

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)
	1	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
28	2,580	2,580
38	2,181	2,181
48	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

Bd. Ft./Load: 4,000

Logging System:

Cable: Medium Tower >40 - <70

Process: Stroke Delimber

Tree Size:

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

Loads/Day:

Cost/MBF:

\$102.58

Machines:

Log Loader (A) Stroke Delimber (A)

Tower Yarder (Medium)

Douglas - Fir

20.16%

Combination#: 2

Yarding Distance: Medium (800 ft)

Downhill Yarding: No

Logging System:

Cable: Medium Tower >40 - <70

Process: Manual Delimbing

Tree Size:

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

Loads/Day:

Bd. Ft./Load: 4,000

Cost/MBF:

\$165.83

5

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 Delimbing

Tree Size:

Loads/Day:

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

Cost/MBF:

Bd. Ft./Load: 4,000 \$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 Rock Paved (Contractor) (State)

0.0 0.0 17.0 0.0

Road Maintenance: \$0.00

	Hauling Costs	
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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"

	Douglas - Fir
Costs	
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:	Pįt I	Bull	
CONSTRUCTION		Project No. 1	1	
F	load Segment	Length	Cost	
***************************************	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 st		
		1.02 miles		
	<u>s</u>	UBTOTAL CO		\$12,661.03
<u>IMPROVEMENTS</u>		Project No. 1	!	
B	oad Segment	Length	Cost	
,	K-L	21 + 58	\$3,613.90	
	M-N	2 + 58	\$393.19	
	0-P	8 + 50	\$1,275.15	
	•	32 + 66 st		
		0.62 miles	A Company of the Comp	
	9	UBTOTAL IMP		\$5,282.24
	<u> </u>	ODIVIALIME	HOVEWENTS	49,202.24
SURFACING		Project No. 2	2	
Road Segment	Amount	Туре	Cost	
A-B	486 cy	6" - 0	\$3,188.16	
C-D	753 cy	6" - 0	\$4,999.92	
E-F	045			
	315 cy	6" - 0	\$1,890.00	
G-H	146 cy	6° - 0	\$1,890.00 \$744.60	
l-J	146 cy 368 cy	6" - 0 6" - 0	\$744.60 \$1,895.20	
I-J K-L	146 cy 368 cy 1,962 cy	6" - 0 6" - 0 6" - 0	\$744.60 \$1,895.20 \$11,301.12	
I-J K-L M-N	146 cy 368 cy 1,962 cy 414 cy	6" - 0 6" - 0 6" - 0	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52	
I-J K-L M-N O-P	146 cy 368 cy 1,962 cy 414 cy 796 cy	6" - 0 6" - 0 6" - 0 6" - 0	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52 \$4,131.24	
I-J K-L M-N O-P Q-R	146 cy 368 cy 1,962 cy 414 cy 796 cy 612 cy	6" - 0 6" - 0 6" - 0 6" - 0 6" - 0	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52	
I-J K-L M-N O-P	146 cy 368 cy 1,962 cy 414 cy 796 cy	6" - 0 6" - 0 6" - 0 6" - 0	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52 \$4,131.24	
I-J K-L M-N O-P Q-R	146 cy 368 cy 1,962 cy 414 cy 796 cy 612 cy	6" - 0 6" - 0 6" - 0 6" - 0 6" - 0	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52 \$4,131.24	\$33,720.88
I-J K-L M-N O-P Q-R	146 cy 368 cy 1,962 cy 414 cy 796 cy 612 cy 5,852 cy	6" - 0 6" - 0 6" - 0 6" - 0 6" - 0	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52 \$4,131.24 \$3,219.12	\$33,720.88
I-J K-L M-N O-P Q-R Total	146 cy 368 cy 1,962 cy 414 cy 796 cy 612 cy 5,852 cy	6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 SUBTOTAL	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52 \$4,131.24 \$3,219.12	\$33,720.88
I-J K-L M-N O-P Q-R Total	146 cy 368 cy 1,962 cy 414 cy 796 cy 612 cy 5,852 cy	6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 SUBTOTAL	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52 \$4,131.24 \$3,219.12	\$33,720.88
I-J K-L M-N O-P Q-R Total SPECIAL PROJEC Project No. 3 G	146 cy 368 cy 1,962 cy 414 cy 796 cy 612 cy 5,852 cy TS rass seed and oil.	6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 SUBTOTAL	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52 \$4,131.24 \$3,219.12 SURFACING	\$33,720.88
I-J K-L M-N O-P Q-R Total SPECIAL PROJEC Project No. 3 G	146 cy 368 cy 1,962 cy 414 cy 796 cy 612 cy 5,852 cy TS rass seed and oil.	6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 SUBTOTAL	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52 \$4,131.24 \$3,219.12 SURFACING	\$33,720.88 \$822.60
I-J K-L M-N O-P Q-R Total SPECIAL PROJEC Project No. 3 G	146 cy 368 cy 1,962 cy 414 cy 796 cy 612 cy 5,852 cy TS rass seed and oil.	6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 SUBTOTAL	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52 \$4,131.24 \$3,219.12 SURFACING	
I-J K-L M-N O-P Q-R Total SPECIAL PROJEC Project No. 3 Gi areas of disturbed s	146 cy 368 cy 1,962 cy 414 cy 796 cy 612 cy 5,852 cy TS rass seed and oil.	6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 6" - 0 SUBTOTAL	\$744.60 \$1,895.20 \$11,301.12 \$2,351.52 \$4,131.24 \$3,219.12 SURFACING	\$822.60

