



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Gold Peak Sale 341-04-15

District: Tillamook

Date: 6/27/03

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$990,166.22	\$54,136.32	\$1,044,302.54
	Project Work		(\$244,235.00)
	Advertised Value		\$800,067.54



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Timber Description Gold Peak Sale 341-04-15

District: Tillamook

Location: Sections 34, 35, T1S, R8W and Sections
1,2,3, and 12, T2S, R8W, W.M., Tillamook
County

Date: 6/27/03

Stand Stocking: 20%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	13	0	95
Alder (Red)	13	0	95

Volume by Grade	Douglas - Fir	Alder (Red)	Total
3S	4,214	0	4,214
4S	228	0	228
Camprun	0	212	212
Total	4,442	212	4,654

Comments: Pond Values Used: 2nd Quarter 2003 + Local Pond Values

Road Maintenance: Total = \$2.34/MBF

Grading: \$500/mile x 5 miles x 3 times = 7500/4654 mbf = \$1.61/MBF

Surfacing: \$2.68/yard x 4.7mmbf x 3 miles x 30 CuYds/mile /4654 mbf = \$.24/MBF

Final Compaction: 196 stations x \$11/station x 1 time + \$111 move in
= \$2267/4654mbf = \$.49/MBF

Other Costs (plus profit and risk): Total = \$21,908

Brand and Paint: \$2.00/mbf x 4654 mbf = \$9,308

Truck assist spur in Area 5: \$25/mbf x 504mbf = \$12,600

Other Cost (profit and risk included): Total = \$7353

Clear debris from OHV trails in Area 7: 2000 feet @ \$0.40/ft = \$800

Machine time to reconstruct OHV trail access points: \$115/hr x 8hrs = \$920

Dust Abatement: \$1125/application(1500gal x \$.75gal) x 2 times x 2 seasons = \$4500

Pit-run rock for landing in Area 5: 66cyds x \$5.50/cy = \$363

Slash Piling and Sorting: 350 acre unit containing 4654 MBF = 7hrs @ \$110 = \$770

Hardwood Pond Value of \$510 obtained locally.



Timber Sale Appraisal

Logging Conditions

Gold Peak

Sale 341-04-15

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	84.00%	
	Alder (Red)	84.00%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Medium Tower >40 - <70		Process: Stroke Delimber
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	6		Bd. Ft./Load: 3,200
Cost/MBF:	\$170.97		
Machines:			
	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Medium)		
Combination#: 2	Douglas - Fir	3.00%	
	Alder (Red)	3.00%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: Yes
Logging System:	Track Skidder		Process: Manual Falling/Delimbing
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	8		Bd. Ft./Load: 3,200
Cost/MBF:	\$127.56		
Machines:			
	Log Loader (B)		
	Track Skidder		
Combination#: 3	Douglas - Fir	9.00%	
	Alder (Red)	9.00%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: No
Logging System:	Cable: Medium Tower >40 - <70		Process: Stroke Delimber
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	5		Bd. Ft./Load: 3,200
Cost/MBF:	\$205.16		
Machines:			
	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Medium)		
Combination#: 4	Douglas - Fir	4.00%	
	Alder (Red)	4.00%	

Yarding Distance:	Short (400 ft)	Downhill Yarding:	Yes
Logging System:	Track Skidder	Process:	Manual Falling/Delimbing
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	8	Bd. Ft./Load:	3,200
Cost/MBF:	\$136.06		
Machines:			
	Log Loader (B)		
	Track Skidder		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal

Logging Costs

Gold Peak

Sale 341-04-15

Date: 6/27/03

Operating Seasons: 2.0

Profit & Risk: 15%

Project Costs: \$244,235

Other Costs (P/R): \$21,908

Slash Disposal: \$0

Other Costs: \$7,353

Road Maintenance: \$2.34

Miles of Road			
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	3.2
Alder (Red)	\$0.00	4.0	2.8

Local Pond Values

Date	Species	Grade	Value
6/27/03	Alder (Red)	Camprun	\$510.00



Timber Sale Appraisal **Logging Costs Breakdown** **Gold Peak** **Sale 341-04-15**

"STEWARDSHIP IN FORESTRY"

Costs	Douglas - Fir	Alder (Red)
Logging	171.35	171.35
Road Maintenance	2.46	2.46
Fire Protection	1.16	1.16
Hauling	46.11	40.37
Other (P/R appl.)	4.71	4.71
Profit & Risk	33.87	33.01
Slash Disposal	0.00	0.00
Scaling	2.00	0.00
Other	1.58	1.58
Total	263.24	254.64

Amortization	0.00	0.00
Pond Value	486.15	510.00
Stumpage	222.91	255.36
Amortized	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Gold Peak Sale 341-04-15

Amortized

	Douglas - Fir	Alder (Red)
MBF	0.00	0.00
Value	0.00	0.00
Total	0.00	0.00

Unamortized

	Douglas - Fir	Alder (Red)
MBF	4,442.00	212.00
Value	222.91	255.36
Total	990,166.22	54,136.32

Gross Timber Sale Value

Recovery \$1,044,302.54

Prepared by: Don Everingham

Date: 6/27/03

District: Tillamook

Phone: (503) 842-2545

PROJECT SUMMARY SHEET

Sale: Gold Peak

CONSTRUCTION

Point	C to D	4 + 90	stations =	\$2,968.50
Point	E to F	3 + 90	stations =	\$3,020.83
Point	K to L	6 + 25	stations =	\$3,980.25
Point	M to N	10 + 05	stations =	\$11,785.45
Point	O to P	8 + 15	stations =	\$5,015.24
Point	Q to R	1 + 85	stations =	\$684.00
SUBTOTAL CONSTRUCTION				\$27,454.26

IMPROVEMENT

Point	A to B	241 + 05	stations =	\$193,001.39
Point	G to H	10 + 25	stations =	\$6,017.79
Point	I to J	3 + 50	stations =	\$1,723.55
Point	K to L	8 + 05	stations =	\$5,126.55
Point	O to P	14 + 75	stations =	\$9,076.66
SUBTOTAL IMPROVEMENT				\$214,945.94

SPECIAL PROJECTS

SUBTOTAL SPECIAL PROJECTS	\$0.00
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MOVE IN

