

PART IV: OTHER INFORMATION

State Timber Sale Contract
No. 341-10-91
Clear Hembre

NOTICE OF TRANSFER OF STATE TIMBER

Instructions:

629:-Form-301-010

Complete Section 1. Mark the box which applies to you/your company in Section 2. Complete Section 3 and obtain signatures.

SECTION 1

On _____, state timber sale purchaser (Transferor)
_____, sold, exchanged or otherwise transferred to
_____, (Transferee) state timber originating from State
Timber Sale Contract No. _____.

Transferee hereby certifies that they:

- (a) Will not export the unprocessed state timber which is the subject of this transaction;
- (b) Will not sell, transfer, exchange or otherwise convey the unprocessed timber which is the subject of this transaction to any other person without first obtaining a like certification from that person.
- (c) Are not prohibited by OAR's 629-31-005 through 045 from purchasing state timber or logs directly from the State Forester, or this is a sale of Western Red Cedar for domestic processing.

SECTION 2

- Have not exported unprocessed timber originating from private lands in Oregon in the last 24 months.
- This is a sale of hardwood logs for domestic processing.
- This is a sale of Western Red Cedar for domestic processing.
- This is a sale of pulp logs or cull logs processed at domestic pulp mills, domestic chip plants or other domestic operations for the purpose of conversion of the logs into chips.

SECTION 3

The parties understand that falsely entering into this certification, or failure to comply with the terms of this certification is a violation of the Forest Conservation and Shortage Relief Act of 1990 and OAR Chapter 629, Division 31, and is subject to any and all penalties contained therein.

Transferor:

Transferee:

Signed _____

Signed _____

Title _____

Title _____

Dated _____

Dated _____

[Note: For the purpose of this form, the definition of unprocessed timber is the same as in OAR 629-31-005]

Mail To: State Forester
2600 State Street
Salem, OR 97310



"STEWARDSHIP IN FORESTRY"

WRITTEN PLAN

SALE NAME: Clear Hembre, 341-10 -91

PROTECTED WATERS: Two Small Type F Tributaries to Clear Creek (Trask Drainage)

Definitions: Stream buffer: at least 100 feet horizontal distance from the high water mark on each side of the stream.

LOCATION: Portions of Section 1, T1S, R7W, W.M., Tillamook County, Oregon.

Activity: Cable lines across stream

Protection measures:

- All trees in the RMA are reserved from cutting.
- Cable yarding lines will be pulled out of the RMA prior to rigging the next yarding road.
- If trees or logs fall or slide into a stream channel they will not be limbed, bucked, or removed without prior approval from ODF.
- Cable lines will be an average of at least 150 feet apart where they extend over or through the Type F stream and buffer.

Date: March 30, 2010

Prepared by: David Wells



Timber Sale Appraisal
Clear Hembre
Sale 341-10-91

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: May 12, 2010

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$338,847.95	\$13,296.49	\$352,144.44
		Project Work:	\$(51,760.00)
		Advertised Value:	\$300,384.44



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 Clear Hembre
 Sale 341-10-91

District: Tillamook

Date: May 12, 2010

timber description

Location: Portions of Sections 1, 2, 11, and 12, T1S, R7W, W.M., Tillamook County, Oregon.

Stand Stocking: 40%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	12	0	95
Noble Fir	11	0	95
Alder (Red)	12	0	95

Volume by Grade	12"+	2S	3S	4S	6" - 7"	8" - 9"	Total
Douglas - Fir	0	214	1,422	924	0	0	2,560
Noble Fir	0	0	24	21	0	0	45
Alder (Red)	36	0	0	0	12	31	79
Total	36	214	1,446	945	12	31	2,684



Timber Sale Appraisal
Clear Hembre
Sale 341-10-91

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: May 12, 2010

comments: Pond Values Used: 1st Quarter Calendar Year 2010.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
\$555/MBF = \$820/MBF - \$265/MBF

Pulp (Conifer and Hardwood) Price = \$ 27.00
(see attached Pulp Appraisal sheet)

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):

Brand and Paint: \$2.00/MBF x 2,684 MBF = \$ 5,368

OHV filter construction \$75 x 3 = \$ 225

TOTAL Other Costs (with Profit and Risk to be added) = \$5,593

Other Costs (No Profit & Risk added):

Slash Piling and Sorting: \$2.50 acre of modified clearcut harvest
x 110 acres = \$275

Truck assist Area 2 road segment E-F: \$20/MBF x 45 MBF = \$900

Swing cost Area 1: \$10.45/MBF (460') x 335 MBF = \$3,501

Non-project Roads: Roads 1 and 2: 3.5 stations @ \$100/ station =
\$350

TOTAL Other Costs (No Profit & Risk added) = \$5,026

ROAD MAINTENANCE

Road Maintenance: Fox Creek Ridge and Hembre Ridge Roads

Interim Grading: \$250/mile x 10.1 miles x 1 times / 2,684 MBF =
\$0.94/MBF

Final Grading: \$500/mile x 10.1 miles / 2,684 MBF = \$1.88/MBF

Spot rocking: (300 cy crushed x 4.99/ cy) / 2,684 MBF = \$0.56/MBF

Compaction: ((105.6 stations x \$28/station) + 111 move-in) / 2,684
MBF = \$1.14/MBF

TOTAL ROAD MAINTENANCE COST: \$ 4.52 / MBF



Timber Sale Appraisal
Clear Hembre
Sale 341-10-91

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: May 12, 2010

logging conditions

combination#: 1 Douglas - Fir 53.81%
 Alder (Red) 95.00%

yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 4.3 **bd. ft / load:** 3,500
cost / mbf: \$222.20

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

combination#: 2 Douglas - Fir 2.83%
 Alder (Red) 5.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process:** Harvester Head Delimiting
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 6.0 **bd. ft / load:** 3,500
cost / mbf: \$197.85

machines: Forwarder
Harvester

combination#: 3 Douglas - Fir 32.52%
 Noble Fir 75.00%

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: 5.8 **bd. ft / load:** 3,500
cost / mbf: \$164.73

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

combination#: 4 Douglas - Fir 10.84%
 Noble Fir 25.00%



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Clear Hembre
Sale 341-10-91

District: Tillamook

Date: May 12, 2010

yarding distance: Short (400 ft)

logging system: Shovel

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 13.0

cost / mbf: \$86.38

downhill yarding: No

Process: Harvester Head Delimiting

bd. ft / load: 3,700

machines: Forwarder
Harvester



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 Clear Hembre
 Sale 341-10-91

District: Tillamook

Date: May 12, 2010

logging costs

Operating Seasons:	1.00	Profit Risk:	18.00%
Project Costs:	\$51,760.00	Other Costs (P/R):	\$5,593.00
Slash Disposal:	\$0.00	Other Costs:	\$5,026.00

Miles of Road

Road Maintenance: \$4.52

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	3.5
Noble Fir	\$0.00	3.0	3.2
Alder (Red)	\$0.00	3.0	3.0