Timber Sale:	Pit Bull	Road:	w	A to	В
Construction -	- 7+14 stations	lmi	provement -	0+00	stations
	0.14 miles	·	•	0.00	miles
OLEADING AND OD	IDDING				•
CLEARING AND GRU	**				
Scattering	0.75		per acre =	\$651.75	
		TOTAL CLE	EARING AND	GRUBBING	\$651.75
EXCAVATION -					
Road	7.14	sta @ \$89.63	per sta =	\$639.96	
Landing	2.00		per sta =	\$179.26	
Grade, ditch and roll	0.14		•	\$167.86	
	 ,	π ο φι, ιου.σο	•	CAVATION	\$987. 08
					4007.00
CULVERTS - MATER	RIALS & INSTALLA	TION			
Culverts					
0	LF of 18" \$0.00	C) LF of 24"	\$0.00	
0	LF of 30" \$0.00	C) LF of 36"	\$0.00	
0	LF of 42" \$0.00) LF of 48"	\$0.00	
0	LF of 54" \$0.00	_ () LF of 60"	\$0.00	
	\$0.00			\$0.00	
Half Roun					
	LF of 21" \$0.00) LF of 30"	\$0.00	
	LF of 36" \$0.00) LF of 42"	\$0.00	
	LF of 48" \$0.00) LF of 54"	\$0.00	
0	LF of 60" \$0.00) LF of 66"	\$0.00	•
Out out Of	\$0.00			\$0.00	
Culvert Sta					
U	stakes \$0.00	•	TOTAL		40.00
			IOIAL	CULVERTS	\$0.00
SURFACING- 10	" deep = 56 cy/sta				
Subgrade 400	cy of 6" - 0	@ \$6.56	per cy =	\$2,624.00	
Curve Widening 30	cy of 6" - 0		per cy =	\$196.80	
Landing 56	cy of 6" - 0	·	per cy =	\$367.36	
Total = 486	cy of 6"-0	•		URFACING	, \$3,188.16
SPECIAL PROJECTS					• •
Grass seed and fertilize area	s of disturbed soil	0.37 acres x \$18	80 / acre	\$66.60	
		C.C. GOICO A WIL		\$0.00	
				\$0.00	
				\$0.00	
		тот	AL SPECIAL		\$66.60
			TOTAL (COST =	\$4,893.59