\$1,835.17

GRAND TOTAL

\$244,235

SUMMARY OF CONSTRUCTION COST

Sale:		Gold Peak		Road:		A to B	
Construction -		0 + 00 stations 0.00 miles		Improvement -		241 + 05 stations 4.57 miles	
CLEARING AND GRUBBING -							
Scattering - road		5.71 acres @		\$815.00 per acre =		\$5,468.65	
Piling - waste areas		1.00 acres @		\$905.00 per acre =		\$905.00	
TOTAL CLEARING AND GRUBBING						\$6,373.65	
EXCAVATION -							
Improvement		196.3 sta. @		\$30.00 per sta. =		\$5,889.00	
Ditchline & catchbasin		2 + 06 to 3 + 31 217 cys. @		\$1.15 per cy. =		\$248.55	
Widening		2 + 70 to 12 + 50 360 cys. @		\$1.15 per cy. =		\$414.00	
Widening		16 + 60 to 21 + 00 180 cys. @		\$1.15 per cy. =		\$207.00	
Widening		22 + 30 to 37 + 00 959 cys. @		\$1.15 per cy. =		\$1,102.85	
Widening		41 + 30 to 49 + 20 73 cys. @		\$1.15 per cy. =		\$83.95	
Widening		67 + 30 to 68 + 25 20 cys. @		\$1.15 per cy. =		\$23.00	
Berm		51 + 80 to 58 + 40 101 cys. @		\$1.15 per cy. =		\$116.15	
Berm		63 + 00 to 66 + 15 49 cys. @		\$1.15 per cy. =		\$56.35	
Berm		68 + 25 to 69 + 90 34 cys. @		\$1.15 per cy. =		\$39.10	
Berm		81 + 40 to 92 + 50 227 cys. @		\$1.15 per cy. =		\$261.05	
Berm		97 + 95 to 101 + 30 52 cys. @		\$1.15 per cy. =		\$59.80	
Berm		115 + 10 to 119 + 90 74 cys. @		\$1.15 per cy. =		\$85.10	
Berm		121 + 40 to 135 + 75 88 cys. @		\$1.15 per cy. =		\$101.20	
Berm		147 + 10 to 155 + 40 170 cys. @		\$1.15 per cy. =		\$195.50	
Berm		185 + 75 to 188 + 10 48 cys. @		\$1.15 per cy. =		\$55.20	
Berm		189 + 55 to 191 + 10 24 cys. @		\$1.15 per cy. =		\$27.60	
Berm		206 + 10 to 206 + 60 8 cys. @		\$1.15 per cy. =		\$9.20	
Pullback		79 + 10 to 81 + 40 375 cys. @		\$1.40 per cy. =		\$525.00	
Pullback		92 + 50 to 97 + 95 1,111 cys. @		\$1.40 per cy. =		\$1,555.40	
Pullback		101 + 30 to 103 + 00 208 cys. @		\$1.40 per cy. =		\$291.20	
Pullback		110 + 60 to 115 + 10 375 cys. @		\$1.40 per cy. =		\$525.00	
Pullback		119 + 90 to 121 + 40 306 cys. @		\$1.40 per cy. =		\$428.40	
Pullback		135 + 75 to 149 + 80 2,443 cys. @		\$1.40 per cy. =		\$3,420.20	
Pullback		155 + 40 to 158 + 80 416 cys. @		\$1.40 per cy. =		\$582.40	
Pullback		181 + 50 to 188 + 30 1,084 cys. @		\$1.40 per cy. =		\$1,475.60	
Pullback		186 + 80 to 174 + 85 656 cys. @		\$1.40 per cy. =		\$918.40	
Pullback		182 + 85 to 185 + 25 294 cys. @		\$1.40 per cy. =		\$411.60	
Pullback		224 + 70 to 233 + 50 1,793 cys. @		\$1.40 per cy. =		\$2,510.20	
TOTAL EXCAVATION						\$21,619.00	
ENDHAUL & COMPACTION-							
Endhaul - truck to waste area Sta. 0 + 75 CtoD from		51 + 80 to 58 + 40 101 cys. @		\$0.58 per cy. =		\$58.58	
Endhaul - truck to waste area Sta. 0 + 75 CtoD from		63 + 00 to 69 + 90 103 cys. @		\$0.72 per cy. =		\$74.16	
Endhaul - truck to waste area Sta. 0 + 75 CtoD from		79 + 10 to 103 + 00 1,973 cys. @		\$1.01 per cy. =		\$1,992.73	
Endhaul - truck to waste area Sta. 0 + 75 CtoD from		110 + 50 to 168 + 80 3,872 cys. @		\$1.54 per cy. =		\$5,962.88	
Endhaul - truck to waste area Sta. 0 + 75 CtoD from		161 + 50 to 174 + 85 1,710 cys. @		\$1.94 per cy. =		\$3,317.40	
Endhaul - truck to waste area Sta. 0 + 75 CtoD from		182 + 85 to 191 + 10 366 cys. @		\$2.16 per cy. =		\$790.56	
Endhaul - truck to waste area Sta. 0 + 75 CtoD from		206 + 10 to 206 + 60 8 cys. @		\$2.40 per cy. =		\$19.20	
Endhaul - truck to waste area Sta. 0 + 75 CtoD from		224 + 70 to 233 + 50 1,793 cys. @		\$2.67 per cy. =		\$4,787.31	
Compact waste on site outside of right-of-way		1,789 cys. @		\$0.35 per cy. =		\$626.15	
Compact waste area Sta. 0 + 75 C to D		9,926 cys. @		\$0.35 per cy. =		\$3,474.10	
TOTAL ENDHAUL						\$21,103.07	
CULVERTS - MATERIALS & INSTALLATION							
Culverts		288 LF of 18" \$4,248.00		208 LF of 24" \$3,692.00			
		34 LF of 30" \$705.50		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			
		\$4,953.50		\$3,692.00			
Half Rounds		70 LF of 21" \$798.00		40 LF of 30" \$580.00			
		0 LF of 36" \$0.00		0 LF of 42" \$0.00			
		\$798.00		\$580.00			
Culvert Stakes & Markers		22 stakes \$176.00					
		31 markers \$186.00					
		\$362.00					
TOTAL CULVERTS						\$10,385.50	
SURFACING-							
Road 0 + 00 to 16 + 60		1,189 cy. of 2 1/2"-0" Crushed @		\$3.16 per c.y. =		\$3,694.04	
Road 16 + 60 to 241 + 05		11,506 cy. of 2 1/2"-0" Crushed @		\$10.31 per c.y. =		\$118,626.86	
23 Boulders Sta. 0 + 30 to 1 + 20		9 cy. of Boulders @		\$7.53 per c.y. =		\$67.77	
40 Boulders Sta. 2 + 30 to 2 + 70		16 cy. of Boulders @		\$7.53 per c.y. =		\$112.95	
6 Boulders Sta. 3 + 35 to 3 + 60		2 cy. of Boulders @		\$7.53 per c.y. =		\$15.06	
31 Boulders Sta. 4 + 50 to 5 + 30		11 cy. of Boulders @		\$7.51 per c.y. =		\$82.61	
8 Boulders Sta. 5 + 80 to 6 + 10		3 cy. of Boulders @		\$7.51 per c.y. =		\$22.53	
13 Boulders Sta. 10 + 50 to 11 + 00		5 cy. of Boulders @		\$7.60 per c.y. =		\$38.00	
TOTAL SURFACING						\$122,659.82	
SPECIAL PROJECTS-							
Grade and shape road with a ditch		176.30 stations @		\$14.20 per station		\$2,503.46	
Grade and shape road with upslope		64.75 stations @		\$9.75 per station		\$631.31	
Roll subgrade w/ vibratory roller prior to rooking		241.05 stations @		\$11.00 per station		\$2,651.55	
Place existing boulders 2 + 05 to 4 + 50		1.00 hours @		\$130.00 per hour		\$130.00	
Remove old culverts form State Land						\$417.23	
Remove large stumps		4.50 hours @		\$130.00 per hour		\$585.00	
Construct ditchouts and leadoff ditches		6.00 hours @		\$130.00 per hour		\$780.00	
Turnouts, turnaround & waste areas construction		9.00 hours @		\$130.00 per hour		\$1,170.00	
Grass seed, fertilize and mulch 0 + 00 to 16 + 60		0.46 acres @		\$1,000.00 per acre		\$460.00	
Grass seed and fertilize 16 + 60 to 241 + 05 & waste area		8.51 acres @		\$180.00 per acre		\$1,531.80	
TOTAL SPECIAL PROJECTS						\$10,860.35	

