"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
The Hoevet
Sale 341-14-77

District: **Tillamook** **Date:** **April 21, 2014**

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$1,015,168.08	$292,913.28	$1,308,081.36
		Project Work:	$(456,068.01)
		Advertised Value:	$852,013.35

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
The Hoevet
Sale 341-14-77

District: **Tillamook** **Date:** **April 21, 2014**

timber description

Location: Portions of Sections 25, 34, 35, and 36, T3N, R8W, and portions of Sections 1, 2, 4, 5, 6, 8, and 9, T2N, R8W, and portions of Section 1, T2N, R9W, and portions of Sections 35 and 36, T3N, R9W, and portions of Section 6, T2N, R7W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	95
Western Hemlock / Fir	17	0	95
Alder (Red)	14	0	90

Volume by Grade	10" - 11"	12"+	2S	3S	4S	8" - 9"	Total
Douglas - Fir	0	0	2,049	1,877	727	0	4,653
Western Hemlock / Fir	0	0	147	98	27	0	272
Alder (Red)	266	36	0	0	0	802	1,104
Total	266	36	2,196	1,975	754	802	6,029

"STEWARDSHIP IN FORESTRY"

District: Tillamook **Date: April 21, 2014**

comments:

Pond Values Used: 1st Quarter Calendar Year 2014 + Local Pond Values.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$825/MBF = $1,175/MBF - $350/MBF

Pulp (Conifer and Hardwood) Price = $25/MBF

SCALING COST ALLOWANCE = $5.00/MBF

FUEL COST ALLOWANCE = $4.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to $780 daily truck cost.

Other Costs (with Profit & Risk to be added):
Brand and Paint: $2/MBF x 6,029 MBF = $12,058
Snag Creation: $10/tree x 828 trees = $8,280
TOTAL Other Costs (with Profit & Risk to be added) = $20,338

Other Costs (No Profit & Risk added):
Slash Piling and Sorting: $5/acre x 426 acres = $2,130
Cover Material for Piles: 20 piles x $5/pile = $100
Jump Up Logging Spur Area 5 = $2,000
Jump Up Blocking: $50/block x 1 = $50
Excavation and Cribbing of Landings for Area 5 = $5,000
Rock Anchors (guy lines Area 5) = $1,000
Equipment Move-in/Move-out = 3 machines x $500/ machine x 2 seasons = $3,000
Equipment Cleaning: 2 machines x $1,000 per machine x 1 season = $2,000
TOTAL Other Costs (No Profit & Risk Added) = $15,280

ROAD MAINTENANCE
Spot Rocking: (750 cy x $6/cy)/6,029 MBF = 0.75/MBF
Tin Shack/Cook Creek:
Final Maintenance Grading: $500/mile x 10.6 miles/6,029 MBF = $0.88/MBF
Compaction on Tin Shack Road from Cook Creek to Point M: (80 stations x $18/station) + $111 move in = $1,551/6,029 MBF = $0.26/MBF
Lost Creek/North Side/Buck Mountain:
Interim Grading: $250/mile x 13.5 miles x 2 times / 6,029 MBF = $1.12/MBF
Final Maintenance Grading: $500/mile x 13.5 miles/ 6,029 MBF = $1.12/MBF
Compaction on 4 miles of Buck Mountain: 210 stations x $18/station + $111 move in = $3,891/6,029 MBF = $.65/MBF
Total Road Maintenance: $4.78/MBF

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
The Hoevet
Sale 341-14-77

District: Tillamook **Date: April 21, 2014**

logging conditions

combination#: 1

Douglas - Fir	45.98%
Western Hemlock / Fir	30.00%
Alder (Red)	59.44%

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: 5.0 **bd. ft / load:** 3,900
cost / mbf: $171.49

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

combination#: 2

Douglas - Fir	34.00%
Western Hemlock / Fir	45.00%
Alder (Red)	26.07%

yarding distance: Long (1,500 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: 4.0 **bd. ft / load:** 3,300
cost / mbf: $253.34

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

combination#: 3

Douglas - Fir	11.20%
Western Hemlock / Fir	15.00%
Alder (Red)	3.51%

yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process**: Stroke Delimber
tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF
loads / day: 3.0 **bd. ft / load:** 3,200
cost / mbf: $348.35

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

combination#: 4

Douglas - Fir	8.82%
Western Hemlock / Fir	10.00%
Alder (Red)	10.98%

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
The Hoevet
Sale 341-14-77

District: Tillamook **Date: April 21, 2014**

yarding distance:	Short (400 ft)	**downhill yarding:**	No
logging system:	Shovel	**Process**:	Stroke Delimber
tree size:	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF		
loads / day:	5.0	**bd. ft / load:**	3,800
cost / mbf:	$75.70		

machines: Stroke Delimber (B)

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
The Hoevet
Sale 341-14-77

District: **Tillamook** **Date:** **April 21, 2014**

logging costs

Operating Seasons:	2.00	**Profit Risk:**	15.00%
Project Costs:	$456,068.01	**Other Costs (P/R):**	$20,338.00
Slash Disposal:	$0.00	**Other Costs:**	$15,280.00

Miles of Road

Road Maintenance: $4.78

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	$0.00	2.0	3.2
Western Hemlock / Fir	$0.00	3.0	5.4
Alder (Red)	$0.00	2.0	3.6

Local Pond Values

Date	Specie	Grade	Value
4/21/14	Douglas - Fir	2S	$620.00
4/21/14	Douglas - Fir	3S	$580.00
4/21/14	Douglas - Fir	4S	$570.00
4/21/14	Western Hemlock / Fir	2S	$530.00
4/21/14	Western Hemlock / Fir	3S	$510.00
4/21/14	Western Hemlock / Fir	4S	$505.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
The Hoevet
Sale 341-14-77

District: **Tillamook** **Date:** **April 21, 2014**

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
$210.67	$5.02	$1.45	$111.28	$3.37	$49.77	$0.00	$5.00	$2.53	$389.09
Western Hemlock / Fir									
$225.27	$5.02	$1.45	$43.96	$3.37	$41.86	$0.00	$5.00	$2.53	$328.46
Alder (Red)									
$188.51	$5.26	$1.45	$103.62	$3.37	$45.33	$0.00	$5.00	$2.53	$355.07

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$596.05	$206.96	$0.00
Western Hemlock / Fir	$0.00	$520.31	$191.85	$0.00
Alder (Red)	$0.00	$620.39	$265.32	$0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
The Hoevet
Sale 341-14-77

District: **Tillamook** **Date:** **April 21, 2014**

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	$0.00	$0.00
Western Hemlock / Fir	0	$0.00	$0.00
Alder (Red)	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	4,653	$206.96	$962,984.88
Western Hemlock / Fir	272	$191.85	$52,183.20
Alder (Red)	1,104	$265.32	$292,913.28

Gross Timber Sale Value

Recovery: $1,308,081.36

Prepared by: Nick Stumpf **Phone:** 503-842-2545

PROJECT SUMMARY SHEET

Sale: The Hoevet

CONSTRUCTION

Point	G to H	4+80	stations =	$3,005.85
Point	K to L	3+50	stations =	$1,801.56
Point	O to P	1+00	stations =	$817.31
Point	U to V	6+70	stations =	$17,159.29
			SUBTOTAL CONSTRUCTION	**$22,784.01**

IMPROVEMENT

Point	A to B	597+35	stations =	$94,018.00
Point	C to D	471+75	stations =	$137,844.24
Point	E to F	37+40	stations =	$30,868.25
Point	G to H	147+30	stations =	$65,606.02
Point	I to J	21+05	stations =	$46,292.72
Point	O to P	11+50	stations =	$6,968.34
Point	Q to R	15+40	stations =	$8,161.40
Point	S to T	17+50	stations =	$9,272.23
			SUBTOTAL IMPROVEMENT	**$399,031.20**

RECONSTRUCTION

Point	G to H	0+00	stations =	$490.00
Point	K to L	4+00	stations =	$1,981.79
Point	M to N	8+00	stations =	$5,526.88
			SUBTOTAL RECONSTRUCTION	**$7,998.67**

SPECIAL PROJECTS

Project 3, Construct Helicopter Pad. Crush & Spread 8" lift of 2 1/2"-0' for Helicopter Pad	$6,941.50
Project 4, Crush and Stockpile 1,000 c.y. of 3/4" - 0"	$10,450.00
SUBTOTAL SPECIAL PROJECTS	**$17,391.50**

MOVE IN **$8,862.63**

GRAND TOTAL **$456,068.01**

SUMMARY OF CONSTRUCTION COST

Sale: **The Hoevet** Road: **A to B**

Construction -	0+00	stations	Improvement -	597+35	stations	Reconstruction -	0+00	stations
	0.00	miles		11.31	miles		0.00	miles

ROCK

478+50	to	597+35	4,140	cy. of	Crushed	@	$14.83	per c.y.=	$61,396.20
Campsite Rock		**	170	cy. of	Crushed	@	$15.74	per c.y.=	$2,675.80
Spot Rk 0+00	to	478+50	1,500	cy. of	Crushed	@	$17.45	per c.y.=	$26,175.00
								TOTAL ROCK	**$90,247.00**

SPECIAL PROJECTS

Grade and shape road (478+50 to 597+35) -	118.85	stations @	$15.50	per station	$1,842.18
Construct/Install rubber water diverter @ 493+25	1.00	@	$360.00	each	$360.00
Roll subgrade w/vibratory roller prior to rocking (478+50 to 597+35) -	118.85	stations @	$13.20	per station	$1,568.82
				TOTAL SPECIAL PROJECTS	**$3,771.00**

* As marked in field
** Campsite locations 1-17 as marked in field

GRAND TOTAL **$94,018.00**

SUMMARY OF CONSTRUCTION COST

Sale: **The Hoevet** Road: **C to D**

Construction -	0+00	stations	Improvement -	471+75	stations	Reconstruction -	0+00	stations
	0.00	miles		8.93	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening and fill				0.400	acres	@	$660.00	per acre =	$264.00
								TOTAL CLEARING AND GRUBBING	**$264.00**

IMPROVEMENT: EXCAVATION -

Widening	13+00		13+50	98	cy.	@	$1.40	per c.y.=	$137.20
Widening	70+00	to	78+00	4875	cy.	@	$2.50	per c.y.=	$12,187.50
Widening	269+70	to	271+20	1625	cy.	@	$3.50	per c.y.=	$5,687.50
								TOTAL EXCAVATION	**$18,012.20**

IMPROVEMENT: ENDHAUL -

Widening	13+00	to	13+50	98	cy.	@	$1.86	per c.y.=	$182.28
Widening	70+00	to	78+00	4875	cy.	@	$0.96	per c.y.=	$4,680.00
Widening	269+70	to	271+20	1625	cy.	@	$2.43	per c.y.=	$3,948.75
Spread & compact				873	cy.	@	$0.25	per c.y.=	$218.25
Compact road fill	70+00	to	78+00	5725	cy.	@	$0.45	per c.y.=	$2,576.25
								TOTAL ENDHAUL	**$9,029.28**

CULVERTS - MATERIALS & INSTALLATION

Culverts

36	LF of 18"	$630.00		0	LF of 24"	$0.00	
		$630.00				$0.00	

Culvert Stakes & Markers

1	markers	$8.00	
		$8.00	

TOTAL CULVERTS **$638.00**

ROCK

0+00 to	234+60	5,250	cy. of	Crushed	@	$14.61	per c.y.=	$76,702.50
Roadbank Stabilization	10+40	20	cy. of	Riprap	@	$10.73	per c.y.=	$214.60
Spot Rock	400+55 to 471+75	200	cy. of	Crushed	@	$14.94	per c.y.=	$2,988.00
							TOTAL ROCK	**$80,026.40**

SPECIAL PROJECTS

0+30 to 0+90 ditch/cutslope improvement	4.00	hours @	$145.00	per hour	$580.00
Construct turnouts @ station 11+00	2.00	hours @	$145.00	each	$290.00
Drill and Shoot widening @ station 70+00 to 78+00	500.00	yards @	$6.30	per yard	$3,150.00
Drill and Shoot ditchline @ station 102+00 to 114+40	550.00	yards @	$6.30	per yard	$3,465.00
Drill and Shoot corner widening at 140+00 to 140+80	1.00	lump sum @	$12,000.00	per hour	$12,000.00
Grade and shape road (only on rocked sections)-	305.80	stations @	$15.50	per station	$4,739.90
Roll subgrade w/ vibratory roller prior to rocking (only on rocked areas) -	305.80	stations @	$13.20	per station	$4,036.56
Push and spread fill material	8.00	hours @	$145.00	per hour	$1,160.00
Remove culverts from state lands	1.00	@	$282.90	total	$282.90
Grass seed and fertilize -	0.50	acres @	$220.00	per acre	$110.00
Mulching -	0.100	acres @	$600.00	per acre	$60.00
				TOTAL SPECIAL PROJECTS	**$29,874.36**

GRAND TOTAL **$137,844.24**

SUMMARY OF CONSTRUCTION COST

Sale: **The Hoevet** Road: **E to F**

Construction -	0+00	stations	Improvement -	37+40	stations	Reconstruction -	0+00	stations
	0.00	miles		0.71	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening					0.270	acres	@	$660.00	per acre =	$178.20
Scattering					0.340	acres	@	$980.00	per acre =	$333.20
									TOTAL CLEARING AND GRUBBING	**$511.40**