Timber Sale Appraisal
 Clear Hembre
 Sale 341-10-91

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: May 12, 2010

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$188.10	\$4.75	\$1.63	\$59.32	\$2.08	\$46.06	\$0.00	\$5.00	\$1.87	\$308.81
Noble Fir									
\$145.14	\$4.75	\$1.63	\$64.88	\$2.08	\$39.33	\$0.00	\$5.00	\$1.87	\$264.68
Alder (Red)									
\$220.98	\$4.75	\$1.63	\$69.21	\$2.08	\$53.76	\$0.00	\$5.00	\$1.87	\$359.28

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$439.45	\$130.64	\$0.00
Noble Fir	\$0.00	\$362.67	\$97.99	\$0.00
Alder (Red)	\$0.00	\$527.59	\$168.31	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Clear Hembre
Sale 341-10-91

District: Tillamook

Date: May 12, 2010

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Noble Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,560	\$130.64	\$334,438.40
Noble Fir	45	\$97.99	\$4,409.55
Alder (Red)	79	\$168.31	\$13,296.49

Gross Timber Sale Value

Recovery: \$352,144.44

Prepared by: David Wells

Phone: 503-842-2545

Pulp Appraisal

Sale Name	Clear Hembre
------------------	---------------------

Species	Douglas-fir	Noble fir	Alder	
Stems Per/ac.	107	2	7	
Acres	323	323	323	
Total Stems	34561	646	2261	
BF/Stem, Conversion	10	10	10	
Total MBF Per/Species	346	6	23	
Pond Value Per/MBF	\$260	\$300	\$340	
*Logging + Hauling Costs	\$210.00	\$210.00	\$210.00	
Stumpage	\$50.00	\$90.00	\$130.00	
Tons Per/MBF, Conversion	10	10	10	
Price Per/Ton	\$5.00	\$9.00	\$13.00	
Total Tons Per/Species	3456	65	226	
Total Value	\$17,280.50	\$581.40	\$2,939.30	
Less P/R 50%	\$8,640.25	\$290.70	\$1,469.65	

	Total Price	Price/Ton	Price/MBF	
Total Price	\$20,801.20	\$5.55	\$55.52	
Total Less P/R 50%	\$10,400.60	\$2.78	\$27.76	**

Contract Price	\$27.00
-----------------------	----------------

*Conifer logging & hauling cost based on the noble fir price.

** Pulp price rounded down to nearest whole dollar



PROJECT SUMMARY SHEET

Sale: Clear Hembre

CONSTRUCTION

Point	C to D	6+25	stations =	\$5,334.84
Point	M to N	6+80	stations =	\$6,267.76
SUBTOTAL CONSTRUCTION				\$11,602.60

IMPROVEMENT

Point	A to B	116+20	stations =	\$12,878.45
Point	E to F	14+80	stations =	\$1,255.00
Point	K to L	14+30	stations =	\$650.05
SUBTOTAL IMPROVEMENT				\$14,783.50

RECONSTRUCTION

Point	C to D	3+25	stations =	\$2,220.20
Point	G to H	32+60	stations =	\$7,496.30
Point	I to J	6+35	stations =	\$2,951.73
Point	O to P	16+10	stations =	\$9,367.07
SUBTOTAL RECONSTRUCTION				\$22,035.30

MOVE IN

\$3,338.60

GRAND TOTAL

\$51,760.00

SUMMARY OF CONSTRUCTION COST

Sale: Clear Hembre

Road: A to B

<u>Construction -</u>	0+00	stations	<u>Improvement -</u>	116+20	stations	<u>Reconstruction -</u>	0+00	stations
	0.00	miles		2.20	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Remove outside berm	0.012	acres @	\$660.00	per acre =	\$7.92
Scattering	0.080	acres @	\$980.00	per acre =	\$78.40
TOTAL CLEARING AND GRUBBING					\$86.32

IMPROVEMENT: EXCAVATION -

Road Earthwork (106+90 to 115+20)	8.30	sta. @	\$20.00	per sta. =	\$166.00
Remove outside berm	57	cy. @	\$1.40	per c.y. =	\$79.80
TOTAL EXCAVATION					\$245.80

IMPROVEMENT: ENDHAUL -

Remove outside berm	94+70	to	95+20	8	cy. @	\$1.86	per c.y. =	\$14.88
Remove outside berm	95+70	to	96+10	7	cy. @	\$1.86	per c.y. =	\$13.02
Remove outside berm	96+60	to	97+30	21	cy. @	\$1.86	per c.y. =	\$39.06
Remove outside berm	99+60	to	100+40	16	cy. @	\$1.86	per c.y. =	\$29.76
Remove outside berm	83+90	to	84+20	5	cy. @	\$1.86	per c.y. =	\$9.30
Spread & compact				57	cy. @	\$0.25	per c.y. =	\$14.25
TOTAL ENDHAUL								\$120.27

ROCK

81+65	to	116+20	1,850	cy. of	Pit-Run	@	\$5.92	per c.y. =	\$10,952.00
TOTAL ROCK									\$10,952.00

SPECIAL PROJECTS

Construct waste area -	1.00	hours @	\$130.00	per hour	\$130.00				
Pull ditch (31+00 to 32+20) -	1.20	stations @	\$120.00	per station	\$144.00				
Pull ditch (71+10 to 71+65) -	0.55	stations @	\$90.00	per station	\$49.50				
Clean culvert catch basin @ 17+00, 38+20, 47+65, 71+65 -	4.00	@	\$30.00	each	\$120.00				
Grade and shape road (81+65 to 116+20) -	34.55	stations @	\$14.00	per station	\$483.70				
Remove half-round from state lands @ 27+20 -	1.00	@	\$60.00	each	\$60.00				
Roll subgrade w/ vibratory roller prior to rocking (81+65 to 116+20) -	34.55	stations @	\$13.20	per station	\$456.06				
Grass seed and fertilize -	0.14	acres @	\$220.00	per acre	\$30.80				
TOTAL SPECIAL PROJECTS									\$1,474.06

GRAND TOTAL **\$12,878.45**

SUMMARY OF CONSTRUCTION COST

Sale: Clear Hembre Road: C to D

Construction -	6+25	stations	Improvement -	0+00	stations	Reconstruction -	3+25	stations
	0.12	miles		0.00	miles		0.06	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	
3+25		4+50	35%		Outslope	\$191	=	\$238.75
4+50		4+95	65%	0.15	Outslope	\$1,931	=	\$868.95
4+95		5+40	60%	0.15	Outslope	\$1,521	=	\$684.45
5+40		5+80	70%	0.16	Outslope	\$2,352	=	\$940.80
5+80		6+60	60%	0.17	Outslope	\$1,521	=	\$1,216.80
6+60		7+05	45%		Outslope	\$269	=	\$121.05
7+05		7+80	30%		Outslope	\$191	=	\$143.25
7+80		8+60	20%		Outslope	\$139	=	\$111.20
8+60		9+05	10%		Outslope	\$90	=	\$40.50
9+05		9+50	0%		Outslope	\$55	=	\$24.75
TOTAL								\$4,390.50