SUMMARY OF CONSTRUCTION COST

Sale: **Gold Peak**

Road: **C to D**

Construction -	<u>4+90</u>	stations
	0.09	miles

Improvement -	<u>0+00</u>	stations
	0.00	miles

CLEARING AND GRUBBING - Scattering

0.39 acres @ \$815.00 per acre = \$317.85

TOTAL CLEARING AND GRUBBING

\$317.85

EXCAVATION -
Construction 0+00 to 4+90

4.90 sta. @ \$65.00 per sta. = \$318.50

TOTAL EXCAVATION

\$318.50

CULVERTS - MATERIALS & INSTALLATION

Culverts

0	LF of 18"	\$0.00
0	LF of 30"	\$0.00
0	LF of 42"	\$0.00
0	LF of 54"	\$0.00
		<u>\$0.00</u>

0	LF of 24"	\$0.00
0	LF of 36"	\$0.00
0	LF of 48"	\$0.00
0	LF of 60"	\$0.00
		\$0.00

Half Rounds

0	LF of 21"	\$0.00
0	LF of 36"	\$0.00
		<u>\$0.00</u>

0	LF of 30"	\$0.00
0	LF of 42"	\$0.00
		<hr/>
		\$0.00

Culvert Stakes & Markers

0 stakes	\$0.00
0 markers	\$0.00
	<hr/>
	\$0.00

TOTAL CULVERTS

\$0.00

SURFACING-

0+00	to	4+90	341	cy. of	Pit Run	@	\$6.07	per c.y.=	\$2,069.87
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TOTAL SURFACING

\$2,069.87

SPECIAL PROJECTS-

Grade and shape road with outslope	4.90 stations @	\$9.75 per station	\$47.78
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Roll subgrade w/ vibratory roller prior to rocking	4.90 stations @	\$11.00 per station	\$53.90
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Turnout and turnaround construction	0.50 hour @	\$130.00 per hour	\$65.00
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Remove large stumps	0.50 hour @	\$130.00 per hour	\$65.00
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Grass seed and fertilize	0.17 acres @	\$180.00 per acre	\$30.60
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TOTAL SPECIAL PROJECTS

\$262.28

GRAND TOTAL

\$2,968.50

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Gold Peak</u>				Road:	<u>E to F</u>			
Construction -	<u>3+90</u>		stations		Improvement -	<u>0+00</u>		stations	
	<u>0.07</u>		miles			<u>0.00</u>		miles	
CLEARING AND GRUBBING -									
Scattering			0.40	acres @	\$815.00	per acre =	<u>\$326.00</u>		
							TOTAL CLEARING AND GRUBBING		\$326.00
EXCAVATION -									
Construction	0+00	to	2+50	2.50	sta. @	\$290.00	per sta. =	\$725.00	
Construction	2+50	to	3+90	1.40	sta. @	\$65.00	per sta. =	<u>\$91.00</u>	
							TOTAL EXCAVATION		\$816.00
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"	<u>\$0.00</u>	
	0	LF of 54"		<u>\$0.00</u>		0	LF of 60"	<u>\$0.00</u>	
				\$0.00				\$0.00	
	Half Rounds								
	0	LF of 21"		\$0.00		0	LF of 30"	\$0.00	
	0	LF of 36"		<u>\$0.00</u>		0	LF of 42"	<u>\$0.00</u>	
				\$0.00				\$0.00	
	Culvert Stakes & Markers								
	0	stakes		\$0.00					
	0	marker		<u>\$0.00</u>					
				\$0.00					
							TOTAL CULVERTS		\$0.00
SURFACING-									
0+00	to	3+90	278	cy. of	Pit-Run	@	\$5.96	per c.y.=	<u>\$1,656.88</u>
							TOTAL SURFACING		\$1,656.88
SPECIAL PROJECTS									
Grade and shape road with outslope			1.40	stations @	\$9.75	per station	\$13.65		
Grade and shape road with ditch			2.50	stations @	\$14.20	per station	\$35.50		
Roll subgrade w/ vibratory roller prior to rocking			3.90	stations @	\$11.00	per station	\$42.90		
Turnaround construction			0.25	hour @	\$130.00	per hour	\$32.50		
Remove large stumps			0.50	hour @	\$130.00	per hour	\$65.00		
Grass seed and fertilize			0.18	acres @	\$180.00	per acre	<u>\$32.40</u>		
							TOTAL SPECIAL PROJECTS		\$221.95
GRAND TOTAL								\$3,020.83	

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Gold Peak</u>				Road:	<u>G to H</u>			
Construction -	<u>0+00</u> stations				Improvement -	<u>10+25</u> stations			
	<u>0.00</u> miles					<u>0.19</u> miles			
CLEARING AND GRUBBING -									
Scattering				0.82	acres @	\$815.00	per acre =	<u>\$671.21</u>	
TOTAL CLEARING AND GRUBBING								\$671.21	
EXCAVATION -									
Improvement	0+00	to	10+25	10.25	sta. @	\$120.00	per sta. =	<u>\$1,230.00</u>	
TOTAL EXCAVATION								\$1,230.00	
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"	<u>\$0.00</u>	
	0	LF of 54"		<u>\$0.00</u>		0	LF of 60"	<u>\$0.00</u>	
				\$0.00					\$0.00
Half Rounds									
	0	LF of 21"		\$0.00		0	LF of 30"	\$0.00	
	0	LF of 36"		<u>\$0.00</u>		0	LF of 42"	<u>\$0.00</u>	
				\$0.00					\$0.00
Culvert Stakes & Markers									
	0	stakes		\$0.00					
	0	marker		<u>\$0.00</u>					
				\$0.00					
TOTAL CULVERTS								\$0.00	
SURFACING-									
0+00	to	10+25	639	cy. of	Pit-Run	@	\$5.51	per c.y.=	<u>\$3,520.89</u>
TOTAL SURFACING								\$3,520.89	
SPECIAL PROJECTS-									
Grade and shape road with outslope				10.25	stations @	\$9.75	per station	\$99.94	
Roll subgrade w/ vibratory roller prior to rocking				10.25	stations @	\$11.00	per station	\$112.75	
Install waterbars				5	waterbars @	\$25.00	per waterbar	\$125.00	
Turnout and turnarounds construction				0.75	hour @	\$130.00	per hour	\$97.50	
Remove large stumps				0.75	hour @	\$130.00	per hour	\$97.50	
Grass seed and fertilize				0.35	acres @	\$180.00	per acre	<u>\$63.00</u>	
TOTAL SPECIAL PROJECTS								\$595.69	
GRAND TOTAL								\$6,017.79	