IMPROVEMENT: EXCAVATION -

Road Earthwork				37.40	sta.	@	$50.00	per sta. =	$1,870.00	
Ditching	7+50	to	12+00	4.50	sta.	@	$80.00	per sta. =	$360.00	
Widening	10+70	to	24+00	1261	cy.	@	$1.40	per c.y.=	$1,765.40	
								TOTAL	**EXCAVATION**	**$3,995.40**

IMPROVEMENT: ENDHAUL -

Widening	10+70	to	23+00	711	cy.	@	$2.72	per c.y.=	$1,933.92	
Widening	23+00	to	24+00	550	cy.	@	$2.90	per c.y.=	$1,595.00	
Spread & compact				1261	cy.	@	$0.25	per c.y.=	$315.25	
									TOTAL ENDHAUL	**$3,844.17**

CULVERTS - MATERIALS & INSTALLATION

Culverts			
60	LF of 18"	$1,050.00	
Culvert Stakes & Markers			
2	markers	$16.00	
		$16.00	**TOTAL CULVERTS** **$1,066.00**

ROCK

0+00 to	37+40	1,310	cy. of	Crushed		@	$13.38	per c.y.=	$17,527.80
Culvert Backfill		30	cy. of	Crushed		@	$11.70	per c.y.=	$351.00
Landing Rock	23+50, 37+00	160	cy. of	Crushed		@	$13.48	per c.y.=	$2,156.80
								TOTAL ROCK	**$20,035.60**

SPECIAL PROJECTS

Grade and shape road -	37.40	stations @	$15.50	per station	$579.70
Roll subgrade w/ vibratory roller prior to rocking -	37.40	stations @	$13.20	per station	$493.68
Remove culverts from state lands	1.00	@	$282.90	total	$282.90
Grass seed and fertilize -	0.27	acres @	$220.00	per acre	$59.40
				TOTAL SPECIAL PROJECTS	**$1,415.68**

GRAND TOTAL **$30,868.25**

SUMMARY OF CONSTRUCTION COST

Sale: **The Hoevet** Road: **G to H**

Construction -	4+80	stations	Improvement -	147+30	stations	Reconstruction -	0+00	stations
	0.09	miles		2.79	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope or Activity	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station				
147+30		152+10	Fill Const.		Outslope	$300	=		$1,440.00	
									TOTAL	**$1,440.00**

IMPROVEMENT: CLEARING AND GRUBBING -

Widen Sections Endhaul	122+30	to	147+30	1.150	acres @	$2,000.00	per acre =	$2,300.00	
Scattering	98+42	to	122+30	1.100	acres @	$980.00	per acre =	$1,078.00	
							TOTAL CLEARING AND GRUBBING		**$3,378.00**

IMPROVEMENT: EXCAVATION -

Road Earthwork	98+42	to	122+30	23.88	sta. @	$50.00	per sta. =	$1,194.00	
Widening	122+30	to	132+42	300	cy. @	$1.85	per c.y.=	$555.00	
Widening	135+75	to	138+75	950	cy. @	$1.85	per c.y.=	$1,757.50	
Widening	138+75	to	146+00	2200	cy. @	$1.85	per c.y.=	$4,070.00	
Widening	146+00	to	147+30	450	cy. @	$1.85	per c.y.=	$832.50	
							TOTAL EXCAVATION		**$8,409.00**

IMPROVEMENT: ENDHAUL -

Widening	122+30	to	132+42	300	cy. @	$1.09	per c.y.=	$327.00	
Widening	135+75	to	138+75	950	cy. @	$1.05	per c.y.=	$997.50	
Widening	138+75	to	146+00	2200	cy. @	$1.15	per c.y.=	$2,530.00	
Widening	146+00	to	147+30	450	cy. @	$4.00	per c.y.=	$1,800.00	
Spread & compact				450	cy. @	$0.25	per c.y.=	$112.50	
								TOTAL ENDHAUL	**$5,767.00**

ROCK

98+42 to	133+42	1,230	cy. of	Crushed		@	$15.50	per c.y.=	$19,065.00	
132+42 to	152+10	930	cy. of	Crushed		@	$15.50	per c.y.=	$14,415.00	
Landing Rock	146+42	80	cy. of	Crushed		@	$15.50	per c.y.=	$1,240.00	
Landing Rock	153+92	80	cy. of	Crushed		@	$15.50	per c.y.=	$1,240.00	
Spot Rock	0+00 to 46+00	440	cy. of	Crushed		@	$15.28	per c.y.=	$6,723.20	
Spot Rock	46+00 to 98+42	120	cy. of	Crushed		@	$16.04	per c.y.=	$1,924.80	
								TOTAL ROCK		**$44,608.00**

SPECIAL PROJECTS

Grade and shape road -	152.10	stations @	$15.50	per station	$2,357.55
Roll subgrade w/ vibratory roller prior to rocking -	152.10	stations @	$13.20	per station	$2,007.72
Grass seed and fertilize -	2.93	acres @	$220.00	per acre	$644.60
				TOTAL SPECIAL PROJECTS	**$5,009.87**

GRAND TOTAL **$69,101.87**

SUMMARY OF CONSTRUCTION COST

Sale: **The Hoevet** Road: **I to J**

Construction -	0+00	stations	Improvement -	21+05	stations	Reconstruction -	0+00	stations
	0.00	miles		0.40	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widen Sections Endhaul					1.100	acres @	$2,000.00	per acre =	$2,200.00	
								TOTAL CLEARING AND GRUBBING		**$2,200.00**

IMPROVEMENT: EXCAVATION -

Road/Turnaround Earthwrk	0+00	to	2+90	2.90	sta. @	$500.00	per sta. =	$1,450.00	
Widening	2+90	to	19+65	4100	cy. @	$1.40	per c.y.=	$5,740.00	
Road/Landing Earthwork	19+65	to	21+05	1.40	sta. @	$200.00	per sta. =	$280.00	
							TOTAL	**EXCAVATION**	**$7,470.00**

IMPROVEMENT: ENDHAUL -

Widening	2+90	to	19+65	4100	cy. @	$3.62	per c.y.=	$14,842.00	
Spread & compact				4100	cy. @	$0.25	per c.y.=	$1,025.00	
								TOTAL ENDHAUL	**$15,867.00**

ROCK

0+00 to	21+05	980	cy. of	Crushed	@	$15.69	per c.y.=	$15,376.20	
Landing Rock	20+65	80	cy. of	Crushed	@	$15.85	per c.y.=	$1,268.00	
Turnaround Fill/Crib	0+00 to 2+90	400	cy. of	Pit-Run	@	$8.45	per c.y.=	$3,380.00	
								TOTAL ROCK	**$20,024.20**

SPECIAL PROJECTS

Grade and shape road -	21.05	stations @	$15.50	per station	$326.28	
Roll subgrade w/ vibratory roller prior to rocking -	19.20	stations @	$13.20	per station	$253.44	
Grass seed and fertilize -	0.69	acres @	$220.00	per acre	$151.80	
				TOTAL SPECIAL PROJECTS		**$731.52**

GRAND TOTAL **$46,292.72**

SUMMARY OF CONSTRUCTION COST

Sale: **The Hoevet** Road: **K to L**

Construction -	3+50	stations	Improvement -	0+00	stations	Reconstruction -	4+00	stations
	0.07	miles		0.00	miles		0.08	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			
4+00		5+00	45%			$269	=	$269.00	
5+00		7+50	15%			$107	=	$267.50	
								TOTAL	**$536.50**

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	0.200	acres @	$980.00	per acre =	$196.00			
				TOTAL CLEARING AND GRUBBING				**$196.00**

RECONSTRUCTION: EXCAVATION -

Road Earthwork	4.00	sta. @	$85.00	per sta. =	$340.00			
				TOTAL	**EXCAVATION**			**$340.00**

ROCK

0+00	to	7+50	360	cy. of	Crushed*	@	$4.70	per c.y.=	$1,692.00	
Landing Rock		7+50	80	cy. of	Crushed*	@	$5.36	per c.y.=	$428.80	
* Rock source is in an existing stockpile @ pit.									**TOTAL ROCK**	**$2,120.80**

SPECIAL PROJECTS

Construct Landing at 7+50	1.00	@	$300.00	each	$300.00	
Grade and shape road -	7.50	stations @	$15.50	per station	$116.25	
Roll subgrade w/ vibratory roller prior to rocking -	7.50	stations @	$13.20	per station	$99.00	
Grass seed and fertilize -	0.34	acres @	$220.00	per acre	$74.80	
					TOTAL SPECIAL PROJECTS	**$590.05**

GRAND TOTAL **$3,783.35**

SUMMARY OF CONSTRUCTION COST

Sale: **The Hoevet** Road: **M to N**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	8+00	stations
	0.00	miles		0.00	miles		0.15	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Widening	0.106	acres @	$660.00	per acre =	$69.96	
Scattering	0.300	acres @	$980.00	per acre =	$294.00	
				TOTAL CLEARING AND GRUBBING		**$363.96**

RECONSTRUCTION: EXCAVATION -

Road Earthwork	8.00	sta. @	$50.00	per sta. =	$400.00	
Widening	554	cy. @	$1.40	per c.y.=	$775.60	
				TOTAL EXCAVATION		**$1,175.60**

RECONSTRUCTION: ENDHAUL -

Widening 2+50 to 4+80	554	cy. @	$0.93	per c.y.=	$515.22	
Spread & compact	554	cy. @	$0.25	per c.y.=	$138.50	
					TOTAL ENDHAUL	**$653.72**

ROCK

0+00 to 8+00	400	cy. of	Crushed*	@	$5.63	per c.y.=	$2,252.00
Landing Rock 7+60	80	cy. of	Crushed*	@	$5.74	per c.y.=	$459.20
Junction Rock 0+00	20	cy. of	Crushed*	@	$5.57	per c.y.=	$111.40
* Rock source is in an existing stockpile @ pit.						**TOTAL ROCK**	**$2,822.60**

SPECIAL PROJECTS

Construct Landing at 8+00	1.00	@	$200.00	each	$200.00
Grade and shape road -	8.00	stations @	$15.50	per station	$124.00
Roll subgrade w/ vibratory roller prior to rocking -	8.00	stations @	$13.20	per station	$105.60
Grass seed and fertilize -	0.37	acres @	$220.00	per acre	$81.40
				TOTAL SPECIAL PROJECTS	**$511.00**

GRAND TOTAL **$5,526.88**

SUMMARY OF CONSTRUCTION COST

Sale: **The Hoevet** Road: **O to P**

Construction -	1+00	stations	Improvement -	11+50	stations	Reconstruction -	0+00	stations
	0.02	miles		0.22	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope or Activity	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		1+00	Fill Const.			$300	=	$300.00	
								TOTAL	**$300.00**

IMPROVEMENT: CLEARING AND GRUBBING -

Scattering	0.160	acres @	$980.00	per acre =	$156.80		
				TOTAL CLEARING AND GRUBBING			**$156.80**

IMPROVEMENT: EXCAVATION -

Road Earthwork	11.50	sta. @	$75.00	per sta. =	$862.50		
				TOTAL EXCAVATION			**$862.50**

ROCK

0+00 to	12+50	670	cy. of	Pit-Run	@	$6.26	per c.y.=	$4,194.20	
Fill Material	0+00 to 1+00	200	cy. of	Pit-Run	@	$6.18	per c.y.=	$1,236.00	
Landing Rock	12+20	80	cy. of	Pit-Run	@	$6.21	per c.y.=	$496.80	
Junction Rock	0+00	20	cy. of	Pit-Run	@	$6.17	per c.y.=	$123.40	
								TOTAL ROCK	**$6,050.40**

SPECIAL PROJECTS

Grade and shape road -	12.50	stations @	$15.50	per station	$193.75	
Roll subgrade w/ vibratory roller prior to rocking -	12.50	stations @	$13.20	per station	$165.00	
Grass seed and fertilize -	0.26	acres @	$220.00	per acre	$57.20	
				TOTAL SPECIAL PROJECTS		**$415.95**

GRAND TOTAL **$7,785.65**

SUMMARY OF CONSTRUCTION COST

Sale: **The Hoevet** Road: **Q to R**

Construction -	0+00	stations	Improvement -	15+40	stations	Reconstruction -	0+00	stations
	0.00	miles		0.29	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.011	acres @	$660.00	per acre =	$7.26	
Scattering	0.280	acres @	$980.00	per acre =	$274.40	
				TOTAL CLEARING AND GRUBBING		**$281.66**

IMPROVEMENT: EXCAVATION -

Road Earthwork	15.40	sta. @	$75.00	per sta. =	$1,155.00	
Widening	61	cy. @	$1.40	per c.y.=	$85.40	
				TOTAL EXCAVATION		**$1,240.40**

IMPROVEMENT: ENDHAUL -

Widening	3+30	to	3+80	61	cy. @	$1.21	per c.y.=	$73.81	
Spread & compact				61	cy. @	$0.25	per c.y.=	$15.25	
							TOTAL ENDHAUL		**$89.06**

