



"STAND FOR THE FOREST"

Timber Sale Appraisal
Dean Scholfield

Sale CS-341-2015-44-

District: Coos

Date: January 08, 2015

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,370,307.32	\$11,079.50	\$1,381,386.82
		Project Work:	(\$58,975.00)
		Advertised Value:	\$1,322,411.82



Timber Sale Appraisal Dean Scholfield

Sale CS-341-2015-44-

District: Coos

Date: January 08, 2015

Timber Description

Location: Portions of Sections 16 and 17, T22S, R11W, W.M., Douglas County, Oregon.

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	21	0	95
Western Hemlock / Fir	20	0	95
Alder (Red)	13	0	90

Volume by Grade	3P	SM	2S	3S	3S 12"+	8" - 9"	10" - 11"	6" - 7"	Total
Douglas - Fir	56	336	1,871	667	11	0	0	0	2,941
Western Hemlock / Fir	0	0	16	7	0	0	0	0	23
Alder (Red)	0	0	0	0	0	12	16	22	50
Total	56	336	1,887	674	11	12	16	22	3,014

Comments: Pond Values Used: 4th Quarter Calendar Year 2014.

51 acres of regeneration harvest containing approximately 38 acres of mature second growth Douglas-fir sawtimber and 13 acres of 44-48 year-old Douglas Fir, hemlock, and red alder mix.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$741/\text{MBF} = \$1,000/\text{MBF} - \$259/\text{MBF}$

SCALING COST ALLOWANCE = $\$5.00/\text{MBF}$

FUEL COST ALLOWANCE = $\$4.00/\text{Gallon}$

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

Other Costs (with Profit & Risk to be added):

FELLING:

Directional Felling/Tree Jacking: $\$2/\text{MBF} \times 200 \text{ MBF} = \400

Felling of Unmerchantable Material: $\$80/\text{acre} \times 2 \text{ acres} = \160

YARDING AND LOADING:

Brand and Paint Logs: $\$1/\text{MBF} \times 3,014 \text{ MBF} = \$3,014$

Cull Sorting and Landing Slash Piling: $\$125/\text{landing} \times 3 \text{ landings} = \375

Rig Tail/Lift Trees: $\$150/\text{lift tree} \times 6 \text{ lift trees} = \900

Artificial Guy Anchors: $\$500/\text{anchor} \times 1 \text{ anchor} = \500

Placement of Deadman guy anchors: $\$500/\text{anchor} \times 3 = \$1,500$

Cover Landing Slash Piles: $\$50/\text{pile} \times 6 \text{ piles} = \300

MISCELLANEOUS COSTS

Maintenance Rock (Section 2130): $\$28/\text{yard} \times 50 \text{ yards} = \$1,400$

Safety Flaggers on 2000 Road: $\$150/\text{per day} \times 2 \text{ days} = \300

Tree Topping @60 feet+: $\$100/\text{tree} \times 10 \text{ trees} = \$1,000$

Tree Girdling @60 feet+: $\$125/\text{tree} \times 10 \text{ trees} = \$1,250$

TOTAL Other Costs (with Profit & Risk to be added) = $\$11,099$

Other Costs (No Profit & Risk added):

None.



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Logging Conditions

Combination#: 1 Douglas - Fir 74.00%
 Western Hemlock / Fir 74.00%
 Alder (Red) 74.00%

Logging System: Cable: Large Tower >=70 **Process:** Manual Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 11.5 **bd. ft / load:** 4600
cost / mbf: \$96.41
machines: Log Loader (A)
 Tower Yarder (Large)

Combination#: 2 Douglas - Fir 26.00%
 Western Hemlock / Fir 26.00%
 Alder (Red) 26.00%

Logging System: Cable: Large Tower >=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: 9 **bd. ft / load:** 3800
cost / mbf: \$181.29
machines: Log Loader (A)
 Stroke Delimber (A)
 Tower Yarder (Large)



"SUSTAINABLE FORESTRY"

Timber Sale Appraisal Dean Scholfield

Sale CS-341-2015-44-

District: Coos

Date: January 08, 2015

Logging Costs

Operating Seasons: 1.00	Profit Risk: 20%
Project Costs: \$58,975.00	Other Costs (P/R): \$11,099.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
1.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.7
Western Hemlock / Fir	\$0.00	2.0	4.0
Alder (Red)	\$0.00	2.0	3.5



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Sale CS-341-2015-44-

District: Coos

Date: January 08, 2015

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$118.48	\$0.63	\$1.45	\$87.13	\$3.68	\$42.27	\$0.00	\$5.00	\$0.00	\$258.64
Western Hemlock / Fir									
\$118.48	\$0.63	\$1.45	\$102.38	\$3.68	\$45.32	\$0.00	\$5.00	\$0.00	\$276.94
Alder (Red)									
\$118.48	\$0.66	\$1.45	\$122.57	\$3.68	\$49.37	\$0.00	\$5.00	\$0.00	\$301.21

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$722.25	\$463.61	\$0.00
Western Hemlock / Fir	\$0.00	\$573.91	\$296.97	\$0.00
Alder (Red)	\$0.00	\$522.80	\$221.59	\$0.00