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Gold Peak</u>				Road:	<u>I to J</u>			
Construction -	<u>0+00</u> stations				Improvement -	<u>3+50</u> stations			
	<u>0.00</u> miles					<u>0.07</u> miles			
CLEARING AND GRUBBING -									
Scattering			0.16 acres @	\$815.00 per acre =	<u>\$130.40</u>				
TOTAL CLEARING AND GRUBBING							\$130.40		
EXCAVATION -									
Improvement	0+00	to	3+50	3.50 sta. @	\$65.00 per sta. =	<u>\$227.50</u>			
TOTAL EXCAVATION							\$227.50		
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"	<u>\$0.00</u>		
	0	LF of 54"	<u>\$0.00</u>		0	LF of 60"	<u>\$0.00</u>		
			\$0.00				\$0.00		
Half Rounds									
	0	LF of 21"	\$0.00		0	LF of 30"	\$0.00		
	0	LF of 36"	<u>\$0.00</u>		0	LF of 42"	<u>\$0.00</u>		
			\$0.00				\$0.00		
Culvert Stakes & Markers									
	0	stakes	\$0.00						
	0	markers	<u>\$0.00</u>						
			\$0.00						
TOTAL CULVERTS							\$0.00		
SURFACING-									
0+00	to	3+50	226	cy. of	Pit-Run	@	\$5.37 per c.y. =	<u>\$1,213.62</u>	
TOTAL SURFACING							\$1,213.62		
SPECIAL PROJECTS-									
Grade and shape road with outslope			3.50 stations @	\$9.75 per station	\$34.13				
Roll subgrade w/ vibratory roller prior to rocking			3.50 stations @	\$11.00 per station	\$38.50				
Turnaround construction			0.25 hour @	\$130.00 per hour	\$32.50				
Remove large stumps			0.25 hour @	\$130.00 per hour	\$32.50				
Grass seed and fertilize			0.08 acres @	\$180.00 per acre	<u>\$14.40</u>				
TOTAL SPECIAL PROJECTS							\$152.03		
GRAND TOTAL							\$1,723.55		

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Gold Peak</u>				Road:	<u>K to L</u>			
Construction -	<u>6+25</u> stations				Improvement -	<u>8+05</u> stations			
	<u>0.12</u> miles					<u>0.15</u> miles			
CLEARING AND GRUBBING -									
Scattering				1.15 acres @	\$815.00 per acre =		<u>\$937.25</u>		
TOTAL CLEARING AND GRUBBING									\$937.25
EXCAVATION and COMPACTION-									
Construction	0+00	to	4+10	4.10 sta. @	\$300.00 per sta. =		\$1,230.00		
Construction	4+10	to	6+25	2.15 sta. @	\$210.00 per sta. =		\$451.50		
Improvement	6+25	to	14+30	8.05 sta. @	\$65.00 per sta. =		<u>\$523.25</u>		
TOTAL EXCAVATION									\$2,204.75
ENDHAUL and COMPACTION-									
Drift & Compact	0+00	to	4+10	4.10 sta. @	\$60.00 per sta. =		\$246.00		
Drift & Compact	4+10	to	6+25	2.15 sta. @	\$45.00 per sta. =		<u>\$96.75</u>		
TOTAL ENDHAUL									\$342.75
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"		<u>\$0.00</u>		0	LF of 60"		<u>\$0.00</u>
				\$0.00					\$0.00
Half Rounds									
	0	LF of 21"		\$0.00		0	LF of 30"		\$0.00
	0	LF of 36"		<u>\$0.00</u>		0	LF of 42"		<u>\$0.00</u>
				\$0.00					\$0.00
Culvert Stakes & Markers									
	0	stakes		\$0.00					
	0	markers		<u>\$0.00</u>					
				\$0.00					
TOTAL CULVERTS									\$0.00
SURFACING-									
0+00	to	14+30	852 cy. of	Pit-Run	@	\$5.31 per c.y. =	\$4,524.12		
TOTAL SURFACING									\$4,524.12
SPECIAL PROJECTS-									
Grade and shape road with outslope				14.30 stations @	\$9.75 per station		\$139.43		
Roll subgrade w/ vibratory roller prior to rocking				14.30 stations @	\$11.00 per station		\$157.30		
Install waterbars				2 waterbars @	\$25.00 per waterbar		\$50.00		
Turnouts and turnaround construction				0.75 hour @	\$130.00 per hour		\$97.50		
Remove large stumps				4.35 hour @	\$130.00 per hour		\$565.50		
Grass seed and fertilize				0.49 acres @	\$180.00 per acre		\$88.20		
TOTAL SPECIAL PROJECTS									\$1,097.93
GRAND TOTAL								\$9,106.80	

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Gold Peak</u>				Road:	<u>M to N</u>			
Construction -	<u>10+05</u> stations <u>0.19</u> miles				Improvement -	<u>0+00</u> stations <u>0.00</u> miles			
CLEARING AND GRUBBING -									
Scattering - road				0.692 acres @	\$815.00 per acre =		\$564.10		
Piling - waste areas				0.50 acres @	\$905.00 per acre =		\$452.50		
TOTAL CLEARING AND GRUBBING									\$1,016.60
EXCAVATION -									
Construction	0+00	to	5+05	1,918 cys. @	\$1.15 per cy. =		\$2,205.70		
Construction	5+05	to	10+05	5.0 sta. @	\$210.00 per sta. =		\$1,050.00		
TOTAL EXCAVATION									\$3,255.70
ENDHAUL & COMPACTION-									
Endhaul - truck to waste area Sta. 0+70 CtoD from	2+70	to	4+20	778 cys. @	\$3.31 per cy. =		\$2,575.18		
Drift & Compact	5+05	to	10+05	5.00 sta. @	\$45.00 per sta. =		\$225.00		
Fill placement	0+00	to	5+05	1,140 cys. @	\$0.35 per cy. =		\$399.00		
Compact waste area Sta.0+70 C to D	2+70	to	4+20	778 cys. @	\$0.35 per cy. =		\$272.30		
TOTAL ENDHAUL									\$3,471.48
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	
				\$0.00					\$0.00
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	
				\$0.00					\$0.00
Culvert Stakes & Markers									
	0	stakes		\$0.00					
	0	marker		\$0.00					
				\$0.00					
TOTAL CULVERTS									\$0.00
SURFACING-									
	0+00	to	10+05	587	cy. of	Pit-Run	@	\$5.02 per c.y. =	\$2,946.74
TOTAL SURFACING									\$2,946.74
SPECIAL PROJECTS-									
Grade and shape road with a ditch				7.35	stations @	\$17.40 per station		\$127.89	
Grade and shape road with outslope				2.70	stations @	\$13.70 per station		\$36.99	
Roll subgrade w/ vibratory roller prior to rocking				10.05	stations @	\$11.00 per station		\$110.55	
Remove large stumps				3.75	hours @	\$130.00 per hour		\$487.50	
Turnout, turnaround & waste area construction				2.00	hours @	\$130.00 per hour		\$260.00	
Grass seed and fertilize - road & waste area				0.40	acres @	\$180.00 per acre		\$72.00	
TOTAL SPECIAL PROJECTS									\$1,094.93
GRAND TOTAL									\$11,785.45

