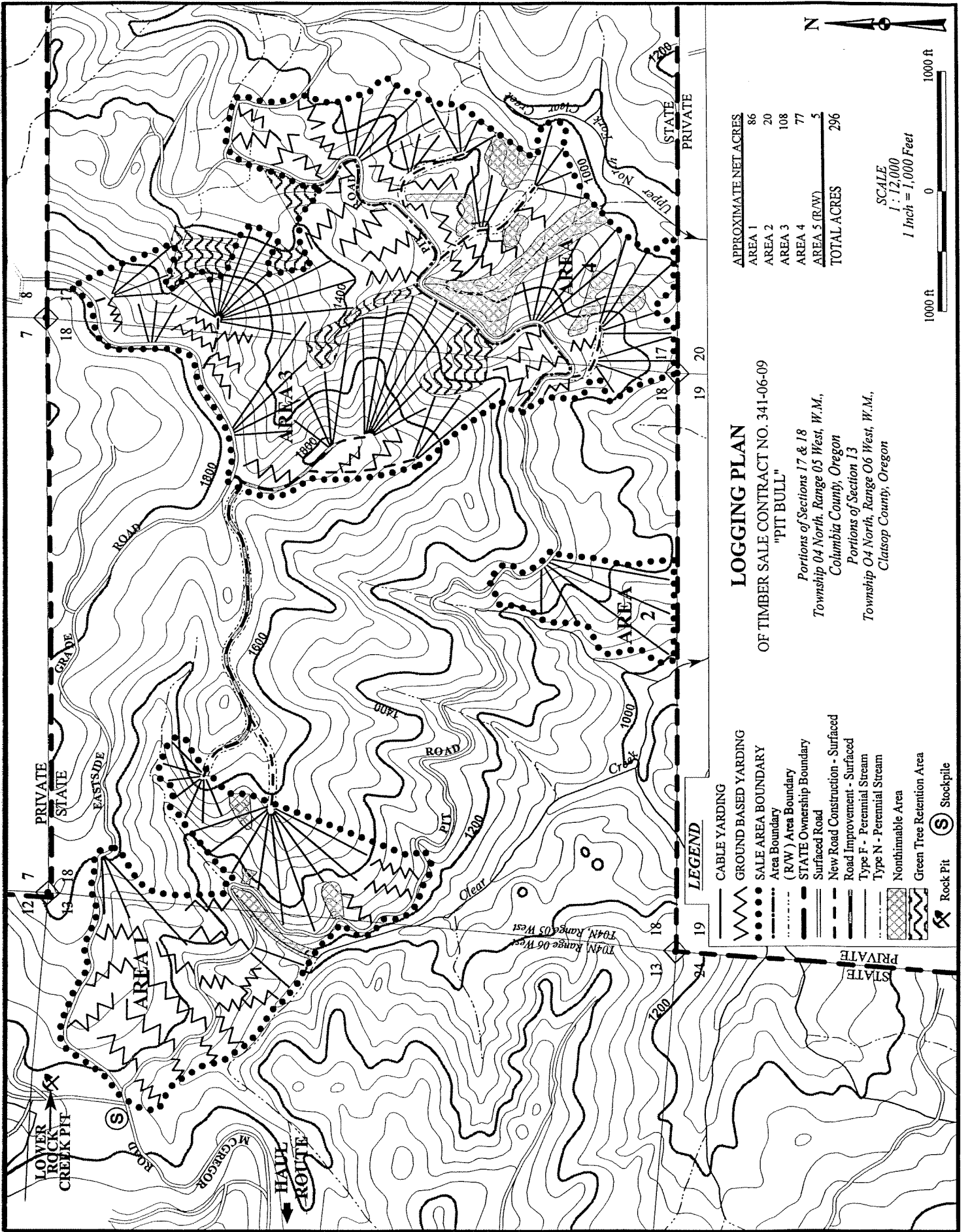
24

18

17

19

20



APPROXIMATE NET ACRES	
AREA 1	86
AREA 2	20
AREA 3	108
AREA 4	77
AREA 5 (RAW)	5
TOTAL ACRES	296

LOGGING PLAN
 OF TIMBER SALE CONTRACT NO. 341-06-09
 "PIT BULL"

Portions of Sections 17 & 18
 Township 04 North, Range 05 West, W.M.,
 Columbia County, Oregon
 Portions of Section 13
 Township 04 North, Range 05 West, W.M.,
 Clatsop County, Oregon

- LEGEND**
- CABLE YARDING
 - GROUND BASED YARDING
 - SALE AREA BOUNDARY
 - Area Boundary
 - (R/W) Area Boundary
 - STATE Ownership Boundary
 - Surfaced Road
 - New Road Construction - Surfaced
 - Road Improvement - Surfaced
 - Type F - Perennial Stream
 - Type N - Perennial Stream
 - Nonthinnable Area
 - Green Tree Retention Area
 - ⊗ Rock Pit
 - Ⓢ Stockpile

SCALE
 1" = 12,000
 1 Inch = 1,000 Feet