ROCK

0+00 to	15+40	830	cy. of	Pit-Run	@	$6.39	per c.y.=	$5,303.70	
Landing Rock	15+10	80	cy. of	Pit-Run	@	$6.51	per c.y.=	$520.80	
Junction Rock	0+00	20	cy. of	Pit-Run	@	$6.27	per c.y.=	$125.40	
								TOTAL ROCK	**$5,949.90**

SPECIAL PROJECTS

Grade and shape road -	15.40	stations @	$15.50	per station	$238.70	
Roll subgrade w/ vibratory roller prior to rocking -	15.40	stations @	$13.20	per station	$203.28	
Grass seed and fertilize -	0.72	acres @	$220.00	per acre	$158.40	
				TOTAL SPECIAL PROJECTS		**$600.38**

GRAND TOTAL **$8,161.40**

SUMMARY OF CONSTRUCTION COST

Sale: **The Hoevet** Road: **S to T**

Construction -	0+00	stations	Improvement -	17+50	stations	Reconstruction -		stations
	0.00	miles		0.33	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.017	acres @	$660.00	per acre =	$11.22	
Scattering	0.400	acres @	$980.00	per acre =	$392.00	
				TOTAL CLEARING AND GRUBBING		**$403.22**

IMPROVEMENT: EXCAVATION -

Road Earthwork	17.50	sta. @	$85.00	per sta. =	$1,487.50	
Widening	87	cy. @	$1.40	per c.y.=	$121.80	
				TOTAL EXCAVATION		**$1,609.30**

IMPROVEMENT: ENDHAUL -

Widening	4+60	to	5+50	87	cy. @	$1.33	per c.y.=	$115.71	
Spread & compact				87	cy. @	$0.25	per c.y.=	$21.75	
							TOTAL ENDHAUL		**$137.46**

ROCK

0+00 to	17+50	930	cy. of	Pit-Run	@	$6.26	per c.y.=	$5,821.80	
Landing Rock	17+20	80	cy. of	Pit-Run	@	$6.18	per c.y.=	$494.40	
Junction Rock	0+00	20	cy. of	Pit-Run	@	$6.17	per c.y.=	$123.40	
								TOTAL ROCK	**$6,439.60**

SPECIAL PROJECTS

Grade and shape road -	17.50	stations @	$15.50	per station	$271.25	
Roll subgrade w/ vibratory roller prior to rocking -	17.50	stations @	$13.20	per station	$231.00	
Grass seed and fertilize -	0.82	acres @	$220.00	per acre	$180.40	
				TOTAL SPECIAL PROJECTS		**$682.65**

GRAND TOTAL **$9,272.23**

SUMMARY OF CONSTRUCTION COST

Sale: **The Hoevet** Road: **U to V**

Construction -	6+70	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		6+00	65%	2.0		$1,745	=	$10,470.00	
6+00		6+70	Land. Const			$300	=	$210.00	
								TOTAL	**$10,680.00**

ROCK

0+00	to	6+70	320	cy. of	Crushed	@	$15.58	per c.y.=	$4,985.60	
Landing Rock		6+35	80	cy. of	Crushed	@	$15.58	per c.y.=	$1,246.40	
									TOTAL ROCK	**$6,232.00**

SPECIAL PROJECTS

Grade and shape road -	6.70	stations @	$15.50	per station	$103.85	
Roll subgrade w/ vibratory roller prior to rocking -	6.70	stations @	$13.20	per station	$88.44	
Grass seed and fertilize -	0.25	acres @	$220.00	per acre	$55.00	
				TOTAL SPECIAL PROJECTS		**$247.29**

GRAND TOTAL **$17,159.29**

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

Sale: **The Hoevet**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
48.0	Pavement	30
9.0	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	Drill & Compressor	$690.79		$46.00	0.00	0.00	0	$0.00	$690.79
2	Excavators (Large)	$2,025.31	1	$44.80	0.00	13.50	13.5	$1,209.60	$3,234.91
2	Tractors (D7)	$1,795.51	2	$11.30	0.00	13.50	13.5	$305.10	$2,100.61
2	Dump Truck (10 cy +)	$484.00		$2.85	0.00	13.50	13.5	$76.95	$560.95
2	Dump Truck (Off Hiway)	$1,606.91	1	$4.75	0.00	13.50	13.5	$128.25	$1,735.16
2	Water Truck (2500 Gal)	$463.26		$2.85	0.00	13.50	13.5	$76.95	$540.21
					TOTAL MOVE-IN COSTS:				$8,862.63

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	South Side	Location:	SW 1/4 Sec. 31, T3N, R7W, W.M.		
Sale:	**The Hoevet**		Road:		2930 c.y.
Swell:	1.40		Stockpile:		c.y.
Shirinkage	1.16		Total Truck Loads:		2930 c.y.
Drill Pct.:	0%		In Place Total:		2093 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.							$1,000.00
Rip Rock:	$1.90	/cu.yd.	x	2093	cu.yds.	=	$3,976.70
Load Dump Truck:	$0.70	/cu.yd.	x	2930	cu.yds.	=	$2,051.00
					Subtotal		$7,027.70

Move in Roller and Compactor	1	@	$596.85	=	$596.85
Move in Grader	1	@	$208.05	=	$208.05
Move in D-8	1	@	$885.96	=	$885.96
Move in Excavator	1	@	$975.86	=	$975.86
Move in Trucks	3	@	$197.06	=	$591.18
				Subtotal	$3,257.90
			TOTAL PRODUCTION COSTS		$10,285.60

Base Cost= $3.51 Per Cu.Yd.

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
O to P 0 1250 (Pit-Run)	1.65	1.10	3.51	6.26	670		$4,194.20
O to P Fill Material (Pit-Run)	1.57	1.10	3.51	6.18	200		$1,236.00
O to P Landing Rock (Pit-Run)	1.60	1.10	3.51	6.21	80		$496.80
O to P Junction Rock (Pit-Run)	1.56	1.10	3.51	6.17	20		$123.40
Q to R 0 1540 (Pit-Run)	1.78	1.10	3.51	6.39	830		$5,303.70
Q to R Landing Rock (Pit-Run)	1.90	1.10	3.51	6.51	80		$520.80
Q to R Junction Rock (Pit-Run)	1.66	1.10	3.51	6.27	20		$125.40
S to T 0 1750 (Pit-Run)	1.99	1.10	3.51	6.60	930		$6,138.00
S to T Landing Rock (Pit-Run)	1.96	1.10	3.51	6.57	80		$525.60
S to T Junction Rock (Pit-Run)	1.86	1.10	3.51	6.47	20		$129.40
				Total C.Y.	2930	Sub Total	$18,793.30

TOTAL ROCKING COSTS	$18,793.30

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	North Side	Location:	SE 1/4 Sec. 25, T3N, R8W, W.M.	
Sale:	**The Hoevet**		Road:	6790 c.y.
Swell:	1.40		Stockpile:	c.y.
Shirinkage	1.16		Total Truck Loads:	6790 c.y.
Drill Pct.:	60%		In Place Total:	4850 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. $12,073.48

Drill & Shoot:	$2.50	/cu.yd.	x	2910	cu.yds.	=	$7,275.00
Rip Rock:	$1.90	/cu.yd.	x	1940	cu.yds.	=	$3,686.00
Push Rock:	$0.70	/cu.yd.	x	6790	cu.yds.	=	$4,753.00
Load Crusher:	$0.70	/cu.yd.	x	6790	cu.yds.	=	$4,753.00
Crush Rock 4":	$2.35	/cu.yd.	x	3800	cu.yds.	=	$8,930.00
Crush Rock 2.5":	$2.70	/cu.yd.	x	3680	cu.yds.	=	$9,936.00
Load Dump Truck:	$0.70	/cu.yd.	x	6790	cu.yds.	=	$4,753.00
Oversize Reduction:	$4.50	/cu.yd.	x	0	cu.yds.	=	$0.00
						Subtotal	$56,159.48

Move In/Set-up Crusher	1	@	$2,400		$2,400.00
Move In and set up Drill and Compressor	1	@	$596.85	=	$596.85
Move in Roller and Compactor	1	@	$596.85	=	$596.85
Move in Grader	1	@	$208.05	=	$208.05
Move in D-8	1	@	$885.96	=	$885.96
Move in Loader	1	@	$741.36	=	$741.36
Move in Excavator	1	@	$975.86	=	$975.86
Move in Trucks	4	@	$197.06	=	$788.24
Move in Water Truck	1	@	$231.63	=	$231.63
Change Gradation	1	@	$207.00		$207.00
				Subtotal	$7,631.80

		TOTAL PRODUCTION COSTS	$63,791.28
Base Cost=	$9.39 Per Cu.Yd.		

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
C to D Spot Rock (Crushed)	3.10	2.45	9.39	14.94	200		$2,988.00
E to F 0 3740 (Crushed)	1.54	2.45	9.39	13.38	1310		$17,527.80
E to F Culvert Backfill (Crushed)	1.56	0.75	9.39	11.70	30		$351.00
E to F Landing Rock (Crushed)	1.64	2.45	9.39	13.48	160		$2,156.80
G to H 9842 13342 (Crushed)	3.66	2.45	9.39	15.50	1230		$19,065.00
G to H 13242 15210 (Crushed)	3.66	2.45	9.39	15.50	930		$14,415.00
G to H Landing Rock (Crushed)	3.66	2.45	9.39	15.50	80		$1,240.00
G to H Landing Rock (Crushed)	3.66	2.45	9.39	15.50	80		$1,240.00
G to H Spot Rock (Crushed)	3.44	2.45	9.39	15.28	440		$6,723.20
G to H Spot Rock (Crushed)	4.20	2.45	9.39	16.04	120		$1,924.80
I to J 0 2105 (Crushed)	3.85	2.45	9.39	15.69	980		$15,376.20
I to J Landing Rock (Crushed)	4.01	2.45	9.39	15.85	80		$1,268.00
I to J Turnaround Fill/Crib (Pit-Run)	3.70	0.75	4.00	8.45	400		$3,380.00
U to V 0 670 (Crushed)	3.74	2.45	9.39	15.58	320		$4,985.60
U to V Landing Rock (Crushed)	3.74	2.45	9.39	15.58	80		$1,246.40
Helicopter Pad 8" Lift of 2 1/2" - 0"	1.25	2.45	9.39	13.09	350		$4,581.50
				Total C.Y.	6790	Sub Total	$98,469.30

	TOTAL ROCKING COSTS	$98,469.30

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Sibley	Location:	NE 1/4 Sec. 21, T3N, R8W, W.M.	
Sale:	**The Hoevet**		Road:	6280 c.y.
Swell:	1.40		Stockpile:	c.y.
Shirinkage	1.16		Total Truck Loads:	6280 c.y.
Drill Pct.:	100%		In Place Total:	4486 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.							$2,000.00
Drill & Shoot:	$2.50	/cu.yd.	x	4486	cu.yds.	=	$11,215.00
Rip Rock:	$1.90	/cu.yd.	x	0	cu.yds.	=	$0.00
Push Rock:	$0.60	/cu.yd.	x	6280	cu.yds.	=	$3,768.00
Load Crusher:	$0.60	/cu.yd.	x	6280	cu.yds.	=	$3,768.00
Crush Rock:	$3.60	/cu.yd.	x	6280	cu.yds.	=	$22,608.00
Load Dump Truck:	$0.70	/cu.yd.	x	6280	cu.yds.	=	$4,396.00
Oversize Reduction:	$4.50	/cu.yd.	x	0	cu.yds.	=	$0.00
						Subtotal	$47,755.00

Move In/Set-up Crusher	1	@	$5,009		$5,009.00
Move In and set up Drill and Compressor	1	@	$596.85	=	$596.85
Move in Roller and Compactor	1	@	$596.85	=	$596.85
Move in Grader	1	@	$208.05	=	$208.05
Move in D-8	1	@	$885.96	=	$885.96
Move in Loader	1	@	$741.36	=	$741.36
Move in Excavator	1	@	$975.86	=	$975.86
Move in Trucks	4	@	$197.06	=	$788.24
Move in Water Truck	1	@	$231.63	=	$231.63
Change Gradation					
				Subtotal	$10,033.80
			TOTAL PRODUCTION COSTS		$57,788.80

Base Cost= $9.20 Per Cu.Yd.