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Gold Peak</u>				Road:	<u>O to P</u>			
Construction -	<u>8+15</u>		stations		Improvement -	<u>14+75</u>		stations	
	<u>0.15</u>		miles			<u>0.28</u>		miles	
CLEARING AND GRUBBING -									
Scattering				2.10 acres @	\$815.00 per acre =	<u>\$1,711.50</u>			
TOTAL CLEARING AND GRUBBING								\$1,711.50	
EXCAVATION -									
Construction	0+00	to	8+15	8.15 sta. @	\$260.00 per sta. =	\$2,119.00			
Improvement	8+15	to	22+90	14.75 sta. @	\$130.00 per sta. =	<u>\$1,917.50</u>			
TOTAL EXCAVATION								\$4,036.50	
ENDHAUL and COMPACTION-									
Drift & Compact	0+00	to	8+15	8.15 sta. @	\$60.00 per sta. =	<u>\$489.00</u>			
TOTAL ENDHAUL								\$489.00	
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"		<u>\$0.00</u>		0	LF of 60"	<u>\$0.00</u>	
				\$0.00				\$0.00	
Half Rounds									
	0	LF of 21"		\$0.00		0	LF of 30"	\$0.00	
	0	LF of 36"		<u>\$0.00</u>		0	LF of 42"	<u>\$0.00</u>	
				\$0.00				\$0.00	
Culvert Stakes & Markers									
	0	stakes		\$0.00					
	0	markers		<u>\$0.00</u>					
				\$0.00					
TOTAL CULVERTS								\$0.00	
SURFACING-									
0+00 to	22+90	1,312	cy. of	Pit-Run	@	\$4.82 per c.y. =	\$6,323.84		
TOTAL SURFACING								\$6,323.84	
SPECIAL PROJECTS-									
Grade and shape road with ditch				2.90 stations @	\$17.40 per station	\$50.46			
Grade and shape road with outslope				20.00 stations @	\$13.70 per station	\$274.00			
Roll subgrade w/ vibratory roller prior to rocking				22.90 stations @	\$11.00 per station	\$251.90			
Turnouts and turnaround construction				1.25 hour @	\$130.00 per hour	\$162.50			
Remove large stumps				5.00 hour @	\$130.00 per hour	\$650.00			
Grass seed and fertilize				0.79 acres @	\$180.00 per acre	<u>\$142.20</u>			
TOTAL SPECIAL PROJECTS								\$1,531.06	
GRAND TOTAL								\$14,091.90	

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Gold Peak</u>				Road:	<u>Q to R</u>			
Construction -	<u>1 + 85</u> stations				Improvement -	<u>0 + 00</u> stations			
	<u>0.04</u> miles					<u>0.00</u> miles			
CLEARING AND GRUBBING -									
Scattering				0.13 acres @	\$815.00 per acre =		<u>\$105.95</u>		
TOTAL CLEARING AND GRUBBING									\$105.95
EXCAVATION -									
Construction	0 + 00	to	1 + 85	1.85 sta. @	\$65.00 per sta. =		<u>\$120.25</u>		
TOTAL EXCAVATION									\$120.25
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"		<u>\$0.00</u>		0	LF of 60"		<u>\$0.00</u>
				\$0.00					\$0.00
Half Rounds									
	0	LF of 21"		\$0.00		0	LF of 30"		\$0.00
	0	LF of 36"		<u>\$0.00</u>		0	LF of 42"		<u>\$0.00</u>
				\$0.00					\$0.00
Culvert Stakes & Markers									
	0	stakes		\$0.00					
	0	markers		<u>\$0.00</u>					
				\$0.00					
TOTAL CULVERTS									\$0.00
SURFACING-									
0 + 00	to	1 + 85	127 cy. of	Pit-run	@	\$2.83 per c.y. =	\$359.41		
TOTAL SURFACING									\$359.41
SPECIAL PROJECTS-									
Grade and shape road with outslope				1.85 stations @	\$9.75 per station		\$18.04		
Roll subgrade w/ vibratory roller prior to rock				1.85 stations @	\$11.00 per station		\$20.35		
Grass seed, fertilize and mulch				0.06 acres @	\$1,000.00 per acre		\$60.00		
TOTAL SPECIAL PROJECTS									\$98.39
GRAND TOTAL									\$684.00

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Sale: Gold Peak

Pit:	Gold Peak
Rock:	2 1/2"-0"
Swell:	1.40
Shrinkage:	1.16
Drill Pct.:	100%

Station 239 + 00 on A to B

Location:	SW 1/4, SE 1/4, Sec 34, T1S, R8W, W.M.
Road:	11,506 c.y.
Stockpile:	000 c.y.
Total Truck Loads:	11,506 c.y.
In Place Total:	8,219 c.y.

Clear, scalp, load & compact overburden; construct access road:

D-8 Cat and excavator - 30 Hrs. @ \$260.00/Hr \$7,800.00

End-haul overburden to waste area at Sta. 21 + 75 on O to P:

Dump Truck-90 Hrs. @ \$57.00/Hr \$5,130.00

Grass seed and fertilize waste area and access road : 0.75 acres @ \$180.00 \$135.00

Drill & shoot access road: \$2.50 /cu.yd. x 666 cu.yds. = \$1,665.00

Drill & Shoot: \$2.10 /cu.yd. x 7,553 cu.yds. = \$15,860.40

Push Rock: \$0.60 /cu.yd. x 11,506 cu.yds. = \$6,903.60

Load Crusher: \$0.60 /cu.yd. x 11,506 cu.yds. = \$6,903.60

Crushing: 2 1/2"-0" \$2.25 /cu.yd. x 11,506 cu.yds. = \$25,888.50

Load truck - crushed: \$0.60 /cu.yd. x 11,506 cu.yds. = \$6,903.60

Load truck- riprap: \$1.40 /cu.yd. x 0 cu.yds. = \$0.00

Oversize Reduction: \$4.00 /cu.yd. x 288 cu.yds. = \$1,150.60

Subtotal \$78,340.30

Move in and set up crusher \$2,524.84

Move in and set up drill and compressor \$159.51

Move in D-8 \$284.85

Move in loader \$262.88

Move in grader \$106.26

Move in roller \$159.51

Move in water truck \$54.74

Move in 5 dump trucks \$232.83

Subtotal \$3,785.42

TOTAL PRODUCTION COSTS \$82,125.72

Base Cost = \$7.14 Per Cu.Yd.