Timber Sale:	Pit Bull		Road:	C to	D
Construction	- 10+60 stations		Improvement	- 0+00	stations
	0.20 miles			0.00	miles
OLEADING AND OD				***************************************	•
CLEARING AND GRI				•	
Scattering	1	.07 acres @	4		
			TOTAL CLEARING AN	ID GRUBBING	\$929.83
EXCAVATION -					
Road	10	0.60 sta@	\$89.63 per sta =	\$950.08	
Landing		2.00 sta @		\$179.26	
Grade, ditch and roll	C	.20 mi @	\$1,199.00 per mi =	\$239.80	
			TOTAL	EXCAVATION	\$1,369.14
CHIVEDTS MATE	DIALO PINIOTAL	ATION			
CULVERTS - MATER	TIALS & INSTAL	LATION			
Culverts	D LF of 18" \$0.	00	0 15 404		
	D LF of 18" \$0. D LF of 30" \$0.		0 LF of 24'	·	
) LF of 42" \$0.		0 LF of 36' 0 LF of 48'	*	
) LF of 54" \$0.		0 LF of 60'	*	
	\$0.		0 21 0/00	\$0.00	•
Half Rour				ψυ.υυ	
· c) LF of 21" \$0.	00	0 LF of 30'	\$0.00	
G) LF of 36" \$0.	00	0 LF of 42'	\$0.00	
) LF of 48" \$0.	00	0 LF of 54'	\$0.00	
О) LF of 60"\$0.		0 LF of 66	\$0.00	
Out out O	\$0.	00		\$0.00	
Culvert St		00			
·	stakes \$0.	00_	TOTA	N OHIVEDTO	40.00
			1017	AL CULVERTS	\$0.00
SURFACING- 10	deep = 56 cy/sta				
Subgrade 594	cy of 6" - 0	@	\$6.64 percy =	\$3,944.16	
Curve Widening 75	cy of 6"-0	@	\$6.64 per cy =	\$498.00	
Turnouts 28	cy of 6" - 0	@	\$6,64 percy =	\$185.92	
Landing <u>56</u>		@	\$6.64 percy=	\$371.84	•
Total = 753	cy of 6" - 0		TOTAL	. SURFACING	\$4,999.92
SPECIAL PROJECTS					
Grass seed and fertilize area	as of disturbed soil.	0.53	acres x \$180 / acre	\$95.40	
				\$0.00	
1				\$0.00	
			·	\$0.00	
			TOTAL SPECIA	AL PROJECTS	\$95.40
			TOTAL	. COST =	\$7,394.29
			IOIAL	. 5551 =	ψ1,JJ4.LJ

Timber Sale:	Pit Bull	Road:	E to	o F
Construction -		lmp	provement - 0+00	_stations
	0.08 miles		0.00	_miles
CLEARING AND GRU	JBBING -			
Scattering		acres @ \$869.00	per acre = \$425.81	
ū	0.10		ARING AND GRUBBING	
Pro 1 / A 1			a minima / minima di tobbilito	9120.01
EXCAVATION -				
Road	4.35	sta @ \$89.63	per sta = \$389.89	
Landing	2.00		per sta = \$179.26	
Grade, ditch and roll	0.08	mi @ \$1,199.00		
			TOTAL EXCAVATION	\$665.07
CULVERTS - MATER	RIALS & INSTALLA	TION		
Culverts	······································	TING		
	LF of 18" \$0.00	0	LF of 24" \$0.00	
	LF of 30" \$0.00			
	LF of 42" \$0.00		LF of 36" \$0.00 LF of 48" \$0.00	
	LF of 54" \$0.00		LF of 60" \$0.00	
	\$0.00		\$0.00	;**
Half Round			φο.σσ	
0	LF of 21" \$0.00	0	LF of 30" \$0.00	
0	LF of 36" \$0.00		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	
	\$0.00	•	\$0.00	-
Culvert Sta	akes			
0	stakes \$0.00			
			TOTAL CULVERTS	\$0.00
SURFACING- 10	" doon - E6 autota			
Subgrade 244	" deep = 56 cy/sta cv of 6" - 0	@ <u>^</u>		
Curve Widening 15	cy of 6" - 0		per cy = \$1,464.00	
Landing 56	cy of 6" - 0		per cy = \$90.00	
Total = 315	•	\$6.00	per cy = \$336.00 TOTAL SURFACING	-
	0,0.0		TOTAL SUNFACING	\$1,890.00
SPECIAL PROJECTS				
Grass seed and fertilize area	s of disturbed soil.	0.25 acres x \$18	0 / acre \$45.00	
			\$0.00	
			\$0.00	
			\$0.00	_
		TOTA	AL SPECIAL PROJECTS	\$45.00
		•	TOTAL COST =	\$3,025.88

