Timber Sale Appraisal
King Kong

Sale TL-341-2017-16-

District: Tillamook

Date: August 01, 2016

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$1,711,155.91	$353,188.68	$2,064,344.59
		Project Work:	($586,320.00)
		Advertised Value:	$1,478,024.59

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Timber Description

Location: Portions of Sections 19, 20, 28, 29, 30, 32, and 33. T2S, R7W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	95
Alder (Red)	13	0	95

Volume by Grade	2S	3S	4S	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	2,617	2,814	1,080	0	0	0	0	6,511
Alder (Red)	0	0	0	636	180	79	613	1,508
Total	2,617	2,814	1,080	636	180	79	613	8,019

Comments: Pond Values Used: 2nd Quarter Calendar Year 2016.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
$115/MBF = $435/MBF - $320/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$855/MBF = $1,175/MBF - $320/MBF

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

SCALING COST ALLOWANCE = $5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = $2.00/MBF

FUEL COST ALLOWANCE = $3.00/Gallon

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

Other Costs (with Profit & Risk to be added):
Truck Assist (Area 4): 352 MBF x $20/MBF = $7,040
TOTAL Other Costs (with Profit & Risk to be added) = $7,040

Other Costs (No Profit & Risk added):
Machine Cleaning: $1,000/machine x 2 = $2,000
Cover Materials for Piles: $5/pile x 25 piles = $125
Slash Piling and Sorting (Cable): $5/acre x 445 acres = $2,225
Non-Project Road #1 Construction: 4 stations x $125/station = $500
Non-Project Road #2 Construction: 2 stations x $125/station = $250
Reconstruct Rolling Road Dips: $50/dip x 7 = $350
Heliport Slash Sorting: 1 heliport x $500/heliport = $500

Ditch Cleaning and Bank Sluff Removal:
Mobilization: Two times – dump truck w/tilt bed & small excavator: $890 x 2 = $1,780
Small Excavator (CAT 312 or equivalent): 40 hrs. @ $95/hr = $3,800

TOTAL Other Costs (No Profit & Risk added) = $11,530

ROAD MAINTENANCE:
Spot Rocking: 20cy/mmbf/mile x 8 MMBF x $9.00/cy x 14.3 miles/8,019 MBF = $2.57/MBF

Interim Grading: $250/mile x 14.3 miles x 3 times/8,019 MBF = $1.34/MBF

Final Maintenance Grading: $500/mile x 14.3 miles/8,019 MBF = $0.89/MBF

Final Maintenance Compaction: $950/mile x 8 miles/8,019 MBF = $0.95/MBF

TOTAL Road Maintenance: $5.75/MBF

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District: Tillamook **Date: August 01, 2016**

Logging Conditions

Combination#: 1 Douglas - Fir 44.66%
Alder (Red) 63.25%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 8 **bd. ft / load:** 3800
cost / mbf: $197.37
machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 32.33%
Alder (Red) 22.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber
yarding distance: Long (1,500 ft) **downhill yarding:** No
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 6 **bd. ft / load:** 3800
cost / mbf: $263.16
machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

Combination#: 3 Douglas - Fir 17.24%
Alder (Red) 14.12%

Logging System: Cable: Small Tower <=40 **Process:** Stroke Delimber
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 13 **bd. ft / load:** 3800
cost / mbf: $113.36
machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Small)

Combination#: 4 Douglas - Fir 5.77%
Alder (Red) 0.64%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF
loads / day: 5 **bd. ft / load:** 3300
cost / mbf: $363.64
machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

Timber Sale Appraisal
King Kong

Sale TL-341-2017-16-

District: Tillamook **Date: August 01, 2016**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	10%
Project Costs:	$586,320.00	**Other Costs (P/R):**	$7,040.00
Slash Disposal:	$0.00	**Other Costs:**	$11,530.00

Miles of Road **Road Maintenance:** $5.75

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	4.0
Alder (Red)	$0.00	3.0	3.8

Timber Sale Appraisal
King Kong

Sale TL-341-2017-16-

District: Tillamook **Date: August 01, 2016**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas - Fir									
$213.76	$6.04	$1.09	$68.25	$0.88	$29.00	$0.00	$7.00	$1.44	$327.46
Alder (Red)									
$201.04	$6.04	$1.09	$71.84	$0.88	$28.09	$0.00	$7.00	$1.44	$317.42

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$590.27	$262.81	$0.00
Alder (Red)	$0.00	$551.63	$234.21	$0.00

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Date: August 01, 2016

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	6,511	$262.81	$1,711,155.91
Alder (Red)	1,508	$234.21	$353,188.68

Gross Timber Sale Value

Recovery: $2,064,344.59

Prepared By: Jonah Horn **Phone:** 503-815-7022

"STEWARDSHIP IN FORESTRY"

PROJECT SUMMARY SHEET

Sale: King Kong

CONSTRUCTION

Point	E to F	7+00	stations =	$6,816.56
Point	I to J	2+50	stations =	$499.37
Point	O to P	2+00	stations =	$1,596.49
Point	S to T	24+00	stations =	$91,214.50
Point	Y to Z	16+90	stations =	$47,027.71
Point	AA to BB	6+00	stations =	$5,145.60
			SUBTOTAL CONSTRUCTION	**$152,300.23**

IMPROVEMENT

Point	A to B	493+40	stations =	$117,621.72
Point	C to D	34+40	stations =	$15,719.38
Point	E to F	145+40	stations =	$64,148.75
Point	G to H	13+00	stations =	$7,069.56
Point	I to J	61+00	stations =	$2,445.59
Point	O to P	12+00	stations =	$7,286.91
			SUBTOTAL IMPROVEMENT	**$214,291.91**

RECONSTRUCTION

Point	G to H	7+30	stations =	$7,390.33
Point	K to L	3+60	stations =	$2,372.32
Point	M to N	17+00	stations =	$8,938.30
Point	Q to R	64+80	stations =	$95,654.87
Point	U to V	20+30	stations =	$11,694.41
Point	W to X	2+80	stations =	$2,383.16
Point	Y to Z	7+80	stations =	$17,358.06
			SUBTOTAL RECONSTRUCTION	**$145,791.45**

SPECIAL PROJECTS

Point	CC	Heliport	$1,350.50
Point	DD	Fill Repair at Culvert Outlet	$158.80
Points	EE to FF	Vacate Bales Creek Segment	$3,170.45
3"-0" Stockpile		1,160 CY	$14,395.60
1 1/2"-0" Stockpile		2,320 CY	$24,684.80
Propery Line Pit		Additional Development 24 Hrs.	$4,600.00
Brushing	19.5	Miles of Road	$17,550.00
		SUBTOTAL SPECIAL PROJECTS	**$65,910.15**

MOVE IN **$8,026.26**

GRAND TOTAL **$586,320.00**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **A to B**

Construction -	0+00	stations	Improvement -	493+40	stations	Reconstruction -	0+00	stations
	0.00	miles		9.34	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.743	acres @	$660.00	per acre =	$490.38	
				TOTAL CLEARING AND GRUBBING		$490.38

IMPROVEMENT: EXCAVATION -

Widening	975	cy. @	$1.40	per c.y.=	$1,365.00	
				TOTAL EXCAVATION		$1,365.00

IMPROVEMENT: ENDHAUL -

Widening	183+00	to	183+80	16	cy. @	$3.94	per c.y.=	$63.04	
Widening	186+80	to	187+50	27	cy. @	$3.85	per c.y.=	$103.95	
Widening	210+50	to	212+00	174	cy. @	$3.72	per c.y.=	$647.28	
Widening	394+00	to	395+20	18	cy. @	$2.26	per c.y.=	$40.68	
Widening	399+00	to	400+20	70	cy. @	$2.03	per c.y.=	$142.10	
Widening	400+20	to	413+00	186	cy. @	$2.16	per c.y.=	$401.76	
Widening	421+70	to	425+00	48	cy. @	$1.43	per c.y.=	$68.64	
Widening	434+70	to	441+50	99	cy. @	$1.85	per c.y.=	$183.15	
Widening	442+60	to	454+70	176	cy. @	$2.52	per c.y.=	$443.52	
Widening	456+00	to	457+60	23	cy. @	$3.07	per c.y.=	$70.61	
Widening	458+30	to	461+80	51	cy. @	$3.19	per c.y.=	$162.69	
Widening	468+00	to	474+00	87	cy. @	$3.85	per c.y.=	$334.95	
Spread & compact				975	cy. @	$0.25	per c.y.=	$243.75	
							TOTAL ENDHAUL		$2,906.12

CULVERTS - MATERIALS & INSTALLATION

Culverts

350	LF of 18"	$6,125.00	70	LF of 24"	$1,890.00	
40	LF of 30"	$1,440.00	0	LF of 36"	$0.00	
		$7,565.00			$1,890.00	

Culvert Stakes & Markers

0	stakes	$0.00	
33	markers	$264.00	
		$264.00	
		TOTAL CULVERTS	$9,719.00

ROCK

279+80	tc	373+80	3,290	cy. of	3" Crush	@	$14.32	per c.y.=	$47,112.80	
433+80	tc	461+80	980	cy. of	3" Crush	@	$15.74	per c.y.=	$15,425.20	
Culvert Bed/Backfill		All Culverts	260	cy. of	1.5" Crush	@	$17.62	per c.y.=	$4,581.20	
Free Drain Clean Rock		5 Locations	80	cy. of	Drain	@	$13.72	per c.y.=	$1,097.60	
Camp Site Surfacing		111+00	70	cy. of	Pit-Run	@	$4.49	per c.y.=	$314.30	
Spot Rock		0+00-279+80	500	cy. of	1.5" Crush	@	$19.47	per c.y.=	$9,735.00	
Stockpile Pad		324+20	120	cy. of	Pit-Run	@	$7.66	per c.y.=	$919.20	
Energy Dissipator		All Culverts	65	cy. of	Riprap	@	$9.95	per c.y.=	$646.75	
								TOTAL ROCK		$82,850.05

SPECIAL PROJECTS

Re-route ditch away from subgrade at 179+60 & 198+20 -	4.00	hours @	$145.00	per hour	$580.00	
Grade and shape camp site at station 111+00 -	1.00	hours @	$130.00	per hour	$130.00	
Construct waste areas -	1.00	hours @	$130.00	per hour	$130.00	
Pull ditch and endhaul -	83.30	stations @	$80.00	per station	$6,664.00	
Fill sediment traps at 235+00 but retain ditch -	1.00	hours @	$145.00	per hour	$145.00	
Grade and shape road -	493.40	stations @	$14.75	per station	$7,277.65	
Nonwoven Geotextile & Installation -	440.00	square yrds @	$0.96	per sq. yd.	$422.40	
Construct/Install free drains and ditch drains -	8.00	hours @	$145.00	each	$1,160.00	
Construct stockpile pad on spur at 324+20 -	1.50	hours @	$130.00	each	$195.00	
Roll subgrade w/ vibratory roller prior to rocking -	213.60	stations @	$13.20	per station	$2,819.52	
Remove culverts from state lands	3.00	@	$455.40	total	$455.40	
Grass seed and fertilize -	0.80	acres @	$220.00	per acre	$176.00	
Mulching -	0.227	acres @	$600.00	per acre	$136.20	
				TOTAL SPECIAL PROJECTS		$20,291.17

GRAND TOTAL **$117,621.72**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **C to D**

Construction -	0+00	stations	Improvement -	34+40	stations	Reconstruction -	0+00	stations
	0.00	miles		0.65	miles		0.00	miles

ROCK

0+00 to	34+40	790	cy. of	3" Crush	@	$17.18	per c.y.=	$13,572.20	
Landing Rock	34+40	50	cy. of	3" Crush	@	$17.47	per c.y.=	$873.50	
Junction Rock	0+00	20	cy. of	3" Crush	@	$16.90	per c.y.=	$338.00	
								TOTAL ROCK	**$14,783.70**

SPECIAL PROJECTS

Grade and shape road -	34.40	stations @	$14.00	per station	$481.60	
Roll subgrade w/ vibratory roller prior to rocking -	34.40	stations @	$13.20	per station	$454.08	
				TOTAL SPECIAL PROJECTS		**$935.68**

GRAND TOTAL **$15,719.38**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **E to F**

Construction -	7+00	stations	Improvement -	145+40	stations	Reconstruction -	0+00	stations
	0.13	miles		2.75	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			
33+00		38+20	25%	NA	Ditch	$460	=	$2,392.00	
38+20		40+40	40%	NA	Ditch	$693	=	$1,524.60	
								TOTAL	**$3,916.60**

IMPROVEMENT: CLEARING AND GRUBBING -

Side cast	0.153	acres @	$1,200.00	per acre =	$183.60	
Widening	0.076	acres @	$1,200.00	per acre =	$91.20	
					TOTAL CLEARING AND GRUBBING	**$274.80**

IMPROVEMENT: EXCAVATION -

Pullback	629	cy. @	$1.40	per c.y.=	$880.60	
Widening	189	cy. @	$1.40	per c.y.=	$264.60	
					TOTAL EXCAVATION	**$1,145.20**

IMPROVEMENT: ENDHAUL -

Pullback	77+00	to	78+70	369	cy. @	$2.90	per c.y.=	$1,070.10	
Pullback	80+80	to	82+00	156	cy. @	$2.68	per c.y.=	$418.08	
Pullback	85+60	to	86+40	104	cy. @	$2.47	per c.y.=	$256.88	
Widening	68+00	to	70+00	78	cy. @	$3.43	per c.y.=	$267.54	
Widening	78+70	to	79+20	25	cy. @	$2.84	per c.y.=	$71.00	
Widening	85+60	to	86+40	47	cy. @	$2.47	per c.y.=	$116.09	
Widening	122+80	to	123+60	39	cy. @	$2.26	per c.y.=	$88.14	
Spread & compact				818	cy. @	$0.25	per c.y.=	$204.50	
								TOTAL ENDHAUL	**$2,492.33**

CULVERTS - MATERIALS & INSTALLATION

Culverts						
190	LF of 18"	$3,325.00	0	LF of 24"	$0.00	
		$3,325.00			$0.00	
Culvert Stakes & Markers						
0	stakes	$0.00				
13	markers	$104.00				
		$104.00			**TOTAL CULVERTS**	**$3,429.00**

ROCK

0+00 to	66+20	1,480	cy. of	1.5" Crush	@	$18.00	per c.y.=	$26,640.00	
66+20 to	110+80	1,010	cy. of	3" Crush	@	$15.35	per c.y.=	$15,503.50	
33+00 to	40+40	400	cy. of	3" Crush	@	$14.83	per c.y.=	$5,932.00	
Culvert Bed/Backfill	Improvement Pipes	60	cy. of	1.5" Crush	@	$16.15	per c.y.=	$969.00	
Free Drain Clean Rock	39+60	30	cy. of	Drain	@	$15.65	per c.y.=	$469.50	
Fill Armor	38+00-40+40	100	cy. of	Pit-Run	@	$6.96	per c.y.=	$696.00	
Junction Rock	0+00	20	cy. of	1.5" Crush	@	$18.00	per c.y.=	$360.00	
Stockpile	Point F	20	cy. of	Riprap	@	$5.67	per c.y.=	$113.40	
Energy Dissipator	All Culverts	30	cy. of	Riprap	@	$6.82	per c.y.=	$204.60	
Road Dip	46+80	10	cy. of	Riprap	@	$6.82	per c.y.=	$68.20	
Spot Rock	110+80-144+00	100	cy. of	3" Crush	@	$15.79	per c.y.=	$1,579.00	
Fill Ditch	42+90-46+80	20	cy. of	Pit-Run	@	$7.96	per c.y.=	$159.20	
								TOTAL ROCK	**$52,694.40**