2 1/2"-0" Crushed	Haul Cost	Proc Cost	Base Cst.	Cost	Number
Road Segment	/cu.yd.	/cu.yd.	/cu.yd.	/cu.yd.	Cu. Yds
A to B	\$1.83	\$1.34	\$7.14	\$10.31	11,506
16 + 60 to 241 + 05					
Total C.Y.					11,506

ROCK

COST

\$118,626.86

Sub Total \$118,626.86

2 1/2"-0" Crushed	Haul Cost	Proc Cost	Base Cst.	Cost	Number
Stockpile	/cu.yd.	/cu.yd.	/cu.yd.	/cu.yd.	Cu.Yds.
	\$0.00	\$0.30	\$7.14	\$7.44	0
Total C.Y.					0

ROCK

COST

\$0.00

Sub Total \$0.00

Riprap	Haul Cost	Proc Cost	Base Cst.	Cost	Number
Road Segment	/cu.yd.	/cu.yd.	/cu.yd.	/cu.yd.	Cu. Yds
	\$0.00	\$0.00	\$0.00	\$0.00	0
	\$0.00	\$0.00	\$0.00	\$0.00	0
Total C.Y.					0

ROCK

COST

\$0.00

\$0.00

Sub Total \$0.00

TOTAL ROCKING COSTS \$118,626.86

ROCK SUMMARY FOR HAUL AND PLACEMENT FROM STOCKPILE

Sale: Gold Peak

Pit: Joyce Creek Pit
 Rock: 2 1/2"-0" & Boulders
 Swell: 0.00
 Shrinkage: 0.00
 Drill Pct.: 0%

Location: E1/2 NW1/4 SEC13 T2S R8W W. M.
 Road: 1,296 c.y.
 Boulders: 45 c.y.
 Total Truck Loads: 1,341 c.y.
 In Place Total: 1,341 c.y.

Load Rock: \$0.60 /cu.yd. x 1,296 cu.yds. = \$777.60
 Load Boulders: \$2.23 /cu.yd. x 45 cu.yds. = \$100.35
 Subtotal \$877.95

Move in loader \$169.68
 Move in Excavator \$243.09
 Subtotal \$412.77

TOTAL PRODUCTION COSTS \$1,290.72

Base Cost \$0.96 Per Cu.Yd.

2 1/2"-0" Crushed Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
A to B	\$0.86	\$1.34	\$0.96	\$3.16	1,169	\$3,694.04
Sta. 0+00 to 16+60						
Total C.Y.					1,169	
						Sub Total \$3,694.04

Pit-run Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
Q to R	\$0.97	\$0.90	\$0.96	\$2.83	127	\$359.41
Total C.Y.					127	
						Sub Total \$359.41

Boulders Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
A to B	\$1.93	\$4.64	\$0.96	\$7.53	9	\$67.77
23 Boulders Sta. 0+30 to 1+20						
A to B	\$1.93	\$4.64	\$0.96	\$7.53	15	\$112.95
40 Boulders Sta. 2+30 to 2+70						
A to B	\$1.93	\$4.64	\$0.96	\$7.53	2	\$15.06
6 Boulders Sta. 3+35 to 3+60						
A to B	\$1.91	\$4.64	\$0.96	\$7.51	11	\$82.61
31 Boulders Sta. 4+50 to 5+30						
A to B	\$1.91	\$4.64	\$0.96	\$7.51	3	\$22.53
8 Boulders Sta. 5+80 to 6+10						
A to B	\$2.00	\$4.64	\$0.96	\$7.60	5	\$38.00
13 Boulders Sta. 10+50 to 11+00						
Total C.Y.					45	
						Sub Total \$338.92

TOTAL ROCKING COSTS \$4,392.37

PIT RUN ROCK DEVELOPMENT COST SUMMARY

Sale: Gold Peak

Station 239 + 00 on A to B

Pit: Peak
 Rock: Pit-run
 Swell: 1.40
 Shrinkage: 1.16
 Drill Pct.: 0%

Location: SW 1/4, SE 1/4, Sec 34, T1S, R8W, W.M.
 Road: 2977 c.y.
 Stockpile Base: c.y.
 Total Truck Loads: 2977 c.y.
 In Place Total: 2126 c.y.

Clear, scalp, load & compact overburden; construct access road:

D-8 Cat and excavator - 8 Hrs. @ \$260.00/Hr \$2,080.00

End-haul overburden to waste area:

Dump Truck-16 Hrs. @ \$57.00/Hr \$912.00

Grass seed and fertilize waste area and access road : 0.25 acres @ \$180.00/ac \$45.00

Strip \$1.75 /cu.yd. 2126 cu.yds. = \$3,721.25

Push Rock \$0.60 /cu.yd. 2977 cu.yds. = \$1,786.20

Load Dump Truck: \$0.60 /cu.yd. 2977 cu.yds. = \$1,786.20

Subtotal \$10,330.65

Move in Loader - already at pit 0.00

Move in D8 - already at pit 0.00

Move in Excavator - already at pit 0.00

Move-in Trucks - already at pit 0.00

Subtotal \$0.00

TOTAL PRODUCTION COSTS	\$10,330.65
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Base Cost = \$3.47 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
I to J	\$1.00	\$0.90	\$3.47	\$5.37	226	\$1,213.62
K to L	\$0.94	\$0.90	\$3.47	\$5.31	852	\$4,524.12
M to N	\$0.65	\$0.90	\$3.47	\$5.02	587	\$2,946.74
O to P	\$0.45	\$0.90	\$3.47	\$4.82	1312	\$6,323.84
Total C.Y.					2977	Sub Total
						\$15,008.32

TOTAL ROCKING COSTS	\$15,008.32
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PIT RUN ROCK DEVELOPMENT COST SUMMARY

Sale: Gold Peak

Station 155 + 40 on A to B

Pit: Ridge
 Rock: Pit-run
 Swell: 1.40
 Shrinkage: 1.16
 Drill Pct.: 0%

Location: NE 1/4, NW 1/4, Sec 2, T2S, R8W, W.M.
 Road: 1258 c.y.
 Stockpile Base: c.y.
 Total Truck Loads: 1258 c.y.
 In Place Total: 899 c.y.

Clear, scalp, load & compact overburden; construct access road:

D-8 Cat and excavator - 4 Hrs. @ \$260.00/Hr \$1,040.00
 Waste area next to pit is for pit waste only.
 Grass seed and fertilize waste area and access road : 0.10 acres @ \$180.00/ac \$18.00
 Strip \$1.75 /cu.yd. 899 cu.yds. = \$1,572.50
 Push Rock \$0.60 /cu.yd. 1258 cu.yds. = \$754.80
 Load Dump Truck: \$0.60 /cu.yd. 1258 cu.yds. = \$754.80
Subtotal \$4,140.10

Move in Loader from Peak Pit 14.76
 Move in D8 from Peak Pit 24.76
 Move in Excavator from Peak Pit 73.47
 Move-in Trucks from Peak Pit 23.37
Subtotal \$136.37

TOTAL PRODUCTION COSTS	\$4,276.47
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Base Cost = \$3.40 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
C to D	\$1.77	\$0.90	\$3.40	\$6.07	341	\$2,069.87
E to F	\$1.66	\$0.90	\$3.40	\$5.96	278	\$1,656.88
G to H	\$1.21	\$0.90	\$3.40	\$5.51	639	\$3,520.89
Total C.Y.					1258	Sub Total \$7,247.64

TOTAL ROCKING COSTS	\$7,247.64
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MOVE-IN CALCULATIONS