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
C to D 0 23460 (Crushed)	2.96	2.45	9.20	14.61	5250		$76,702.50
C to D Roadbank Stabilization (Riprap)	0.93	0.60	9.20	10.73	20		$214.60
Stockpile 3/4" - 0" Project 4	0.95	0.30	9.20	10.45	1000		$10,450.00
				Total C.Y.	6280	Sub Total	$87,488.40
					TOTAL ROCKING COSTS		$87,488.40

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Jetty	Location:	SE 1/4 Sec. 34, T3N, R8W, W.M.		
Sale:	**The Hoevet**		Road:		5810 c.y.
Swell:	1.40		Stockpile:		c.y.
Shirinkage	1.16		Total Truck Loads:		5810 c.y.
Drill Pct.:	20%		In Place Total:		4150 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.							$2,000.00
Drill & Shoot:	$2.50	/cu.yd.	x	830	cu.yds.	=	$2,075.00
Rip Rock:	$1.90	/cu.yd.	x	3320	cu.yds.	=	$6,308.00
Push Rock:	$0.70	/cu.yd.	x	13000	cu.yds.	=	$9,100.00
Load Crusher:	$0.70	/cu.yd.	x	5810	cu.yds.	=	$4,067.00
Crush Rock:	$3.00	/cu.yd.	x	5810	cu.yds.	=	$17,430.00
Load Dump Truck:	$0.70	/cu.yd.	x	5810	cu.yds.	=	$4,067.00
Oversize Reduction:	$4.50	/cu.yd.	x	500	cu.yds.	=	$2,250.00
Screen Rock:	$1.50	/cu.yd.	x	1800	cu.yds.	=	$2,700.00
Waste Screen Reject	$2.00	/cu.yd.	x	300	cu.yds.	=	$600.00
						Subtotal	$50,597.00

Move In/Set-up Crusher	1	@	$5,009		$5,009.00
Move In and set up Drill and Compressor	1	@	$596.85	=	$596.85
Move in Roller and Compactor	1	@	$596.85	=	$596.85
Move in Grader	1	@	$208.05	=	$208.05
Move in D-8	1	@	$885.96	=	$885.96
Move in Loader	1	@	$741.36	=	$741.36
Move in Excavator	1	@	$975.86	=	$975.86
Move in Trucks	4	@	$197.06	=	$788.24
Move in Water Truck	1	@	$231.63	=	$231.63
Change Gradation					
				Subtotal	$10,033.80

		TOTAL PRODUCTION COSTS	$60,630.80

Base Cost= $10.44 Per Cu.Yd.

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 47850 59735 (Crushed)	1.94	2.45	10.44	14.83	4140		$61,396.20
A to B Campsite Rock (Crushed)	2.85	2.45	10.44	15.74	170		$2,675.80
A to B Spot Rk 0+00to478+50 (Crushed)	4.56	2.45	10.44	17.45	1500		$26,175.00
K to L 0 750 (Crushed*)	1.55	2.45	0.70	4.70	360		$1,692.00
K to L Landing Rock (Crushed*)	2.21	2.45	0.70	5.36	80		$428.80
M to N 0 800 (Crushed*)	2.48	2.45	0.70	5.63	400		$2,252.00
M to N Landing Rock (Crushed*)	2.59	2.45	0.70	5.74	80		$459.20
M to N Junction Rock (Crushed*)	2.42	2.45	0.70	5.57	20		$111.40
* Rock source is in an existing stockpile @ pit.				Total C.Y.	6750	Sub Total	$95,190.40

TOTAL ROCKING COSTS	$95,190.40

Cost Update 04/05/2007 06/28/2005 11/28/2007
G. Baker Blake

Side cast\Windrow	$ 660	per acre
Scattering	$ 980	per acre
Piling	$ 910	per acre (doesn't include burning)
End Haul	2000	
Roadside Brushing		
Light	$ 600	per mile
Medium	$ 800	per mile
Heavy	$ 1300	per mile

Excavation

Balanced Road Construction	$ 90	per Station
Drifting up to 200'	$ 140	per Station
Landing Construction	$ 285	per landing

	Slopes < 50%		Slopes > 50%		
Common	$ 1.40	per CY	$ 1.40	per CY	Includes load
Rippable Rock	$ 2.25	per CY	$ 3.20	per CY	Includes excavation/load
Drill and Shoot	$ 4.90	per CY	$ 7.50	per CY	Includes excavation/load
Push (up to 250')	$ 0.75	per CY			
Compaction (waste areas)	$ 0.25	per CY			
Compaction (fills)	$ 0.45	per CY			
Construct Waterbar	$ 25.00	ea.			
Construct Rolling Dip	$ 150.00	ea.			
Construct Turn Around	$ 75.00	ea.			
Construct Turn Out	$ 60.00	ea.			
Construct Landing	$ 250.00	ea.			
Load/Place Large Riprap	$ 1.40	per CY (each)			
Remove OG Stumps	$ 75.00	ea.			

Above rates are on a truck (loose) volume basis

Subgrade Prep & Rock Compaction

	Surface			
Activity	Common		Rocky	
Grade & Shape 12'-14' Outsloped	$ 14.00	per sta	$ 19.00	per sta
Grade & Shape 14'-16' Crowned W/ Ditch	$ 15.50	per sta	$ 20.00	per sta
Roll Subgrade Prior to Rocking (Vib)	$ 13.20	per sta		
Proof-roll subgrade prior to rocking	$ 4.70	per sta		
Rip Road & Remove Boulders (1' below SG)			$ 35.00	per sta (added on to basic road building cost)
Pull ditch & endhaul waste material (<500')	$ 60.00	per sta		
Pull ditch & endhaul waste material (<1000')	$ 80.00	per sta		
Pull ditch & endhaul waste material (<2000')	$ 100.00	per sta		
Process Pit-Run Rock(W/ Cat only)	$ 0.75	per CY		
Process Pit-Run Rock(W/ Cat & Roller)	$ 1.10	per CY		
Process Crushed Rock	$ 2.45	per CY		

Rock Crushing & Pit Development Costs

Drill & Shoot (Down holes)	$ 2.50	per CY	Crushing 3/4"	$ 3.60	per CY
Drill & Shoot (Lifters)	$ 4.60	per CY	Crushing 1 1/2"	$ 3.00	per CY
Rip Rock	$ 1.90	per CY	Crushing 2"	$ 2.80	per CY
Push Rock	$ 0.70	per CY	Crushing 3"	$ 2.60	per CY
Load Crusher	$ 0.70	per CY	Crushing 4"	$ 2.35	per CY
Load Dump Truck	$ 0.70	per CY	Screening 10"-3" Drain Rock	$ 3.40	per CY
Oversize Reduction	$ 4.50	per CY	Screening OB W/ plant	$ 2.60	per CY
Change Gradation	$ 210.00		Shape Stock Pile	$ 1.25	per CY
Setup Jaw	$ $733.00		Setup Screening Plant	$ 395.00	
Setup 2-Stage Crusher	$ $1,598.00				
Setup 3-Stage Crusher	$ $2,520.00				

Culverts

(Plastic) Updated 6/13/05

Diameter (Inches)	Thickness (Gage)	$/ft (materials only)	Bands/ea.	Installation & Materials (Typical)
18	N/A	$ 11.50	$ 19.00	$ 17.50 per ft
24	N/A	$ 21.00	$ 33.00	$ 27.00 per ft
30	N/A	$ 28.00	$ 73.00	$ 36.00 per ft
				Cost culverts over 30" on an individual basis & installation cost
				Bevel (1:1)
36	N/A	$ 33.00		$ 43.00
				Call for quote on culverts over 36"

Slope Protection

Halfrounds	Materials		Materials + Installation	
21"	$ 0.00	per ft	$ 18.90	per foot
30"	$ 0.00	per ft	$ 25.20	per foot

Plastimate Culvert Sleave (Elephant Trunk)				
18"	$ 0.00	per ft	$	per foot
24"	$ 10.35	per ft	$ 13.00	per foot

Halfround Stakes	$ 8.00	ea.
Culvert Markers	$ 8.00	ea.

Geotextiles & Subdrains

	Material Only		Material + Installation (Typical)		Comments
Woven (Mirafi 600X, Contech C300)	$ 0.75	sq. yd.	$ 0.95	sq. yd.	SG Stabilization, Heavy duty (low flow rate)
Woven (Mirafi 500X, Contech C200)	$	sq. yd.	$	sq. yd.	SG Stabilization, Medium duty (low flow rate)
Woven (Mirafi 700GX)	$ 1.20	sq. yd.	$ 1.40	sq. yd.	SG Stabilization, Heavy duty (med. flow rate)
Geogrid (Tensar BX1100)	$ 1.95	sq. yd.	$ 2.15	sq. yd.	SG Stabilization, Extra heavy duty (high flow rate)
Nonwoven(Mirafi 140NL, Con. C-40NW) 0NW)	$ 0.60	sq. yd.	$ 0.95	sq. yd.	Subdrain separation (High flow rate)
12" Alumanized Perf Pipe	$ 6.35	ft			
18" Aluminized Perf Pipe	$ 11.80	ft			

Erosion Control

Straw Bales	$ 4.50	ea.
Bio-Bags	$ 5.00	ea.
Grass Seeding & Fertilizing (Hand)	$ 220.00	Acre
Straw Mulching (Hand)	$ 600.00	Acre
Hydo-Mulching & Seeding	$ 1000.00	Acre (Minimum 5 Acres, includes mobilization)
Volume Pump Rental\Operation (3")	$ 75.00	Day (includes operation)
Flexible PVC Pipe	$	per foot
Silt Fencing	$ 4.00	per foot (includes installation/disposal)

Equipment Rates

Excavators

Small (C205,C312)	$ 95.00	per Hr W/ Operator
Medium (C225,C325)	$ 125.00	per Hr W/ Operator
Large (C231,C330)	$ 145.00	per Hr W/ Operator

Dozers

D6	$ 95.00	per Hr W/ Operator
D7 W/ Winch	$ 135.00	per Hr W/ Operator
D8 W/ Winch or Ripper	$ 145.00	per Hr W/ Operator

Rubber Tired Backhoes

Small (416, C580)	$ 60.00	per Hr W/ Operator
Medium (436, JCB)	$ 75.00	per Hr W/ Operator

Front End Loaders

Small (C950)	$ 75.00	per Hr W/ Operator
Medium (C966)	$ 90.00	per Hr W/ Operator
Large (C980)	$ 105.00	per Hr W/ Operator

Graders

Small (12G)	$ 80.00	per Hr W/ Operator
Medium (14G)	$ 90.00	per Hr W/ Operator
Large (16G)	$ 95.00	per Hr W/ Operator

Compaction Equipment

Vibratory Roller\Grid Roller	$ 85.00	per Hr W/ Operator
Sheeps Foot Roller (Tow Behind)	$ 75.00	per Day
Hydraulic Tamper Attachment	$ 80.00	per Day
Rubber Tired Skidder (C518)	$ 65.00	per Hr W/ Operator
Laborer (General)	$ 30.00	per Hr
Hand Held Vibratory Compactor	$ 45.00	per Day (Doesn't include labor)

Drills

Air Track (2"-3 1/2" Holes)	$ 120.00	per Hr W/ Operator
Hydraulic (3 1/2"-6" Holes)	$ 225.00	per Hr W/ Operator
Jack Hammer	$ 50.00	per Day (Doesn't include labor)
Welder	$ 70.00	per Day (Doesn't include labor)

Trucks

10-12 CY Highway Dump	$ 70.00	per Hr W/ Operator
20 CY Highway (Belly or Pup & Trailer)	$ 86.00	per Hr W/ Operator
25 CY Off Highway Dump	$ 105.00	per Hr W/ Operator

Water Truck (1,500 Gal)		$ 65.00	per Hr W/ Operator
Water Truck (2,500 Gal)		$ 75.00	per Hr W/ Operator
Lowboy (5 Axle)		$ 140.00	per Hr W/ Operator
Lowboy (9 Axle)		$ 160.00	per Hr W/ Operator
Tilt bed truck/trailer		$ 85.00	per Hr W/ Operator
Pickup		$ 45.00	per Hr W/ Operator
60 Ton Crane		$ 0.00	per Hr W/ Operator
90 Ton Crane		$ 0.00	per Hr W/ Operator
120 Ton Crane		$ 0.00	per Hr W/ Operator
NEW STUFF			
	Compaction (Fills)	$ 0.35	per CY

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
The Hoevet

1. Type of Sale

Regeneration harvest, Recovery.

2. Legal Description

Portions of Section 6, T2N, R7W, and Sections 1, 2, 4, 5, 6, 8, and 9, T2N, R8W, and Sections 1, T2N, R9W,and Sections 35 and 36, T3N, R9W, and Sections 25, 34, 35, and 36, T3N, R8W, W.M., Tillamook County, Oregon.

3. Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

	ACRES	
	Gross	**Net**
Area 1 (Clearcut)	119	107
Area 2 (Clearcut)	144	106
Area 3 (Clearcut)	161	119
Area 4 (Clearcut)	24	15
Area 5 (Clearcut)	71	67
Area 6 (Road Daylighting)	21	12

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

Areas 1 through 5 were fully cruised with 76 variable plots. Area 6 (Right of Way) was strip cruised with 25 plots. Full cruise plots were sampled at a spacing of 700’ x 350’. All conifers 8 inches DBH and greater containing 20 net board feet and all hardwoods 9 inches DBH and greater containing 30 net board feet were recorded on all plots. Species were recorded on all trees and measured for merchantable bole height, diameter, defect, and form factor. Merchantable heights were recorded to 6” and 7” outside bark for conifers and hardwoods respectively.

B. Plot size

A basal area factor of 33.61 was used for Areas 1-5. Point of observation was 4.5 feet.

C. Grading System

All species were graded using Columbia River Log Scaling and Grading Bureau rules favoring a 40' log.

5. Computation Procedure

The volume and statistics for the timber cruised were computed using SuperACE 2008 developed by Atterbury Consultatnts, Inc. The standard error and the coefficient of variation for the cruise as based on net board feet per acre shown in the table below.