Timber Sale:	Pit Bull	Road:	G	to H
Construction	1+60 stations 0.03 miles	lmį	provement - 0+00 0.00	stations miles
CLEARING AND GRU	JBBING -			
Scattering		4 acres @ \$869.00	per acre = \$208.	56
v			EARING AND GRUBBII	VG \$208.56
EXCAVATION -				
Road	1.6	0 sta @ \$89.63	persta = \$143.	41
Landing	2.0	- -	persta = \$179.	
Grade, ditch and roll	0.0		•	
orado, anon ana ron	0.0.	, , , , , , , , , , , , , , , , , , ,	TOTAL EXCAVATION	
0111111111010 LIATE	NALO O INIOTALI.	TION		
CULVERTS - MATER Culverts	RIALS & INSTALLA	TION		
) LF of 18" \$0.00		0 LF of 24" \$0.	no
_) LF of 30" \$0.00		0 LF of 36" \$0.	
	LF of 42" \$0.00		0 LF of 48" \$0.	
	LF of 54" \$0.00		D LF of 60" \$0.	
~	\$0.00		\$0.	
Half Rour	*		***	
	LF of 21" \$0.00		0 LF of 30" \$0.	00
	LF of 36" \$0.00		0 LF of 42" \$0.	00
O	LF of 48" \$0.00		0 LF of 54" \$0.	00
O	LF of 60" \$0.00	. (0 LF of 66" \$0.	00_
	\$0.00		\$0.	00
Culvert St	takes			
C	stakes\$0.00	<u>. </u>		
			TOTAL CULVER	TS \$0.00
SURFACING- 10) " deep = 56 cy/sta			
Subgrade 90		@ \$5.10	percy = \$459.	00
Landing 56	•		per cy = \$285.	
Total = 146	- '	•	TOTAL SURFACE	NG \$744.60
SPECIAL PROJECTS	•			
Grass seed and fertilize are		0.12 acres x \$1	80 / acre \$21.	6 0
Grass seed and remite are	as vi uistuineu soii.	U. IZ AUIES X DI	\$0.7 acre \$21.	
			\$0.	
	-4		\$0	
		TO ⁻	TAL SPECIAL PROJEC	- increase
			TOTAL COST	64 000 40
			TOTAL COST	= \$1,333.40

Timber Sale:	Pit Bul	I		Road:		l to	J
Construction -	5+30stat			lmp	rovement -	0+00	_stations
	U. IU MIE	8				0,00	miles
CLEARING AND GRU	<u> IBBING -</u>						
Scattering		0.58	acres @	\$869.00	per acre =	\$504.02	
•						O GRUBBING	~~
							•
EXCAVATION -							
Road		5.30			per sta =	\$475.04	
Landing		2.00			per sta =	\$179.26	
Grade, ditch and roll		0.10	mi @	\$1,199.00	•	\$119.90	
					TOTAL I	EXCAVATION	\$774.20
CULVERTS - MATER	SIALS & INIS	ΤΔΙΙΔ	TION				
Culverts	WILD GIND		LIVIA				
	LF of 18"	\$0.00		^	LF of 24"	\$0.00	
	LF of 30"	\$0.00			LF of 36°	\$0.00 \$0.00	
	LF of 42"	\$0.00			LF of 48"	\$0.00	
	LF of 54"	\$0.00			LF of 60"	\$0.00	
ŭ		\$0.00	•		LI 01 00	\$0.00	***
Half Roun	ds	ψο.υυ				υυυ	
	LF of 21"	\$0.00		0	LF of 30"	\$0.00	
	LF of 36"	\$0.00			LF of 42"	\$0.00	
	LF of 48"	\$0.00			LF of 54"	\$0.00	
0	LF of 60"	\$0.00			LF of 66"	\$0.00	
	***************************************	\$0.00	-			\$0.00	-
Culvert St	akes	•				,	
o	stakes	\$0.00					
			•		TOTA	L CULVERTS	\$0.00
SURFACING- 10	" deep = 56 o	y/sta					
Subgrade 297	•	•	@	\$5.15	per cy =	\$1,529.55	
Curve Widening 15	•		@	-	per cy =	\$77.25	
Landing 56			@		per cy =	\$288.40	
Total = 368				Ψ		SURFACING	
SPECIAL PROJECTS	•						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Grass seed and fertilize area		nil	ac 0	acres x \$18	80 / acre	\$52.20	
dood and formize area	o or distanced s	<u>~11.</u>	0.23	avies A \$10	o acie	\$0.00	
						\$0.00	
						\$0.00	
			 	TOT	AL SPECIA	L PROJECTS	
				, 01.		, , , , , , , , , , , , , , , , , ,	432.20
					TOTAL	COST =	\$3,225.62

