



Timber Sale Appraisal
East Chicken
Sale WL-341-2018-68-

District: Western Lane

Date: September 18, 2017

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,473,250.92	\$15,915.50	\$1,489,166.42
		Project Work:	(\$248,361.00)
		Advertised Value:	\$1,240,805.42



Timber Sale Appraisal East Chicken Sale WL-341-2018-68-

District: Western Lane

Date: September 18, 2017

Timber Description

Location: Portions of Section 10, T17S, R8W, W.M., Lane County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	18	0	97
Western Hemlock / Fir	11	0	100
Red Cedar	11	0	100
Alder (Red)	11	0	100
Maple	12	0	100

Volume by Grade	SM	2S	3S	4S	Camprun	Total
Douglas - Fir	138	2,503	1,034	106	0	3,781
Western Hemlock / Fir	0	0	0	0	1	1
Red Cedar	0	0	0	0	1	1
Alder (Red)	0	0	0	0	30	30
Maple	0	0	0	0	50	50
Total	138	2,503	1,034	106	82	3,863

Comments: Pond Values Used: Local Pond Values, July 2017.

SCALING COST ALLOWANCE = \$5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/MBF

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

Other Costs (with Profit & Risk to be added):
None.

Other Costs (No Profit & Risk added):
Truck Assist for eastern most portion of South Chicken EXT Road: 20 days x \$250/day = \$5,000
Final Road Maintenance = \$7,127
Roseburg Resources Road Use Fee = \$2,300
TOTAL Other Costs (No Profit & Risk added) = \$14,427



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Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
	Western Hemlock / Fir	100.00%
	Red Cedar	100.00%
	Alder (Red)	100.00%
	Maple	100.00%
Logging System:	Cable: Medium Tower >40 - <70	Process: Stroke Delimber
yarding distance:	Long (1,500 ft)	downhill yarding: No
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	7	bd. ft / load: 4000
cost / mbf:	\$214.29	
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)	



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Logging Costs

Operating Seasons: 1.00	Profit Risk: 15%
Project Costs: \$248,361.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$14,427.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	2.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	4.0
Western Hemlock / Fir	\$0.00	0.0	0.0
Red Cedar	\$0.00	0.0	0.0
Alder (Red)	\$0.00	3.0	3.5
Maple	\$0.00	3.0	3.5



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas - Fir									
\$214.29	\$2.10	\$1.14	\$66.95	\$0.00	\$42.67	\$0.00	\$7.00	\$3.73	\$337.88
Western Hemlock / Fir									
\$214.29	\$2.04	\$1.14	\$0.00	\$0.00	\$32.62	\$0.00	\$7.00	\$3.73	\$260.82
Red Cedar									
\$214.29	\$2.04	\$1.14	\$0.00	\$0.00	\$32.62	\$0.00	\$7.00	\$3.73	\$260.82
Alder (Red)									
\$214.29	\$2.04	\$1.14	\$74.29	\$0.00	\$43.76	\$0.00	\$7.00	\$3.73	\$346.25
Maple									
\$214.29	\$2.04	\$1.14	\$74.29	\$0.00	\$43.76	\$0.00	\$7.00	\$3.73	\$346.25

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$727.11	\$389.23	\$0.00
Western Hemlock / Fir	\$0.00	\$573.43	\$312.61	\$0.00
Red Cedar	\$0.00	\$1,520.50	\$1,259.68	\$0.00
Alder (Red)	\$0.00	\$650.00	\$303.75	\$0.00
Maple	\$0.00	\$482.31	\$136.06	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,781	\$389.23	\$1,471,678.63
Western Hemlock / Fir	1	\$312.61	\$312.61
Red Cedar	1	\$1,259.68	\$1,259.68
Alder (Red)	30	\$303.75	\$9,112.50
Maple	50	\$136.06	\$6,803.00

Gross Timber Sale Value

Recovery: \$1,489,166.42

Prepared By: Chad Howard

Phone: 541-935-2283

State Timber Sale Contract
341-18-68
East Chicken

Summary of "Other Costs" for Timber Sale Appraisals

"Other Costs" with Profit and Risk to be Added:

None

Total "Other Costs" with Profit and Risk to be Added:

\$0

"Other Costs" With No Additional Profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/Unit</u>	<u>Total Cost</u>
Truck assist for eastern most portion of South Chicken EXT Road	Days	20	\$250	\$ 5,000.00
Final Road Maintenance	Operation			\$ 7,127.00
Roseburg Resources Company Road Use Fee	Operation			\$ 2,300.00
Total "Other Costs" With No Additional Profit and Risk:				<u>\$ 14,427</u>
Cost per MBF	3,861	MBF		\$ 3.74

East Chicken
341-18-68
Combined Project Costs

Project 1	Construct subgrades and conduct road maintenance.	\$144,174
Project 2	Spread and process rock for South Chicken Road extension and other roads.	\$70,435
Project 3	Spread and process rock for Spur 2 and Spur 2a.	\$29,452
Project 4	Brush road from point A to B	\$4,300
TOTAL PROJECT COSTS		\$248,361

State Timber Sale Contract

341-18-68

East Chicken

End Haul Costing

South Chicken Extension

Location	Exp. Factor	75 % Rock 25 % Earth		In Fill
		In Place	Truck	
0+00 to 3+00			1.31	1.12
4+50 to 16+00				
		0		0
Loose Truck Haul Total Cu. Yds.		11440		
In-Fill Total Cu. Yds.		7280		

Summary

Total Loose Truck Haul Cu. Yds.		11440
Total End Haul Costs		\$ 52,471.28
Avg Cost/ Cu. Yds.		\$ 4.59

75% Earth 25% Rock		Clean Fill Totals		Distance to	
In Place	Truck	In Fill	Mixture	Location	Waste Area
					miles
1000	1430	910	728	Turn Out/W.A.	0.09
7000	10010	6370	5096	W.A. 1	1.0
8000	11440	7280	5824	Total Endhaul Cost	
				Avg Cost/ yd	\$ 4.59

Note: Costing is based off an average haul speed of 10mph, **10 Cu. Yds. end dump trucks**, 1 excavator, Dump and Load time 5min/trip.

Waste Area Endhaul

Hourly Costs		Turn Out/WasteArea		Waste Area 1	
Hourly Rate for a truck		\$85		\$85	
Number of trucks		1		2	
excavator + operator		\$	174.00	\$	174.00
Total		\$	259.00	\$	344.00
Haul Speed		10		10	
Distance		0.09		0.09	
Time		0.018		0.2	
Dump and Load		0.083		0.083	
total time		0.101		0.283	
Loads per hr		9.9		3.533568905	
Yds per hr		99.01		70.67137809	
Cost per Cu. Yd		\$	2.62	\$	4.87

Stump Endhaul

Hourly Costs		Hourly Rate for a truck		\$85	
Number of trucks		1		1	
excavator + operator		\$	174.00		
Total		\$	259.00		
Haul Speed		10		10	
Distance		0.89		0.89	
Time		0.178		0.178	
Dump and Load		0.083		0.083	
total time		0.261		0.261	
Loads/hr		3.831417625			
Stumps/hr		19.15708812			
Cost/Stump		\$	13.52		
Stumps/Acre		150			
Approx Acres		0.44			
Total stumps		66			
Total Cost		\$	892.31		

State Timber Sale Contract
341-18-68
East Chicken

Final Road Maintenance Cost Summary

Totals	South Chicken Rd	South Chicken Extension	Spur 1	TOTAL
Stations	70.00	36.32	1.26	
Cost/Sta	\$ 59.73	\$ 65.34	\$ 58.03	
Total Cost	4180.956	2373.142	73.121	\$ 6,627

Spot Rocking	South Chicken Rd	South Chicken Extension	Spur 1	TOTAL
Total Yds	104	30	0	
Rock Size	1 1/2"-0"	1 1/2"-0"	0	
\$/yd	\$26.89	\$26.89	\$0.00	
Subtotal	\$ 2,796	\$ 807	\$ -	\$ 3,603

Grade, Shape & Pull Ditches	South Chicken Rd	South Chicken Extension	Spur 1	TOTAL
Stations	70.00	36.32	1.26	
\$/STA	\$ 18.35	\$ 18.35	\$ 18.35	
Subtotal	\$ 1,285	\$ 666	\$ 23	\$ 1,973

Install Waterbars	South Chicken Rd	South Chicken Extension	Spur 1	TOTAL
# of waterbars		10.00		
\$/waterbar	\$35.00	\$70.00	\$35.00	
Subtotal	\$ -	\$ 700.00	\$ -	\$ 700.00