RECONSTRUCTION: CLEARING AND GRUBBING -

Widening	0.049	acres @	\$660.00	per acre =	\$32.34
Scattering	0.270	acres @	\$980.00	per acre =	\$264.60
TOTAL CLEARING AND GRUBBING					\$296.94

RECONSTRUCTION: EXCAVATION -

Widening	528	cy. @	\$1.40	per c.y.=	\$739.20
TOTAL EXCAVATION					\$739.20

RECONSTRUCTION: ENDHAUL -

Widening	1+15	to	1+55	16	cy. @	\$1.04	per c.y.=	\$16.64
Widening	1+55	to	2+15	278	cy. @	\$1.05	per c.y.=	\$291.90
Widening	2+15	to	2+80	26	cy. @	\$1.07	per c.y.=	\$27.82
Widening	2+80	to	3+25	208	cy. @	\$1.08	per c.y.=	\$224.64
Spread & compact				528	cy. @	\$0.25	per c.y.=	\$132.00
TOTAL ENDHAUL								\$693.00

SPECIAL PROJECTS

Construct landing -	1.00	@	\$275.00	each	\$275.00
Grade and shape road -	9.50	stations @	\$14.00	per station	\$133.00
Roll subgrade w/ vibratory roller prior to rocking -	9.50	stations @	\$13.20	per station	\$125.40
Remove large stumps -	1.00	lump sum @	\$825.00		\$825.00
Grass seed and fertilize -	0.35	acres @	\$220.00	per acre	\$77.00
TOTAL SPECIAL PROJECTS					\$1,435.40

GRAND TOTAL **\$7,555.04**

SUMMARY OF CONSTRUCTION COST

Sale:

Clear Hembre

Road:

E to F

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>14+80</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.00	miles		0.28	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -
Scattering

0.340	acres @	\$980.00	per acre =	\$333.20	
				TOTAL CLEARING AND GRUBBING	\$333.20

IMPROVEMENT: EXCAVATION -
Road Earthwork

14.80	sta. @	\$45.00	per sta. =	\$666.00	
				TOTAL EXCAVATION	\$666.00

SPECIAL PROJECTS

Remove large stumps -
Grass seed and fertilize -

1.00	lump sum @	\$225.00		\$225.00	
0.14	acres @	\$220.00	per acre	\$30.80	
				TOTAL SPECIAL PROJECTS	\$255.80

GRAND TOTAL	\$1,255.00
--------------------	-------------------

SUMMARY OF CONSTRUCTION COST

Sale: **Clear Hembre**

Road: **G to H**

<u>Construction -</u>	0+00	stations	<u>Improvement -</u>	0+00	stations	<u>Reconstruction -</u>	32+60	stations
	0.00	miles		0.00	miles		0.62	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Widening	0.110	acres @	\$660.00	per acre =	\$72.60
Scattering	1.950	acres @	\$980.00	per acre =	\$1,911.00
TOTAL CLEARING AND GRUBBING					\$1,983.60

RECONSTRUCTION: EXCAVATION -

Widening	822	cy. @	\$1.40	per c.y. =	\$1,150.80
TOTAL EXCAVATION					\$1,150.80

RECONSTRUCTION: ENDDHAUL -

Widening	0+95	to	2+50	75	cy. @	\$1.65	per c.y. =	\$123.75
Widening	2+95	to	4+10	26	cy. @	\$1.69	per c.y. =	\$43.94
Widening	8+90	to	10+15	73	cy. @	\$1.79	per c.y. =	\$130.67
Widening	10+15	to	10+70	96	cy. @	\$1.20	per c.y. =	\$115.20
Widening	11+65	to	12+30	38	cy. @	\$1.15	per c.y. =	\$43.70
Widening	26+30	to	27+20	87	cy. @	\$1.11	per c.y. =	\$96.57
Spread & compact				395	cy. @	\$0.25	per c.y. =	\$98.75
TOTAL ENDDHAUL								\$652.58

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	28	LF of 18"	\$490.00		30	LF of 24"	\$810.00
			\$490.00				\$810.00
<u>Culvert Stakes & Markers</u>							
2 markers			\$16.00				
			\$16.00				
TOTAL CULVERTS							\$1,316.00

ROCK

Energy Dissipator	2+20	5	cy. of	Riprap	@	\$7.33	per c.y. =	\$36.65
Energy Dissipator	16+10	5	cy. of	Riprap	@	\$7.55	per c.y. =	\$37.75
TOTAL ROCK								\$74.40

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	\$130.00	per hour	\$130.00
Remove logs and reconstruct fill @ 2+20, 16+10 -	5.00	hours @	\$130.00	per hour	\$650.00
Grade and shape road -	32.60	stations @	\$14.00	per station	\$456.40
Roll subgrade w/ vibratory roller prior to rocking -	32.60	stations @	\$13.20	per station	\$430.32
Remove large stumps -	1.00	lump sum @	\$450.00		\$450.00
Grass seed and fertilize -	0.51	acres @	\$220.00	per acre	\$112.20
Mulching -	0.150	acres @	\$600.00	per acre	\$90.00
TOTAL SPECIAL PROJECTS					\$2,318.92

GRAND TOTAL **\$7,496.30**

SUMMARY OF CONSTRUCTION COST

Sale: Clear Hembre Road: I to J

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	6+35	stations
	0.00	miles		0.00	miles		0.12	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Widening	0.006	acres @	\$660.00	per acre =	\$3.96	
Scattering	0.410	acres @	\$980.00	per acre =	\$401.80	
TOTAL CLEARING AND GRUBBING						\$405.76

RECONSTRUCTION: EXCAVATION -

Widening	68	cy. @	\$1.40	per c.y. =	\$95.20	
TOTAL EXCAVATION						\$95.20

RECONSTRUCTION: ENDHAUL -

Widening	2+00	to	2+40	59	cy. @	\$1.14	per c.y. =	\$67.26	
Widening	4+50	to	4+70	9	cy. @	\$1.21	per c.y. =	\$10.89	
Spread & compact				68	cy. @	\$0.25	per c.y. =	\$17.00	
TOTAL ENDHAUL									\$95.15

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	0	LF of 18"	\$0.00	40	LF of 24"	\$1,080.00
			\$0.00			\$1,080.00
<u>Culvert Stakes & Markers</u>						
	1	markers	\$8.00			
			\$8.00			
TOTAL CULVERTS						\$1,088.00

ROCK

Energy Dissipator	2+95	5	cy. of	Riprap	@	\$7.74	per c.y. =	\$38.70	
TOTAL ROCK									\$38.70