Timber Sale:	Pit Bull	Roa	d:	K to L	
Construction	- 8+82 stations 0.17 miles		Improvement -	21+58 stations 0.41 miles	
CLEARING AND GRU	IDDING		•		
Scattering		no	700.00	A4 504 00	
Scattering			790.00 per acre =	\$1,564.20	
Codicing	U.;		869.00 per acre = AL CLEARING AND	\$782,10	#0.040.00
		101/	AL CLEANING AINL	GRUBBING	\$2,346.30
EXCAVATION -					
Road	21.	58 sta@ :	\$55.49 per sta =	\$1,197.47	
Road	8.8		89.63 per sta =	\$790.54	
Landing	2.0		\$89.63 persta =	\$179.26	
Grade, ditch and roll	0.9		199.00 permi=	\$695.42	
		•	•	XCAVATION	\$2,862,69
OULVEDTO MATER					4 -7
CULVERTS - MATER Culverts	RIALS & INSTALL	ATION			
26	6 LF of 18" \$350.4	8	0 LF of 24"	\$0.00	
) LF of 30" \$0.0		0 LF of 36"	\$0.00	
O) LF of 42" \$0.0		0 LF of 48"	\$0.00	
O) LF of 54" \$0.0	0	0 LF of 60"	\$0.00	
	\$350.4	8	•	\$0.00	
Half Roun	nds			*****	
0	LF of 21" \$0.0	0	0 LF of 30"	\$0.00	
0) LF of 36" \$0.0	D	0 LF of 42"	\$0.00	
0) LF of 48" \$0.0	0	0 LF of 54"	\$0.00	
0	LF of 60"\$0.0	0	0 LF of 66"	\$0.00	
	\$0.0	0		\$0.00	
Culvert St	takes	-			
1	stakes \$8.0	<u>0</u>			
			TOTAL	CULVERTS	\$358.48
SURFACING- 10	" deep = 56 cy/sta				
Subgrade 1,704	•	@	\$5.76 percy=	\$9,815.04	
Curve Widening 90		@	\$5.76 per cy =	\$518.40	
Turnouts 112	•	@	\$5.76 per cy =	\$645.12	
Landing 56	- ,	@	\$5.76 per cy =	\$322.56	
Total = 1962	cy of 6"-0			SURFACING	\$11,301.12
SPECIAL PROJECTS	· i				
Grass seed and fertilize area		1.44 acre	s x \$180 / acre	\$259.20	
		1,77 4016	~ 1. V 1. OV 1 GU10	\$0.00	
				\$0.00	
				\$0.00	
, , , , , , , , , , , , , , , , , , ,			TOTAL SPECIAL		\$259.20
			TOT4:	000T #4-	407 70
			IOIAL	COST = \$17	<u>,127.79</u>