Cruise Statistics (Net/BF Volume Per Acre)			
Area	Number of Plots	SE (%)	CV (%)
1	18	14.3	59.1
2	22	13.4	61.4
3	20	13.7	59.8
4	2	26.8	28.6
5	14	19.1	69.0
6	25	16.8	82.2
Total	101	9.4	94.7

6. Hidden Defect and Breakage

A 5% reduction was applied to conifers and a 10% reduction to hardwood volumes for hidden defect and breakage. This was in addition to visual defect deducted during the cruise.

7. Timber Description

A very small portion of Area 2 was burned in the Tillamook fire in 1933. The entire sale area was burned in the 1945 Wilson River/Salmonberry fire. Alder in the south ¼ of Area 2 was aerially sprayed in 1970's resulting in short boles and multiple tops. Area 1 was seeded in 1959 and 1960. Area 2 was planted in 1960 and 1961. Area 3 history is unknown. Areas 4 and 5 were planted in 1959 and 1960. Portions of Area 3 were commercially thinned in 1999 as part of "Cook Shack" timber sale.

Sale Area – Species (% by volume)	DBH	Merchantable Bole Height	Merchantable Top
Area 1: Douglas Fir 86%	16.3	56	5”
Area 1: Red Alder 14%	13.4	34	6”
Area 2: Red Alder 49%	13.4	43	6”
Area 2: Douglas Fir 51%	17.6	64	5”
Area 3: Douglas Fir 73%	17.3	61	5”
Area 3: Alder 13%	14.3	39	6”
Area 3: Hemlock 14%	16.7	75	5”
Area 4: Douglas Fir 100%	13.3	46	5”
Area 5: Douglas Fir 78%	13.5	54	5”
Area 5: Alder 22%	14.0	52	6”
Area 6: Douglas Fir 7%	18.5	41	5”
Area 6: Alder 93%	14.9	37	6”

8. Cruiser Names/Dates

Cruised by Contractor in 2012

9. Revenue Distribution

FDF 100%

Tax Code: 56-1

Deed Numbers: 35, 70

10. Attachments

Volume Summaries

Stand Table Summaries

Log Stock Tables

Logging Plan Exhibits

11. Stand and Log Stock Tables Species Key

DF – Douglas-fir take
NL – Noble fir leave
NF – Noble fir take
RA – Red alder take
RC – Western red cedar reserved
SS – Sitka spruce take
WH – Western hemlock take
OC cruised snag in decay class I or II.
CW cruised snags in decay class III, IV, and V.

TC TLOGSTVB

Log Stock Table - MBF

Project: THEHOVET

T03N R08W S34 T0100

T03N R08W S34 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	34	AREA 1	0100	107.00	18	99

Page 1
Date 2/5/2014
Time 2:33:24PM

Spp	ST	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	40	467	6.6	437	35.3						121		150	119	46		
DF		CO	3	30	13	12.3	12	.9						12						
DF		CO	3	32	153	10.6	137	11.1				85	52							
DF		CO	3	40	475	8.6	434	35.1			39	80	292	23						
DF		CO	4	13	1	5.0	1	.1			1									
DF		CO	4	15	7	5.0	7	.5			7									
DF		CO	4	16	7	5.0	7	.6		7										
DF		CO	4	18	4	5.0	4	.3		4										
DF		CO	4	19	10	5.0	10	.8		8	2									
DF		CO	4	20	14	5.0	13	1.1		13	1									
DF		CO	4	21	15	5.0	14	1.1		13	1									
DF		CO	4	22	12	5.0	11	.9		11										
DF		CO	4	23	3	5.0	3	.2		2	1									
DF		CO	4	24	15	21.4	11	.9		10			2							
DF		CO	4	25	5	5.0	5	.4		5										
DF		CO	4	26	12	5.0	12	.9		12										
DF		CO	4	28	23	5.0	22	1.8		22										
DF		CO	4	29	5	5.0	5	.4		5										
DF		CO	4	30	4	5.0	4	.3		4										
DF		CO	4	32	6	5.0	6	.5		6										
DF		CO	4	34	7	5.0	7	.6		7										
DF		CO	4	35	14	5.0	14	1.1		14										
DF		CO	4	36	9	9.6	8	.6		6	2									
DF		CO	4	37	11	5.0	10	.8		10										
DF		CO	4	38	4	5.0	4	.3		4										
DF		CO	4	39	6	5.0	6	.5		6										
DF		CO	4	40	37	5.0	36	2.9		36										
DF		Totals			1,340	7.8	1,236	89.0		201	52	165	358	144	150	119	46			
RA		H	3	32	14	17.5	12	9.4					12							
RA		H	3	40	36	12.8	31	25.3					31							
RA		H	4	14	2	55.0	1	.8			1									
RA		H	4	20	7	10.0	7	5.4			7									
RA		H	4	21	3	40.0	2	1.6			2									
RA		H	4	22	9	32.5	6	5.2			6									
RA		H	4	23	7	10.0	6	5.1			6									
RA		H	4	25	8	40.0	5	4.1			5									
RA		H	4	29	10	18.6	8	6.4			8									
RA		H	4	32	20	14.0	17	13.8			17									
RA		H	4	34	7	10.0	6	5.2			6									
RA		H	4	35	18	26.1	13	10.6			13									
RA		H	4	36	10	10.0	9	7.2			9									
RA		Totals			152	18.7	124	8.9			81		43							
NF		CO	4	34	8		8	50.4		8										
NF		CO	4	35	8		8	49.6		8										
NF		Totals			15		15	1.1		15										
SS		CO	2	20	12		12	92.0								12				
SS		CO	4	16	1		1	8.0			1									
SS		Totals			13		13	.9			1					12				

TC TLOGSTVB

Log Stock Table - MBF

Project: **THEHOVET**

T03N R08W S34 T0100

T03N R08W S34 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	34	AREA 1	0100	107.00	18	99

Date **2/5/2014**

Time **2:33:24PM**

Spp	S T	So Gr rt de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
Total All Species				1,521	8.7	1,388	100.0		216	134	165	401	144	150	131	46			

TC TLOGSTVB

Log Stock Table - MBF

Project: THEHOVET

T02N R08W S02 T0100

T02N R08W S02 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	08W	02	AREA 2	0100	106.00	22	91

Page 1
Date 2/6/2014
Time 8:18:19AM

Spp	ST	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RA		H	2	30	14	10.0	13	2.3						13						
RA		H	2	36	14	20.0	11	1.9						11						
RA		H	2	40	18	19.0	15	2.6						15						
RA		H	3	30	30	13.8	25	4.5					25							
RA		H	3	32	45	10.0	40	7.2					40							
RA		H	3	34	16	10.0	14	2.5					14							
RA		H	3	40	18	20.0	15	2.6					15							
RA		H	4	12	13	36.3	8	1.5			8									
RA		H	4	14	9	21.2	7	1.3			7									
RA		H	4	16	4	40.0	2	.4			2									
RA		H	4	18	3	40.0	2	.3			2									
RA		H	4	22	16	25.3	12	2.1			7	5								
RA		H	4	24	4	10.0	4	.7			4									
RA		H	4	26	19	10.0	17	3.1			17									
RA		H	4	28	52	16.6	43	7.7			43									
RA		H	4	30	33	10.0	29	5.2			20	10								
RA		H	4	32	17	20.3	13	2.3			13									
RA		H	4	34	64	10.0	57	10.2			32	26								
RA		H	4	36	55	12.9	48	8.5			48									
RA		H	4	38	49	22.9	38	6.7			38									
RA		H	4	40	174	14.6	149	26.4			117	31								
RA		Totals			665	15.4	562	42.8			358	71	95	39						
DF		CO	2	40	435	6.3	408	54.2						111		61	212	23		
DF		CO	3	32	54	5.0	52	6.9			14		31	6						
DF		CO	3	34	24	5.0	23	3.1			2	15	6							
DF		CO	3	40	188	6.4	176	23.4			22	26	127							
DF		CO	4	15	1	5.0	1	.1			1									
DF		CO	4	16	7	5.0	6	.8		6										
DF		CO	4	18	4	5.0	4	.5		2	2									
DF		CO	4	20	4	5.0	4	.5		3	1									
DF		CO	4	22	3	5.0	3	.4		2	1									
DF		CO	4	24	13	5.0	12	1.6		11	1									
DF		CO	4	26	3	5.0	3	.4		3										
DF		CO	4	28	7	5.0	7	.9		7										
DF		CO	4	30	2	5.0	2	.3		2										
DF		CO	4	32	11	5.0	10	1.4		10										
DF		CO	4	34	16	11.1	14	1.9		14										
DF		CO	4	36	5	5.0	5	.6		5										
DF		CO	4	38	10	5.0	9	1.2		9										
DF		CO	4	40	14	5.0	13	1.8		13										
DF		Totals			801	6.2	752	57.2		88	44	41	165	117		61	212	23		
Total All Species					1,466	10.4	1,314	100.0		88	402	112	260	155		61	212	23		

TC TLOGSTVB

Log Stock Table - MBF

Project: THEHOVET

T03N R08W S36 T0100

T03N R08W S36 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	36	AREA 3	0100	119.00	20	103

Page 1
Date 2/6/2014
Time 8:27:55AM

Spp	ST	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	32	22	5.0	21	1.2						21						
DF		CO	2	40	1,131	9.1	1,028	59.2						217	247	458	106			
DF		CO	3	12	5	5.0	5	.3						5						
DF		CO	3	13	3	5.0	3	.1		1	1									
DF		CO	3	24	7	5.0	6	.4							6					
DF		CO	3	25	6	5.0	6	.3						6						
DF		CO	3	28	16	5.0	15	.9				10	5							
DF		CO	3	32	50	12.8	44	2.5			3	24	17							
DF		CO	3	36	10	5.0	9	.5					9							
DF		CO	3	40	402	6.0	378	21.8			80	132	166							
DF		CO	4	14	2	5.0	2	.1			2									
DF		CO	4	15	1	5.0	1	.1		1										
DF		CO	4	16	62	13.6	53	3.1		25	2		4	8		14				
DF		CO	4	18	5	5.0	5	.3		5										
DF		CO	4	19	1	5.0	1	.0			1									
DF		CO	4	20	36	7.6	33	1.9		13	5	4		11						
DF		CO	4	22	2	5.0	2	.1		2										
DF		CO	4	24	22	37.6	14	.8		5	3					6				
DF		CO	4	26	8	5.0	8	.4		8										
DF		CO	4	28	27	5.0	26	1.5		23	2									
DF		CO	4	32	19	5.0	18	1.0		18										
DF		CO	4	34	14	5.0	13	.7		13										
DF		CO	4	36	3	5.0	3	.2		3										
DF		CO	4	38	5	5.0	5	.3		5										
DF		CO	4	40	47	21.3	37	2.1		14							23			
DF		Totals			1,906	9.0	1,735	76.9		137	100	169	201	268	254	478	129			
RA		H	3	30	13	16.9	11	4.9					11							
RA		H	3	34	15	22.0	12	5.3					12							
RA		H	3	36	14	43.7	8	3.7					8							
RA		H	3	40	61	11.5	54	25.1					54							
RA		H	4	12	6	55.0	3	1.2			3									
RA		H	4	16	3	40.0	2	.9			2									
RA		H	4	18	9	10.0	8	3.6			8									
RA		H	4	20	3	10.0	3	1.2			3									
RA		H	4	24	18	10.0	16	7.6			5	11								
RA		H	4	26	10	10.0	9	4.0			9									
RA		H	4	30	27	16.7	22	10.4			22									
RA		H	4	32	20	25.0	15	6.8			15									
RA		H	4	34	9	10.0	8	3.7			8									
RA		H	4	36	13	10.0	11	5.2			11									
RA		H	4	38	8	22.9	6	2.7			6									
RA		H	4	40	35	16.0	30	13.7			9	20								
RA		Totals			263	17.5	217	9.6			100	32	85							
WH		CO	2	40	167	11.0	149	54.7						69	24	55				
WH		CO	3	40	104	7.3	97	35.5			45	10	42							
WH		CO	4	16	10	5.0	9	3.4		8	2									
WH		CO	4	20	2	5.0	2	.7		2										
WH		CO	4	32	8	24.0	6	2.2			6									
WH		CO	4	40	10	5.0	10	3.5		10										

TC TLOGSTVB

Log Stock Table - MBF

Project: **THEHOVET**

T03N R08W S36 T0100

T03N R08W S36 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	36	AREA 3	0100	119.00	20	103

Page 2
Date 2/6/2014
Time 8:27:55AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
WH		Totals			302	9.7	273	12.1		19	52	10	42	69	24	55				
OC		CO	4	32	23	28.1	16	100.0								16				
OC		Totals			23	28.1	16	.7								16				
BM		H	2	20	12		12	76.9						12						
BM		H	4	20	4		4	23.1			4									
BM		Totals			15		15	.7			4			12						
Total All Species					2,509	10.1	2,256	100.0		156	256	211	328	349	278	549	129			

TC TLOGSTVB

Log Stock Table - MBF

Project: **THEHOVET**

T03N R08W S36 T0100

T03N R08W S36 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	36	AREA 4	0100	15.00	2	9