SPECIAL PROJECTS

Cut/Drift to remove grade irregularities @ 0+50, 1+30, 2+00, 4+25 -	3.50	hours @	\$130.00	per hour	\$455.00	
Construct landings @ 1+30, 6+35 -	2.50	hours @	\$130.00	per hour	\$325.00	
Grade and shape road -	6.35	stations @	\$14.00	per station	\$88.90	
Roll subgrade w/ vibratory roller prior to rocking -	6.35	stations @	\$13.20	per station	\$83.82	
Remove log(s) in fill @ 2+95 -	0.50	hours @	\$130.00	per hour	\$65.00	
Remove large stumps -	1.00	lump sum @	\$150.00		\$150.00	
Grass seed and fertilize -	0.12	acres @	\$220.00	per acre	\$26.40	
Mulching -	0.058	acres @	\$600.00	per acre	\$34.80	
TOTAL SPECIAL PROJECTS						\$1,228.92

GRAND TOTAL **\$2,951.73**

SUMMARY OF CONSTRUCTION COST

Sale: **Clear Hembre**

Road: **K to L**

Construction -	0+00	stations	Improvement -	14+30	stations	Reconstruction -	0+00	stations
	0.00	miles		0.27	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.010	acres @	\$660.00	per acre =	\$6.60
Scattering	0.130	acres @	\$980.00	per acre =	\$127.40
TOTAL CLEARING AND GRUBBING					\$134.00

IMPROVEMENT: EXCAVATION -

Widening	31	cy. @	\$1.40	per c.y. =	\$43.40
TOTAL EXCAVATION					\$43.40

IMPROVEMENT: ENDHAUL -

Widening	0+10	to	1+15	31	cy. @	\$1.19	per c.y. =	\$36.89
Spread & compact				31	cy. @	\$0.25	per c.y. =	\$7.75
TOTAL ENDHAUL								\$44.64

SPECIAL PROJECTS

Grade and shape road -	14.30	stations @	\$15.50	per station	\$221.65
Roll subgrade w/ vibratory roller prior to rocking -	14.30	stations @	\$13.20	per station	\$188.76
Grass seed and fertilize -	0.08	acres @	\$220.00	per acre	\$17.60
TOTAL SPECIAL PROJECTS					\$428.01

GRAND TOTAL **\$650.05**

SUMMARY OF CONSTRUCTION COST

Sale:

Clear Hembre

Road:

M to N

Construction -	6+80	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.13	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=		
0+00		1+50	0%		Outslope	\$55	=	\$82.50	
1+50		2+55	25%		Outslope	\$165	=	\$173.25	
2+55		4+15	35%		Outslope	\$191	=	\$305.60	
4+15		6+45	40%		Outslope	\$243	=	\$558.90	
6+45		6+80	20%		Outslope	\$139	=	\$48.65	
								TOTAL	\$1,168.90

ROCK

0+00	to	6+80	510	cy. of	Pit-Run	@	\$5.71 per c.y.=	\$2,912.10	
Landing Rock		6+80	80	cy. of	Pit-Run	@	\$5.76 per c.y.=	\$460.80	
Heliport		0+00	120	cy. of	Pit-Run	@	\$5.66 per c.y.=	\$679.20	
								TOTAL ROCK	\$4,052.10

SPECIAL PROJECTS

Construct landing -	1.00	@	\$250.00	each	\$250.00			
Construct heliport at 0+00 (Remove piled stumps and boulders) -	1.00	@	\$195.00	each	\$195.00			
Grade and shape road -	6.80	stations @	\$14.00	per station	\$95.20			
Roll subgrade w/ vibratory roller prior to rocking -	6.80	stations @	\$13.20	per station	\$89.76			
Remove large stumps -	1.00	lump sum @	\$375.00		\$375.00			
Grass seed and fertilize -	0.19	acres @	\$220.00	per acre	\$41.80			
					TOTAL SPECIAL PROJECTS	\$1,046.76		
GRAND TOTAL								\$6,267.76

SUMMARY OF CONSTRUCTION COST

Sale:	Clear Hembre		Road:	O to P
Construction -	0+00 stations 0.00 miles	Improvement -	0+00 stations 0.00 miles	Reconstruction -
				16+10 stations 0.30 miles

RECONSTRUCTION: CLEARING AND GRUBBING - Scattering	1.000	acres @	\$980.00	per acre =	\$980.00
					TOTAL CLEARING AND GRUBBING
					\$980.00

RECONSTRUCTION: EXCAVATION / FILL - Road Earthwork	16.10	sta. @	\$440.00	per sta. =	\$7,084.00
					TOTAL EXCAVATION
					\$7,084.00

	TOTAL ENDHAUL	\$0.00
--	----------------------	---------------

SPECIAL PROJECTS

Construct landing -	1.00	@	\$250.00	each	\$250.00
Grade and shape road -	16.10	stations @	\$15.50	per station	\$249.55
Roll subgrade w/ vibratory roller prior to rocking -	16.10	stations @	\$13.20	per station	\$212.52
Remove large stumps -	1.00	lump sum @	\$525.00		\$525.00
Grass seed and fertilize -	0.30	acres @	\$220.00	per acre	\$66.00
					TOTAL SPECIAL PROJECTS
					\$1,303.07

	GRAND TOTAL	\$9,367.07
--	--------------------	-------------------

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Clear Hembre**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
33.0	Pavement	30
14.0	Main Lines	7
4.0	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
1	Graders	\$789.43		\$3.65	0.00	0.00	0	\$0.00	\$789.43
1	Excavators (Med.)	\$841.16		\$35.50	0.00	0.00	0	\$0.00	\$841.16
1	Tractor (D8)	\$976.97	2	\$15.10	0.00	0.00	0	\$0.00	\$976.97
2	Dump Truck (10 cy +)	\$521.77		\$2.85	0.00	0.00	0	\$0.00	\$521.77
1	Water Truck (1500 Gal)	\$209.27		\$2.85	0.00	0.00	0	\$0.00	\$209.27
TOTAL MOVE-IN COSTS:									\$3,338.60

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Pit_run	Location:	SE 1/4, NW 1/4, Sec. 1, T1S, R7W, W.M.
Sale:	Clear Hembre	Road:	2575 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	2575 c.y.
Drill Pct.:	15%	In Place Total:	1839 c.y.