SPECIAL PROJECTS

Nonwoven Geotextile and Installation -	60.00	square yrds @	$0.96	per sq. yd.	$57.60	
Woven Geotextile and Installation -	1625.00	square yrds @	$1.10	per sq. yd.	$1,787.50	
Construct turnout on new construct -	1.00	@	$60.00	each	$60.00	
Construct ditchout at 37+00 -	1.00	@	$60.00	each	$60.00	
Remove discarded cable from subgrade at 99+80 -	0.50	hours @	$145.00	per hour	$72.50	
Construct lead-off ditches at culvert outlets -	2.00	@	$60.00	each	$120.00	
Grade and shape road -	152.40	stations @	$14.75	per station	$2,247.90	
Construct Road Dip at 46+80 -	1.00	@	$150.00	each	$150.00	
Construct/Install free drain at 39+60 -	2.00	hours @	$145.00	each	$290.00	
Roll subgrade w/ vibratory roller prior to rocking -	152.40	stations @	$13.20	per station	$2,011.68	
Grass seed and fertilize -	0.49	acres @	$220.00	per acre	$107.80	
Mulching -	0.080	acres @	$600.00	per acre	$48.00	
					TOTAL SPECIAL PROJECTS	**$7,012.98**

GRAND TOTAL **$70,965.31**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **G to H**

Construction -	0+00	stations	Improvement -	13+00	stations	Reconstruction -	7+30	stations
	0.00	miles		0.25	miles		0.14	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Side cast	0.041	acres @	$660.00	per acre =	$27.06	
Widening	0.076	acres @	$660.00	per acre =	$50.16	
Endhaul	0.300	acres @	$1,500.00	per acre =	$450.00	
				TOTAL CLEARING AND GRUBBING		**$527.22**

RECONSTRUCTION: EXCAVATION -

Pullback	130	cy. @	$1.40	per c.y.=	$182.00	
Widening	481	cy. @	$1.40	per c.y.=	$673.40	
				TOTAL EXCAVATION		**$855.40**

RECONSTRUCTION: ENDHAUL -

Pullback	14+00	to	15+00	130	cy. @	$2.92	per c.y.=	$379.60	
Widening	14+30	to	18+00	481	cy. @	$3.13	per c.y.=	$1,505.53	
Spread & compact				611	cy. @	$0.25	per c.y.=	$152.75	
							TOTAL ENDHAUL		**$2,037.88**

ROCK

0+00 to	13+00	310	cy. of	3" Crush	@	$18.20	per c.y.=	$5,642.00	
13+00 to	20+30	390	cy. of	Pit-Run	@	$6.80	per c.y.=	$2,652.00	
Landing Rock	18+60, 20+30	160	cy. of	Pit-Run	@	$7.18	per c.y.=	$1,148.80	
Junction Rock	0+00	20	cy. of	3" Crush	@	$18.09	per c.y.=	$361.80	
							TOTAL ROCK		**$9,804.60**

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	$130.00	per hour	$130.00	
Reconstruct landing at 18+60 -	1.00	@	$150.00	each	$150.00	
Construct split-level landing at Point H -	1.00	@	$350.00	each	$350.00	
Grade and shape road -	20.30	stations @	$14.75	per station	$299.43	
Roll subgrade w/ vibratory roller prior to rocking -	20.30	stations @	$13.20	per station	$267.96	
Grass seed and fertilize -	0.17	acres @	$220.00	per acre	$37.40	
				TOTAL SPECIAL PROJECTS		**$1,234.79**

GRAND TOTAL **$14,459.89**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **I to J**

Construction -	2+50	stations	Improvement -	61+00	stations	Reconstruction -	0+00	stations
	0.05	miles		1.16	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			
61+00		63+50	25%	NA	Outslope	$165	=	$412.50	
								TOTAL	**$412.50**

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.020	acres @	$660.00	per acre =	$13.20	
Scattering	0.020	acres @	$980.00	per acre =	$19.60	
				TOTAL CLEARING AND GRUBBING		**$32.80**

IMPROVEMENT: EXCAVATION -

Widening	62	cy. @	$1.40	per c.y.=	$86.80	
				TOTAL EXCAVATION		**$86.80**

IMPROVEMENT: ENDHAUL -

Widening	31+30	to	31+60	9	cy. @	$3.39	per c.y.=	$30.51	
Widening	52+50	to	53+70	44	cy. @	$3.08	per c.y.=	$135.52	
Widening	58+70	to	59+00	9	cy. @	$2.77	per c.y.=	$24.93	
Spread & compact				62	cy. @	$0.25	per c.y.=	$15.50	
							TOTAL ENDHAUL		**$206.46**

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	$130.00	per hour	$130.00	
Construct landing -	1.00	@	$250.00		$250.00	
Grade and shape road -	63.50	stations @	$14.00	per station	$889.00	
Construct turnaround before landing -	1.00	@	$75.00	each	$75.00	
Roll subgrade w/ vibratory roller prior to rocking -	63.50	stations @	$13.20	per station	$838.20	
Grass seed and fertilize -	0.11	acres @	$220.00	per acre	$24.20	
				TOTAL SPECIAL PROJECTS		**$2,206.40**

GRAND TOTAL **$2,944.96**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **K to L**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	3+60	stations
	0.00	miles		0.00	miles		0.07	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	0.230	acres @	$980.00	per acre =	$225.40	
				TOTAL CLEARING AND GRUBBING		**$225.40**

ROCK

0+00 to	3+60	180	cy. of	Pit-Run	@	$6.70	per c.y.=	$1,206.00	
Landing Rock	3+60	80	cy. of	Pit-Run	@	$6.83	per c.y.=	$546.40	
Junction Rock	0+00	20	cy. of	Pit-Run	@	$6.56	per c.y.=	$131.20	
								TOTAL ROCK	**$1,883.60**

SPECIAL PROJECTS

Reconstruct landing -	1.00	@	$150.00	each	$150.00	
Grade and shape road -	3.60	stations @	$14.00	per station	$50.40	
Roll subgrade w/ vibratory roller prior to rocking -	3.60	stations @	$13.20	per station	$47.52	
Grass seed and fertilize -	0.07	acres @	$220.00	per acre	$15.40	
				TOTAL SPECIAL PROJECTS		**$263.32**

GRAND TOTAL **$2,372.32**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **M to N**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	17+00	stations
	0.00	miles		0.00	miles		0.32	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	1.010	acres @	$980.00	per acre =	$989.80	
				TOTAL CLEARING AND GRUBBING		$989.80

ROCK

0+00	to	17+00	940	cy. of	Pit-Run	@	$6.56	per c.y.=	$6,166.40	
Stockpile		0+00	50	cy. of	Pit-Run	@	$6.59	per c.y.=	$329.50	
Landing Rock		15+60	80	cy. of	Pit-Run	@	$7.27	per c.y.=	$581.60	
Junction Rock		0+00	20	cy. of	Pit-Run	@	$5.77	per c.y.=	$115.40	
								TOTAL ROCK		$7,192.90

SPECIAL PROJECTS

Reconstruct landing -	1.00	@	$150.00	each	$150.00	
Construct turnaround -	1.00	@	$75.00	each	$75.00	
Grade and shape road -	17.00	stations @	$14.00	per station	$238.00	
Roll subgrade w/ vibratory roller prior to rocking -	17.00	stations @	$13.20	per station	$224.40	
Grass seed and fertilize -	0.31	acres @	$220.00	per acre	$68.20	
				TOTAL SPECIAL PROJECTS		$755.60

GRAND TOTAL **$8,938.30**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **O to P**

Construction -	2+00	stations	Improvement -	12+00	stations	Reconstruction -	0+00	stations
	0.04	miles		0.23	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			
12+00		14+00	30%	NA	Outslope	$191	=	$382.00	
								TOTAL	**$382.00**

ROCK

0+00	tc	12+00	430	cy. of	Pit-Run	@	$6.30 per c.y.=	$2,709.00	
12+00	tc	14+00	210	cy. of	Pit-Run	@	$6.92 per c.y.=	$1,453.20	
0+00	tc	7+20	90	cy. of	1.5" Crush	@	$24.65 per c.y.=	$2,218.50	
Landing Rock		7+20, 14+00	130	cy. of	Pit-Run	@	$7.01 per c.y.=	$911.30	
Junction Rock		0+00	20	cy. of	Pit-Run	@	$5.77 per c.y.=	$115.40	
								TOTAL ROCK	**$7,407.40**

SPECIAL PROJECTS

Construct landing at Point P -	1.00	@	$250.00	each	$250.00	
Construct turnaround before landing -	1.00	@	$75.00	each	$75.00	
Improve landing above junction at 7+20 -	1.00	@	$150.00	each	$150.00	
Grade and shape road -	14.00	stations @	$14.00	per station	$196.00	
Roll subgrade w/ vibratory roller prior to rocking -	14.00	stations @	$13.20	per station	$184.80	
Remove large stumps -	1.00	lump sum @	$225.00		$225.00	
Grass seed and fertilize -	0.06	acres @	$220.00	per acre	$13.20	
					TOTAL SPECIAL PROJECTS	**$1,094.00**

GRAND TOTAL **$8,883.40**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **Q to R**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	64+80	stations
	0.00	miles		0.00	miles		1.23	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Side cast	0.692	acres @	$1,500.00	per acre =	$1,038.00	
Widening	0.596	acres @	$1,500.00	per acre =	$894.00	
Scattering	2.680	acres @	$980.00	per acre =	$2,626.40	
				TOTAL CLEARING AND GRUBBING		**$4,558.40**

RECONSTRUCTION: EXCAVATION -

Full Bench Construction from 41+10 to 42+30	1.20	sta. @	$2,433.00	per sta. =	$2,919.60	
Pullback	2413	cy. @	$1.40	per c.y.=	$3,378.20	
Widening	4825	cy. @	$1.40	per c.y.=	$6,755.00	
				TOTAL EXCAVATION		**$13,052.80**

RECONSTRUCTION: ENDHAUL -

Pullback	3+00	to	3+70	82	cy. @	$2.73	per c.y.=	$223.86	
Pullback	5+00	to	5+50	78	cy. @	$2.81	per c.y.=	$219.18	
Pullback	7+00	to	8+80	278	cy. @	$3.04	per c.y.=	$845.12	
Pullback	11+00	to	11+50	59	cy. @	$3.26	per c.y.=	$192.34	
Pullback	13+00	to	14+40	163	cy. @	$3.49	per c.y.=	$568.87	
Pullback	17+20	to	17+70	78	cy. @	$3.79	per c.y.=	$295.62	
Pullback	17+90	to	18+50	94	cy. @	$3.87	per c.y.=	$363.78	
Pullback	24+30	to	28+80	347	cy. @	$3.79	per c.y.=	$1,315.13	
Pullback	31+70	to	32+30	101	cy. @	$1.29	per c.y.=	$130.29	
Pullback	35+00	to	36+60	186	cy. @	$1.48	per c.y.=	$275.28	
Pullback	38+70	to	39+70	155	cy. @	$1.71	per c.y.=	$265.05	
Pullback	39+70	to	40+70	231	cy. @	$1.79	per c.y.=	$413.49	
Pullback	42+30	to	43+10	94	cy. @	$2.01	per c.y.=	$188.94	
Pullback	48+00	to	50+70	312	cy. @	$1.45	per c.y.=	$452.40	
Pullback	52+50	to	53+50	155	cy. @	$1.75	per c.y.=	$271.25	
Widening	3+00	to	3+70	31	cy. @	$2.73	per c.y.=	$84.63	
Widening	8+00	to	8+80	62	cy. @	$3.11	per c.y.=	$192.82	
Widening	9+60	to	10+10	20	cy. @	$3.19	per c.y.=	$63.80	
Widening	11+00	to	11+50	36	cy. @	$3.34	per c.y.=	$120.24	
Widening	13+00	to	14+00	290	cy. @	$3.45	per c.y.=	$1,000.50	
Widening	15+00	to	15+70	540	cy. @	$3.60	per c.y.=	$1,944.00	
Widening	23+00	to	24+30	902	cy. @	$3.61	per c.y.=	$3,256.22	
Widening	31+70	to	32+30	94	cy. @	$1.29	per c.y.=	$121.26	
Widening	35+00	to	36+60	116	cy. @	$1.48	per c.y.=	$171.68	
Widening	38+70	to	39+70	290	cy. @	$1.71	per c.y.=	$495.90	
Widening	42+30	to	43+10	70	cy. @	$2.01	per c.y.=	$140.70	
Widening	46+00	to	46+50	78	cy. @	$1.41	per c.y.=	$109.98	
Widening	48+00	to	50+70	780	cy. @	$1.52	per c.y.=	$1,185.60	
Widening	52+50	to	53+50	290	cy. @	$1.75	per c.y.=	$507.50	
Widening	59+00	to	64+30	1226	cy. @	$2.43	per c.y.=	$2,979.18	
Spread & compact				7238	cy. @	$0.25	per c.y.=	$1,809.50	
							TOTAL ENDHAUL		**$20,204.11**

CULVERTS - MATERIALS & INSTALLATION

Culverts

40	LF of 18"	$700.00	0	LF of 24"	$0.00	
60	LF of 42"	$3,595.00	0	LF of 48"	$0.00	
		$4,295.00			$0.00	

Culvert Stakes & Markers

0	stakes	$0.00		
2	markers	$16.00		
		$16.00	**TOTAL CULVERTS**	**$4,311.00**

ROCK

0+00 to	64+80	4,800	cy. of	Pit-Run	@	$9.65	per c.y.=	$46,320.00	
Landing Rock	3 Locations	240	cy. of	Pit-Run	@	$10.19	per c.y.=	$2,445.60	
Fill Armor	40+90	30	cy. of	Riprap	@	$6.56	per c.y.=	$196.80	
Junction Rock	0+00	20	cy. of	Pit-Run	@	$9.12	per c.y.=	$182.40	
Energy Dissipator	40+90, 62+50	15	cy. of	Riprap	@	$6.56	per c.y.=	$98.40	
Bedding/Backfill	40+90	30	cy. of	1.5" Crush	@	$22.82	per c.y.=	$684.60	
								TOTAL ROCK	**$49,927.80**

SPECIAL PROJECTS

Construct waste areas -	3.00	hours @	$130.00	per hour	$390.00	
Reconstruct landings at 30+50 & 57+00 -	2.00	@	$150.00	each	$300.00	
Construct landing at 64+80 -	1.00	@	$300.00	each	$300.00	
Grade and shape road -	64.80	stations @	$14.00	per station	$907.20	
Construct turnarounds before landings -	3.00	@	$75.00	each	$225.00	
Roll subgrade w/ vibratory roller prior to rocking -	64.80	stations @	$13.20	per station	$855.36	
Grass seed and fertilize -	2.02	acres @	$220.00	per acre	$444.40	
Mulching -	0.298	acres @	$600.00	per acre	$178.80	
				TOTAL SPECIAL PROJECTS		**$3,600.76**

GRAND TOTAL **$95,654.87**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **S to T**