Sale: **Gold Peak**

LOWBOY HAUL (One Way)		
DISTANCE	ROADWAY	AVE SPEED (MPH)
14.0	Highway	40
1.5	Main Lines (Off Road)	12
4.6	Pulling Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
0	Drill & Compressor	\$0.00		\$46.00	0	0	0	\$0.00	\$0.00
0	Brush Cutter	\$0.00		\$4.00	0	0	0	\$0.00	\$0.00
1	Graders	\$106.26		\$3.65	0	0	0	\$0.00	\$106.26
0	Loader (Small)	\$0.00	1	\$3.55	0	0	0	\$0.00	\$0.00
0	Loader (Med. & Large)	\$0.00	1	\$9.00	0	0	0	\$0.00	\$0.00
1	Rollers & Compactors	\$165.32		\$5.00	0	0	0	\$0.00	\$165.32
0	Excavators (Small)	\$0.00		\$22.00	0	0	0	\$0.00	\$0.00
0	Excavators (Med.)	\$0.00		\$35.50	0	0	0	\$0.00	\$0.00
1	Excavators (Large)	\$467.64	1	\$44.80	0	1.4	1.4	\$62.72	\$530.36
0	Rubber Tired Backhoes/Skidlers	\$0.00		\$3.00	0	0	0	\$0.00	\$0.00
0	Tractors (D6)	\$0.00	2	\$7.10	0	0	0	\$0.00	\$0.00
1	Tractors (D7)	\$395.53	2	\$11.30	0	3.8	3.8	\$42.94	\$438.47
1	Tractor (D8)	\$427.27	2	\$15.10	0	1.4	1.4	\$21.14	\$448.41
3	Dump Truck (10 cy +)	\$146.35		\$2.85	0	0	0	\$0.00	\$146.35
0	Dump Truck (Off Hiway)	\$0.00	1	\$4.75	0	0	0	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$0.00		\$2.85	0	0	0	\$0.00	\$0.00
0	Water Truck (2500 Gal)	\$0.00		\$2.85	0	0	0	\$0.00	\$0.00
0	Jaw	\$1,068.00							
0	2-Stage Crusher	\$1,597.00							
0	3-Stage Crusher	\$2,489.00							

TOTAL MOVE-IN COSTS: \$1,835.17

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT

Gold Peak



"STEWARDSHIP IN FORESTRY"

1. **Type of Sale:**
Clearcut and Regeneration Harvest, Recovery.
2. **Legal Description:**
Portions of Sections 1, 2, 3, 12, T2S, R8W, and Sections 34 & 35, T1S R8W, W.M. Tillamook County, Oregon.
3. **Sale Acreage:**
The sale boundaries were plotted on a digital orthophotograph and the acreage was calculated with GIS.

ACREAGES				
Area	Harvest Type	Sale	Total	Net
1	Regeneration	47	47	44
2	Clearcut	13	13	13
3	Clearcut	11	11	11
4	Regeneration	3	3	3
5	Clearcut	60	67	59
6	Clearcut	60	77	59
7	Clearcut	91	98	88
8	Clearcut	34	39	34
9	Clearcut	41	42	41
Total		360	397	352

Sale acres:

Area within the Timber Sale Boundary signs.

Total acres:

Sale acres; plus green tree retention acres outside the sale boundary; less roads and riparian areas classified as Special Stewardship in LMCS inside the sale boundary. For accomplishment reporting - clearcut (regeneration) harvest.

Net acres:

Less green tree retention, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary. For calculating the advertised volume.

4. **Cruising Procedures:**

A: Cruise Method:

A total of 118 variable-radius plots were taken in the sale area; 15 in Area 1, 8 in Area 2, 6 in Area 3, 4 in Area 4, 21 in Area 5, 15 in Area 6, 25 in Area 7, 12 in Area 8, and 12 in Area 9. Cruise lines and plots were placed to obtain equal sampling intensities across sale areas. In Areas 1 through 6, cruise lines were oriented in a NE-SW direction

with plot spacing 200 feet apart, allowing cruisers to work down to Edwards Creek road. A plot spacing of 200 feet was also used in Areas 7 through 9, and cruise lines were placed in various directions to allow the most efficient cruise possible. On each plot, species and diameter to the nearest inch were recorded. On every third plot (totaling 43), sample trees were measured for height (to the nearest foot) and graded. Trees less than 9" DBH were not sampled. The cruise had a coefficient of variation of 29.2 and a SE% of 2.7 for net board feet/acre.

B: Plot size

A 20 BAF was used for Douglas-fir. A 10 BAF was used for other species and snags. Trees were sighted at 4.5'.

C: Grading System:

Douglas-fir was measured and graded to a 6" top favoring 40 foot log lengths using Columbia River rules. Alder was measured to an 8" top and graded camprun.

5. **Computation Procedure:**

Plot data was entered into SuperAce for computation of basal area, V-BAR, stand tables and diameters. This data was then entered into the Volume Summary Worksheet to compute sale volumes.

6. **Defect and Breakage:**

A 5% reduction for defect and breakage was applied to the volume.

7. **Timber Description:**

Areas 1 through 6 were seeded in 1958, replanted in 1964, and precommercially thinned in 1990. The current stand is CSC structure and is comprised of 13 inch DBH, 35 year old Douglas fir. Areas 7 through 9 were seeded in 1961. The current stand is CSC structure and is comprised of predominately 11 inch DBH, 35 year old Douglas-fir. The Douglas-fir trees have severe symptoms of Swiss needle cast with less than 2 full years of needle retention. Tree growth has slowed. Down wood consists of scattered large old logs (36"+) from the salvage in Class 3 and 4 stages of decay and some windthrow in decay class 1 and 2. Understory vegetation is sword fern, salmonberry, and vine maple.

8. **Cruiser Names/Dates:**

Everingham, Wells, Pine, Oct./Nov. 2002.

9. **Revenue Distribution:**

100% FDF

Tax Code: 9-1

Deed Numbers: 169, 230

91% Rehabilitation Obligated.

10. **Attachments:**

Volume Summary

Logging Plan



"STEWARDSHIP IN FORESTRY"

Gold Peak

Volume Summary

Area 1							
44 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	14.3	104	93	9.7	427	5%	406
TOTAL							406

Area 2							
13 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	12.7	172	82	14.1	183	5%	174
Alder	13.8	14	57	0.8	10	5%	10
TOTAL							184

Area 3							
11 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	12.6	176	79	13.9	153	5%	145
Alder	13.2	8	61	0.5	6	5%	6
TOTAL							151

Area 4							
3 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	12.2	130	86	11.2	34	5%	32
TOTAL							32

Area 5							
59 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	14	180	80	14.4	850	5%	808
Alder	13.7	7	54	0.4	24	5%	23
TOTAL							831