Pit Development & Cleanup including Clearing and grubbing of				\$731.90
Waste Area @ adjacent to pit, place overburden				
in Waste Area, spread and compact.				
Drill & Shoot:	\$2.50 /cu.yd.	x	276 cu.yds.	= \$690.00
Rip Rock:	\$1.90 /cu.yd.	x	1563 cu.yds.	= \$2,969.70
Load Dump Truck:	\$0.70 /cu.yd.	x	2575 cu.yds.	= \$1,802.50

Subtotal \$6,194.10

Move In and set up Drill and Compressor	1	@	\$631.35	=	\$631.35
Move in Roller and Compactor	1	@	\$631.35	=	\$631.35
Move in Grader	1	@	\$189.80	=	\$189.80
Move in Excavator	1	@	\$1,020.21	=	\$1,020.21
Move in Trucks	2	@	\$209.27	=	\$418.54
Move in Water Truck	1	@	\$245.99	=	\$245.99
Change Gradation					

Subtotal \$3,137.24

Base Cost=	\$3.62	Per Cu.Yd.	TOTAL PRODUCTION COSTS \$9,331.34
------------	--------	------------	--

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 8165 11620 (Pit-Run)	1.20	1.10	3.62	5.92	1850	\$10,952.00
G to H Energy Dissipator (Riprap)	2.31	1.40	3.62	7.33	5	\$36.65
G to H Energy Dissipator (Riprap)	2.53	1.40	3.62	7.55	5	\$37.75
I to J Energy Dissipator (Riprap)	2.72	1.40	3.62	7.74	5	\$38.70
M to N 0 680 (Pit-Run)	0.99	1.10	3.62	5.71	510	\$2,912.10
M to N Landing Rock (Pit-Run)	1.04	1.10	3.62	5.76	80	\$460.80
M to N Heliport (Pit-Run)	0.94	1.10	3.62	5.66	120	\$679.20
				Total C.Y.	2575	Sub Total \$15,117.20

TOTAL ROCKING COSTS \$15,117.20

TC		TLOGSTVB		Log Stock Table - MBF													
Project:										CLR_HMBR							
T01S R07W S1 TSALE										T01S R07W S1 TSALE							
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1								
01S	07W	1	AREA 1	SALE	110.00	19	80	Date	3/30/2010								
									Time	12:54:39PM							
Spp	T	So Gr	Log	Len	Gross MBF	% Def	Net MBF	% Spe	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
DF	CO	2	26		19	9.5	17	1.2							17		
DF	CO	2	32		17	7.2	16	1.1					16				
DF	CO	2	36		60	3.7	58	4.0					36		22		
DF	CO	2	40		127	2.6	123	8.5					102		21		
DF	CO	3	28		15	2.0	14	1.0									
DF	CO	3	32		74	2.0	72	5.0				42	31				
DF	CO	3	36		359	2.4	351	24.2				32	139	179			
DF	CO	3	37		4	2.0	4	.3				4					
DF	CO	3	40		296	3.1	287	19.8				57	144	86			
DF	CO	4	12		2	2.0	2	.1			2						
DF	CO	4	16		28	2.0	27	1.9			7	20					
DF	CO	4	18		13	2.0	13	.9			13						
DF	CO	4	19		15	2.0	15	1.0			15						
DF	CO	4	20		21	2.0	20	1.4			9	5	7				
DF	CO	4	21		12	2.0	12	.8			12						
DF	CO	4	24		24	2.0	24	1.7			12	12					
DF	CO	4	25		7	2.0	7	.5			7						
DF	CO	4	26		21	2.0	21	1.4			21						
DF	CO	4	27		36	2.0	35	2.4			35						
DF	CO	4	28		4	2.0	4	.3			4						
DF	CO	4	30		22	2.0	22	1.5			5	17					
DF	CO	4	31		24	2.0	24	1.6			24						
DF	CO	4	32		21	2.0	20	1.4			20						
DF	CO	4	33		15	2.0	15	1.0			15						
DF	CO	4	34		19	2.0	18	1.3			18						
DF	CO	4	35		40	2.0	39	2.7			39						
DF	CO	4	36		23	2.0	22	1.5			22						
DF	CO	4	37		16	2.0	15	1.1			15						
DF	CO	4	38		16	2.0	16	1.1			16						
DF	CO	4	39		15	2.0	14	1.0			14						
DF	CO	4	40		123	2.0	121	8.3			89	32					
DF	Totals				1,488	2.6	1,450	91.1			416	219	335	265	154	21	39
RA	H	2	32		19	5.0	18	22.6						18			
RA	H	2	36		20	9.3	18	22.6						18			
RA	H	4	22		6	5.0	6	7.6			6						
RA	H	4	29		4	28.8	3	3.2			3						
RA	H	4	30		15	5.0	14	17.8				14					
RA	H	4	31		4	5.0	4	4.8			4						
RA	H	4	32		21	18.6	17	21.3				17					
RA	Totals				88	10.1	79	5.0			12	31		36			
DL	CO	2	32		21	7.0	20	51.5							20		
DL	CO	3	32		9	12.5	8	21.0					8				
DL	CO	3	36		8		8	20.6				8					
DL	CO	4	16		1		1	3.9			1						
DL	CO	4	17		1		1	3.0			1						
DL	Totals				41	6.4	38	2.4			3	8	8		20		
WH	CO	2	32		19	2.0	18	76.0					18				
WH	CO	4	16		6	34.7	4	16.0				4					

TC		TLOGSTVB		Log Stock Table - MBF				Project: CLR HMBR													
T01S R07W S1 TSALE								T01S R07W S1 TSALE													
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2												
01S	07W	1	AREA 1	SALE	110.00	19	80	Date	3/30/2010												
								Time	12:54:39PM												
Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches											
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19
WH		CO	UT	20		2	2.0	2	8.0		2										
WH		Totals				27	9.3	24	1.5		2		4	18							
Total All Species						1,643	3.2	1,591	100.0		417	234	366	277	216	21	59				

Stand Table Summary																
TC TSTNDSUM																
Project CLR HMBR																
T01S R07W S1 TSALE												T01S R07W S1 TSALE				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
01S	07W	1	AREA 1	SALE	110.00	19	80	Date:	04/01/2010							
								Time:	8:31:24AM							
Spc	S T	Sample			Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
		DBH	Trees	FF 16'					Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF		8	3	86	46	15.466	5.31	10.40	6.7	34.4	1.98	69	358	217	76	39
DF		9	10	85	60	39.679	17.69	39.68	8.4	33.2	9.54	335	1,319	1,050	368	145
DF		10	7	85	62	22.822	12.38	22.82	11.7	42.1	7.59	266	961	835	293	106
DF		11	6	86	74	15.865	10.61	24.06	10.5	43.3	7.22	253	1,041	794	279	115
DF		12	6	87	81	13.749	10.61	22.83	12.6	50.1	8.21	288	1,143	904	317	126
DF		13	9	87	82	17.107	15.92	34.21	13.0	51.8	12.67	444	1,772	1,393	489	195
DF		15	10	87	90	14.554	17.69	29.11	18.8	73.9	15.57	546	2,151	1,713	601	237
DF		16	3	87	94	3.770	5.31	7.54	21.2	85.1	4.55	160	641	500	176	71
DF		17	6	86	92	6.801	10.61	13.60	25.4	98.8	9.85	346	1,344	1,084	380	148
DF		18	1	87	91	.968	1.77	1.94	28.4	98.0	1.57	55	190	172	61	21
DF		19	3	88	97	2.744	5.31	5.49	32.5	115.6	5.09	178	634	559	196	70
DF		20	5	86	96	4.032	8.84	8.06	36.3	124.4	8.34	293	1,003	918	322	110
DF		22	2	88	94	1.372	3.54	2.07	46.5	188.8	2.75	96	391	302	106	43
DF		23	1	70	21	.613	1.77									
DF		24	1	86	89	.563	1.77	1.13	53.3	205.8	1.71	60	232	188	66	25
DF		Totals	73	86	71	160.105	129.13	222.94	15.2	59.1	96.64	3,391	13,180	10,631	3,730	1,450
RA		11	1	89	108	2.680	1.77	2.68	16.1	57.0	1.19	43	153	131	48	17
RA		13	1	85	82	1.919	1.77	3.84	13.7	47.5	1.45	53	182	159	58	20
RA		19	1	86	81	.898	1.77	1.80	31.8	109.3	1.57	57	196	173	63	22
RA		20	1	86	82	.811	1.77	1.62	36.0	114.0	1.61	58	185	177	64	20
RA		Totals	4	87	93	6.309	7.08	9.94	21.3	72.1	5.82	212	716	640	233	79
DL		25	1	89	95	.519	1.77	1.04	24.6	80.0	.70	26	83	77	28	9
DL		27	1	82	106	.445	1.77	1.33	47.7	196.7	1.75	64	262	192	70	29
DL		Totals	2	86	100	.964	3.54	2.37	37.6	145.6	2.45	89	346	270	98	38
WH		19	1	87	85	.898	1.77	2.70	21.6	81.7	1.86	58	220	205	64	24
WH		Totals	1	87	85	.898	1.77	2.70	21.6	81.7	1.86	58	220	205	64	24
Totals		80	86	72		168.276	141.52	237.95	15.8	60.8	106.78	3750	14,461	11,745	4,125	1,591