Landing clean up	South Chicken Rd	South Chicken Extension	Spur 1	TOTAL
Stations	2.00	4.00	1.00	
\$/STA	\$ 50.00	\$ 50.00	\$ 50.00	
Subtotal	\$ 100	\$ 200	\$ 50	\$ 350

Move In	Initial
Grader	\$ 500

Move in costs associated with one entry for the entire project
* 64 yds of spot rock to be placed on portion of South Chicken Road controlled by
Roseburg Resources Co

Total Final Maintenance Costs **\$ 7,127**

Subgrade Construction/Culverts
Processing and Decking Right-of-Way Logs Not Included

Totals	South Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Stations	36.32	1.26	28	6	70	141
Cost/Sta	\$ 2,361.00	\$ 605.00	\$ 1,405.00	\$ 1,987.00	\$ 27.00	
Cost	\$ 85,764.00	\$ 762.00	\$ 39,338.60	\$ 11,924.33	\$ 1,885.00	\$ 139,674.00

Earthwork

Clearing and Grubbing	South Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Acreage	3.4	0.12	2.4	0.6		
Cost/Acre	\$1,470.00	\$1,337.00	\$1,337.00	\$1,337.00	\$1,337.00	
Total	\$ 4,998.00	\$ 161.00	\$ 3,209.00	\$ 803.00	\$ -	\$ 9,171.00

Excavation yards are bank run from State's design

Construction/Excavation	South Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Stations	22	1.26		6		
Drift/Excavation Cu Yd.	2000		4200			
\$/sta	\$190.00	\$122.00	\$122.00	\$122.00	\$122.00	
Drift/Excavation \$/yd.	\$ 2.50		\$4.00			
Landing Construction	\$778.00	\$389.00	\$778.00	\$389.00		
Subtotal	\$ 9,958.00	\$ 543.00	\$ 17,578.00	\$ 1,121.00	\$ -	\$ 29,200.00

End-haul Costs are in addition to excavation costs above.

Loose Truck Cu Yd.	11440				150	
\$/yd.	\$4.59				\$4.00	
End-haul Stumps	\$ 892.00					
Subtotal	\$53,364.00	\$ -	\$ -	\$ -	\$ 600	\$ 53,964.00

Earth Fill Construct Cost are in addition to End-haul costs above.

Waste Fill Cu. Yds.			6000	1000		
Process Fill Cost/Cu. Yds.		\$ 2.00	\$ 2.00			
Total	\$0.00	\$0.00	\$12,000.00	\$2,000.00	\$0.00	\$ 14,000.00

Drill & Shoot

Cu Yd.	1000					TOTAL
\$/yd.	\$ 10.30	\$ 10.30	\$ 10.30	\$ 10.30	\$ 10.30	
Subtotal	\$ 10,300.00	\$ -	\$ -	\$ -	\$ -	10300.00

Culverts

Alum. Steel 2-2/3" x 1/2"	South Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Length (ft.)	140		120	40		300
Diameter (2-2/3" x 1/2")	18"	18"	18"	18"	18"	
Cost/Foot	\$ 15.23	\$ 15.23	\$ 15.23	\$ 15.23	\$ 15.23	
Subtotal	\$ 2,132	\$ -	\$ 1,827.60	\$ 609.20	\$ -	

Plastic

Length (ft.)				160		160
Diameter	18"	18"	18"	30"	18"	
Cost/Foot	\$ 15.23	\$ 15.23	\$ 15.23	\$ 22.18	\$ 15.23	
Subtotal	0	0	0	3,549	0	
Subtotal	\$ 2,133.00	\$ -	\$ 1,828	\$ 4,158	\$ -	\$ 8,118.60
Installation Cost	\$ 2,399.00	\$ -	\$ 1,914.00	\$ 3,093.33	\$ -	\$ 7,406.00

* Aluminized Steel was used for costing purposes based on prices as of 12/20/12

Subgrade Treatment

Compaction w/ Roller	South Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Road Stations	36.32	1.26	28	6	0	71
Cost/STA	\$ 47.08	\$ 20.20	\$ 75.47	\$ 100.00	\$ 20.20	
Subtotal	\$ 1,710.00	\$ 26.00	\$ 2,114.00	\$ 600.00	\$ -	\$ 4,450

Grade and Shape	South Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Road Stations	36.32	1.26	28	6	70	
Cost/STA	\$ 24.83	\$ 24.83	\$ 24.83	\$ 24.83	\$ 18.35	
Subtotal	\$ 902.00	\$ 32.00	\$ 696.00	\$ 149.00	\$ 1,285.00	\$ 3,064

Move in Cost	Initial
D-7 Cat	\$ 1,500
Dump Truck	\$ 200
grader	\$ 500
excavator	\$ 1,500
vibratory roller	\$ 200
water truck	\$ 100
small excavator	\$ 500

Project Cost \$ 139,674.00

Move In Cost \$ 4,500

Total Cost \$ 144,174.00

Due to rounding, the numbers in the table above may not add up to the totals shown.