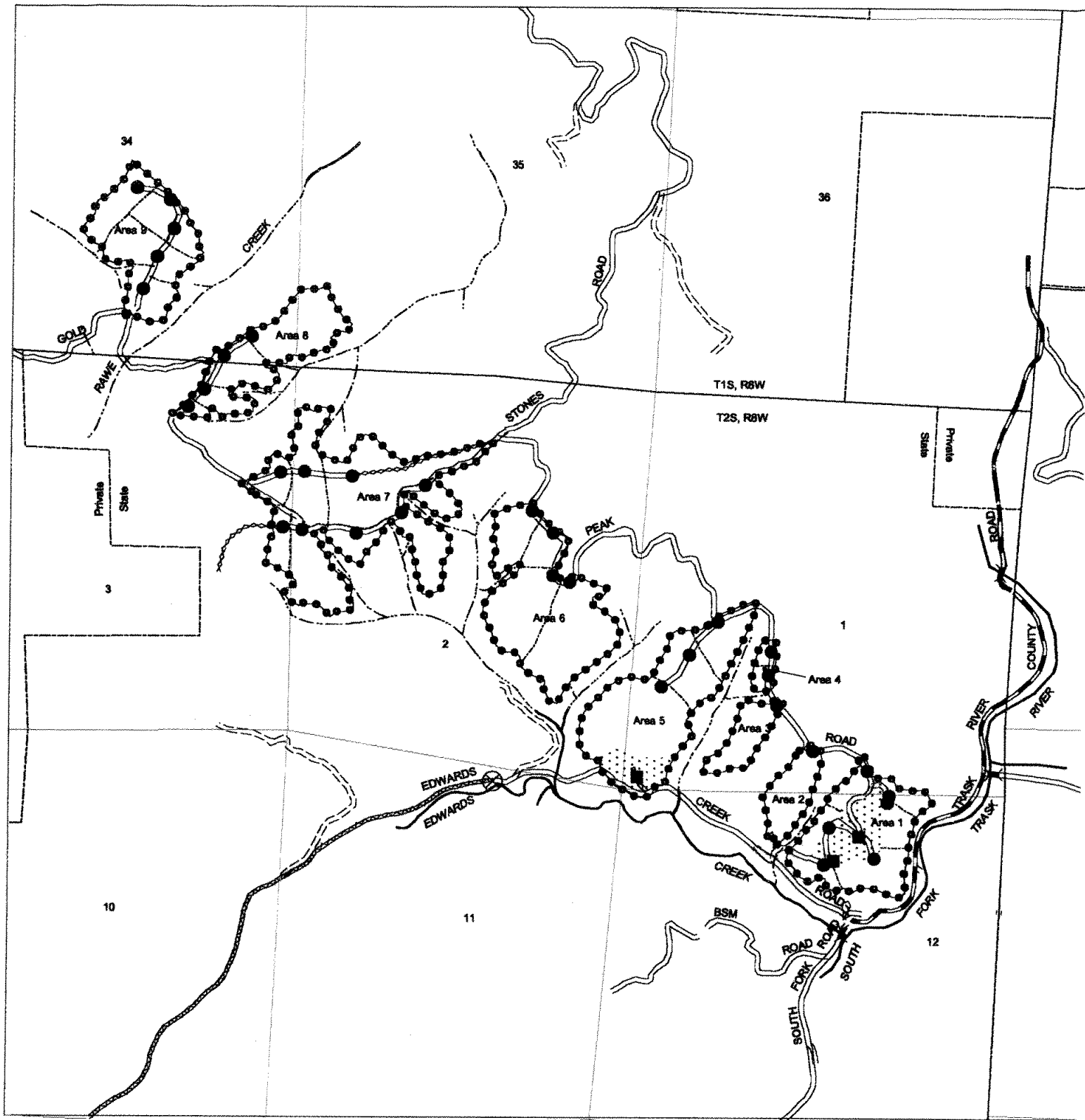
Area 6							
59 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	13.4	170	74	12.6	743	5%	706
Alder	14.6	18	60	1.1	65	5%	62
TOTAL							768

Area 7							
88 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	13.4	165	78	12.9	1135	5%	1078
Alder	13.6	9	59	0.5	44	5%	42
TOTAL							1120

Area 8							
34 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	12.4	163	106	17.3	588	5%	559
Alder	13.5	6	95	0.6	20	5%	19
TOTAL							578

Area 9							
41 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	11.8	161	85	13.7	562	5%	534
Alder	12.5	20	66	1.3	53	5%	50
TOTAL							584

TOTAL SALE VOLUME 352 net harvest acres				
SPECIES	QMD	MBF	D&B	Net Vol. (MBF)
Douglas-fir	13	4675	5%	4442
Alder	13	222	5%	212
TOTAL		4897		4654



LOGGING PLAN
Timber Sale Contract No. 341-04-15
Gold Peak
Portions of sections 34 and 35,
T1S, R8W, and sections
1, 2, 3, and 12, T2S, R8W, W. M.
Tillamook County, Oregon

1000 0 1000 Feet



Area	Type of Operation	Acres	
		Net	Sale
1	Regeneration Cut	44	47
2	Clear Cut	13	13
3	Clear Cut	11	11
4	Regeneration Cut	3	3
5	Clear Cut	59	60
6	Clear Cut	59	60
7	Clear Cut	88	91
8	Clear Cut	34	34
9	Clear Cut	41	41
Total		352	360



"STEWARDSHIP IN FORESTRY"

Oregon Department of Forestry

WRITTEN PLAN

SALE NAME: Gold Peak

PROTECTED WATERS: Edwards Creek

LOCATION: Portions of Sections 2, 11 and 12 T2S, R8W, W.M.,
Tillamook County, Oregon.

Riparian Management Area:

The area measured 100 feet slope distance from the high water mark on Edwards Creek, a Type F stream.

Protection Measures:

Yarding Systems, Layout, and Stream Protection

When yarding with cables hanging within or across the streams, cables will be pulled out of the Riparian Management Area prior to rigging the next yarding road. Yarding roads will be spaced an average of 150 feet apart where they extend over or through the buffer.

Date: March 24, 2003
By: Don Everingham

**OREGON DEPARTMENT OF FORESTRY
WRITTEN PLAN
FOR PROJECT WORK ONLY**

SALE NAME: Gold Peak

PROTECTED WATERS Edwards Creek and South Fork Trask River

LOCATIONS: Portions of the following: Section 12 T2S, R8W, W.M. Tillamook County, Oregon.

ACTIVITIES: Culvert removals and installations near Type F streams, road reconstruction, and road rocking.

PROTECTION MEASURES:

- No in stream activity will be conducted prior to July 1st or after September 15th without prior approval.
- All necessary measures will be taken to prevent sediment from entering "live" streams, including but not limited to:
 - Machine activity in the stream and disturbance of existing vegetation will be kept to a minimum.
 - Work will be performed only during dry weather periods and low water stream flows.
 - Stream water will be diverted around the work area to protect water quality.
 - Ditchouts and culvert leadoff ditches will be constructed to direct water with sediment away from streams.
 - Fill material will be placed and compacted in 8 inch lifts. Fill slopes will be constructed at a 1 ½:1 fill width to height ratio.
 - Waste material will be placed in stable locations marked in the field.
 - Riprap rock will be placed by a track mount excavator to minimize erosion.
 - All disturbed soil will be grass seeded and fertilized. Mulch will be applied to disturbed soil on Edwards Creek and on work along the South Fork Trask River to minimize erosion.

PREPARED BY: David L. Stone, Road Specialist
January 14, 2003