Timber Sale:		Pit	Bull		Road:		M to	o N	
Const	ruction -	3+54 0.07	_stations miles		lmt	orovement	2+58 0.05	_stations miles	
	•	, 0.07	- miles			-	0.05	mnes	
CLEARING AND	O GRU	BBING	=						
Scattering			0.24	acres @	\$790,00	per acre =	\$189.60		
Scattering			0.42	acres @		per acre =	\$364.98		
					TOTAL CLE	ARING AND	GRUBBING	ì	\$554.58
EXCAVATION -									
Road	•		2.58	sta@	\$55.49	per sta =	\$143.16		
Road			3.54			per sta =	\$317.29		
Landing			2.00	sta @		per sta =	\$179.26		
Grade, ditch and roll			0.12	mi@	\$1,199.00	per mi =	\$143.88		
						TOTAL E	XCAVATION	Ī	\$783.59
CULVERTS - M	ATED	IAICE	INCTALLA	TION					
	ulverts	IALS &	INSTALLA	HON					
C		LF of 18	\$0.00		0	LF of 24"	\$0.00		
		LF of 30	*			LF of 36"	\$0.00 \$0.00		
		LF of 42	*			LF of 48"	\$0.00		
		LF of 54				LF of 60"	\$0.00		
			\$0.00	-			\$0.00	***	
Ha	alf Round	ats					•		
	0	LF of 21	\$0.00		0	LF of 30"	\$0.00		
	0	LF of 36'	\$0.00		0	LF of 42"	\$0.00		
		LF of 48'	*		0	LF of 54"	\$0.00		
	0	LF of 60'		-	0	LF of 66"_	\$0.00		
			\$0.00				\$0.00		
GL	Ilvert Sta	ukes stakes	£0.00	,					
	U	stakes	\$0.00	-		TOTAL	L CULVERTS	,	\$0.00
						IOIA	LOOLVENIA	,	\$0.00
SURFACING-	10	" deep =	56 cy/sta						
Subgrade	343	cy of	6" - 0	@	\$5.68	per cy =	\$1,948.24		
Curve Widening	15	cy of	6" - 0	@	\$5.68	per cy =	\$85.20		
Landing	56	cy of	6" - 0	@	\$5.68	per cy =	\$318.08		
Total =	414	cy of	6" - 0			TOTAL	SURFACING	ì	\$2,351.52
SPECIAL PROJ	FCT9								
Grass seed and fertil		e of distric	had soil	0 22	acres x \$18	20 / 2010	\$59.40		
Grass seed and leftin	ize alea	o ui uisiur	DOU SUII.	0.33	actes x \$10	ou / acre	\$59.40 \$0.00		
		· · · · · · · · · · · · · · · · · · ·					\$0.00 \$0.00		
	······				——————————————————————————————————————		\$0.00		
		***************************************			TOT	AL SPECIAL	PROJECTS	MM2	\$59.40
									*
						TOTAL	COST =	\$3.	749.09