Construction -	24+00	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.45	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, DRILL & SHOOT, COMPACTION, LOADING, END-HAULING AND COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		4+00	80%	0.8	Ditch	$4,625	=	$18,500.00	
4+00		8+00	50%	NA	Ditch	$651	=	$2,604.00	
8+00		18+00	75%	1.1	Ditch	$3,768	=	$37,680.00	
18+00		24+00	Ridge & Landing	NA	Outslope	$536	=	$3,216.00	
								TOTAL	**$62,000.00**

CULVERTS - MATERIALS & INSTALLATION

Culverts

150	LF of 18"	$2,625.00	0	LF of 24"	$0.00	
		$2,625.00			$0.00	

Culvert Stakes & Markers

0	stakes	$0.00		
5	markers	$40.00		
		$40.00	**TOTAL CULVERTS**	**$2,665.00**

ROCK

0+00	to	24+00	1,800	cy. of	Pit-Run	@	$9.70	per c.y.=	$17,460.00	
0+00	to	22+00	260	cy. of	1.5" Crush	@	$24.79	per c.y.=	$6,445.40	
Landing Rock		24+00	80	cy. of	Pit-Run	@	$9.89	per c.y.=	$791.20	
Junction Rock		0+00	20	cy. of	Pit-Run	@	$9.50	per c.y.=	$190.00	
Energy Dissipator		All Culverts	25	cy. of	Riprap	@	$6.82	per c.y.=	$170.50	
									TOTAL ROCK	**$25,057.10**

SPECIAL PROJECTS

Construct turn around before landing -	1.00	@	$75.00	each	$75.00	
Construct waste area -	3.00	hours @	$130.00	per hour	$390.00	
Construct ditchout at 18+60 -	1.00	@	$60.00	each	$60.00	
Grade and shape road -	24.00	stations @	$14.00	per station	$336.00	
Roll subgrade w/ vibratory roller prior to rocking -	24.00	stations @	$13.20	per station	$316.80	
Grass seed and fertilize -	1.43	acres @	$220.00	per acre	$314.60	
					TOTAL SPECIAL PROJECTS	**$1,492.40**

GRAND TOTAL **$91,214.50**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **U to V**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	20+30	stations
	0.00	miles		0.00	miles		0.38	miles

RECONSTRUCTION: CLEARING AND GRUBBING -										
Widening					0.027	acres @	$660.00	per acre =	$17.82	
Scattering					0.930	acres @	$980.00	per acre =	$911.40	
									TOTAL CLEARING AND GRUBBING	**$929.22**
RECONSTRUCTION: EXCAVATION -										
Widening					78	cy. @	$1.40	per c.y.=	$109.20	
									TOTAL EXCAVATION	**$109.20**
RECONSTRUCTION: ENDHAUL -										
Widening	2+70	to	4+70		39	cy. @	$3.60	per c.y.=	$140.40	
Widening	9+40	to	10+20		39	cy. @	$3.87	per c.y.=	$150.93	
Spread & compact					78	cy. @	$0.25	per c.y.=	$19.50	
									TOTAL ENDHAUL	**$310.83**
ROCK										
0+00 to	20+30	1,110	cy. of	Pit-Run		@	$7.66	per c.y.=	$8,502.60	
Landing Rock	20+30	80	cy. of	Pit-Run		@	$7.84	per c.y.=	$627.20	
Junction Rock	0+00	20	cy. of	Pit-Run		@	$7.47	per c.y.=	$149.40	
									TOTAL ROCK	**$9,279.20**
SPECIAL PROJECTS										
Construct waste areas -					1.00	hours @	$130.00	per hour	$130.00	
Reconstruct landings at 12+60, 16+20, 18+70 -					3.00	@	$100.00	each	$300.00	
Grade and shape road -					20.30	stations @	$14.00	per station	$284.20	
Construct turnaround -					1.00	@	$75.00	each	$75.00	
Roll subgrade w/ vibratory roller prior to rocking -					20.30	stations @	$13.20	per station	$267.96	
Grass seed and fertilize -					0.04	acres @	$220.00	per acre	$8.80	
									TOTAL SPECIAL PROJECTS	**$1,065.96**
									GRAND TOTAL	**$11,694.41**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **W to X**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	2+80	stations
	0.00	miles		0.00	miles		0.05	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	0.150	acres	@	$980.00	per acre =	$147.00	
					TOTAL CLEARING AND GRUBBING		$147.00

ROCK

0+00	to	2+80	170	cy. of	Pit-Run	@	$7.36	per c.y.=	$1,251.20	
Landing Rock		2+80	80	cy. of	Pit-Run	@	$7.38	per c.y.=	$590.40	
Junction Rock		0+00	20	cy. of	Pit-Run	@	$7.32	per c.y.=	$146.40	
									TOTAL ROCK	$1,988.00

SPECIAL PROJECTS

Reconstruct landing -	1.00	@	$150.00	each	$150.00	
Grade and shape road -	2.80	stations @	$14.00	per station	$39.20	
Roll subgrade w/ vibratory roller prior to rocking -	2.80	stations @	$13.20	per station	$36.96	
Grass seed and fertilize -	0.10	acres @	$220.00	per acre	$22.00	
				TOTAL SPECIAL PROJECTS		$248.16

GRAND TOTAL **$2,383.16**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **Y to Z**

Construction -	16+90	stations	Improvement -	0+00	stations	Reconstruction -	7+80	stations
	0.32	miles		0.00	miles		0.15	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
7+80		11+50	95%	0.3	Outslope	$9,330	=	$34,521.00	
11+50		24+70	40%	NA	Outslope	$243	=	$3,207.60	
								TOTAL	$37,728.60

RECONSTRUCTION: CLEARING AND GRUBBING -

Side cast	0.198	acres @	$1,200.00	per acre =	$237.60		
Widening	0.220	acres @	$1,200.00	per acre =	$264.00		
Subgrade	0.250	acres @	$1,200.00	per acre =	$300.00		
				TOTAL CLEARING AND GRUBBING		$801.60	

RECONSTRUCTION: EXCAVATION -

Pullback	416	cy. @	$1.40	per c.y.=	$582.40	
Widening	2311	cy. @	$1.40	per c.y.=	$3,235.40	
				TOTAL EXCAVATION		$3,817.80

RECONSTRUCTION: ENDHAUL -

Pullback	2+40	to	7+80	416	cy. @	$2.96	per c.y.=	$1,231.36	
Widening	3+00	to	7+80	2311	cy. @	$2.78	per c.y.=	$6,424.58	
Spread & compact				2727	cy. @	$0.29	per c.y.=	$790.83	
							TOTAL ENDHAUL		$8,446.77

ROCK

0+00	to	19+00	1,430	cy. of	Pit-Run	@	$6.39	per c.y.=	$9,137.70	
8+30	to	12+00	60	cy. of	1.5" Crush	@	$22.73	per c.y.=	$1,363.80	
14+60	to	17+60	50	cy. of	1.5" Crush	@	$22.83	per c.y.=	$1,141.50	
Landing Rock		19+00	80	cy. of	Pit-Run	@	$7.57	per c.y.=	$605.60	
Junction Rock		0+00	20	cy. of	Pit-Run	@	$6.19	per c.y.=	$123.80	
								TOTAL ROCK		$12,372.40

SPECIAL PROJECTS

Construct waste areas -	2.00	hours @	$130.00	per hour	$260.00	
Grade and shape road -	24.70	stations @	$14.00	per station	$345.80	
Construct ditch from 0+00 to 2+00 -	2.00	stations @	$60.00	per station	$120.00	
Roll subgrade w/ vibratory roller prior to rocking -	19.00	stations @	$13.20	per station	$250.80	
Grass seed and fertilize -	1.10	acres @	$220.00	per acre	$242.00	
				TOTAL SPECIAL PROJECTS		$1,218.60

GRAND TOTAL **$64,385.77**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Road: **AA to BB**

Construction -	6+00	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.11	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+00	20%	NA	Outslope	$139	=	$139.00	
1+00		2+50	35%	NA	Outslope	$191	=	$286.50	
2+50		3+00	40%	NA	Outslope	$243	=	$121.50	
3+00		5+00	35%	NA	Outslope	$191	=	$382.00	
5+00		6+00	20%	NA	Outslope	$139	=	$139.00	
								TOTAL	**$1,068.00**

ROCK

0+00 to	6+00	440	cy. of	Pit-Run	@	$6.39	per c.y.=	$2,811.60	
Landing Rock	6+00	80	cy. of	Pit-Run	@	$6.65	per c.y.=	$532.00	
Junction Rock	0+00	20	cy. of	Pit-Run	@	$6.12	per c.y.=	$122.40	
								TOTAL ROCK	**$3,466.00**

SPECIAL PROJECTS

Construct landing -	1.00	@	$250.00	each	$250.00	
Grade and shape road -	6.00	stations @	$14.00	per station	$84.00	
Roll subgrade w/ vibratory roller prior to rocking -	6.00	stations @	$13.20	per station	$79.20	
Remove large stumps -	1.00	lump sum @	$150.00	total	$150.00	
Grass seed and fertilize -	0.22	acres @	$220.00	per acre	$48.40	
					TOTAL SPECIAL PROJECTS	**$611.60**

GRAND TOTAL **$5,145.60**

SUMMARY OF CONSTRUCTION COST

Sale:	**King Kong**					Point:	**CC**	**Heliport**		
						Point:	**DD**	**Fill Repair**		
ROCK										
Surface Heliport	50	cy. of	Crushed		@	$18.31	per c.y.=	$915.50		
								TOTAL ROCK		**$915.50**
SPECIAL PROJECTS										
Improve landing at CC for use as Heliport -				1.00	hours @	$145.00	each	$145.00		
Improve other landing(s) for heliport(s) TBD -				2.00	hours @	$145.00	each	$290.00		
								TOTAL SPECIAL PROJECTS		**$435.00**
							GRAND TOTAL	**Point CC**		**$1,350.50**
ROCK										
Fill Repair at Culvert Outlet	10	cy. of	Riprap		@	$15.88	per c.y.=	$158.80		
								TOTAL ROCK		**$158.80**
							GRAND TOTAL	**Point DD**		**$158.80**

SUMMARY OF CONSTRUCTION COST

Sale: **King Kong** Vacate: **EE to FF**

Construction -	0+00	stations	Vacate -	16+00	stations	Reconstruction -	0+00	stations
	0.00	miles		0.30	miles		0.00	miles

IMPROVEMENT: EXCAVATION -

Pullback culvert fills	800	cy. @	$1.40	per c.y.=	$1,120.00	
				TOTAL EXCAVATION		**$1,120.00**

SPECIAL PROJECTS

Construct tank traps -	2.00	@	$75.00	each	$150.00	
Construct cross ditch/waterbars -	6.00	@	$35.00	each	$210.00	
Fill sediment catch basins with on-site rock -	3.00	@	$36.25	each	$108.75	
Rip Road -	16.00	stations @	$35.00	per station	$560.00	
Remove culverts from state lands	5.00	@	$537.90	total	$537.90	
Grass seed and fertilize -	0.59	acres @	$220.00	per acre	$129.80	
Mulching -	0.590	acres @	$600.00	per acre	$354.00	
				TOTAL SPECIAL PROJECTS		**$2,050.45**
				GRAND TOTAL		**$3,170.45**

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

		Bushong:	NE 1/4, SW 1/4, Sec 19, T2S, R7W, W.M.
Pit:	Pit_Run_Quarries	Bales Crk:	SE 1/4, SW 1/4, Sec 29, T2S, R7W, W.M.
Sale:	**King Kong**	Road:	13660 c.y.
Swell:	1.40	Stockpile:	c.y.
Shirinkage	1.16	Total Truck Loads:	13660 c.y.
Drill Pct.:	50%	In Place Total:	9757 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area. Place overburden in Waste Area, spread and compact.							$8,139.86
Drill & Shoot:	$2.50	/cu.yd.	x	4879	cu.yds.	=	$12,197.50
Rip Rock:	$1.90	/cu.yd.	x	4878	cu.yds.	=	$9,268.20
Load Dump Truck:	$0.70	/cu.yd.	x	13660	cu.yds.	=	$9,562.00
						Subtotal	$39,167.56

Move In and set up Drill and Compressor	1	@	$763.98	=	$763.98
Move in Roller and Compactor	1	@	$763.98	=	$763.98
Move in Grader	1	@	$231.17	=	$231.17
Move in D-8	2	@	$1,157.32	=	$2,314.64
Move in Excavator	2	@	$1,279.46	=	$2,558.92
Move in Trucks	6	@	$256.23	=	$1,537.38
				Subtotal	$8,170.07

TOTAL PRODUCTION COSTS $47,337.63

Base Cost= $3.47 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 Camp Site Surfacing (Pit-Run)	2.79	1.10	0.60	4.49	70		$314.30
A to B Stockpile Pad (Pit-Run)	3.09	1.10	3.47	7.66	120		$919.20
E to F Fill Armor (Pit-Run)	2.89	0.60	3.47	6.96	100		$696.00
E to F Stockpile (Riprap)	2.70	0.60	2.37	5.67	20		$113.40
E to F Energy Dissipator (Riprap)	3.05	1.40	2.37	6.82	30		$204.60
E to F Road Dip (Riprap)	3.05	1.40	2.37	6.82	10		$68.20
E to F Fill Ditch (Pit-Run)	3.09	1.40	3.47	7.96	20		$159.20
G to H 1300 2030 (Pit-Run)	2.23	1.10	3.47	6.80	390		$2,652.00
G to H Landing Rock (Pit-Run)	2.31	1.40	3.47	7.18	160		$1,148.80
K to L 0 360 (Pit-Run)	2.13	1.10	3.47	6.70	180		$1,206.00
K to L Landing Rock (Pit-Run)	2.26	1.10	3.47	6.83	80		$546.40
K to L Junction Rock (Pit-Run)	1.99	1.10	3.47	6.56	20		$131.20
M to N 0 1700 (Pit-Run)	1.99	1.10	3.47	6.56	940		$6,166.40
M to N Stockpile (Pit-Run)	2.52	0.60	3.47	6.59	50		$329.50
M to N Landing Rock (Pit-Run)	2.70	1.10	3.47	7.27	80		$581.60
M to N Junction Rock (Pit-Run)	1.20	1.10	3.47	5.77	20		$115.40
O to P 0 1200 (Pit-Run)	1.73	1.10	3.47	6.30	430		$2,709.00
O to P 1200 1400 (Pit-Run)	2.35	1.10	3.47	6.92	210		$1,453.20
O to P Landing Rock (Pit-Run)	2.44	1.10	3.47	7.01	130		$911.30
O to P Junction Rock (Pit-Run)	1.20	1.10	3.47	5.77	20		$115.40
Q to R 0 6480 (Pit-Run)	5.08	1.10	3.47	9.65	4800		$46,320.00
Q to R Landing Rock (Pit-Run)	5.62	1.10	3.47	10.19	240		$2,445.60
Q to R Fill Armor (Riprap)	2.79	1.40	2.37	6.56	30		$196.80
Q to R Junction Rock (Pit-Run)	4.55	1.10	3.47	9.12	20		$182.40
Q to R Energy Dissipator (Riprap)	2.79	1.40	2.37	6.56	15		$98.40
S to T 0 2400 (Pit-Run)	5.13	1.10	3.47	9.70	1800		$17,460.00
S to T Landing Rock (Pit-Run)	5.32	1.10	3.47	9.89	80		$791.20
S to T Junction Rock (Pit-Run)	4.93	1.10	3.47	9.50	20		$190.00
S to T Energy Dissipator (Riprap)	3.05	1.40	2.37	6.82	25		$170.50
U to V 0 2030 (Pit-Run)	3.09	1.10	3.47	7.66	1110		$8,502.60
U to V Landing Rock (Pit-Run)	3.27	1.10	3.47	7.84	80		$627.20
U to V Junction Rock (Pit-Run)	2.90	1.10	3.47	7.47	20		$149.40
W to X 0 280 (Pit-Run)	2.79	1.10	3.47	7.36	170		$1,251.20
W to X Landing Rock (Pit-Run)	2.81	1.10	3.47	7.38	80		$590.40
W to X Junction Rock (Pit-Run)	2.75	1.10	3.47	7.32	20		$146.40
Y to Z 0 1900 (Pit-Run)	1.82	1.10	3.47	6.39	1430		$9,137.70
Y to Z Landing Rock (Pit-Run)	2.70	1.40	3.47	7.57	80		$605.60
Y to Z Junction Rock (Pit-Run)	1.82	0.90	3.47	6.19	20		$123.80
AA to BB 0 600 (Pit-Run)	1.82	1.10	3.47	6.39	440		$2,811.60
AA to BB Landing Rock (Pit-Run)	2.08	1.10	3.47	6.65	80		$532.00
AA to BB Junction Rock (Pit-Run)	1.55	1.10	3.47	6.12	20		$122.40
				Total C.Y.	13660	Sub Total	$112,996.30