TC		TLOGSTVB		Log Stock Table - MBF																
Project:										CLR_HMBR										
T01S R07W S1 TSALE										T01S R07W S1 TSALE										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
01S	07W	1	AREA 2	SALE	213.00	38	180	Date	3/30/2010											
								Time	12:57:15PM											
SPP	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	Spe	2-3	4-5	6-7	8-9	10-11	12-13	14-15
DL		8	2	24		15	25.0	11	.5					11						
DL		8	2	32		32		32	1.3								32			
DL		8	2	34		22	12.5	20	.8						20					
DL		8	2	36		159	.6	158	6.3					57			101			
DL		8	2	40		262	1.0	259	10.4					133	75	51				
DL		8	3	12		7		7	.3					7						
DL		8	3	24		10		10	.4				10							
DL		8	3	28		3		3	.1				3							
DL		8	3	32		205	7.0	191	7.6				17	92	82					
DL		8	3	34		3		3	.1				3							
DL		8	3	36		705	1.9	691	27.6				113	214	295	46		24		
DL		8	3	40		661	1.8	650	26.0				92	327	231					
DL		8	4	14		3		3	.1			3								
DL		8	4	15		4		4	.1			4								
DL		8	4	16		44		44	1.8			23	7	5			9			
DL		8	4	17		19		19	.8			17	2							
DL		8	4	18		34		34	1.4			33	1							
DL		8	4	19		18		18	.7			18								
DL		8	4	20		44		44	1.7			44								
DL		8	4	21		21		21	.8			21								
DL		8	4	22		24		24	1.0			24								
DL		8	4	23		3		3	.1			3								
DL		8	4	24		18		18	.7			18								
DL		8	4	25		14		14	.6			14								
DL		8	4	26		9		9	.4			9								
DL		8	4	27		14		14	.6			14								
DL		8	4	28		8		8	.3			8								
DL		8	4	31		8		8	.3			5	3							
DL		8	4	32		20		20	.8			20								
DL		8	4	33		35		35	1.4			35								
DL		8	4	34		22		22	.9			22								
DL		8	4	35		28		28	1.1			28								
DL		8	4	36		14	25.0	10	.4			10								
DL		8	4	38		4		4	.1			4								
DL		8	4	39		35		35	1.4			35								
DL		8	4	40		30		30	1.2			12	18							
DL		Totals				2,555	2.1	2,502	62.7				423	259	647	614	247	94	185	32
DF		8	3	32		141	2.0	138	12.4				102	36						
DF		8	3	36		287	2.7	280	25.2				74	185	21					
DF		8	3	40		285	3.2	276	24.8				117	99	60					
DF		8	4	15		6	2.0	6	.5			6								
DF		8	4	16		36	2.0	36	3.2			31	5							
DF		8	4	17		8	2.0	8	.7			8								
DF		8	4	18		19	2.0	19	1.7			19								
DF		8	4	19		11	2.0	11	1.0			11								
DF		8	4	20		21	2.0	20	1.8			20								
DF		8	4	21		23	2.0	23	2.1			23								
DF		8	4	22		10	2.0	10	.9			10								
DF		8	4	23		3	2.0	3	.3			3								
DF		8	4	24		13	2.0	13	1.1			13								
DF		8	4	25		7	2.0	7	.6			7								

TC TLOGSTVB

Log Stock Table - MBF

Project: **CLR_HMBR**

T01S R07W S1 TSALE

T01S R07W S1 TSALE

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
 01S 07W 1 AREA 2 SALE 213.00 38 180 2
 Date 3/30/2010
 Time 12:57:15PM

SPP	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches													
										MBF	Def	MBF	Spe	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29
DF		8	4	26		12	2.0	12	1.1			12											
DF		8	4	28		19	2.0	19	1.7		19												
DF		8	4	30		15	2.0	15	1.3		15												
DF		8	4	32		20	2.0	19	1.7		19												
DF		8	4	33		26	2.0	25	2.3		25												
DF		8	4	35		22	2.0	21	1.9		21												
DF		8	4	36		34	2.0	33	3.0		33												
DF		8	4	37		14	2.0	14	1.2		14												
DF		8	4	40		106	2.0	104	9.4		80	24											
DF		Totals				1,139	2.5	1,110	27.8		376	333	320	81									
NL		8	2	36		91	.9	90	35.5						24						66		
NL		8	2	40		21		21	8.1						21								
NL		8	3	15		1		1	.6					1									
NL		8	3	36		95	1.5	93	36.7			21	45	18									
NL		8	3	40		11		11	4.5														
NL		8	4	16		1		1	.4				1										
NL		8	4	20		4		4	1.7		4												
NL		8	4	22		3		3	1.3		3												
NL		8	4	23		3		3	1.3		3												
NL		8	4	26		3		3	1.2		3												
NL		8	4	30		3		3	1.1		3												
NL		8	4	36		3		3	1.1		3												
NL		8	4	39		16		16	6.5		16												
NL		Totals				256		254	6.4		36		22	46	18	45	20					66	
RA		8	R	16		9	36.7	5	6.8				5										
RA		8	R	32		41	22.4	32	40.1			32											
RA		8	R	34		14	5.0	14	17.1			14											
RA		8	R	40		30	5.0	29	36.0			29											
RA		Totals				94	15.5	79	2.0			74	5										
NF		8	3	36		24	2.0	24	53.3			24											
NF		8	4	23		5	2.0	5	10.7		5												
NF		8	4	36		16	2.0	16	36.0		16												
NF		Totals				46	2.0	45	1.1		21		24										
Total All Species					4,089	2.4	3,990	100.0		856	666	1018	742	266	139	205	32			66			