Page 1
Date 2/6/2014
Time 8:30:37AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	34	26	5.0	24	12.3						24						
DF		CO	2	40	24	5.0	23	11.4						23						
DF		CO	3	40	124	10.3	111	56.0			39	22	50							
DF		CO	4	16	6	5.0	5	2.7	5											
DF		CO	4	24	22	5.0	21	10.8	21											
DF		CO	4	25	4	5.0	3	1.7	3											
DF		CO	4	28	10	5.0	10	5.0	10											
DF		Totals			215	8.0	198	100.0	40		39	22	50	47						
Total All Species					215	8.0	198	100.0	40		39	22	50	47						

TC TLOGSTVB

Log Stock Table - MBF

Project: THEHOVET

T03N R08W S36 T0100

T03N R08W S36 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	36	AREA 5	0100	67.00	14	59

Page 1
Date 2/6/2014
Time 8:35:57AM

Spp	ST	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	40	141	6.7	131	17.9						74		36		21		
DF		CO	3	32	3	5.0	3	.4			3									
DF		CO	3	36	16	18.6	13	1.8					13							
DF		CO	3	38	37	5.0	35	4.7			35									
DF		CO	3	40	444	6.5	415	56.7			182	117	116							
DF		CO	4	14	1	5.0	1	.1		1										
DF		CO	4	15	4	5.0	3	.5		3										
DF		CO	4	16	6	5.0	6	.8			6									
DF		CO	4	20	2	5.0	2	.3		2										
DF		CO	4	22	16	1.5	16	2.1		5	11									
DF		CO	4	25	5	5.0	5	.6		5										
DF		CO	4	27	2	5.0	2	.3		2										
DF		CO	4	28	21	5.0	20	2.7		20										
DF		CO	4	30	5	5.0	5	.7			5									
DF		CO	4	32	4	5.0	4	.6		4										
DF		CO	4	36	29	5.0	27	3.7		27										
DF		CO	4	37	3	5.0	3	.3		3										
DF		CO	4	38	24	5.0	23	3.1		23										
DF		CO	4	40	20	5.0	19	2.6		19										
DF		Totals			782	6.3	732	80.3		114	242	117	129	74		36		21		
RA		H	3	32	20	10.0	18	9.8					18							
RA		H	3	40	20	10.0	18	10.3					18							
RA		H	4	15	3	10.0	3	1.7			3									
RA		H	4	17	3	10.0	3	1.4			3									
RA		H	4	20	3	10.0	3	1.6			3									
RA		H	4	26	14	10.0	13	7.1				13								
RA		H	4	27	4	10.0	4	2.1			4									
RA		H	4	30	7	32.5	4	2.5			4									
RA		H	4	38	23	10.0	20	11.3			20									
RA		H	4	40	104	10.0	94	52.4			19	74								
RA		Totals			201	10.7	179	19.7			56	87	36							
Total All Species					983	7.2	912	100.0		114	298	204	165	74		36		21		

TC TLOGSTVB

Log Stock Table - MBF

Project: THEHOVET

T03N R08W S35 T0100

T03N R08W S35 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	35	AREA 6	0100	12.00	25	37

Page 1
Date 2/6/2014
Time 8:39:29AM

Spp	ST	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RA		H	2	40	2	10.0	2	9.9						2						
RA		H	3	20	1	10.0	1	5.8								1				
RA		H	3	21	0	10.0	0	1.2			0									
RA		H	3	32	6	10.0	5	24.7				2	1	2						
RA		H	3	35	1	10.0	0	2.1			0									
RA		H	3	38	1	10.0	1	2.5			1									
RA		H	4	14	0	10.0	0	1.6			0									
RA		H	4	15	1	10.0	1	2.5			1									
RA		H	4	18	0	10.0	0	.8			0									
RA		H	4	19	0	10.0	0	.8			0									
RA		H	4	20	0	10.0	0	.8			0									
RA		H	4	23	0	10.0	0	1.2			0									
RA		H	4	24	1	10.0	1	4.9			1	1								
RA		H	4	25	0	10.0	0	1.2			0									
RA		H	4	28	0	10.0	0	1.2			0									
RA		H	4	29	1	10.0	1	4.9			1									
RA		H	4	31	0	10.0	0	1.6			0									
RA		H	4	32	1	10.0	0	2.1			0									
RA		H	4	34	1	10.0	1	4.1			1									
RA		H	4	35	2	10.0	2	8.2			2									
RA		H	4	36	1	10.0	1	2.5			1									
RA		H	4	38	1	10.0	1	4.9			1									
RA		H	4	39	1	10.0	1	4.9			1									
RA		H	4	41	1	10.0	1	5.3			1									
RA		Totals			24	10.0	22	89.0			13	3	1	4	1					
DF		CO	3	32	1	5.0	1	70.0					1							
DF		CO	4	17	0	5.0	0	10.0			0									
DF		CO	4	29	0	5.0	0	20.0			0									
DF		Totals			2	5.0	2	7.7			1		1							
BM		H	4	15	1		1	75.0					1							
BM		H	4	19	0		0	25.0			0									
BM		Totals			1		1	3.3			0		1							
Total All Species					27	9.3	25	100.0			13	3	3	4	1					

TC TSTNDSUM

Stand Table Summary

Project **THEHOVET**

T03N R08W S34 T0100

T03N R08W S34 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	34	AREA 1	0100	107.00	18	99

Page: 1
Date: 02/05/201
Time: 1:58:24PM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		8	1	89	33	4.010	1.54	4.01	4.4	20.0	.51	18	80	54	19	9
DF		9	1	89	17	3.202	1.54	3.20	4.6	20.0	.42	15	64	45	16	7
DF		10	1	89	27	2.774	1.54	2.77	6.1	20.0	.48	17	55	51	18	6
DF		11	1	90	59	2.426	1.54	2.43	13.6	40.0	.94	33	97	101	35	10
DF		12	2	89	57	3.835	3.09	3.84	15.9	49.8	1.74	61	191	186	65	20
DF		13	5	89	63	8.620	7.72	11.94	13.8	40.0	4.70	165	478	503	177	51
DF		14	4	88	57	5.779	6.17	7.22	18.2	51.7	3.74	131	374	400	140	40
DF		15	9	87	75	11.127	13.89	22.25	16.6	59.2	10.54	370	1,317	1,127	396	141
DF		16	8	88	81	9.046	12.35	18.09	20.1	76.8	10.38	364	1,389	1,110	390	149
DF		17	7	87	81	6.895	10.80	13.79	23.1	86.6	9.08	319	1,195	971	341	128
DF		18	8	87	88	7.072	12.35	14.14	27.7	98.4	11.18	392	1,392	1,197	420	149
DF		19	4	83	77	3.213	6.17	5.60	32.6	96.7	5.20	182	541	556	195	58
DF		20	4	87	83	2.924	6.17	5.85	33.4	112.5	5.56	195	658	595	209	70
DF		21	2	87	91	1.297	3.09	2.59	40.3	140.0	2.98	105	363	319	112	39
DF		22	2	86	94	1.164	3.09	2.33	46.2	165.0	3.07	108	384	328	115	41
DF		23	4	87	87	2.122	6.17	4.24	47.7	160.9	5.77	202	683	617	216	73
DF		24	3	86	92	1.474	4.63	2.95	53.9	190.1	4.53	159	561	484	170	60
DF		25	4	86	83	1.823	6.17	3.62	53.4	187.6	5.50	193	679	589	207	73
DF		27	2	87	101	.800	3.09	2.00	58.6	239.9	3.34	117	480	358	126	51
DF		28	1	87	112	.371	1.54	1.11	55.3	233.3	1.76	62	260	188	66	28
DF		29	2	87	123	.685	3.09	2.05	65.6	297.9	3.84	135	612	411	144	65
DF		30	1	86	122	.314	1.54	.94	70.0	323.3	1.88	66	305	201	71	33
DF		Totals	76	88	70	80.973	117.29	136.98	24.9	88.8	97.13	3,408	12,159	10,393	3,647	1,301
RA		10	2	87	51	5.336	3.09	5.34	10.6	35.3	1.55	57	188	166	60	20
RA		11	3	87	42	6.732	4.63	6.73	11.1	36.9	2.05	74	249	219	80	27
RA		13	1	86	26	1.576	1.54	1.58	11.9	30.0	.52	19	47	55	20	5
RA		14	2	85	49	2.956	3.09	2.96	20.0	50.5	1.62	59	149	174	63	16
RA		16	2	85	58	2.211	3.09	3.32	21.3	63.3	1.94	71	210	208	76	22
RA		17	3	86	67	3.033	4.63	5.07	25.1	74.1	3.50	127	376	374	136	40
RA		18	1	86	35	.873	1.54	.87	25.7	30.0	.62	22	26	66	24	3
RA		19	1	84	40	.827	1.54	.83	32.6	50.0	.74	27	41	79	29	4
RA		Totals	15	86	48	23.543	23.15	26.69	17.1	48.2	12.54	456	1,287	1,341	488	138
NF		13	2	88	47	3.593	3.09	3.59	15.9	40.0	1.37	57	144	147	61	15
NF		Totals	2	88	47	3.593	3.09	3.59	15.9	40.0	1.37	57	144	147	61	15
SS		24	1	87	42	.491	1.54	.98	30.7	125.0	.78	30	123	84	32	13
SS		Totals	1	87	42	.491	1.54	.98	30.7	125.0	0.78	30	123	84	32	13
CW		19	1	85	71	.784	1.54									
CW		30	1	87	36	.314	1.54									
CW		34	1	87	18	.245	1.54									
CW		Totals	3	86	53	1.343	4.63									
OC		12	2	88	46	3.980	3.09									
OC		Totals	2	88	46	3.980	3.09									
Totals			99	87	64	113.924	152.79	168.25	23.5	81.5	111.82	3951	13,713	11,965	4,228	1,467

TC TSTNDSUM

Stand Table Summary

Project **THEHOVET**

T02N R08W S02 T0100 **T02N R08W S02 T0100**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	08W	02	AREA 2	0100	106.00	22	91

Page: 1
Date: 02/06/201
Time: 8:17:05AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		11	3	88	58	7.396	4.58	9.71	9.3	37.4	2.56	90	363	271	95	38
DF		12	1	82	49	1.945	1.53	1.95	13.5	40.0	.75	26	78	80	28	8
DF		13	1	90	50	1.793	1.53	1.79	15.1	40.0	.77	27	72	82	29	8
DF		14	1	90	90	1.471	1.53	2.94	16.2	65.0	1.36	48	191	144	51	20
DF		15	2	88	91	2.457	3.06	4.91	20.3	84.9	2.84	100	417	301	106	44
DF		16	3	88	79	3.230	4.58	6.46	20.7	76.4	3.82	134	494	405	142	52
DF		17	1	88	93	.958	1.53	1.92	27.3	105.0	1.49	52	201	158	56	21
DF		18	6	87	88	5.222	9.17	10.44	29.1	102.1	8.66	304	1,066	918	322	113
DF		19	2	85	94	1.569	3.06	3.14	33.6	115.0	3.01	105	361	319	112	38
DF		20	2	88	97	1.401	3.06	2.80	38.7	142.5	3.09	108	399	328	115	42
DF		22	2	86	93	1.127	3.06	2.25	45.6	157.7	2.93	103	355	310	109	38
DF		23	1	87	103	.529	1.53	1.06	53.6	215.0	1.62	57	228	172	60	24
DF		24	2	87	99	.961	3.06	2.40	46.5	190.1	3.18	111	455	337	118	48
DF		25	2	88	112	.896	3.06	2.69	46.2	205.0	3.54	124	551	376	132	58
DF		26	2	88	94	.829	3.06	1.66	64.9	240.0	3.07	108	398	325	114	42
DF		27	4	87	113	1.549	6.11	4.65	53.2	229.2	7.04	247	1,065	746	262	113
DF		28	2	87	105	.741	3.06	1.85	62.6	244.0	3.30	116	452	350	123	48
DF		32	1	88	124	.274	1.53	.82	82.6	390.0	1.93	68	320	205	72	34
DF		Totals	38	87	81	34.346	58.05	63.44	30.4	117.7	54.97	1,929	7,466	5,826	2,044	791
RA		10	2	86	58	5.282	3.06	5.28	11.4	44.9	1.65	60	237	175	64	25
RA		11	6	84	68	14.308	9.17	14.31	14.6	54.5	5.76	209	780	610	222	83
RA		12	6	85	70	12.054	9.17	14.17	15.6	52.5	6.10	222	745	646	235	79
RA		13	4	85	54	6.817	6.11	6.82	18.9	55.1	3.54	129	376	375	137	40
RA		14	13	85	62	18.862	19.86	23.11	21.1	61.2	13.44	489	1,414	1,425	518	150
RA		15	8	85	61	9.935	12.22	13.61	21.2	61.9	7.93	288	842	840	306	89
RA		16	6	84	62	6.684	9.17	9.96	22.2	65.7	6.09	221	654	645	235	69
RA		17	2	85	82	1.998	3.06	4.00	24.2	89.7	2.66	97	358	281	102	38
RA		18	2	86	88	1.759	3.06	3.52	30.2	102.4	2.92	106	360	309	113	38
RA		20	1	87	64	.714	1.53	1.43	28.5	90.0	1.12	41	129	119	43	14
RA		Totals	50	85	64	78.413	76.39	96.20	19.4	61.3	51.20	1,862	5,894	5,427	1,973	625
CW		17	1	74	35	.969	1.53									
CW		55	1	83	39	.093	1.53									
CW		60	1	83	103	.078	1.53									
CW		Totals	3	75	40	1.140	4.58									
Totals			91	86	69	113.898	139.02	159.63	23.7	83.7	106.16	3790	13,360	11,253	4,018	1,416