TOTAL ROCKING COSTS $112,996.30

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Joyce_Quarry	Location:	SE 1/4, NW 1/4, Sec 13, T2S, R8W, W.M.	
Sale:	**King Kong**		Road:	8565 c.y.
Swell:	1.40		Stockpile:	c.y.
Shirinkage	1.16		Total Truck Loads:	8565 c.y.
Drill Pct.:	100%		In Place Total:	6118 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area. Place overburden in Waste Area, spread and compact.								$9,810.80
Drill & Shoot:		$2.50	/cu.yd.	x	6118	cu.yds.	=	$15,295.00
Push Rock:		$0.60	/cu.yd.	x	3059	cu.yds.	=	$1,835.40
Load Crusher:		$0.70	/cu.yd.	x	8565	cu.yds.	=	$5,995.50
Crush Rock:	Weighted Average =	$2.61	/cu.yd.	x	8565	cu.yds.	=	$22,354.65
Load Dump Truck:	3" Crush @ $2.60	$0.70	/cu.yd.	x	8565	cu.yds.	=	$5,995.50
Oversize Reduction:	3" Drain @ $3.40	$4.50	/cu.yd.	x	1225	cu.yds.	=	$5,512.50
							Subtotal	$66,799.35

Move In/Set-up Crusher	1	@	$4,551.00		$4,551.00
Move In and set up Drill and Compressor	1	@	$763.98	=	$763.98
Move in Roller and Compactor	1	@	$763.98	=	$763.98
Move in Grader	1	@	$231.17	=	$231.17
Move in D-8	1	@	$1,157.32	=	$1,157.32
Move in Loader	1	@	$990.54	=	$990.54
Move in Excavator	1	@	$1,279.46	=	$1,279.46
Move in Trucks	4	@	$256.23	=	$1,024.92
Change Gradation	2	@	$210.00	=	$420.00
				Subtotal	$11,182.37

TOTAL PRODUCTION COSTS $77,981.72

Base Cost= $9.10 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 27980 37380 (3" Crush)	2.77	2.45	9.10	14.32	3290		$47,112.80
A to B 43380 46180 (3" Crush)	4.19	2.45	9.10	15.74	980		$15,425.20
A to B Free Drain Clean Rock (Drain)	4.02	0.60	9.10	13.72	80		$1,097.60
A to B Energy Dissipator (Riprap)	2.76	1.40	5.79	9.95	65		$646.75
A to B Leveling / Spot Rock (3" Crush)	3.54	2.45	9.10	15.09	200		$3,018.00
C to D 0 3440 (3" Crush)	5.63	2.45	9.10	17.18	790		$13,572.20
C to D Landing Rock (3" Crush)	5.92	2.45	9.10	17.47	50		$873.50
C to D Junction Rock (3" Crush)	5.35	2.45	9.10	16.90	20		$338.00
E to F 6620 11080 (3" Crush)	3.80	2.45	9.10	15.35	1010		$15,503.50
E to F 3300 4040 (3" Crush)	3.28	2.45	9.10	14.83	400		$5,932.00
E to F Free Drain Clean Rock (Drain)	5.15	1.40	9.10	15.65	30		$469.50
E to F Spot Rock (3" Crush)	4.24	2.45	9.10	15.79	100		$1,579.00
G to H 0 1300 (3" Crush)	6.65	2.45	9.10	18.20	310		$5,642.00
G to H Junction Rock (3" Crush)	6.54	2.45	9.10	18.09	20		$361.80
CC Heliport (3" Crush)	6.76	2.45	9.10	18.31	50		$915.50
DD Fill Repair at Culvert Outlet (Riprap)	8.69	1.40	5.79	15.88	10		$158.80
3" Crushed Rock Stockpile	2.71	0.60	9.10	12.41	1160		$14,395.60
				Total C.Y.	8565	Sub Total	$127,041.75

TOTAL ROCKING COSTS $127,041.75

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Property_Line_Quarry	Location:	NE 1/4, SE 1/4, Sec. 1, T3S, R7W, W.M.	
Sale:	**King Kong**		Road:	5130 c.y.
Swell:	1.40		Stockpile:	c.y.
Shirinkage	1.16		Total Truck Loads:	5130 c.y.
Drill Pct.:	100%		In Place Total:	3664 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area. Place overburden in Waste Area, spread and compact.							$3,519.58
Drill & Shoot:	$2.50	/cu.yd.	x	3664	cu.yds.	=	$9,160.00
Load Crusher:	$0.70	/cu.yd.	x	5130	cu.yds.	=	$3,591.00
Crush Rock:	$3.00	/cu.yd.	x	5130	cu.yds.	=	$15,390.00
Load Dump Truck:	$0.70	/cu.yd.	x	2810	cu.yds.	=	$1,967.00
						Subtotal	$33,627.58

Move In/Set-up Crusher	1	@	$4,915.70		$4,915.70
Move In and set up Drill and Compressor	1	@	$993.17	=	$993.17
Move in Roller and Compactor	1	@	$993.17	=	$993.17
Move in Grader	1	@	$300.52	=	$300.52
Move in Loader	1	@	$1,287.70	=	$1,287.70
Move in Excavator	1	@	$1,663.30	=	$1,663.30
Move in Trucks	4	@	$333.10	=	$1,332.40
				Subtotal	$11,485.96

TOTAL PRODUCTION COSTS $45,113.54

Base Cost= $8.79 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 Culvert Bed/Backfill (1.5" Crush)	8.23	0.60	8.79	17.62	260		$4,581.20
A to B Spot Rock (1.5" Crush)	8.23	2.45	8.79	19.47	500		$9,735.00
E to F 0 6620 (1.5" Crush)	6.76	2.45	8.79	18.00	1480		$26,640.00
E to F Culvert Bed/Backfill (1.5" Crush)	6.76	0.60	8.79	16.15	60		$969.00
E to F Junction Rock (1.5" Crush)	6.76	2.45	8.79	18.00	20		$360.00
O to P 0 720 (1.5" Crush)	13.41	2.45	8.79	24.65	90		$2,218.50
Q to R Bedding/Backfill (1.5" Crush)	13.43	0.60	8.79	22.82	30		$684.60
S to T 0 2200 (1.5" Crush)	13.55	2.45	8.79	24.79	260		$6,445.40
Y to Z 830 1200 (1.5" Crush)	11.49	2.45	8.79	22.73	60		$1,363.80
Y to Z 1460 1760 (1.5" Crush)	11.59	2.45	8.79	22.83	50		$1,141.50
1 1/2" Crushed Rock Stockpile	0.60	1.25	8.79	10.64	2320		$24,684.80
				Total C.Y.	5130	Sub Total	$78,823.80

TOTAL ROCKING COSTS $78,823.80

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

Sale: **King Kong**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
32.0	Pavement	30
18.0	Main Lines	7
6.0	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	$921.84		$46.00	0.00	0.00	6	$276.00	$1,197.84
1	Brush Cutter	$896.23		$4.00	0.00	0.00	12	$48.00	$944.23
1	Excavators (Med.)	$1,052.64		$35.50	0.00	0.00	6	$213.00	$1,265.64
1	Excavators (Large)	$1,303.99	1	$44.80	0.00	0.00	6	$268.80	$1,572.79
1	Tractor (D8)	$1,206.38	2	$15.10	0.00	0.00	6	$90.60	$1,296.98
2	Dump Truck (10 cy +)	$633.44		$2.85	0.00	0.00	6	$34.20	$667.64
1	Dump Truck (Off Hiway)	$1,052.64	1	$4.75	0.00	0.00	6	$28.50	$1,081.14

TOTAL MOVE-IN COSTS: $8,026.26

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
King Kong

1. Type of Sale
Partial Cut/Modified Clearcut, Recovery.

2. Legal Description
Portions of Sections 19, 20, 28, 29, 30, 32, and 33, T2S, R7W, W.M., Tillamook County, Oregon.

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

ACRES

	Gross	Net
Area 1 (Modified Clearcut)	139	109
Area 2 (Modified Clearcut)	157	118
Area 3 (Modified Clearcut)	110	72
Area 4 (Modified Clearcut)	121	81
Area 5 (Partial Cut)	65	55
Area 6 (Modified Clearcut)	18	10
Area 7 (Non Harvest)	--	--

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
The timber sale areas were cruised with variable plots. All Sale Areas were cruised on a 350' by 700' grid. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 8" DBH and greater containing 30 board feet were recorded on all plots. Species were recorded on all trees and measured for merchantable bole height, diameter, and form factor. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods respectively.

B. Plot size
BAF for each area as follows: Areas 1, 5 and 6 (33.61 BAF), Areas 2, 3, and 4 (22.78 BAF). Point of tree observation is at 4 feet.

C. Grading System

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

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal areas, ingrowth, advertised volumes, volume summaries, log stock tables, and stand tables for each species and type.

Net sale acreage was used for volume computation. Net acreage is the gross acreage (the area within the posted sale boundary) minus the posted buffer areas and roads.

The cruise data was grown forward with adjustments made for the reduced growth effects of Swiss Needle Cast. Sale Areas 1, 2, 5, and the east-half of Area 3 were grown forward to June 2016.

6. Hidden Defect and Breakage

A 1% reduction was applied to conifers and a 2% reduction to hardwood volumes for hidden defect and breakage in the volume summary.

Cruise Statistics (Board Foot Volumes)			
Area	Number of Plots	SE (%)	CV (%)
1	19	10.3	43.9
2	19	10.6	44.9
3	17	12.8	51.2
4	14	11.3	40.6
5	13	9.7	33.5
6	5	20.0	40.2

7. Timber Description

The sale areas burned in the 1933 Tillamook Fire, 1939 Saddle Mountain Fire, and the 1951 North Fork Fire. Planting data is unavailable for Areas 1, 2, 6, and the western half of Area 3. The eastern portion of Area 3 was seeded in 1960 and 1970. Area 4 was seeded in 1960 and 1967. The majority of Area 5 was seeded in 1960. Approximately 40 acres within Area 1 and 25 acres within Area 2 were thinned during the Bushong Thin of 2001.

Sale Area – Species	AVG DBH	Merchantable Bole Height	Merchantable Top
Area 1: Douglas-fir	16.0	69	5”
Area 1: Red alder	12.7	57	6”
Area 2: Douglas-fir	17.5	65	5”
Area 2: Red alder	12.7	47	6”
Area 3: Douglas-fir	14.3	55	5”
Area 3: Red alder take	13.3	35	6”
Area 4: Douglas-fir	15.7	59	5”
Area 4: Red alder	20.3	42	6”
Area 5: Douglas-fir take	13.9	61	5”
Area 5: Red alder	11.9	50	6”
Area 6: Douglas-fir	16.7	86	5”
Area 6: Red alder	15.0	47	6”

Above data derived from Statistics (type) report using SuperAce 2008, developed by Atterbury Consultants, Inc.

8. Cruiser Names/Dates

Service Contract 2011, 2014, and 2015. ODF staff 2016.

Revenue Distribution

FDF: 100%

Tax Code: 51% within Tax Code 9-1; 49% Tax Code 8-1

Deed Number: 169

9. Attachments

Stand Table

Volume Summary

Log Stock Tables

Logging Plan Map

10. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave
DF – Douglas-fir take
RA – Red alder take
OC – Conifer Snags (Class 1 or 2 and DBH > 15”)

FI TLOGSTVB

Log Stock Table - MBF

Project: KING

T02S R07W S20 TSALE

T02S R07W S20 TSALE

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	20	AREA1_2GRO	SALE	85.00	14	72

Page 1
Date 4/18/2016
Time 7:33:04AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		*	*	32	44		44	3.4			44									
DF		CO	2	26	23	6.2	21	1.6						21						
DF		CO	2	36	120	1.2	118	9.0							27	91				
DF		CO	2	40	397	1.1	392	29.8						234	119	39				
DF		CO	3	32	30		30	2.3			8		22							
DF		CO	3	36	97		97	7.3			57	19	21							
DF		CO	3	40	433	1.0	429	32.6			78	116	235							
DF		CO	4	13	2		2	.2		2										
DF		CO	4	14	1		1	.1		1										
DF		CO	4	15	14		14	1.1		13	2									
DF		CO	4	16	14		14	1.1		13	1									
DF		CO	4	17	3		3	.2		3										
DF		CO	4	19	5		5	.4		5										
DF		CO	4	20	10		10	.7		8	1									
DF		CO	4	21	8		8	.6		8										
DF		CO	4	24	14		14	1.0		3			10							
DF		CO	4	26	5		5	.4		5										
DF		CO	4	30	6		6	.5		6										
DF		CO	4	31	10		10	.8		10										
DF		CO	4	32	3		3	.2		3										
DF		CO	4	33	7		7	.5		7										
DF		CO	4	34	6		6	.5		6										
DF		CO	4	36	5		5	.4		5										
DF		CO	4	38	11		11	.8		11										
DF		CO	4	39	11		11	.9		11										
DF		CO	4	40	50		50	3.8		23	27									
DF		Totals			1,328		1,317	55.5		143	218	135	289	255	146	130				
RA		H	2	20	18		18	2.3						18						
RA		H	3	36	72		72	9.0					72							
RA		H	3	40	24	5.0	23	2.9						23						
RA		H	4	16	5		5	.6			5									
RA		H	4	17	6		6	.8			6									
RA		H	4	18	22		22	2.8			22									
RA		H	4	19	11		11	1.4			11									
RA		H	4	20	43		43	5.4			43									
RA		H	4	21	9		9	1.1			9									
RA		H	4	22	26		26	3.2			26									
RA		H	4	23	4		4	.5			4									
RA		H	4	24	12		12	1.5			12									
RA		H	4	30	18		18	2.3				18								
RA		H	4	32	82	1.8	81	10.2			6	52	23							
RA		H	4	36	240	4.4	229	28.8				229								
RA		H	4	40	222	2.0	218	27.4			61	157								
RA		Totals			814	2.2	796	33.6			204	456	95	41						
OC		*	*	32	259		259	100.0			259									
OC		Totals			259		259	10.9			259									
Total All Species					2,401	1.2	2,372	100.0		143	682	591	384	296	146	130				