Timber Sale:		Pi	Bull		_Road:		O to	P	
Cons	struction	3+40	_stations		lm	provement -	8+50	stations	
		0.06	miles			_	0.16	miles	
CLEARING AN	ID GRI	IBBING	_					•	
Scattering		SDDING		8 acres @	\$700 aa		ma.a.a.a		
Scattering				o acres @ 1 acres @	******	per acre =	\$616.20		
Contioning			0.4		y	per acre =	\$356,29 GRÜBBING	•	#470 40
					IOIAL CLE	AUING AINE	GROBBING		\$972.49
EXCAVATION	•								
Road			8.5	0 sta@	\$55,49	per sta =	\$471.67		
Road			3.4			per sta =	\$304.74		
Landing			2.0	0 sta @		per sta =	\$179.26		
Grade, ditch and ro	ll		0.2	2 mi@	\$1,199.00	•	\$263.78		
							XCAVATION	•	\$1,219.45
CHIVEDTO			INIOTALL	T.O.					4.,
CULVERTS -		MALS &	INSTALLA	LION					
,	Culverts	15.740							
		LF of 18	+			LF of 24"	\$0.00		
		LF of 30	4			LF of 36"	\$0.00		
		LF of 42	*			LF of 48"	\$0.00		
	U	LF of 54			C	LF of 60"_	\$0.00		
·. L	lalf Roun	de	\$0.00				\$0.00		
•		LF of 21'	\$0.00		0	LF of 30"	\$0.00		
		LF of 36'	*			LF of 42"	\$0.00		
		LF of 48'	* * * * * * * * * * * * * * * * * * * *			LF of 54"	\$0.00		
		LF of 60°				LF of 66"	\$0.00		
			\$0.00		•	L 0,00 _	\$0.00		
C	ulvert Sta	akes					ψο.σσ		
	0	stakes	\$0.00						
			,	-		TOTAL	CULVERTS		\$0.00
SURFACING-									
7		" deep =	56 cy/sta	_					
Subgrade	667	cy of	6" - 0	@		per cy =	\$3,461.73		
Curve Widening	45	cy of	6" - 0	@		per cy =	\$233.55		
Turnouts	28	cy of	6" - 0	@		per cy =	\$145.32		
Landing	56	cy of	6" - 0	@	\$5.19	per cy = _	\$290.64		
Total =	796	cy of	6" - 0			TOTAL	SURFACING		\$4,131.24
SPECIAL PRO	JECTS								
Grass seed and fert		s of disturt	ed soil.	0.59	acres x \$18	0 / acre	\$106.20		
					N WIC		\$0.00		
			, , ,				\$0.00		
	1			****************			\$0.00		
				· · · · · · · · · · · · · · · · · · ·	TOTA	AL SPECIAL	PROJECTS		\$106.20
									•
						TOTAL	COST =	\$6 ,	429.38

Timber Sale:	Pit Bull	Road:	Q to R	
Construction	- 8+90 stations	Improvemen	t - 0+00 stations	
	0.17 miles		0.00 miles	,
OLEADING AND OD				
CLEARING AND GR	<u>UBBING -</u>			
Scattering	0.9	91 acres @ \$869.00 per acre	***************************************	
		TOTAL CLEARING A	ND GRUBBING	\$790.79
EXCAVATION -				
Road	8.9	90 sta@ \$89.63 persta=	\$797.71	
Landing	2.0	+ p		
Grade, ditch and roll	0.1	**************************************		
		The state of the s	EXCAVATION	\$1,180.80
CHIVEDTO MATE	DIALO O INIOTALL	ATION		·
CULVERTS - MATE	DIALS & INSTALL	ALION		
Culverts	0 15-4408 - 400			
	0 LF of 18" \$0.00 0 LF of 30" \$0.00			
	0 LF of 42" \$0.00			
	0 LF of 54" \$0.00		*	
·	\$0.00		\$0.00	
Half Rour	* '		ψο.σσ	
(0 LF of 21" \$0.00	0 LF of 30	0" \$0.00	
C	0 LF of 36" \$0.00	0 LF of 42	•	
C	0 LF of 48" \$0.00	0 LF of 54	1" \$0.00	
C	0 LF of 60"\$0.00		S"\$0.00_	
	\$0.00		\$0.00	
Culvert S				
•	0 stakes\$0.00		AL OULLETOTO	** **
		101	AL CULVERTS	\$0.00
SURFACING 10	0 " deep = 56 cy/sta			
Subgrade 498	3 cy of 6"-0	@ \$5.26 per cy =	\$2,619.48	
Curve Widening 30	O cy of 6" - 0	@ \$5.26 per cy =	\$157.80	
Turnouts 28	3 cy of 6" - 0	@ \$5.26 percy=	\$147.28	
Landing 56	-	@ \$5.26 per cy =	\$294.56	
Total = 612	2 cy of 6" - 0	TOTA	AL SURFACING	\$3,219.12
SPECIAL PROJECTS	`			
Grass seed and fertilize area	-	0.45 acres x \$180 / acre	\$04.00	
Grado aced and refulize area	as of disturbed soil.	0.45 acres x \$180 / acre	\$81.00 \$0.00	
			\$0.00	
			\$0.00	
		TOTAL SPECI	AL PROJECTS	\$81.00
		TOTA	L COST = \$	5,271.71