TC TSTNDSUM

Stand Table Summary

Project **THEHOVET**

T03N R08W S36 T0100

T03N R08W S36 T0100

Page: 1

Date: 02/06/201

Time: 8:25:55AM

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	36	AREA 3	0100	119.00	20	103

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		8	2	80	34	10.683	3.86	10.68	4.0	23.4	1.23	43	250	147	51	30
DF		10	2	90	45	5.148	2.78	5.15	8.9	34.8	1.31	46	179	156	55	21
DF		11	1	79	55	3.609	2.17	3.61	10.9	30.0	1.12	39	108	134	47	13
DF		12	1	86	88	2.337	1.84	4.67	10.9	45.0	1.45	51	210	173	61	25
DF		13	2	88	75	3.580	3.18	5.18	16.5	60.7	2.44	86	315	291	102	37
DF		14	3	87	70	3.808	4.17	6.37	15.7	54.1	2.84	100	344	338	119	41
DF		15	2	87	85	2.264	2.78	4.53	18.7	75.0	2.41	85	340	287	101	40
DF		16	5	87	79	5.500	7.48	11.00	20.0	72.7	6.28	221	800	748	262	95
DF		17	3	86	51	3.408	5.15	3.05	19.0	78.4	1.88	58	239	223	69	28
DF		18	4	86	106	4.164	7.34	9.16	27.4	110.4	7.29	251	1,012	867	299	120
DF		19	4	86	96	3.413	6.58	6.83	33.3	112.6	6.48	227	769	771	271	92
DF		20	4	87	89	3.199	6.94	5.52	35.6	132.5	5.60	197	731	666	234	87
DF		21	2	85	99	1.389	3.27	3.36	33.9	112.5	3.24	114	377	386	135	45
DF		22	4	86	110	2.662	7.02	6.00	46.3	173.5	7.92	278	1,041	942	331	124
DF		23	5	87	129	3.107	8.69	8.17	46.9	202.3	10.92	383	1,654	1,299	456	197
DF		24	5	86	119	2.804	8.73	8.42	39.8	182.7	9.54	335	1,538	1,135	398	183
DF		25	7	87	114	3.267	11.06	8.29	52.7	216.3	12.47	437	1,794	1,484	521	213
DF		26	3	86	96	1.299	4.70	2.96	53.7	195.1	4.67	159	578	556	189	69
DF		27	3	86	122	1.318	5.10	3.48	63.9	277.3	6.33	222	964	753	264	115
DF		28	3	88	118	.998	4.17	3.33	53.6	244.4	5.09	179	814	606	213	97
DF		29	2	86	134	.723	3.27	2.17	70.7	337.0	4.37	153	731	520	182	87
DF		30	1	86	115	.283	1.39	.85	67.5	306.7	1.63	57	260	194	68	31
DF		31	1	87	141	.359	1.84	1.08	61.0	280.0	2.48	66	302	296	78	36
DF		Totals	69	85	79	69.324	113.49	123.86	30.6	123.9	109.00	3,786	15,351	12,971	4,505	1,827
WH		11	1	85	91	2.745	1.88	5.49	10.9	45.0	1.91	60	247	228	71	29
WH		13	1	83	56	2.136	1.97	2.14	21.2	40.0	1.45	45	85	172	54	10
WH		16	1	86	107	1.312	1.88	2.62	22.1	90.0	1.85	58	236	221	69	28
WH		18	1	86	123	1.063	1.88	2.13	34.1	135.0	2.32	73	287	276	86	34
WH		19	2	86	106	1.957	3.71	3.91	38.1	134.9	4.77	149	528	567	177	63
WH		20	1	86	121	.833	1.84	2.50	33.7	130.0	2.69	84	325	320	100	39
WH		24	1	85	116	.617	1.92	1.85	42.2	176.7	2.67	78	327	317	93	39
WH		26	1	86	118	.521	1.88	1.56	55.0	240.0	2.75	86	375	328	102	45
WH		Totals	9	85	97	11.184	16.95	22.20	28.5	108.6	20.42	633	2,411	2,429	753	287
RA		10	1	88	26	2.400	1.39	2.40	7.3	30.0	.48	18	72	57	21	9
RA		11	1	85	46	2.030	1.39	2.03	12.1	40.0	.67	24	81	80	29	10
RA		12	3	87	52	5.135	4.17	5.14	16.1	50.2	2.27	83	258	271	98	31
RA		14	5	86	48	7.020	7.35	7.02	20.4	57.9	3.94	143	406	468	170	48
RA		15	2	85	70	2.729	3.31	4.30	21.6	79.2	2.55	93	340	304	110	40
RA		17	4	86	67	3.550	5.56	5.25	28.4	84.5	4.10	149	444	488	177	53
RA		18	3	85	61	2.415	4.17	4.83	21.9	63.6	2.91	106	307	346	126	37
RA		19	1	82	61	1.049	2.07	1.05	48.2	110.0	1.39	51	115	166	60	14
RA		Totals	20	86	53	26.330	29.39	32.01	20.8	63.2	18.32	666	2,024	2,180	793	241
OC		24	1	85	72	.598	1.88	.60	59.3	230.0	1.09	35	137	129	42	16
OC		Totals	1	85	72	.598	1.88	.60	59.3	230.0	1.09	35	137	129	42	16
BM		16	1	88	56	.995	1.39	1.99	15.3	65.0	.81	30	129	96	36	15
BM		Totals	1	88	56	.995	1.39	1.99	15.3	65.0	0.81	30	129	96	36	15
CW		12	1	86	73	2.337	1.84									
CW		28	1	79	34	.325	1.39									

TC TSTNDSUM

Stand Table Summary

Project **THEHOVET**

T03N R08W S36 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	36	AREA 3	0100	119.00	20	103

Date: 02/06/201
Time: 8:25:55AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
CW		34	1	88	39	.220	1.39									
CW		Totals	3	85	66	2.882	4.61									
Totals			103	86	74	111.313	167.72	180.67	28.5	111.0	149.63	5150	20,053	17,806	6,129	2,386

TC TSTNDSUM

Stand Table Summary

Project **THEHOVET**

T03N R08W S36 T0100

T03N R08W S36 T0100

Page: 1
Date: 02/06/201
Time: 8:28:52AM

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	36	AREA 4	0100	15.00	2	9

Spc	ST	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		9	1	83	52	49.955	19.69	49.95	5.8	30.0	8.29	291	1,499	124	44	22
DF		12	2	86	66	46.124	37.13	46.12	17.1	60.0	22.51	790	2,767	338	118	42
DF		14	1	86	86	18.893	18.78	37.79	13.3	50.0	14.31	502	1,889	215	75	28
DF		16	1	85	93	13.450	18.78	26.90	22.5	80.0	17.25	605	2,152	259	91	32
DF		19	1	87	85	9.725	18.35	19.45	29.8	105.0	16.54	581	2,042	248	87	31
DF		20	1	90	79	7.939	17.15	15.88	33.3	115.0	15.07	529	1,826	226	79	27
DF		21	1	85	70	8.147	19.22	8.15	52.8	210.0	12.25	430	1,711	184	64	26
DF		Totals	8	85	68	154.235	149.10	204.24	18.2	68.0	106.23	3,727	13,887	1,593	559	208
CW		35	1	31	20	21.633	144.54									
CW		Totals	1	31	20	21.633	144.54									
Totals			9	78	62	175.868	293.64	204.24	18.2	68.0	106.23	3727	13,887	1,593	559	208

TC TSTNDSUM

Stand Table Summary

Project **THEHOVET**

T03N R08W S36 T0100 **T03N R08W S36 T0100**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	36	AREA 5	0100	67.00	14	59

Page: 1
Date: 02/06/201
Time: 8:34:54AM

Spc	ST	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		8	1	84	72	7.668	2.81	7.67	8.7	40.0	1.91	67	307	128	45	21
DF		9	1	88	41	5.432	2.56	5.43	6.0	30.0	.93	33	163	62	22	11
DF		10	4	87	76	19.577	10.43	19.58	11.9	50.6	6.64	233	992	445	156	66
DF		11	6	87	69	23.925	15.67	23.93	14.7	56.4	10.05	353	1,350	673	236	90
DF		12	4	87	89	13.266	10.31	20.24	14.3	57.7	8.27	290	1,168	554	194	78
DF		13	4	87	76	10.955	10.37	16.41	16.8	58.4	7.87	276	958	527	185	64
DF		14	2	87	66	4.663	5.12	4.66	23.8	70.0	3.16	111	326	212	74	22
DF		15	4	86	85	8.569	10.55	12.90	21.6	75.0	7.95	279	967	532	187	65
DF		16	2	86	87	3.828	5.24	7.66	21.2	79.7	4.63	163	610	310	109	41
DF		17	5	86	92	8.845	13.35	17.69	24.4	89.2	12.28	431	1,577	823	289	106
DF		18	1	88	62	1.466	2.56	1.47	40.4	120.0	1.69	59	176	113	40	12
DF		19	2	85	74	2.697	5.37	5.39	27.4	92.3	4.21	148	498	282	99	33
DF		20	3	86	93	3.761	7.93	7.52	34.9	114.9	7.47	262	864	501	176	58
DF		21	1	87	83	1.144	2.62	2.29	36.1	115.0	2.35	83	263	158	55	18
DF		22	2	86	86	2.047	5.30	4.09	41.7	136.7	4.86	171	560	326	114	37
DF		25	2	87	73	1.539	5.25	1.57	55.6	210.0	2.50	88	331	167	59	22
DF		26	1	87	102	.733	2.62	1.47	68.3	265.0	2.85	100	389	191	67	26
DF		33	1	88	33	.431	2.56									
DF		42	1	87	76	.266	2.56									
DF		Totals	47	87	76	120.813	123.21	159.96	19.7	71.9	89.62	3,145	11,499	6,004	2,107	770
RA		10	1	87	92	4.807	2.62	4.81	15.4	70.0	2.04	74	336	137	50	23
RA		11	1	86	75	4.198	2.62	4.20	11.6	50.0	1.34	49	210	90	33	14
RA		12	1	86	68	3.177	2.62	3.18	21.1	70.0	1.84	67	222	123	45	15
RA		14	2	86	88	4.952	5.37	9.90	18.0	72.5	4.90	178	718	328	119	48
RA		15	4	86	86	8.737	10.49	15.20	22.0	82.8	9.21	335	1,259	617	225	84
RA		21	1	75	52	1.428	3.44	1.43	58.1	70.0	2.28	83	100	153	56	7
RA		24	1	77	53	1.065	3.26	1.06	77.0	120.0	2.25	82	128	151	55	9
RA		Totals	11	85	81	28.365	30.42	39.78	21.8	74.7	23.87	868	2,973	1,600	582	199
CW		40	1	76	51	.384	3.35									
CW		Totals	1	76	51	.384	3.35									
Totals			59	86	77	149.561	156.98	199.74	20.1	72.5	113.49	4013	14,472	7,604	2,688	970

TC TSTNDSUM

Stand Table Summary

Project **THEHOVET**

T03N R08W S35 T0100

T03N R08W S35 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
03N	08W	35	AREA 6	0100	12.00	25	37

Page: 1
Date: 02/06/201
Time: 8:37:34AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
RA		9	3	80	28	2.500	1.10	2.50	5.7	23.3	.39	14	58	5	2	1
RA		10	1	80	32	.833	.45	.83	7.0	20.0	.16	6	17	2	1	0
RA		12	2	80	57	1.667	1.31	1.67	16.4	50.0	.75	27	83	9	3	1
RA		13	9	79	52	7.500	6.91	8.33	16.7	44.0	3.82	139	367	46	17	4
RA		14	4	80	54	3.333	3.56	4.17	18.8	50.0	2.15	78	208	26	9	3
RA		15	5	79	56	4.167	5.11	5.83	19.7	54.3	3.16	115	317	38	14	4
RA		16	1	80	51	.833	1.16	.83	30.3	60.0	.69	25	50	8	3	1
RA		17	3	80	50	2.500	3.94	2.50	34.0	80.0	2.34	85	200	28	10	2
RA		19	1	80	45	.833	1.64	.83	39.0	60.0	.89	32	50	11	4	1
RA		20	1	80	60	.833	1.82	1.67	27.7	80.0	1.27	46	133	15	6	2
RA		21	2	80	61	1.667	4.01	3.33	30.1	97.5	2.75	100	325	33	12	4
RA		23	1	80	74	.833	2.40	1.67	46.2	130.0	2.12	77	217	25	9	3
RA		Totals	33	80	51	27.500	33.43	34.17	21.8	59.3	20.51	746	2,025	246	89	24
DF		18	1	83	36	.833	1.47	.83	25.7	40.0	.61	21	33	7	3	0
DF		19	1	83	64	.833	1.64	1.67	24.7	80.0	1.17	41	133	14	5	2
DF		Totals	2	83	50	1.667	3.11	2.50	25.0	66.7	1.78	63	167	21	8	2
BM		12	1	80	24	.833	.65	.83	9.3	20.0	.21	8	17	2	1	0
BM		15	1	80	17	.833	1.02	.83	14.2	60.0	.31	12	50	4	1	1
BM		Totals	2	80	20	1.667	1.68	1.67	11.7	40.0	0.52	20	67	6	2	1
Totals			37	80	50	30.833	38.22	38.33	21.6	58.9	22.81	828	2,258	274	99	27