FI TSTNDSUM

Stand Table Summary

Project **KING**

T02S R07W S20 TSALE **T02S R07W S20 TSALE**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page: 1
02S	07W	20	AREA1_2GROW	SALE	85.00	14	72	Date: 04/18/201(
								Time: 7:31:54AM

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
DF		9		88	96	6.703	2.65	6.70	17.2	77.8	3.42	115	521	291	98	44
DF		10		89	87	15.889	7.94	16.88	8.3	47.3	3.97	139	799	337	119	68
DF		11		88	82	4.290	2.65	4.56	14.4	70.9	1.86	65	323	158	56	27
DF		12		91	95	7.091	5.30	15.07	10.8	50.3	4.63	163	757	393	138	64
DF		13		90	95	2.979	2.65	6.33	12.7	53.2	2.29	80	337	195	68	29
DF		15		86	85	6.566	7.94	11.63	19.3	73.3	6.40	225	853	544	191	72
DF		16		88	100	1.907	2.65	4.05	21.9	88.7	2.52	89	359	214	75	31
DF		17		89	109	8.379	13.24	17.81	28.6	121.8	14.52	510	2,169	1,234	433	184
DF		18		88	97	4.453	7.94	9.46	27.3	112.3	7.36	259	1,063	626	220	90
DF		19		88	124	2.648	5.30	8.44	25.5	112.3	6.12	215	948	520	183	81
DF		20		88	105	3.565	7.94	7.58	39.7	153.7	8.56	301	1,165	727	256	99
DF		21		89	117	2.145	5.30	4.56	42.4	189.2	5.50	193	862	468	164	73
DF		22		86	106	4.864	13.24	12.40	40.1	153.7	14.17	498	1,907	1,204	423	162
DF		23		90	129	.886	2.65	2.83	43.1	208.9	3.47	122	590	295	103	50
DF		24		85	99	.811	2.65	1.72	57.4	183.3	2.81	99	316	239	84	27
DF		26		87	109	2.234	7.94	6.33	50.3	223.2	9.07	319	1,413	771	271	120
DF		27		88	122	1.373	5.30	4.38	53.2	254.2	6.63	233	1,113	564	198	95
DF		Totals		88	98	76.786	103.26	140.74	25.8	110.1	103.30	3,624	15,496	8,780	3,081	1,317
RA		11		92	111	12.124	7.61	16.66	13.5	73.8	6.18	225	1,229	525	191	104
RA		12		86	111	10.020	7.61	20.66	13.4	57.4	7.64	278	1,185	649	236	101
RA		13		89	98	14.281	12.68	29.44	14.7	63.8	11.90	433	1,877	1,011	368	160
RA		14		87	89	11.956	12.68	24.65	17.4	72.5	11.78	428	1,788	1,001	364	152
RA		15		87	89	8.403	10.15	17.32	19.9	79.8	9.50	345	1,382	808	294	117
RA		16		86	79	1.796	2.54	3.70	19.1	86.0	1.94	71	319	165	60	27
RA		17		88	81	1.579	2.54	3.25	24.7	104.5	2.21	80	340	188	68	29
RA		18		86	80	4.195	7.61	8.65	26.6	108.6	6.33	230	939	538	196	80
RA		20		88	82	1.119	2.54	2.31	38.1	135.2	2.42	88	312	205	75	27
RA		Totals		88	97	65.473	65.95	126.64	17.2	74.0	59.90	2,178	9,371	5,091	1,851	796
OC		21		67	31	1.089	2.59	1.09	110.4	465.8	3.01	120	507	255	102	43
OC		24		85	62	.812	2.59	.81	148.0	624.5	3.01	120	507	255	102	43
OC		26		82	48	.683	2.59	.68	176.1	743.2	3.01	120	507	255	102	43
OC		38		99	18	.321	2.59	.32	374.5	1580.5	3.01	120	507	255	102	43
OC		44		54	21	.246	2.59	.25	489.2	2064.3	3.01	120	507	255	102	43
OC		49		99	18	.194	2.59	.19	619.1	2612.7	3.01	120	507	255	102	43
OC		Totals		78	39	3.345	15.54	3.35	215.6	909.9	18.03	721	3,044	1,533	613	259
Totals				88	96	145.604	184.74	270.73	24.1	103.1	181.22	6524	27,911	15,404	5,545	2,372

FI TLOGSTVB

Log Stock Table - MBF

Project: KING

T02S R07W S19 TSALE **T02S R07W S19 TSALE**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1
02S	07W	19	AREA1GROW	SALE	24.00	5	30	Date	4/18/2016
								Time	7:27:29AM

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	38	20		20	3.2							20					
DF		CO	2	40	261	3.0	253	39.7						93	115	45				
DF		CO	3	32	65	9.4	59	9.2				43	16							
DF		CO	3	36	3		3	.5			3									
DF		CO	3	40	226	.7	224	35.2			15	53	156							
DF		CO	4	16	12		12	2.0		7	5									
DF		CO	4	19	1		1	.2		1										
DF		CO	4	20	5		5	.7		5										
DF		CO	4	21	2		2	.4		2										
DF		CO	4	24	17	14.5	14	2.2		13	2									
DF		CO	4	28	11		11	1.8		11										
DF		CO	4	32	2		2	.4		2										
DF		CO	4	34	9		9	1.4		9										
DF		CO	4	36	7		7	1.1		7										
DF		CO	4	40	13		13	2.1		13										
DF		Totals			655	2.7	637	92.6		70	26	96	172	93	135	45				
OC		*	*	32	43		43	100.0			43									
OC		Totals			43		43	6.2			43									
SS		CO	4	15	8		8	100.0			8									
SS		Totals			8		8	1.2			8									
Total All Species					706	2.5	688	100.0		70	76	96	172	93	135	45				

FI TSTNDSUM

Stand Table Summary

Project **KING**

T02S R07W S19 TSALE **T02S R07W S19 TSALE**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	19	AREA1GROW	SALE	24.00	5	30

Page: 1
Date: 04/18/201(
Time: 7:24:29AM

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
DF		10		90	74	12.114	7.00	12.57	12.2	43.6	4.36	153	548	105	37	13
DF		11		91	92	10.011	7.00	20.77	9.8	43.6	5.82	204	906	140	49	22
DF		14		88	89	24.722	28.00	51.29	16.9	62.7	24.77	869	3,214	594	209	77
DF		15		93	93	5.384	7.00	11.17	22.0	98.1	7.01	246	1,096	168	59	26
DF		16		91	86	9.464	14.00	19.63	23.0	98.1	12.85	451	1,926	308	108	46
DF		17		89	92	20.958	35.01	43.48	27.3	109.0	33.81	1,186	4,739	812	285	114
DF		19		89	114	7.478	14.00	19.39	28.7	113.4	15.84	556	2,198	380	133	53
DF		21		90	109	6.057	14.00	15.71	35.0	146.1	15.67	550	2,294	376	132	55
DF		22		90	96	8.241	21.00	14.25	44.5	174.4	18.06	634	2,485	433	152	60
DF		23		88	112	7.509	21.00	20.77	41.6	193.5	24.65	865	4,018	592	208	96
DF		25		91	88	4.206	14.00	8.73	53.6	226.2	13.34	468	1,974	320	112	47
DF		26		92	109	1.938	7.00	4.02	67.2	288.8	7.70	270	1,161	185	65	28
DF		Totals		90	93	118.082	189.03	241.78	26.7	109.9	183.88	6,452	26,560	4,413	1,548	637
OC		9		61	56	14.431	7.01	14.43	18.1	61.5	6.53	261	887	157	63	21
OC		58		69	63	.386	7.01	.39	675.5	2296.3	6.53	261	887	157	63	21
OC		Totals		61	56	14.817	14.02	14.82	35.2	119.8	13.05	522	1,775	313	125	43
SS		9		78	18	14.395	6.99	14.88	5.3	23.0	2.03	78	342	49	19	8
SS		Totals		78	18	14.395	6.99	14.88	5.3	23.0	2.03	78	342	49	19	8
Totals				86	82	147.294	210.04	271.47	26.0	105.6	198.96	7052	28,676	4,775	1,692	688

FI TLOGSTVB

Log Stock Table - MBF

Project: KING

T02S R07W S19 TSALE | **T02S R07W S19 TSALE**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1
02S	07W	19	AREA2GROW	SALE	118.00	19	109	Date	4/14/2016
								Time	9:11:12AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
									Net Volume by Scaling Diameter in Inches											
DF		CO	2	20	44		44	3.2							9	16	20			
DF		CO	2	32	51	2.9	49	3.5						26			23			
DF		CO	2	39	11		11	.8							11					
DF		CO	2	40	642	2.1	629	44.9						113	196	263	57			
DF		CO	3	16	8		8	.5					8							
DF		CO	3	29	3		3	.2			3									
DF		CO	3	32	31		31	2.2			17	14								
DF		CO	3	34	18		18	1.3			3	15								
DF		CO	3	35	3		3	.2			3									
DF		CO	3	38	10		10	.7			7	3								
DF		CO	3	40	463	3.1	449	32.0			74	67	279			11	18			
DF		CO	4	12	4		4	.3		4										
DF		CO	4	15	14		14	1.0		14										
DF		CO	4	18	16		16	1.1		13	1	1								
DF		CO	4	20	3		3	.2		2	1									
DF		CO	4	22	2		2	.2		2										
DF		CO	4	24	4		4	.3		4										
DF		CO	4	26	11		11	.8		11										
DF		CO	4	28	4		4	.3		4										
DF		CO	4	30	6		6	.4		6										
DF		CO	4	31	3		3	.2		3										
DF		CO	4	32	9		9	.6		9										
DF		CO	4	33	3		3	.2		3										
DF		CO	4	34	9		9	.6		9										
DF		CO	4	36	10		10	.7		10										
DF		CO	4	38	21		21	1.5		21										
DF		CO	4	39	5		5	.3		5										
DF		CO	4	40	22		22	1.6		22										
DF			Totals		1,430	2.0	1,401	65.6		143	110	99	286	139	216	290	118			
RA		*	*	32	27		27	5.2			27									
RA		H	2	20	17		17	3.2								17				
RA		H	3	40	69	5.8	65	12.4					65							
RA		H	4	32	36	20.8	29	5.4				29								
RA		H	4	33	14	20.0	11	2.1			11									
RA		H	4	34	14	16.7	12	2.2			12									
RA		H	4	35	9	20.0	7	1.3			7									
RA		H	4	38	10	16.7	9	1.6			9									
RA		H	4	40	374	6.1	351	66.5			191	160								
RA			Totals		571	7.6	528	24.7			257	189	65			17				
OC		*	*	32	179		179	100.0			179									
OC			Totals		179		179	8.4			179									
BM		*	*	32	27		27	100.0			27									
BM			Totals		27		27	1.3			27									
Total All Species					2,208	3.3	2,136	100.0		143	574	288	352	139	216	307	118			

FI TSTNDSUM

Stand Table Summary

Project KING

T02S R07W S19 TSALE

T02S R07W S19 TSALE

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	19	AREA2GROW	SALE	118.00	19	109

Page: 1
Date: 04/14/201(
Time: 9:10:34AM

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.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		7		86	22	5.466	1.54	5.68	2.6	21.4	.42	15	121	50	17	14
DF		10		86	88	5.357	3.07	8.34	9.9	39.2	2.35	82	327	277	97	39
DF		11		88	98	4.427	3.07	9.19	9.5	45.5	2.49	88	418	294	103	49
DF		13		86	100	3.170	3.07	4.94	17.1	67.7	2.41	85	334	284	100	39
DF		14		83	107	2.733	3.07	5.68	17.9	66.8	2.90	102	379	342	120	45
DF		16		89	105	3.139	4.61	6.52	26.3	110.5	4.89	172	720	577	203	85
DF		17		85	96	6.488	10.75	12.51	28.1	103.7	10.00	351	1,297	1,181	414	153
DF		18		86	118	2.480	4.61	6.01	26.8	107.0	4.59	161	643	542	190	76
DF		19		85	106	3.710	7.68	7.70	33.7	119.8	7.40	260	923	873	306	109
DF		21		85	110	.670	1.54	1.39	44.0	160.4	1.74	61	223	206	72	26
DF		22		86	119	3.037	7.68	7.57	37.8	150.6	8.15	286	1,140	962	337	135
DF		23		87	122	1.107	3.07	2.87	40.2	154.0	3.29	116	442	389	136	52
DF		24		90	124	1.013	3.07	1.58	63.2	256.7	2.84	100	405	335	118	48
DF		25		85	109	.465	1.54	.97	61.1	230.0	1.68	59	222	199	70	26
DF		26		90	97	.429	1.54	.89	62.5	235.3	1.58	56	209	187	66	25
DF		27		88	112	2.377	9.21	5.35	66.2	282.2	10.09	354	1,509	1,191	418	178
DF		28		90	123	1.102	4.61	2.67	69.1	331.6	5.26	185	885	621	218	104
DF		29		84	114	1.025	4.61	1.77	70.5	310.2	3.57	125	550	421	148	65
DF		30		86	129	.318	1.54	.99	69.6	310.2	1.97	69	308	232	82	36
DF		31		77	97	.298	1.54	.31	75.4	299.5	.66	23	93	78	27	11
DF		32		89	113	.557	3.07	.87	105.7	502.7	2.62	92	436	309	108	51
DF		34		90	135	.246	1.54	.51	115.4	385.0	1.68	59	197	198	70	23
DF		37		69	119	.207	1.54	.21	218.8	427.8	1.34	47	92	158	55	11
DF		Totals		86	96	49.820	87.52	94.52	31.2	125.6	83.94	2,945	11,875	9,905	3,475	1,401
RA		10		82	85	15.429	9.09	5.24	15.9	65.8	2.25	83	344	265	98	41
RA		11		86	86	14.876	10.60	12.98	17.9	65.8	6.29	233	854	742	275	101
RA		12		89	79	12.500	10.60	12.73	20.1	73.6	6.90	255	936	814	301	110
RA		14		84	65	4.565	4.54	3.10	21.0	65.8	1.76	65	204	208	77	24
RA		15		88	62	5.248	6.06	5.34	25.8	74.0	3.73	138	395	440	163	47
RA		16		86	73	4.571	6.06	4.65	31.7	106.9	4.34	148	497	512	174	59
RA		17		86	70	4.018	6.06	4.09	31.8	101.4	3.73	130	415	440	154	49
RA		18		78	68	.890	1.51	.91	45.3	87.7	1.11	41	79	131	48	9
RA		19		89	73	.794	1.51	.81	47.9	197.3	1.05	39	159	123	46	19
RA		20		76	65	.712	1.51	.71	77.3	326.3	1.54	55	232	182	65	27
RA		21		88	69	1.929	4.54	1.96	48.7	182.7	2.58	96	359	305	113	42
RA		Totals		86	78	65.531	62.09	52.52	24.4	85.2	35.28	1,283	4,475	4,163	1,514	528
OC		7		79	18	5.227	1.53	5.23	9.7	29.0	1.26	51	152	149	60	18
OC		17		84	73	1.000	1.53	1.00	50.5	151.6	1.26	51	152	149	60	18
OC		18		88	66	.886	1.53	.89	57.0	171.2	1.26	51	152	149	60	18
OC		26		80	85	.410	1.53	.41	123.3	370.1	1.26	51	152	149	60	18
OC		40		88	52	.177	1.53	.18	284.9	855.2	1.26	51	152	149	60	18
OC		42		90	60	.160	1.53	.16	315.7	947.5	1.26	51	152	149	60	18
OC		47		90	85	.126	1.53	.13	399.5	1199.2	1.26	51	152	149	60	18
OC		49		87	28	.116	1.53	.12	435.8	1308.2	1.26	51	152	149	60	18
OC		58		88	77	.169	3.06	.17	596.8	1791.4	2.53	101	303	298	119	36
OC		Totals		81	37	8.272	15.32	8.27	61.1	183.3	12.63	505	1,517	1,491	596	179
BM		23		58	79	.531	1.51	.53	103.6	437.5	1.46	55	232	172	65	27
BM		Totals		58	79	.531	1.51	.53	103.6	437.5	1.46	55	232	172	65	27
Totals				85	82	124.154	166.45	155.84	30.7	116.1	133.31	4788	18,099	15,730	5,650	2,136