Rocking and Processing

Rock Source: Commercial

Rock Quantity (In place)

Base Rock	South Chicken Extension	South Chicken Extension	South Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Sta to Sta	0+00 to 27+00	27+00 to 33+50	33+50 to 36+32	0+00 to 1+26	0+00 to 28+00	0+00 to 6+00		
Rock Size	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	0	
Stations	27.00	6.50	2.82	1.26	28.00	6.00		72.00
Approx. yds./sta	33	33	44	44	20	20		
Subtotal base (cu. yds.)	890	210	120	60	560	120	0	1960
Cap Rock	South Chicken	South Chicken	South Chicken	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Rock Size	1 1/2'-0"	*3/4'-0"	0	0	0	0	0	
Stations	27	6.5						34.00
Approx. yds./sta	11	17						
Subtotal cap (cu. yds.)	300	110	0	0	0	0	0	410
Landings	South Chicken Extension	South Chicken Extension	South Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Rock Size	Pit Run	0	Pit Run	Pit Run	0	0	0	
Stations	2.00		1.00	1.00	0.00	0.00		4.00
Approx. yds./sta	40		40	40				
Subtotal base (cu. yds.)	80	0	40	40	0	0	0	160
Additional Rock	Extension	Extension	Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Rock Size	3'-0"	0	3'-0"	0	3'-0"	0	0	
Turnouts	2		0		2			
Turn around	2		1					
Approx. cu. yds.	15		10		20			
Subtotal Turnouts/Around (cu. yds.)	60	0	10	0	40	0	0	110
Rock Size	1 1/2'-0"	0	0	0	3'-0"	3'-0"	1 1/2'-0"	
Number of Points	14				11	4	20	
Curve Widening/Spot Rocking (Yds.)	160				120	70	10	
Subtotal Spot/Widening Rock	160	0	0	0	120	40	200	520
Note: see curve widening sheet for each horizontal curve								
Energy Dissipater Yds.	Rock Type	Rock Type	Rock Type	Rock Type	Rock Type	Rock Type	Rock Type	
Rock Size	Pit Run	Pit Run	Rip Rap	Rip Rap	Pit Run	Rip Rap	Rip Rap	
Approx. Total (cu. Yds.)	20	20			30	60		130

ROCK COST (Rock + Delivery)

Road Segment/Name	South Chicken Extension	South Chicken Extension	South Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Rock Size	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	0	
Approx. cu. yds.	890	210	120	60	560	120	0	1960
Cost/yd. (includes load/spread)	\$26.48	\$26.48	\$26.48	\$26.48	\$26.48	\$26.48	\$0.00	
Subtotal Cost "Base" Rock	\$ 23,571	\$ 5,562	\$ 3,178	\$ 1,589	\$ 14,831	\$ 3,178	\$ -	\$ 51,909
Rock Size	1 1/2'-0"	*3/4'-0"	0	0	0	0	0	
Approx. cu. yds.	300	110	0	0	0	0	0	410
Cost/yd. (includes load/spread)	\$26.89	\$27.16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Subtotal Cost "Cap" Rock	\$ 8,067	\$ 2,987	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,054
Rock Size	3'-0"	0	3'-0"	0	3'-0"	0	0	
Approx. cu. yds. Turnouts/Around	60	0	10	0	40	0	0	110
Cost/yd. (includes load/spread)	\$26.48	\$0.00	\$26.48	\$0.00	\$26.48	\$0.00	\$0.00	
Subtotal	\$1,589.04	\$0.00	\$264.84	\$0.00	\$1,059.36	\$0.00	\$0.00	
Rock Size	1 1/2'-0"	0	0	0	3'-0"	3'-0"	1 1/2'-0"	
Approx. cu. Yds. Spot/Widening	160	0	0	0	120	40	200	520
Cost/yd. (includes load/spread)	\$26.89	\$0.00	\$0.00	\$0.00	\$26.48	\$26.48	\$26.89	
Subtotal	\$4,302.24	\$0.00	\$0.00	\$0.00	\$3,178.08	\$1,059.36	\$5,377.80	
Rock Size	Rock Type	Rock Type	Rock Type	Rock Type	Rock Type	Rock Type	Rock Type	
Approx. cu. Yds. Energy Dissipater	20	20	0	0	30	60	0	130
Cost/yd. (includes load/spread)	\$46.73	\$46.73	\$46.73	\$46.73	\$46.73	\$46.73	\$46.73	
Subtotal	\$934.68	\$934.68	\$0.00	\$0.00	\$1,402.02	\$2,804.04	\$0.00	
Subtotal Cost "Additional" Rock	\$ 6,826	\$ 935	\$ 265	\$ -	\$ 5,639	\$ 3,863	\$ 5,378	\$ 22,906
Rock Size	Pit Run	\$ -	Pit Run	Pit Run	\$ -	\$ -	\$ -	
Approx. cu. yds.	80	0	40	40	0	0	0	160
Cost/yd. (includes load/spread)	\$25.13	\$0.00	\$25.13	\$25.13	\$0.00	\$0.00	\$0.00	
Subtotal Cost "Landing" Rock	\$ 2,011	\$ -	\$ 1,005	\$ 1,005	\$ -	\$ -	\$ -	\$ 4,021
Grand total quarry approx. yds.	1510	340	170	100	750	220	200	3290
Total Quarry Rock Cost	\$ 40,474	\$ 9,484	\$ 4,448	\$ 2,594	\$ 20,471	\$ 7,041	\$ 5,378	\$ 89,889