"STEWARDSHIP IN FORESTRY"

The Hoevet

Volume Summary

Area 1-MC				
	107 acres			
	Cruised Net	Cruised Net	Hidden	Net Sale
SPECIES	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	12.2	1301	5%	1236
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	1.3	138	10%	124
TOTAL	13.4	1439		1360

Areas 2-MC				
	106 acres			
	Cruised Net	Cruised Net	Hidden	Net Sale
SPECIES	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	7.4	789	5%	750
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	5.9	625	10%	562
TOTAL	13.3	1414		1312

Areas 3-MC				
	119 acres			
	Cruised Net	Cruised Net	Hidden	Net Sale
SPECIES	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	15.4	1827	5%	1735
Hemlock	2.4	287	5%	273
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	2.0	241	10%	217
TOTAL	19.8	2355		2225

"STEWARDSHIP IN FORESTRY"

The Hoevet

Volume Summary

Areas 4-MC				
		15 acres		
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	13.9	208	5%	198
Hemlock	0.0	0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	0.0	0	10%	0
TOTAL	13.9	208		198

Areas 5-MC				
		67 acres		
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	11.5	770	5%	732
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	3.0	199	10%	179
TOTAL	14.5	970		911

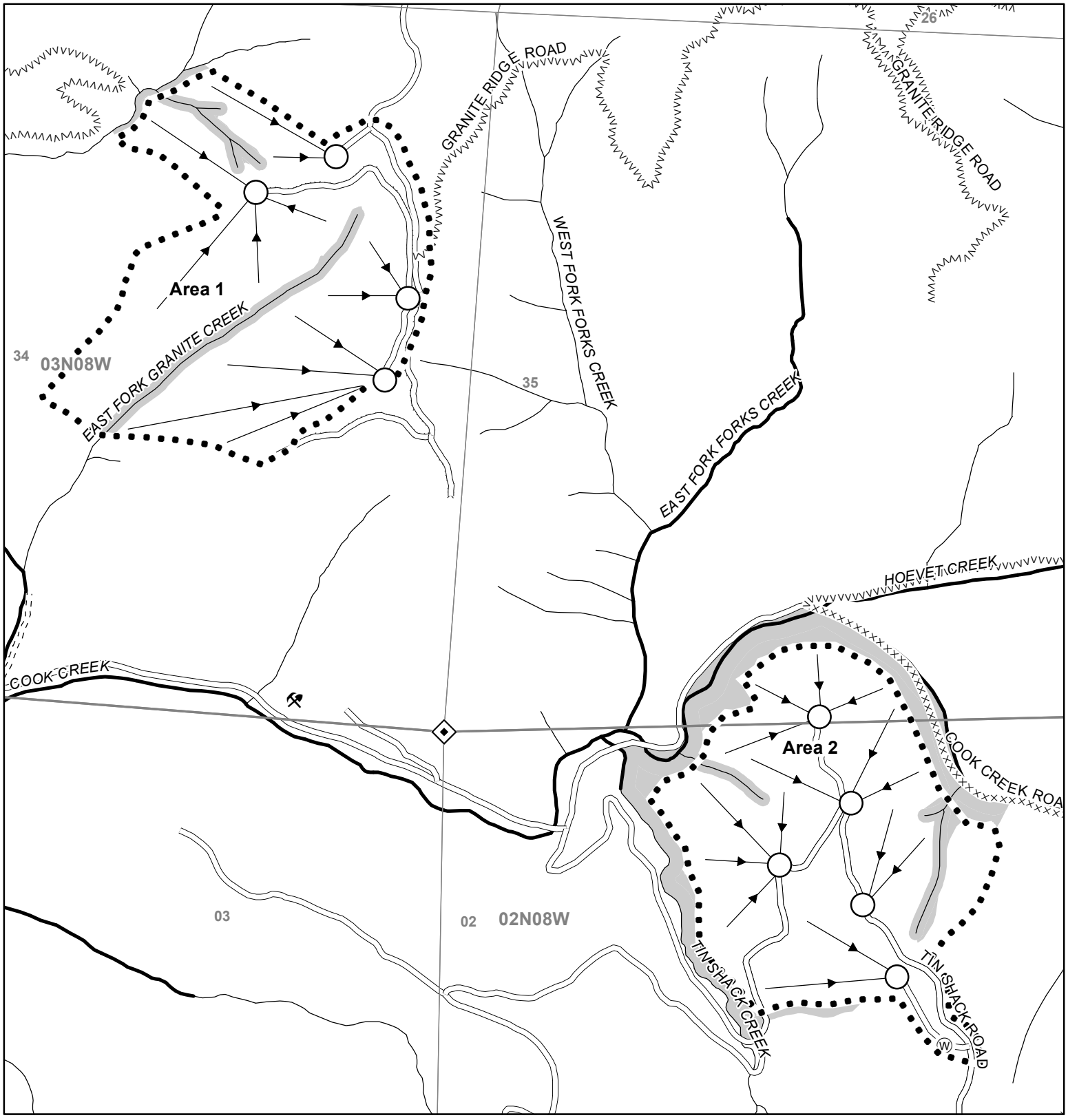
"STEWARDSHIP IN FORESTRY"

The Hoevet

Volume Summary

Areas 6-Road ROW				
		12 acres		
	Cruised Net	Cruised Net	Hidden	Net Sale
SPECIES	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	0.2	2	5%	2
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	2.0	24	10%	22
TOTAL	2.2	26		24

TOTAL SALE VOLUME	426 acres	
SPECIES	Cruised Net (MBF)	Net Sale (MBF)
Douglas-fir	4898	4653
Hemlock	287	272
Spruce	0	0
Noble Fir	0	0
Red Alder	1227	1104
TOTAL	6412	6029



Rock source
Stock pile
Waste area
Bridge
Gate
Survey corner
Domestic water supply intake
Truck turn-around
Helicopter landing zone
Cultural site
Buffer

Cable yarding
Ground yarding
Helicopter yarding
Downhill yarding
Green tree retention area
Restricted area
Area boundary
Sale boundary
Ownership boundary
Cable yarding
Tractor Landing
Yarder Landing

Perennial Type-F stream
Perennial Type-N stream
Unsurfaced road
Surfaced road
Paved road
Abandoned road
Swing road
Non-project road
Blocked road
OHV trail
Non-motorized trail
Transmission line
Railroad

LOGGING PLAN

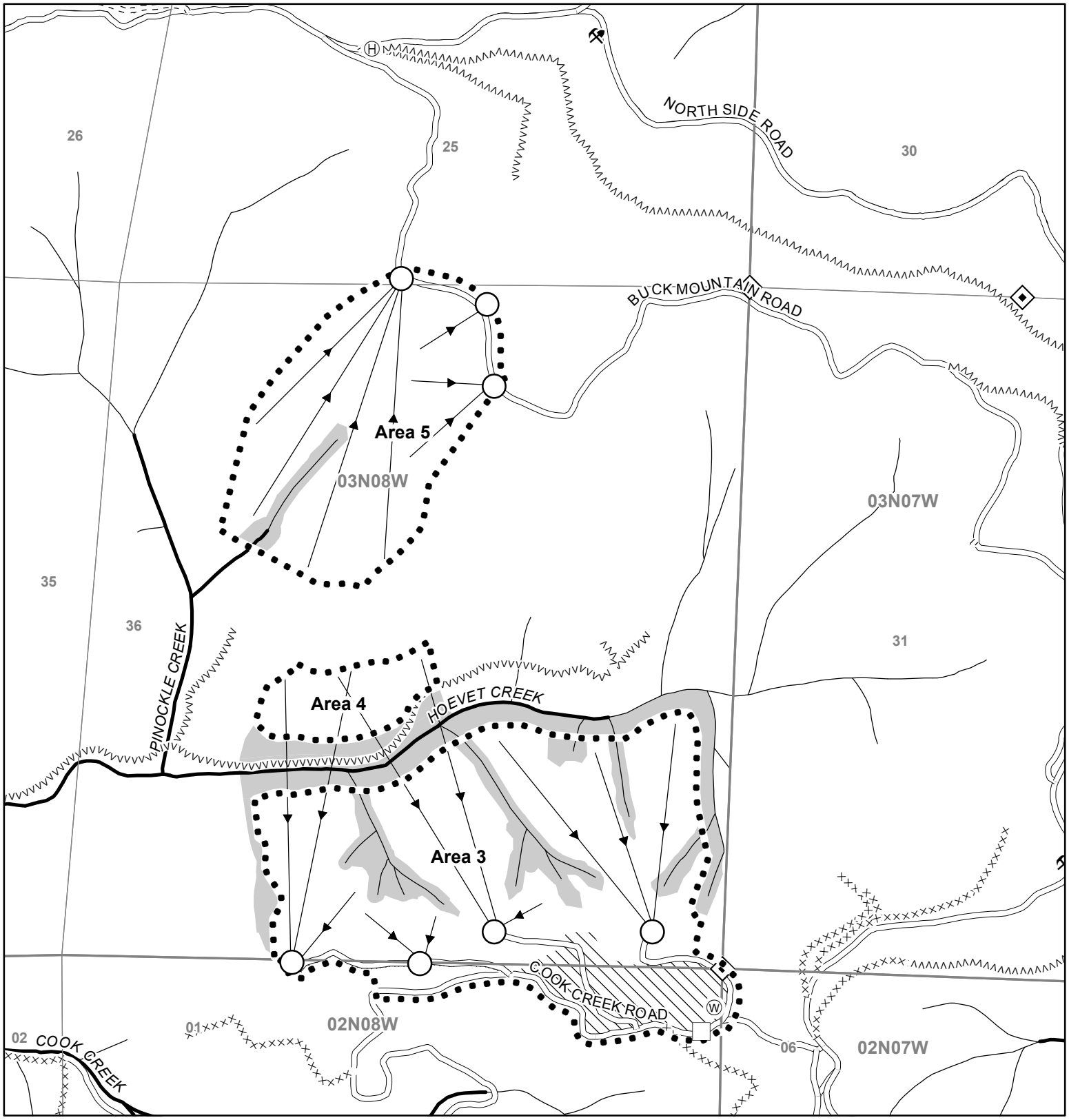
Timber Sale Contract No. 341-14-077
THE HOEVET
Portions of Section 6, T2N, R7W,
Sections 1, 2, 4, 5, 6, 8, 9, T2N, R8W,
Section 1, T2N, R9W,
Sections 25, 34, 35, 36, T3N, R8W, and
Sections 35, 36, T3N, R9W, W.M.,
Tillamook County, Oregon

Area	Type of Operation	Acres Gross	Net
1	Modified Clearcut	119	107
2	Modified Clearcut	144	106
3	Modified Clearcut	161	119
4	Modified Clearcut	24	15
5	Modified Clearcut	71	67
6	Daylighting	21	12
Total		540	426

1,000 0 1,000 Feet

N

Tillamook District GIS
2/11/2014
This product is for informational use and may not have been prepared or suitable for legal, engineering, or surveying purposes.



Rock source
Stock pile
Waste area
Bridge
Gate
Survey corner
Domestic water supply intake
Truck turn-around
Helicopter landing zone
Cultural site
Buffer

Cable yarding
Ground yarding
Helicopter yarding
Downhill yarding
Green tree retention area
Restricted area
Area boundary
Sale boundary
Ownership boundary
Cable yarding
Tractor Landing
Yarder Landing

Perennial Type-F stream
Perennial Type-N stream
Unsurfaced road
Surfaced road
Paved road
Abandoned road
Swing road
Non-project road
Blocked road
OHV trail
Non-motorized trail
Transmission line
Railroad

LOGGING PLAN

Timber Sale Contract No. 341-14-077
THE HOEVET
Portions of Section 6, T2N, R7W,
Sections 1, 2, 4, 5, 6, 8, 9, T2N, R8W,
Section 1, T2N, R9W,
Sections 25, 34, 35, 36, T3N, R8W, and
Sections 35, 36, T3N, R9W, W.M.,
Tillamook County, Oregon

Area	Type of Operation	Acres Gross	Net
1	Modified Clearcut	119	107
2	Modified Clearcut	144	106
3	Modified Clearcut	161	119
4	Modified Clearcut	24	15
5	Modified Clearcut	71	67
6	Daylighting	21	12
Total		540	426

1,000 0 1,000 Feet

N

Tillamook District GIS
2/11/2014
This product is for informational use and may not have been prepared or suitable for legal, engineering, or surveying purposes.