FI TLOGSTVB

Log Stock Table - MBF

Project: KING

T02S R07W S29 TSALE **T02S R07W S29 TSALE**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	29	AREA3_2GRO	SALE	36.00	6	27

Page 1
Date 4/18/2016
Time 9:06:32AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
									Net Volume by Scaling Diameter in Inches											
DF		CO	2	20	36	5.3	34	5.5						17	17					
DF		CO	2	40	205	1.2	203	33.4						112	91					
DF		CO	3	32	72		72	11.8			44	28								
DF		CO	3	40	188		188	30.9			74	55	58							
DF		CO	4	16	13		13	2.2		13										
DF		CO	4	19	7		7	1.1		7										
DF		CO	4	20	8		8	1.3		8										
DF		CO	4	24	19		19	3.2		19										
DF		CO	4	32	8		8	1.4		8										
DF		CO	4	34	11		11	1.8		11										
DF		CO	4	35	4		4	.6		4										
DF		CO	4	38	19		19	3.2		19										
DF		CO	4	40	23		23	3.8		23										
DF		Totals			612		608	74.8		112	118	83	58	129	107					
OC		*	*	32	104		104	100.0			104									
OC		Totals			104		104	12.8			104									
RA		*	*	32	47		47	46.6			47									
RA		H	3	28	25		25	25.1					25							
RA		H	4	16	9	50.0	5	4.7			5									
RA		H	4	20	4		4	4.2			4									
RA		H	4	40	19		19	19.5			19									
RA		Totals			105	4.5	100	12.3			75		25							
Total All Species					821	1.1	812	100.0		112	297	83	83	129	107					

FI TSTNDSUM

Stand Table Summary

Project **KING**

T02S R07W S29 TSALE

T02S R07W S29 TSALE

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	29	AREA3_2GROW	SALE	36.00	6	27

Page: 1
Date: 04/18/201(
Time: 8:44:19AM

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
DF		10		90	65	24.244	13.83	24.91	11.7	42.8	8.33	292	1,067	300	105	38
DF		11		88	89	20.037	13.83	30.89	10.9	53.5	9.58	336	1,654	345	121	60
DF		12		87	85	25.254	20.74	51.91	11.1	46.4	16.48	578	2,409	593	208	87
DF		14		91	89	6.185	6.91	12.71	17.8	80.3	6.45	226	1,021	232	81	37
DF		15		90	87	5.388	6.91	11.07	19.3	80.3	6.10	214	889	220	77	32
DF		16		89	91	9.470	13.83	19.46	21.7	88.3	12.04	422	1,720	433	152	62
DF		17		91	109	4.195	6.91	8.62	30.3	128.5	7.45	261	1,108	268	94	40
DF		18		92	94	7.483	13.83	15.38	32.5	125.8	14.24	500	1,935	513	180	70
DF		19		90	91	3.358	6.91	6.90	34.2	117.8	6.74	236	813	242	85	29
DF		20		90	68	6.061	13.83	9.34	36.8	146.3	9.81	344	1,367	353	124	49
DF		21		90	103	2.749	6.91	5.65	47.0	187.4	7.57	266	1,059	272	96	38
DF		24		87	100	4.583	13.83	9.42	52.5	195.4	14.09	494	1,841	507	178	66
DF		Totals		89	84	119.006	138.28	206.27	20.2	81.8	118.87	4,171	16,882	4,279	1,502	608
OC		30		99	17	1.391	6.90	1.39	194.6	694.6	6.77	271	966	244	97	35
OC		37		64	53	.902	6.90	.90	299.8	1070.4	6.77	271	966	244	97	35
OC		52		99	17	.468	6.90	.47	578.4	2064.8	6.77	271	966	244	97	35
OC		Totals		88	29	2.761	20.71	2.76	294.0	1049.6	20.30	812	2,898	731	292	104
RA		10		70	21	11.811	6.83	11.97	6.3	10.9	2.04	75	130	74	27	5
RA		13		91	63	6.989	6.83	7.08	22.3	76.3	4.29	158	540	154	57	19
RA		15		93	75	5.249	6.83	10.64	16.7	76.3	4.84	178	811	174	64	29
RA		22		90	66	2.678	6.83	2.68	97.9	482.7	7.33	262	1,293	264	94	47
RA		Totals		82	47	26.727	27.33	32.37	20.8	85.7	18.50	673	2,775	666	242	100
Totals				88	76	148.495	186.31	241.40	23.4	93.4	157.67	5656	22,555	5,676	2,036	812

TC TLOGSTVB

Log Stock Table - MBF

Project: KING

T02S R07W S29 TSALE **T02S R07W S29 TSALE**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	
02S	07W	29	AREA3_GROW	SALE	36.00	11	67	Page 1 Date 6/8/2016 Time 2:04:27PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	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	16	6		6	1.9								6				
DF		CO	2	26	16		16	5.0						7		9				
DF		CO	2	40	55	.8	54	16.6						44	10					
DF		CO	3	32	22	5.3	21	6.3			7	14								
DF		CO	3	36	2		2	.5			2									
DF		CO	3	40	155	1.8	152	46.4			30	79	44							
DF		CO	4	14	2		2	.6		2										
DF		CO	4	17	2		2	.7		2										
DF		CO	4	18	2		2	.7		2										
DF		CO	4	19	4		4	1.3		4										
DF		CO	4	20	3		3	.9		3										
DF		CO	4	21	2		2	.7		2										
DF		CO	4	22	2		2	.7		2										
DF		CO	4	23	7		7	2.1		7										
DF		CO	4	25	1		1	.3		1										
DF		CO	4	26	3		3	.8		3										
DF		CO	4	28	6		6	1.9		6										
DF		CO	4	32	2		2	.7		2										
DF		CO	4	33	3		3	.8		3										
DF		CO	4	35	10		10	3.2		10										
DF		CO	4	36	2		2	.6		2										
DF		CO	4	37	2		2	.7		2										
DF		CO	4	38	2		2	.6		2										
DF		CO	4	40	20		20	6.2		20										
DF		Totals			333	1.3	328	79.5		77	39	92	44	51	10	15				
RA		H	2	40	16	8.4	15	17.2						7	8					
RA		H	4	17	1		1	.9			1									
RA		H	4	18	1		1	1.7			1									
RA		H	4	23	5		5	5.9			5									
RA		H	4	25	3		3	3.0			3									
RA		H	4	26	4		4	4.9			4									
RA		H	4	30	17	18.1	14	16.2			14									
RA		H	4	35	5		5	5.8			5									
RA		H	4	36	6	16.7	5	5.8			5									
RA		H	4	38	13		13	15.2			13									
RA		H	4	40	20	2.1	20	23.3			15	5								
RA		Totals			91	6.4	85	20.5			66	5		7	8					
Total All Species					423	2.4	413	100.0		77	104	97	44	58	18	15				

TC TSTNDSUM

Stand Table Summary

Project **KING**

T02S R07W S29 TSALE **T02S R07W S29 TSALE**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	29	AREA3_GROW	SALE	36.00	11	67

Page: 1
Date: 06/08/201(
Time: 2:02:22PM

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
DF		8	1	78	48	7.235	2.53	7.23	5.6	20.0	1.15	40	145	41	15	5
DF		9	1	83	54	5.716	2.53	5.72	6.8	30.0	1.11	39	171	40	14	6
DF		10	1	84	73	4.630	2.53	4.63	11.6	40.0	1.53	54	185	55	19	7
DF		11	1	86	52	3.827	2.53	3.83	11.9	40.0	1.30	46	153	47	16	6
DF		12	4	83	70	12.862	10.10	19.29	9.9	38.3	5.42	190	740	195	68	27
DF		13	6	83	67	16.439	15.15	16.44	17.9	58.3	8.39	294	959	302	106	35
DF		14	5	81	69	11.812	12.63	16.54	16.5	52.9	7.79	273	874	280	98	31
DF		15	5	86	82	10.290	12.63	20.58	17.4	63.0	10.22	358	1,296	368	129	47
DF		16	4	84	84	7.235	10.10	12.66	23.0	72.9	8.29	291	922	299	105	33
DF		17	3	85	92	4.807	7.58	9.61	26.8	101.7	7.34	258	977	264	93	35
DF		19	5	85	99	6.413	12.63	12.83	34.1	118.0	12.45	437	1,514	448	157	54
DF		21	1	84	79	1.050	2.53	2.10	35.4	115.0	2.12	74	241	76	27	9
DF		22	3	84	91	2.870	7.58	4.78	26.9	126.0	3.66	128	603	132	46	22
DF		24	1	84	94	.804	2.53	1.61	56.5	210.0	2.59	91	338	93	33	12
DF		Totals	41	83	72	95.990	103.54	137.85	18.7	66.2	73.36	2,574	9,119	2,641	927	328
RA		10	3	79	66	13.891	7.58	13.89	12.3	40.0	4.68	170	556	169	61	20
RA		11	2	81	50	7.653	5.05	7.65	12.0	30.0	2.52	92	230	91	33	8
RA		12	2	84	54	6.431	5.05	6.43	16.7	50.0	2.95	107	322	106	39	12
RA		13	3	83	54	8.220	7.58	8.22	20.3	53.3	4.59	167	438	165	60	16
RA		14	1	83	32	2.362	2.53	2.36	15.8	30.0	1.03	37	71	37	13	3
RA		15	2	74	42	4.116	5.05	4.12	23.0	45.0	2.61	95	185	94	34	7
RA		20	1	78	59	1.158	2.53	1.16	56.9	110.0	1.81	66	127	65	24	5
RA		21	1	82	72	1.050	2.53	2.10	38.4	100.0	2.22	81	210	80	29	8
RA		24	1	81	83	.804	2.53	.80	89.6	270.0	1.98	72	217	71	26	8
RA		Totals	16	81	56	45.685	40.41	46.73	19.0	50.4	24.40	887	2,356	878	319	85
OC		15	1	70	55	2.058	2.53									
OC		34	1	79	14	.401	2.53									
OC		35	1	78	46	.378	2.53									
OC		41	1	80	21	.275	2.53									
OC		43	1	78	17	.250	2.53									
OC		44	1	69	64	.239	2.53									
OC		50	1	77	72	.185	2.53									
OC		53	1	79	17	.165	2.53									
OC		56	1	80	17	.148	2.53									
OC		58	1	74	56	.138	2.53									
OC		Totals	10	74	44	4.237	25.25									
Totals			67	82	66	145.911	169.21	184.58	18.8	62.2	97.76	3461	11,474	3,519	1,246	413

TC TLOGSTVB

Log Stock Table - MBF

Project: KING

T02S R07W S28 TSALE

T02S R07W S28 TSALE

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	28	AREA4GROW	SALE	81.00	14	95

Page 1
Date 6/8/2016
Time 2:00:15PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
									Net Volume by Scaling Diameter in Inches											
DF		CO	2	32	15		15	1.0						6	8					
DF		CO	2	40	578	2.3	565	40.2						233	105	118	64	45		
DF		CO	3	20	2		2	.2					2							
DF		CO	3	23	2		2	.1					2							
DF		CO	3	32	76		76	5.4				76								
DF		CO	3	38	6	4.2	5	.4			3	2								
DF		CO	3	40	512	3.3	495	35.3			86	184	198		7		20			
DF		CO	4	13	1		1	.1		1										
DF		CO	4	16	2		2	.2		2										
DF		CO	4	17	6		6	.4		6										
DF		CO	4	18	5		5	.4		5										
DF		CO	4	19	10		10	.7		9	1									
DF		CO	4	20	5		5	.3		3	1									
DF		CO	4	21	4		4	.3		4										
DF		CO	4	22	5		5	.4		5										
DF		CO	4	23	9		9	.6		8		1								
DF		CO	4	24	10	10.4	9	.6		9										
DF		CO	4	25	4		4	.3		4										
DF		CO	4	26	12		12	.9		12										
DF		CO	4	27	12		12	.9		12										
DF		CO	4	29	16		16	1.1		14	2									
DF		CO	4	30	14		14	1.0		14										
DF		CO	4	31	15		15	1.1		15										
DF		CO	4	32	7		7	.5		7										
DF		CO	4	33	7	25.0	5	.4		5										
DF		CO	4	34	10		10	.7		10										
DF		CO	4	35	3		3	.2		3										
DF		CO	4	36	32		32	2.3		32										
DF		CO	4	37	26		26	1.8		26										
DF		CO	4	38	12		12	.8		12										
DF		CO	4	39	3		3	.2		3										
DF		CO	4	40	16		16	1.1		16										
DF		Totals			1,437	2.3	1,404	99.0		238	94	265	202	239	120	118	83	45		
RA		H	2	34	10	5.9	10	70.5						10						
RA		H	4	37	5	16.7	4	29.5			4									
RA		Totals			15	9.3	14	1.0			4			10						
Total All Species					1,452	2.4	1,418	100.0		238	98	265	202	249	120	118	83	45		

FI TSTNDSUM

Stand Table Summary

Project **KING**

T02S R07W S28 TSALE

T02S R07W S28 TSALE

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	28	AREA4GROW	SALE	81.00	14	95