Stand Table Summary																
TC TSTNDSUM		Project CLR HMBR														
T01S R07W S1 TSALE												T01S R07W S1 TSALE				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	I							
01S	07W	1	AREA 2	SALE	213.00	38	180	Date:	03/30/2010							
								Time:	12:59:53PM							
Spc	S T	Sample			Av	Trees/ BA/ Logs			Average Log		Net			Totals		
		DBH	Trees	FF	Ht	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Net	Tons	Cunits	MBF
				16'	Tot	Acres	Acres	Acres	Cu.Ft.	Bd.Ft.	Acres	Acres	Acres			
DL		10	2	79	75	3.552	1.94	1.62	11.3	40.0	.50	18	65	107	39	14
DL		11	8	85	72	12.285	8.25	18.19	10.9	40.9	5.43	198	744	1,158	421	158
DL		12	8	87	87	10.508	8.25	21.02	11.1	45.0	6.42	233	946	1,366	497	201
DL		13	6	85	80	6.852	6.32	12.56	13.0	48.2	4.47	163	605	953	347	129
DL		14	14	86	81	13.156	14.06	25.49	14.6	54.0	10.24	372	1,375	2,182	793	293
DL		15	16	86	83	13.450	16.51	26.04	17.9	69.8	12.79	465	1,817	2,724	990	387
DL		16	10	86	83	7.178	10.02	13.60	20.8	80.4	7.79	283	1,093	1,658	603	233
DL		17	14	85	80	9.227	14.57	17.79	21.7	79.0	10.63	387	1,406	2,265	824	299
DL		18	6	86	78	3.574	6.32	7.15	25.8	90.0	5.06	184	643	1,079	392	137
DL		19	5	86	84	2.588	5.10	4.11	30.1	103.7	3.40	124	426	724	263	91
DL		20	3	88	93	1.370	2.99	3.22	32.1	114.0	2.84	103	367	605	220	78
DL		21	5	85	87	2.188	5.26	4.38	37.7	124.0	4.53	165	543	966	351	116
DL		22	1	86	89	.399	1.05	.80	45.0	165.0	.99	36	132	210	76	28
DL		24	4	88	106	1.233	3.87	3.03	48.0	202.4	4.00	145	613	851	310	131
DL		25	3	83	88	.877	2.99	1.70	46.1	184.1	2.16	79	314	461	168	67
DL		26	3	86	100	.811	2.99	1.58	53.9	208.9	2.34	85	329	498	181	70
DL		27	2	88	88	.529	2.11	1.32	52.9	248.0	1.92	70	328	410	149	70
DL		Totals	110	86	82	89.778	112.59	163.59	19.0	71.8	85.53	3,110	11,746	18,217	6,624	2,502
DF		8	2	85	63	6.031	2.11	6.03	6.2	34.3	1.06	37	207	225	79	44
DF		9	4	85	79	9.531	4.21	11.91	8.1	35.3	2.75	96	420	585	205	90
DF		10	15	86	72	27.201	14.78	28.82	10.2	41.0	8.35	293	1,181	1,779	624	251
DF		11	6	86	81	8.806	5.81	12.25	10.1	44.6	3.53	124	546	752	264	116
DF		12	7	86	83	8.954	7.03	16.78	11.1	45.0	5.30	186	754	1,128	396	161
DF		13	9	87	86	9.913	9.14	19.83	13.3	52.9	7.54	265	1,048	1,606	564	223
DF		14	4	86	79	3.939	4.21	7.88	13.7	47.8	3.07	108	376	653	229	80
DF		15	3	86	82	2.436	2.99	4.87	17.5	71.2	2.43	85	347	518	182	74
DF		16	1	89	98	.633	.88	1.27	23.7	93.1	.86	30	118	182	64	25
DF		17	2	86	83	1.336	2.11	2.67	22.3	80.8	1.70	60	216	362	127	46
DF		33	1	78	84	.177	1.05									
DF		Totals	54	86	77	78.957	54.32	112.31	11.4	46.4	36.58	1,283	5,213	7,791	2,734	1,110
NL		10	1	89	64	1.930	1.05	1.93	11.3	40.0	.52	22	77	111	46	16
NL		14	1	92	76	.985	1.05	1.97	15.2	60.0	.72	30	118	153	64	25
NL		16	2	90	76	1.508	2.11	3.02	19.8	80.0	1.43	60	241	305	127	51
NL		20	1	87	76	.482	1.05	.96	30.8	105.0	.71	30	101	152	63	22
NL		21	1	90	80	.438	1.05	.88	38.3	145.0	.80	34	127	171	71	27
NL		22	1	91	91	.335	.88	.67	43.4	165.0	.70	29	111	149	62	24
NL		38	2	89	110	.267	2.11	.80	104.6	520.0	2.01	84	417	429	179	89
NL		Totals	9	90	75	5.945	9.31	10.23	28.1	116.6	6.90	287	1,192	1,470	612	254
RA		10	1	82	92	1.930	1.05	1.93	8.7	38.0	.46	17	73	99	36	16
RA		11	2	83	84	3.190	2.11	3.19	16.0	52.2	1.40	51	167	299	109	36
RA		12	1	77	100	1.340	1.05	2.68	9.7	33.2	.72	26	89	153	55	19
RA		16	1	75	58	.754	1.05	.75	35.5	57.0	.73	27	43	157	57	9
RA		Totals	5	81	86	7.214	5.26	8.55	14.1	43.5	3.32	121	372	706	257	79
NF		10	1	89	58	1.930	1.05	1.93	10.4	39.2	.48	20	76	103	43	16
NF		13	1	93	83	1.142	1.05	2.28	14.4	58.8	.79	33	134	168	70	29
NF		Totals	2	90	67	3.072	2.11	4.21	12.6	49.8	1.27	53	210	270	113	45
Totals		180	86	79		184.965	183.59	298.90	16.2	62.7	133.59	4854	18,734	28,454	10,340	3,990



"STEWARDSHIP IN FORESTRY"

Clear Hembre

Volume Summary

Area 1-Modified Clearcut				
110 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF
Douglas-fir	13.5	1488	2%	1450
Alder	0.8	88	5%	79
TOTAL	14.3	1576		1529

Area 2-Partial Cut				
213 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF
Douglas-fir	5.3	1139	2%	1110
Noble fir	0.2	46	2%	45
TOTAL	5.5	1185		1155

TOTAL SALE VOLUME			323	acres
SPECIES	Gross Vol (MBF)	Net Vol (MBF)		
Douglas-fir	2627	2560		
Noble fir	46	45		
Alder	88	79		
TOTAL	2761	2684		



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Clear Hembre*

1. Type of Sale

Regeneration/Thinning harvest, Recovery

2. Legal Description

Sections 1, 2, 11, and 12, T1S, R7W, W.M. Tillamook County, Oregon

3. Sale Acreage

Sale acreage was determined by GPS and orthophotographs with GIS.