Note: Assist Vehicle Cost is reflected in the processing cost.

Compaction w/Processing	Chicken Extension	Chicken Extension	Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	TOTAL
Cost/Cu. Yd.	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
Truck/Equip. Assist Cost/Cu. Yd.		\$6.70	\$6.70					
Subtotal Processing	\$ 3,020	\$ 2,958	\$ 1,479	\$ 200	\$ 1,500	\$ 440	\$ 400	\$ 9,997
\$/yd ³ rock in place & compacted	South Chicken Extension	South Chicken Extension	South Chicken Extension	Spur 1	Spur 2	Spur 2a	South Chicken Rd	Total
Total Rock Costs	\$43,494	\$12,442	\$5,927	\$2,794	\$21,971	\$7,481	\$5,778	\$ 99,887

Move-in included in subgrade construction
Due to rounding, the numbers in the table above may not add up to the totals shown.

Cruise Report
East Chicken
SALE # 341-18-68

Sale Area: Portions of Section 10, T17S, R8W, W.M., Lane County, Oregon. The sale's net harvestable acres are 77. There are approximately 5.8 acres of stream buffers. Acres were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

Stand Description: East Chicken is dominated by 82 year old Douglas-fir, with a small component of bigleaf maple and red alder. The timber is non-thinned, tall, straight, and exhibits low defect. There are a few scattered other species such as western hemlock, western redcedar, chinquapin, madrone, and cascara. Western hemlock and western redcedar is reserved from cutting. The majority of the brush component is sword fern and salal, with scattered huckleberry. The rockier ridges contain huckleberry, rhododendron, and ceanothus. The slopes are mostly 65% or greater, broken by tributary streams.