Page: 1
Date: 06/08/201(
Time: 1:58:33PM

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
DF		8		85	60	5.685	1.98	5.68	5.9	30.0	.95	33	171	77	27	14
DF		9		83	60	4.492	1.98	4.49	7.3	30.0	.93	33	135	75	26	11
DF		10		85	57	7.276	3.97	7.28	9.8	35.0	2.04	72	255	165	58	21
DF		11		87	128	3.007	1.98	6.01	11.8	55.0	2.02	71	331	163	57	27
DF		12		84	72	20.212	15.87	27.79	13.4	50.0	10.64	373	1,390	862	302	113
DF		13		85	63	12.916	11.91	19.37	13.3	44.4	7.35	258	861	595	209	70
DF		14		86	81	7.425	7.94	14.85	14.8	55.0	6.28	220	817	509	179	66
DF		15		86	84	12.936	15.87	24.25	19.0	69.3	13.15	462	1,682	1,065	374	136
DF		16		85	88	7.106	9.92	14.21	21.7	79.0	8.77	308	1,123	711	249	91
DF		17		86	90	7.553	11.91	15.11	25.2	94.2	10.85	381	1,423	879	308	115
DF		18		88	107	3.369	5.95	7.86	28.0	110.0	6.27	220	865	508	178	70
DF		19		86	87	2.016	3.97	4.03	31.4	100.0	3.60	126	403	292	102	33
DF		20		86	91	5.457	11.91	10.91	35.0	122.5	10.89	382	1,337	882	309	108
DF		21		86	97	4.950	11.91	10.72	39.1	138.5	11.95	419	1,485	968	340	120
DF		22		85	90	2.255	5.95	4.51	45.1	153.3	5.80	204	692	470	165	56
DF		23		85	95	1.375	3.97	2.75	51.6	172.5	4.05	142	475	328	115	38
DF		24		87	84	.632	1.98	1.26	51.4	190.0	1.85	65	240	150	53	19
DF		25		87	103	.582	1.98	1.16	62.0	235.0	2.06	72	274	167	58	22
DF		26		86	97	1.076	3.97	1.08	63.9	230.0	1.96	69	248	159	56	20
DF		27		86	115	.499	1.98	1.50	53.5	236.7	2.28	80	354	185	65	29
DF		28		85	123	.464	1.98	1.39	63.3	266.7	2.51	88	371	204	71	30
DF		29		87	120	.433	1.98	1.30	65.8	323.3	2.43	85	420	197	69	34
DF		31		83	99	.379	1.98	.38	144.2	600.0	1.56	55	227	126	44	18
DF		32		84	122	.711	3.97	1.78	94.1	366.0	4.76	167	650	386	135	53
DF		35		86	96	.297	1.98	.59	118.7	455.0	2.01	71	270	163	57	22
DF		37		86	136	.266	1.98	.53	160.5	840.0	2.43	85	446	197	69	36
DF		42		84	131	.206	1.98	.62	144.4	630.0	2.55	89	390	206	72	32
DF		Totals		85	80	113.572	152.79	191.43	24.2	90.5	131.94	4,630	17,331	10,687	3,750	1,404
RA		19		78	46	1.008	1.98	1.01	44.0	50.0	1.22	44	50	99	36	4
RA		22		82	57	.752	1.98	.75	58.2	160.0	1.20	44	120	97	35	10
RA		Totals		80	51	1.759	3.97	1.76	50.1	97.0	2.42	88	171	196	71	14
OC		10		78	54	3.638	1.98									
OC		12		85	76	5.053	3.97									
OC		14		86	69	1.856	1.98									
OC		25		85	178	.582	1.98									
OC		29		84	38	.433	1.98									
OC		30		86	115	.404	1.98									
OC		31		82	17	.379	1.98									
OC		32		83	72	.355	1.98									
OC		40		82	48	.227	1.98									
OC		43		84	62	.197	1.98									
OC		44		90	76	.188	1.98									
OC		45		82	64	.180	1.98									
OC		48		78	32	.158	1.98									
OC		51		86	27	.140	1.98									
OC		59		80	44	.105	1.98									
OC		Totals		83	70	13.894	31.75									
Totals				85	79	129.226	188.51	193.19	24.4	90.6	134.36	4718	17,502	10,884	3,821	1,418

TC TLOGSTVB

Log Stock Table - MBF

Project: KING

T02S R07W S29 TTHIN | **T02S R07W S29 TTHIN**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	29	AREA5_2	THIN	10.00	4	20

Page 1
Date 4/14/2016
Time 9:20:09AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DL		CO	2	32	5		5	2.5						5						
DL		CO	2	36	6		6	2.8						6						
DL		CO	2	40	122		122	55.8						28	44	51				
DL		CO	3	30	10		10	4.5						10						
DL		CO	3	32	16		16	7.3				9		7						
DL		CO	3	36	4		4	1.8				4								
DL		CO	3	40	37		37	17.0			4	19	15							
DL		CO	4	13	0		0	.2		0										
DL		CO	4	15	2		2	1.1		2										
DL		CO	4	17	1		1	.4		1										
DL		CO	4	19	1		1	.7		1										
DL		CO	4	20	2		2	1.0		2										
DL		CO	4	23	1		1	.3		1										
DL		CO	4	27	1		1	.5		1										
DL		CO	4	32	5		5	2.3			5									
DL		CO	4	33	3		3	1.2		3										
DL		CO	4	37	2		2	.8		2										
DL		Totals			219		219	69.3		13	9	32	15	56	44	51				
DF		CO	2	32	9		9	9.3							9					
DF		CO	2	40	13		13	13.0							13					
DF		CO	3	32	4		4	3.7				4								
DF		CO	3	34	3		3	3.1				3								
DF		CO	3	40	48	1.6	47	48.7			10	18	9		10					
DF		CO	4	13	1		1	1.1		1										
DF		CO	4	14	0		0	.4		0										
DF		CO	4	17	1		1	.7		1										
DF		CO	4	21	4		4	4.4		4										
DF		CO	4	23	3		3	3.0		3										
DF		CO	4	28	3		3	3.2		3										
DF		CO	4	30	3		3	2.6				3								
DF		CO	4	34	3		3	3.2		3										
DF		CO	4	36	4		4	3.7			4									
DF		Totals			98		97	30.7		15	14	27	9		32					
Total All Species					316		315	100.0		29	22	58	24	56	76	51				

TC TSTNDSUM

Stand Table Summary

Project **KING**

T02S R07W S29 TTHIN | **T02S R07W S29 TTHIN**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	29	AREA5_2	THIN	10.00	4	20

Page: 1
Date: 04/14/2010
Time: 9:19:17AM

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
DL		14	1	92	81	10.718	11.46	21.44	16.5	70.0	9.74	354	1,501	97	35	15
DL		16	1	90	115	8.206	11.46	24.62	18.5	86.7	12.55	456	2,134	125	46	21
DL		17	1	91	117	7.269	11.46	21.81	22.1	96.7	13.27	483	2,108	133	48	21
DL		18	2	86	95	12.968	22.92	25.94	29.4	112.5	20.95	762	2,918	210	76	29
DL		21	1	86	120	4.764	11.46	14.29	34.9	143.3	13.70	498	2,048	137	50	20
DL		22	2	89	118	8.681	22.92	26.04	38.5	176.7	27.58	1,003	4,601	276	100	46
DL		23	1	86	110	3.971	11.46	11.91	37.2	160.0	12.20	444	1,906	122	44	19
DL		25	2	90	117	6.722	22.92	20.17	49.1	230.0	27.19	990	4,639	272	99	46
DL		Totals	11	89	106	63.300	126.04	166.21	30.0	131.5	137.20	4,990	21,854	1,372	499	219
DF		9	1	70	44	21.397	9.45	21.40	6.1	20.0	3.70	130	428	37	13	4
DF		11	1	81	114	14.323	9.45	28.65	11.6	45.0	9.46	332	1,289	95	33	13
DF		13	1	86	100	10.255	9.45	20.51	14.7	60.0	8.62	302	1,231	86	30	12
DF		15	1	86	101	7.703	9.45	15.41	19.9	75.0	8.79	307	1,155	88	31	12
DF		17	1	81	120	5.997	9.45	17.99	19.9	73.3	10.20	358	1,319	102	36	13
DF		20	1	89	108	4.333	9.45	13.00	29.3	123.3	10.87	381	1,603	109	38	16
DF		21	1	87	96	3.930	9.45	11.79	26.7	110.0	8.99	315	1,297	90	32	13
DF		22	1	83	111	3.581	9.45	10.74	33.9	126.7	10.38	364	1,361	104	36	14
DF		Totals	8	80	89	71.519	75.62	139.48	17.9	69.4	71.02	2,490	9,683	710	249	97
OC		60	1	37	20	.428	8.40									
OC		Totals	1	37	20	.428	8.40									
Totals			20	84	97	135.247	210.06	305.70	24.5	103.2	208.21	7480	31,537	2,082	748	315

FI TLOGSTVB

Log Stock Table - MBF

Project: KING

T02S R07W S29 TTHIN **T02S R07W S29 TTHIN**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page 1
02S	07W	29	AREA5_GROW	THIN	45.00	10	55	Date 6/8/2016
								Time 3:15:09PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DL		CO	2	18	6		6	.8						6						
DL		CO	2	24	19		19	2.6										19		
DL		CO	2	32	5		5	.7						5						
DL		CO	2	34	18		18	2.4							18					
DL		CO	2	40	413	3.1	400	54.5						138	127	135				
DL		CO	3	28	2		2	.3			2									
DL		CO	3	32	35	6.3	32	4.4				20	7		5					
DL		CO	3	35	3		3	.4			3									
DL		CO	3	37	3		3	.4			3									
DL		CO	3	38	3		3	.4			3									
DL		CO	3	40	180	4.9	171	23.3			18	47	92				14			
DL		CO	4	16	9	23.9	7	.9		7										
DL		CO	4	17	1		1	.1				1								
DL		CO	4	18	4		4	.5		2	1	1								
DL		CO	4	20	2	12.5	2	.3		1		1								
DL		CO	4	21	2		2	.3		2										
DL		CO	4	22	6		6	.8		5	2									
DL		CO	4	26	6		6	.8		6										
DL		CO	4	28	5		5	.6		5										
DL		CO	4	29	2		2	.2		2										
DL		CO	4	32	4		4	.5		4										
DL		CO	4	34	11		11	1.5		11										
DL		CO	4	36	5		5	.7		5										
DL		CO	4	39	5		5	.7		5										
DL		CO	4	40	12		12	1.6		12										
DL		Totals			761	3.5	735	64.5		66	32	69	100	150	150	135	14	19		
DF		CO	2	40	42	1.6	41	10.9						22	19					
DF		CO	3	18	8		8	2.1					8							
DF		CO	3	32	45	9.8	41	10.8			23	18								
DF		CO	3	36	15		15	3.9			15									
DF		CO	3	40	212	1.0	210	55.6			75	15	121							
DF		CO	4	14	3		3	.8		3										
DF		CO	4	15	3		3	.7		3										
DF		CO	4	16	20		20	5.4		11	9									
DF		CO	4	18	2		2	.5		2										
DF		CO	4	20	6		6	1.6		6										
DF		CO	4	22	10		10	2.6		8	2									
DF		CO	4	28	4		4	.9		4										
DF		CO	4	30	4		4	.9		4										
DF		CO	4	32	3		3	.8		3										
DF		CO	4	34	5		5	1.2		5										
DF		CO	4	36	4		4	1.1		4										
DF		Totals			385	1.9	378	33.2		51	124	33	129	22	19					
AL		H	4	16	3		3	25.0			3									
AL		H	4	32	15	33.3	10	75.0				10								
AL		Totals			19	27.3	14	1.2			3	10								
RA		H	4	40	17	28.6	12	100.0			12									

Net Volume by Scaling Diameter in Inches (columns 2-3 through 40+)

FI TLOGSTVB

Log Stock Table - MBF

Project: **KING**

T02S R07W S29 TTHIN

T02S R07W S29 TTHIN

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	29	AREA5_GROW	THIN	45.00	10	55

Date 6/8/2016

Time 3:15:09PM

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+
RA				Totals	17	28.6	12	1.1			12									
Total All Species					1,183	3.7	1,139	100.0		117	171	112	228	172	169	135	14	19		

FI TSTNDSUM

Stand Table Summary

Project **KING**

T02S R07W S29 TTHIN | **T02S R07W S29 TTHIN**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	29	AREA5_GROW	THIN	45.00	10	55

Page: 1
Date: 06/08/201(
Time: 3:13:59PM

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
DL		12		88	95	8.388	6.94	17.23	12.7	53.7	6.00	218	926	270	98	42
DL		14		91	77	3.081	3.47	6.33	15.4	59.1	2.68	97	374	120	44	17
DL		15		90	109	2.684	3.47	5.52	23.9	96.7	3.63	132	533	163	59	24
DL		16		86	91	4.718	6.94	9.69	23.4	85.9	6.24	227	833	281	102	37
DL		18		89	102	9.320	17.34	21.06	30.5	122.1	17.65	642	2,571	794	289	116
DL		19		92	82	3.346	6.94	6.87	29.8	112.8	5.64	205	775	254	92	35
DL		21		87	107	6.039	13.87	15.51	34.2	130.0	14.57	530	2,016	656	238	91
DL		22		86	84	2.739	6.94	5.63	37.2	120.8	5.76	210	680	259	94	31
DL		23		90	104	3.743	10.41	8.97	44.5	185.7	10.98	399	1,666	494	180	75
DL		24		86	104	2.283	6.94	4.69	35.6	134.3	4.59	167	630	207	75	28
DL		25		91	107	3.145	10.41	7.54	54.1	222.5	11.23	408	1,678	505	184	75
DL		26		85	92	1.933	6.94	3.97	61.3	230.9	6.69	243	917	301	109	41
DL		28		92	97	.828	3.47	1.70	74.6	322.2	3.49	127	548	157	57	25
DL		29		83	130	.770	3.47	2.37	64.2	272.1	4.19	152	646	189	69	29
DL		32		80	123	1.257	6.94	3.87	62.4	232.7	6.64	242	901	299	109	41
DL		35		88	117	.522	3.47	1.61	76.2	397.4	3.38	123	640	152	55	29
DL		Totals		88	98	54.798	117.92	122.59	33.6	133.2	113.36	4,122	16,334	5,101	1,855	735
DF		8		88	103	9.436	3.47	9.69	3.9	21.5	1.08	38	208	48	17	9
DF		10		90	91	18.118	10.41	31.02	8.5	43.0	7.56	265	1,333	340	119	60
DF		11		89	93	14.974	10.41	25.64	11.5	51.6	8.41	295	1,322	378	133	59
DF		13		91	75	3.574	3.47	7.34	13.3	48.3	2.79	98	355	126	44	16
DF		15		85	90	8.052	10.41	19.30	16.2	67.5	8.90	312	1,303	401	141	59
DF		16		90	95	7.077	10.41	14.54	24.1	98.5	9.98	350	1,432	449	158	64
DF		17		91	97	4.179	6.94	8.59	28.7	115.5	7.02	246	992	316	111	45
DF		18		92	117	1.864	3.47	5.74	26.1	114.6	4.28	150	658	192	68	30
DF		21		75	86	1.510	3.47	3.10	35.3	91.3	3.12	109	283	140	49	13
DF		22		90	103	1.369	3.47	2.81	47.4	182.6	3.80	133	514	171	60	23
DF		Totals		89	94	70.154	65.90	127.79	15.6	65.7	56.93	1,998	8,399	2,562	899	378
AL		13		91	73	3.489	3.45	7.07	10.2	43.0	1.98	72	304	89	32	14
AL		Totals		91	73	3.489	3.45	7.07	10.2	43.0	1.98	72	304	89	32	14
RA		11		91	86	4.926	3.45	4.99	11.7	54.5	1.60	58	272	72	26	12
RA		Totals		91	86	4.926	3.45	4.99	11.7	54.5	1.60	58	272	72	26	12
Totals				89	95	133.367	190.72	262.44	23.8	96.4	173.88	6250	25,309	7,824	2,813	1,139