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

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

Swell: 1.30 Shrinkage: 1.16 Drill Pct.: 100%	- - -	1-1/2"-0 (trk measure 4"-0 (trk measure) Pit Run (trk measure) Total Truck Yardage Total In Place Yardag	5,852 cy 5,852 cy
Move in D8 Scalp & Clear Overburden	_\$130.31_/hr x	20 hrs = Subt	\$533.00 \$2,606.20 otal \$3,139.20
Move in Excavator Dig Rock	\$0.75_/cy x	5,852 cy = Subt	\$533.00 \$4,389.00 otal \$4,922.00
Strip Rock Push Rock Oversize Reduction Move in Crusher Set Up Crusher	\$0.00 /cy x \$0.53 /cy x \$4.00 /cy x	0 cy = 0 cy = 0 cy =	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Move in Screening plant Move in Loaders Load Crusher Crushing (1-1/2" - 0) Crushing (4" - 0) Crushing (Jaw Run)	\$0.41 /cy x \$2.25 /cy x \$2.00 /cy x	0 cy = 0 cy = 0 cy =	\$0.00 \$0.00 \$0.00 \$0.00
Load Dump Truck	\$1.75 /cy x \$0.32 /cy x	0 cy = 5,852 cy = Subt	\$0.00 \$1,872.64 otal \$1,872.64
Gradation Tests Change Gradation Clean Up Pit	\$65.00 /2000 cy > \$130.31 /hr x	0 cy = 2 hrs = Subt	\$0.00 \$0.00 \$260.62 otal \$260.62
BASE COST \$1.74/cy	тот	AL PRODUCTION CO	ST_\$10,194.46
Grass seed and fertilize waste area	\$180.00 /acre x	0.2 acres =	\$36.00

MOBILIZATION COST SUMMARY

Timber Sale:

Pit Bull

MILEAGE FACTORS

 Distance	ce Factor	Distance	ce Factor
 0-25	0.58	22	1.07
 90	0.66	09	1.15
 35	0.74	65	1.23
 40	0.82	2	1,31
45	0.91	75	1.40
 50	8.	80	1.48

MILEAGE FACTOR =

	EQUIPMENT	Base	Move in	Within Area Move	Begin	End	Total	Within Area	Total
ટું	DESCRIPTION	Cost	Cost	(\$/mile)	Mileage	Mileage	Miles	Cost	Cost
0	Drill & Compressor	\$241	\$0.00						\$0.00
	Graders	\$241	\$241.00	\$7.33	0	4.04	40.4	\$29.61	\$270.61
0	0 Loader (1.5 - 2.5 cy)	\$241	\$0.00	\$8.42	0	0	0	\$0.00	\$0.00
0	Loader (3 cy +)		\$0.00	\$9.56	0	0	0	\$0.00	\$0.00
N	2 Rollers & Compactors		\$482.00	\$14.25	0	4.04	40.4	\$115.14	\$597.14
-	Excavators		\$533.00	\$36.60	0	4.04	40.4	\$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
-	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

\$2,760.76 TOTAL MOBILIZATION COSTS =

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.
- Revenue Distribution: 90% Columbia County BOF
 10% Classop County BOF (Tax Code 8-01)
- 3. <u>Sale Acreage:</u> 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-FJR AREAS 1,2, & 4 PC-H	564	918	163	1,645
AREA 3 MC R/W TOTAL LESS 2% D &B	2,026 <u>43</u> 2,633 2,580	1,273 <u>35</u> 2,226 2,181	116 <u>4</u> 283 278	3,415 <u>82</u> 5,142 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. <u>Timber Description:</u> 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	PLOT#		BAF
STAND		PLOTS	
#			
7127	9-23	15	40
7131	6-11,	14	40
	18-25		
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 o	f 2005.	Area 3 w	as
	cruised by IRM contractors in December 2003/January 2004.			

11. Signatures:

Preparer:

Nathan Hunter

Date

Acting Unit Forester:

Mike Haasken

Date

Residual Stand Specifications

Partial Cut Area 1,2 & 4

Residual QMD assumption (from cruise leave tree information) - <u>24 inches</u>. Target Relative Density - <u>24</u>

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