	ACRES	
	<u>Gross</u>	<u>Net</u>
Area 1 (Modified Clearcut)	117	110
Area 2 (Partial Cut)	237	213

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. Cruising Procedures

A. Cruise Method

Full measure plots were taken every 350' on lines spaced 700' apart on a N45°W bearing. Heights were measured to the nearest foot and diameters to the nearest inch. Conifer top diameters inside bark were 5" and 6" for hardwoods or 1/3 of DBH whichever was greater. In Area 1, 19 plots were taken and based on board foot the SE was 15.4% and CV was 65.3%. In Area 2, 38 plots were taken and based on board foot volume the SE was 6.7% and CV was 41.6%.

B. Plot size

A 33.61BAF used, observing trees at 4½'

C. Grading System

Columbia River Log Scaling and Grading Rules were used.

5. Computation Procedure

The volume was calculated by the SuperAce program. Area 2 take and leave trees were selected in the office and leaving those with the largest diameter and least defect.

6. Hidden Defect and Breakage

A 2% for conifer and 5% for hardwood hidden defect and breakage was applied in addition to cruised defect.

7. Timber Description

The entire sale area was burned over the course of the 1933, 1939 and 1945 fires. The sale area was aerially seeded in 1960 and 1963 with an average age of is a 45 years old. The sale area is dominated by Douglas-fir with alder mainly in the draws. Area 2 has a component of naturally regenerated noble fir.

There has been no prior stand management resulting in many non-merch (pulp) size trees per acre in Area 1. Area 2 developed at less density and is now well stocked. In Area 2 there are also a scattering of trees that naturally regenerated following the fires that are larger both in diameter and height with more and larger limbs than the surrounding trees.

8. Cruiser Names/Dates

The area was contract cruised in August 2008

9. Revenue Distribution

FDF 100%

Tax Code: 9-2

Deed Number: 161

10. Attachments

Stand Table

Volume Summaries

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave

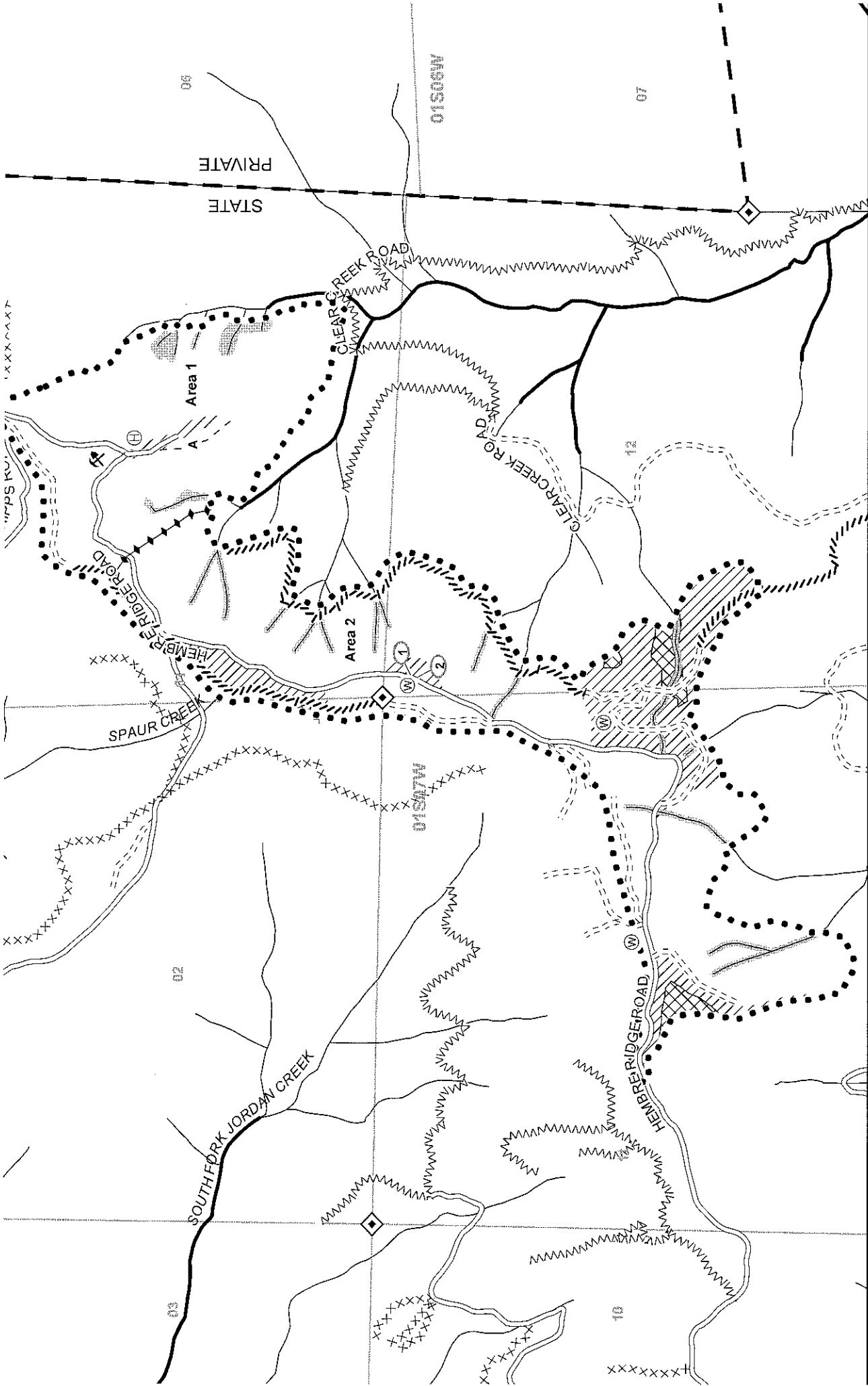
DF – Douglas-fir take

NL – Noble fir leave

NF – Noble fir take

RA – Red alder

WH – Western hemlock



LOGGING PLAN
 Timber Sale Contract No. 341-10-91
 Clear Hembre
 Portions of Sections 1, 2, 11 and 12
 T1S, R7W, W.M.,
 Tillamook County, Oregon

1,000 0 1,000 Feet

Tillamook District GIS
 3/30/2010
 This product is for informational use and may not have been reviewed or suitable for

Type of		Acres	
Area	Operation	Gross	Net
1	Modified clearcut	117	110
2	Partial cut	237	213
Total		354	323

Legend:

- Rock source
- Stock pile
- Waste area
- Bridge
- Gate
- Survey corner
- Domestic water supply intake
- Truck turn-around
- Helicopter
- Landing
- Buffer
- Non-required thinning
- Cable yarding
- Ground yarding
- Helicopter yarding
- Downhill yarding
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- Unsurfaced road
- Surfaced road
- Paved road
- Abandoned road
- Swing road
- Non-project road
- Blocked road
- Road construction
- OHV trail
- Non-motorized trail
- Transmission line
- Railroad