TC TLOGSTVB

Log Stock Table - MBF

Project: KING

T02S R07W S29 TSALE **T02S R07W S29 TSALE**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1
02S	07W	29	AREA6GROW	SALE	10.00	5	36	Date	4/14/2016
								Time	9:21:33AM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
									Net Volume by Scaling Diameter in Inches											
DF		CO	2	30	5		5	1.3						5						
DF		CO	2	32	28	1.7	28	6.7						4		15		9		
DF		CO	2	34	6	5.9	6	1.5						6						
DF		CO	2	38	4		4	1.1						4						
DF		CO	2	40	119		119	29.2						38	18	52	12			
DF		CO	3	28	5		5	1.3						5						
DF		CO	3	32	5		5	1.2					3	2						
DF		CO	3	36	3		3	.6			3									
DF		CO	3	40	122	1.6	120	29.3			2	30	60	10		17				
DF		CO	4	12	2		2	.4		2										
DF		CO	4	13	2		2	.6		2										
DF		CO	4	16	0		0	.1		0										
DF		CO	4	17	1		1	.3		1										
DF		CO	4	18	1		1	.2		1										
DF		CO	4	19	2		2	.6		2										
DF		CO	4	20	1		1	.2		1		0								
DF		CO	4	22	3		3	.7		1		2								
DF		CO	4	23	3		3	.8		3										
DF		CO	4	25	1		1	.2		1										
DF		CO	4	28	6		6	1.4		1		4								
DF		CO	4	31	3		3	.7		3										
DF		CO	4	32	1		1	.1		1										
DF		CO	4	33	3		3	.8		3										
DF		CO	4	34	8		8	1.9			8									
DF		CO	4	35	7		7	1.7		3			4							
DF		CO	4	36	4		4	1.1			4									
DF		CO	4	37	1		1	.2		1										
DF		CO	4	38	7		7	1.8			7									
DF		CO	4	39	5		5	1.2		4	1									
DF		CO	4	40	52		52	12.7		3	22	28								
DF		Totals			411		408	99.2		33	46	65	67	75	18	83	12	9		
RA		H	4	40	3		3	100.0			3									
RA		Totals			3		3	.8			3									
Total All Species					414		411	100.0		33	50	65	67	75	18	83	12	9		

TC TSTNDSUM

Stand Table Summary

Project **KING**

T02S R07W S29 TSALE

T02S R07W S29 TSALE

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	29	AREA6GROW	SALE	10.00	5	36

Page: 1
Date: 04/14/201(
Time: 9:20:46AM

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
DF		9	1	81	98	15.216	6.72	30.43	6.5	30.0	5.64	198	913	56	20	9
DF		11	2	86	129	20.371	13.44	40.74	13.0	57.5	15.14	531	2,343	151	53	23
DF		12	1	75	167	8.559	6.72	25.68	10.2	43.3	7.47	262	1,113	75	26	11
DF		13	1	81	71	7.293	6.72	14.59	11.9	35.0	4.95	174	510	50	17	5
DF		14	2	88	108	12.576	13.44	25.15	19.6	80.0	14.08	494	2,012	141	49	20
DF		15	1	87	124	5.478	6.72	16.43	16.7	76.7	7.83	275	1,260	78	27	13
DF		16	4	87	118	19.257	26.89	52.96	20.2	85.5	30.54	1,071	4,525	305	107	45
DF		17	3	85	122	12.794	20.17	34.12	23.7	93.8	23.03	809	3,198	230	81	32
DF		18	5	84	130	19.019	33.61	57.06	24.7	100.0	40.19	1,409	5,706	402	141	57
DF		19	2	85	116	6.828	13.44	17.07	28.0	118.0	13.63	478	2,014	136	48	20
DF		21	3	85	105	8.384	20.17	19.56	38.1	161.4	21.25	746	3,158	213	75	32
DF		22	1	94	128	2.546	6.72	7.64	40.9	200.0	8.90	312	1,528	89	31	15
DF		23	2	90	114	4.660	13.44	13.98	41.0	188.3	16.30	573	2,633	163	57	26
DF		25	1	83	116	1.972	6.72	5.92	45.9	180.0	7.74	272	1,065	77	27	11
DF		26	4	86	126	7.293	26.89	21.88	54.6	241.7	34.04	1,194	5,287	340	119	53
DF		30	1	90	143	1.369	6.72	4.11	85.9	436.7	10.06	353	1,794	101	35	18
DF		34	1	82	153	1.066	6.72	4.26	78.1	410.0	9.49	333	1,748	95	33	17
DF		Totals	35	85	119	154.680	235.27	391.57	24.2	104.2	270.28	9,484	40,808	2,703	948	408
RA		15	1	63	86	5.478	6.72	5.48	19.6	60.0	2.96	108	329	30	11	3
RA		Totals	1	63	86	5.478	6.72	5.48	19.6	60.0	2.96	108	329	30	11	3
Totals			36	84	118	160.158	241.99	397.05	24.2	103.6	273.24	9591	41,136	2,732	959	411

"STEWARDSHIP IN FORESTRY"

King Kong

Volume Summary

Area 1- Modified Clearcut				
	109 acres			
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Area MBF
Douglas-fir	17.927	1954	1%	1934
Alder	7.303	796	2%	780
TOTAL	25.229	2750		2715

Area 2-Modified Clearcut				
	118 acres			
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Area MBF
Douglas-fir	11.873	1401	1%	1387
Alder	4.475	528	2%	517
TOTAL	16.347	1929		1904

Area 3-Modified Clearcut				
	72 acres			
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Area MBF
Douglas-fir	13.000	936	1%	927
Alder	2.569	185	2%	181
TOTAL	15.569	1121		1108

Area 4-Modified Clearcut				
	81 acres			
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Area MBF
Douglas-fir	17.333	1404	1%	1390
Alder	0.173	14	2%	14
TOTAL	17.506	1418		1404

"STEWARDSHIP IN FORESTRY"

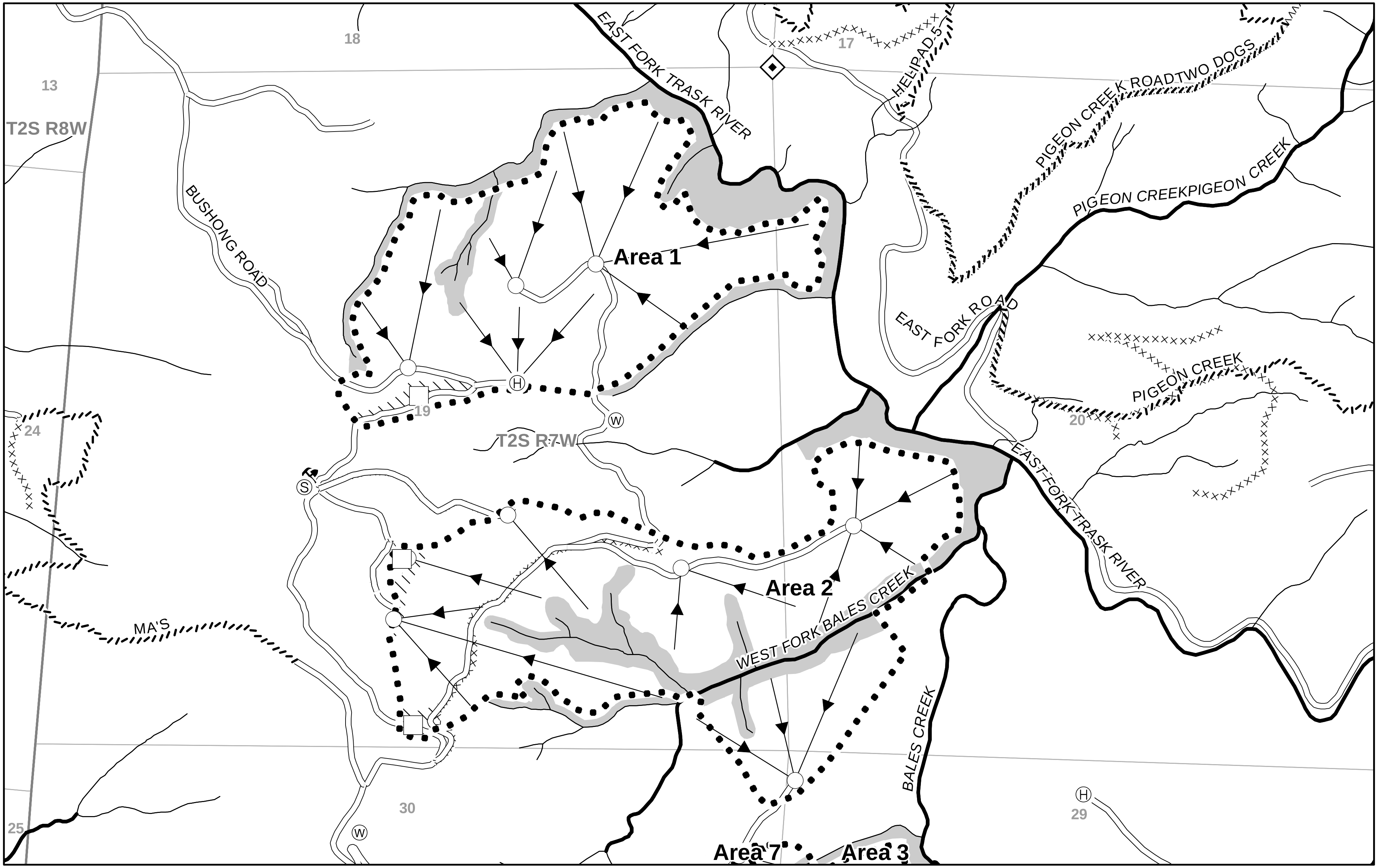
King Kong

Volume Summary

Area 5-Partial Cut				
		55 acres		
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Area MBF
Douglas-fir	8.636	475	1%	470
Alder	0.218	12	2%	12
TOTAL	8.855	487		482

Area 6-Modified Clearcut				
		10 acres		
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Area MBF
Douglas-fir	40.800	408	1%	404
Alder	0.300	3	2%	3
TOTAL	41.100	411		407

TOTAL SALE VOLUME	**445 acres**	
SPECIES	Cruised Net (MBF)	Net Sale (MBF)
Douglas-fir	6578	6512
Red alder	1538	1507
TOTAL	8116	8019



LOGGING PLAN

Timber Sale Contract No. 341-17-16
KING KONG
Portions of Sections 19, 20, 28,
29, 30, 32, and 33, T2S, R7W, W.M.,
Tillamook County, Oregon

1,000 0 1,000 Feet

N

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

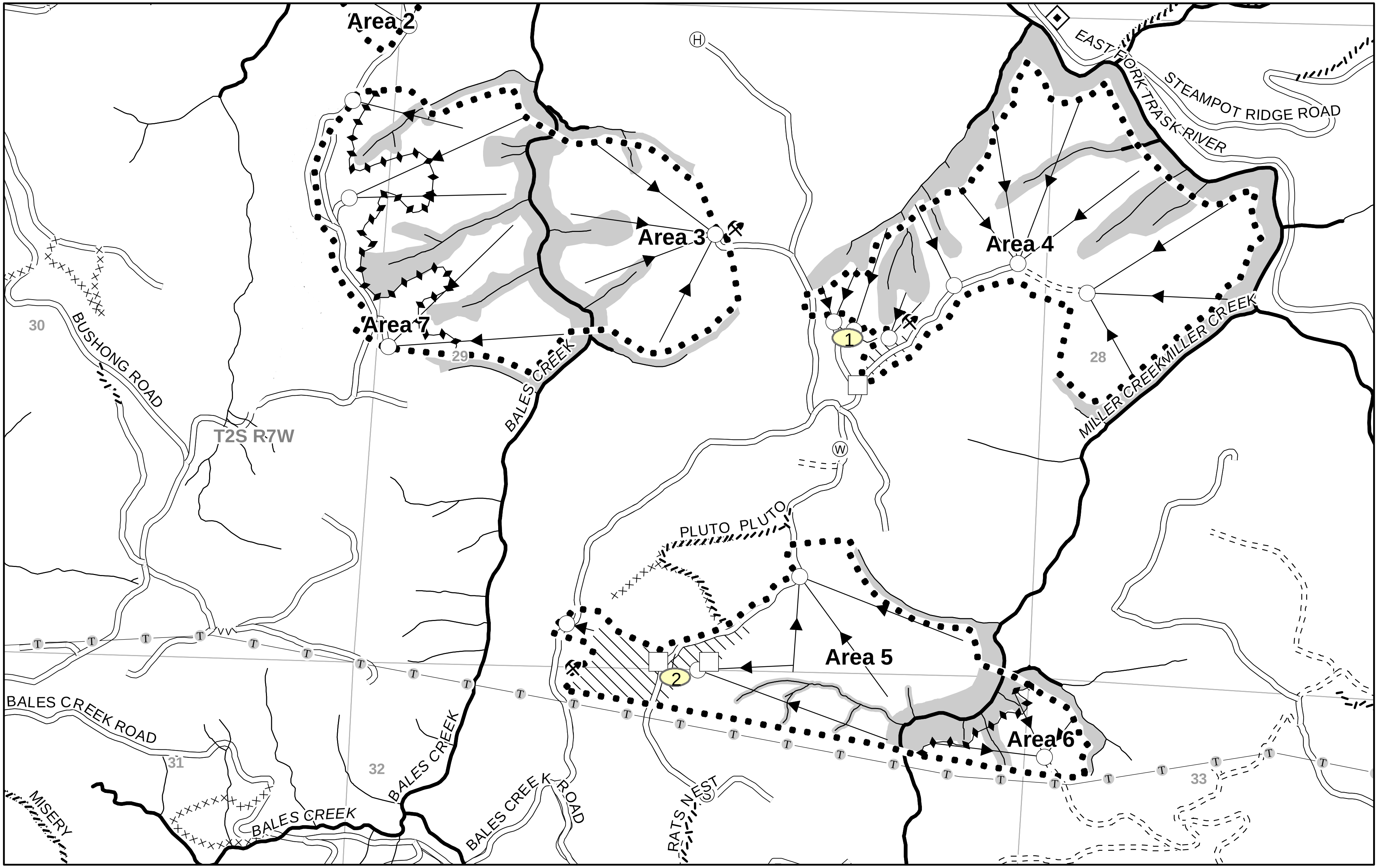
Buffer
Non-required thinning
Cable yarding
Ground yarding
Helicopter yarding
Downhill yarding
Green tree retention area

Restricted area
Area boundary
Sale boundary
Ownership boundary
Fish stream
Non-fish stream
Unsurfaced road
Surfaced road
Paved road
Abandoned road

Swing road
Non-project road
Blocked road
OHV trail
Non-motorized trail
Transmission line
Railroad
Cable yarding
Ground Landing
Yarder Landing

Area	Type of Operation	Acres Gross	Acres Net
1	Modified Clearcut	139	109
2	Modified Clearcut	157	118
3	Modified Clearcut	110	72
4	Modified Clearcut	121	81
5	Partial Cut	65	55
6	Modified Clearcut	18	10
7	No Harvest Other	18	0
Total		628	445

Tillamook District GIS
6/6/2016



Rock source
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Helicopter yarding
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Green tree retention area

Restricted area
Area boundary
Sale boundary
Ownership boundary
Fish stream
Non-fish stream
Unsurfaced road
Surfaced road
Paved road
VVVVVVV Abandoned road

--A-- Swing road
Non-project road
××××× Blocked road
OHV trail
Non-motorized trail
Transmission line
Railroad
Cable yarding
Ground Landing
Yarder Landing

LOGGING PLAN
Timber Sale Contract No. 341-17-16
KING KONG
Portions of Sections 19, 20, 28, 29, 30, 32, and 33, T2S, R7W, W.M., Tillamook County, Oregon

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1,000 0 1,000 Feet

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