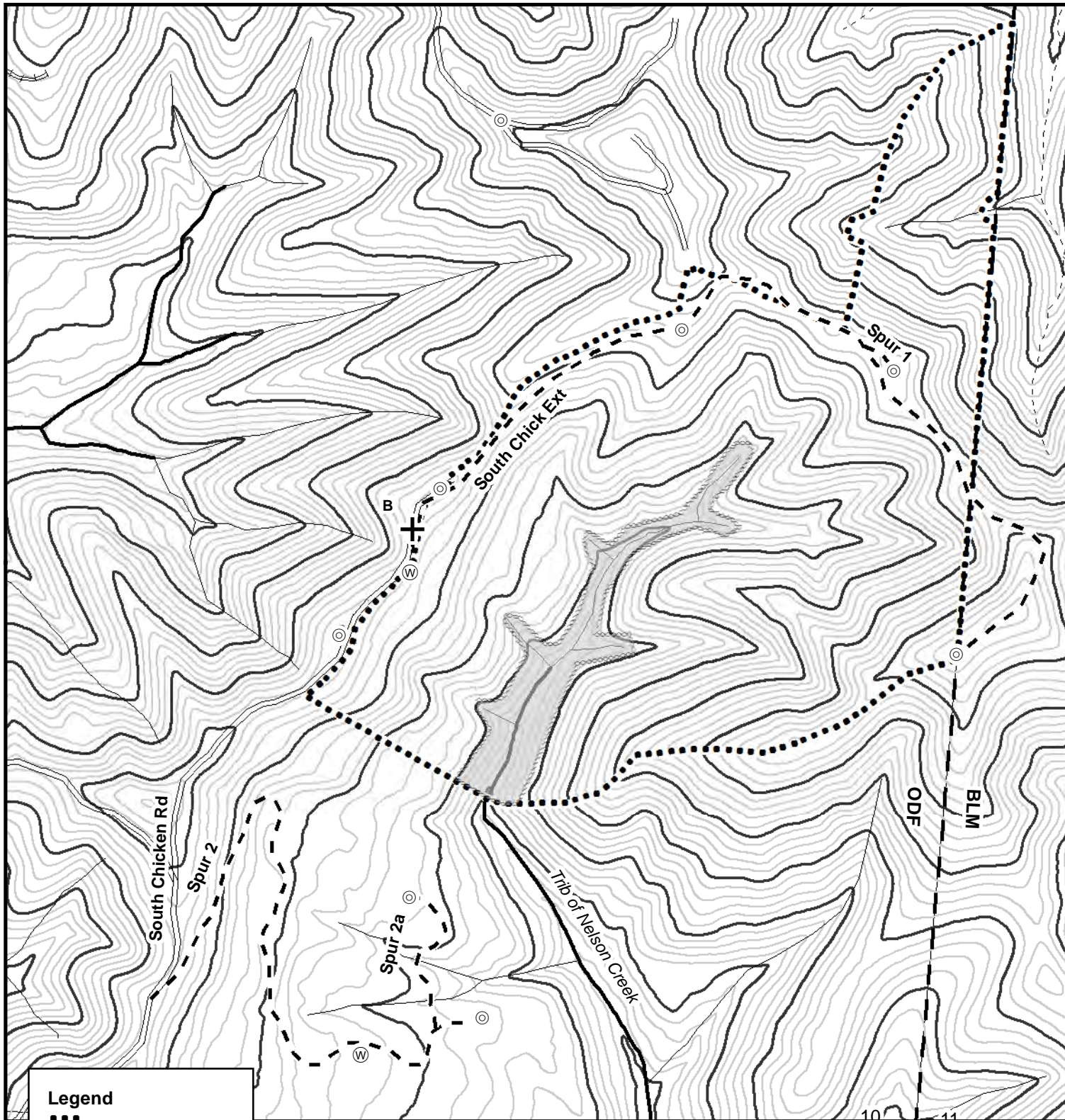
Cruise Method: Volumes were based on a combination of Stand Level Inventory (SLI) Data, and cut out volumes from adjacent sales.

Cruiser: Chad Howard

Net Calculated Volume

Species	Avg. DBH	SM (MBF)	2 Saw (MBF)	3 Saw (MBF)	4 Saw (MBF)	Camp Run (MBF)	Sub- Total (MBF)
Douglas-fir	18	138	2,503	1,034	106		3,781
Big Leaf Maple	12					50	50
Red Alder	11					30	30

East Chicken Total (MBF): **3,861**
Average Volume per Acre (MBF): **50.14**



Legend



Timber Sale Boundary

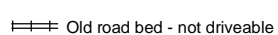


ODF Ownership

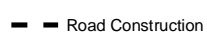
Roads



Surfaced road



Old road bed - not driveable

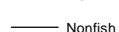


Road Construction

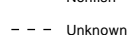
Streams



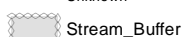
Fish



Nonfish



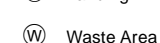
Unknown



Stream_Buffer



Landing



Waste Area

Logging Plan

OF TIMBER SALE CONTRACT NO. 341-18-68
EAST CHICKEN
PORTIONS OF SECTION 10, T17S, R8W, W.M.
LANE COUNTY, OREGON

0 250 500 1,000
Feet

1 inch = 500 feet

This product is for informational use
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for or be suitable for legal, engineering
or surveying purposes. Users of this information should
review or consult the primary data and information
sources to ascertain the usability of this information.

100% Cable Logging
NET ACRES = 77

Contours = 20 feet



"STEWARDSHIP IN FORESTRY"