Timber Sale Appraisal
Dean Scholfield

Sale CS-341-2015-44-

District: Coos

Date: January 08, 2015

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,941	\$463.61	\$1,363,477.01
Western Hemlock / Fir	23	\$296.97	\$6,830.31
Alder (Red)	50	\$221.59	\$11,079.50

Gross Timber Sale Value

Recovery: \$1,381,386.82

Prepared By: Jon Haynes

Phone: 541-267-1758

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Dean Scholfield

Additional "Other Cost" with additional profit and risk to be added:

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Felling				
Directional Felling/Tree Jacking	MBF	200	\$ 2.00	\$ 400.00
Felling of unmerch material	acre	2	\$ 80.00	\$ 160.00
Yarding and Loading				
Clear chute at cable settings	MBF		\$ 3.00	\$ -
Brand and paint logs	MBF	3014	\$ 1.00	\$ 3,014.00
Cull sorting/slash piling on landings	landing	3	\$ 125.00	\$ 375.00
Rig tail/lift trees	lift tree	6	\$ 150.00	\$ 900.00
Artificial guy anchors(dozer, skidder)	anchor	1	\$ 500.00	\$ 500.00
Placement of Deadman guy anchors	anchor	3	\$ 500.00	\$ 1,500.00
Cover landing slash pile w/sheeting	pile	6	\$ 50.00	\$ 300.00

Miscellaneous Costs

Maintenance rock (Section 2130)	yards	50	\$ 28.00	\$ 1,400.00
Safety Flaggers on 2000 Road	per day	2	\$ 150.00	\$ 300.00
Tree topping @ 60 feet +	per tree	10	\$ 100.00	\$ 1,000.00
Tree girdling @ 60 feet +	per tree	10	\$ 125.00	\$ 1,250.00

Total additional "Other Cost" with additional profit and risk to be added

\$ 11,099.00

Additional "Other Cost" with no additional profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Non-required road construction	Stations			\$ -
Non-required road rocking	Cubic Yards			\$ -
Stream clearance	Feet			\$ -
Scaling (high piece count)	MBF		\$ 2.00	\$ -

Total additional "Other Cost" with no additional profit and Risk

\$ -

SUMMARY OF CONSTRUCTION COST
Dean Scholfield

Project 1A: Road and Landing Construction

Points: C to D Length: 375' Type: 14' no ditch

Excavator	60	hrs at	\$140.00	per hour	\$8,400.00
Cat time (for waste area at Pt. G)	50	hrs at	\$140.00	per hour	\$7,000.00
Drill & Shoot	20	hrs at	\$275.00	per hour	\$5,500.00
Powder Costs (per yd of rock shot)	1125	yds at	\$3.00	per yd	\$3,375.00
Dump Truck - haul material to Pt. F (850 yds)	10	hrs at	\$100.00	per hour	\$1,000.00
Dump Truck - haul material to Pt. G	50	hrs at	\$100.00	per hour	\$5,000.00
Dump Truck - haul material to Pt. G (5750 cu. Yds. to haul 0.8 mi RT)	50	hrs at	\$100.00	per hour	\$5,000.00
Grader	1	hrs at	\$85.00	per hour	\$85.00
Laborer	60	hrs at	\$38.00	per hour	\$2,280.00

Total Project 1A: \$37,640.00

Project 1B: Landing Construction

Points: B Length: n/a Type: 14' no ditch

Excavator - enlarge landing area	20	hrs at	\$140.00	per hour	\$2,800.00
Cat time - place material in low spots	20	hrs at	\$140.00	per hour	\$2,800.00
Drill & Shoot	5	hrs at	\$275.00	per hour	\$1,375.00
Powder Costs (per yd of rock shot)	150	yds at	\$3.00	per yd	\$450.00
Grader	2	hrs at	\$85.00	per hour	\$170.00
Laborer	20	hrs at	\$38.00	per hour	\$760.00

Total Project 1B: \$8,355.00

Move-in

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Total
Excavator	35	7	\$125.00	\$875.00
Cat	35	7	\$125.00	\$875.00
Drill & Comp	35	7	\$125.00	\$875.00
Dump Truck	35	6	\$125.00	\$750.00
Dump Truck	35	6	\$125.00	\$750.00
Grader	35	6	\$125.00	\$750.00

Total Move-in: \$4,875.00

Project 1 Total \$50,870.00

Project 2A: Road Improvement

Points: A to B Length: 3655' Type: 14' w/ditch

Excavator - cleanup, brushing	20	hrs at	\$140.00	per hour	\$2,800.00
Cat time - smooth road surface & process waste material at Point F	10	hrs at	\$140.00	per hour	\$1,400.00
Dump Truck - haul material waste areas	20	hrs at	\$100.00	per hour	\$2,000.00
Grader time - blade road	3	hrs at	\$85.00	per hour	\$255.00
Laborer	20	hrs at	\$38.00	per hour	\$760.00

Total Project 2A: \$7,215.00

SUMMARY OF CONSTRUCTION COST
Dean Scholfield

Project 2B: Landing Improvement

Points: E Length: n/a Type: 14' no ditch

Cat time	<u>5</u>	hrs at	<u>\$140.00</u>	per hour	<u>\$700.00</u>
Laborer	<u>5</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$190.00</u>

Total Project 2B: \$890.00

Project 2 Total \$8,105.00

Total Project Costs \$58,975.00

TIMBER SALE SUMMARY

Dean Scholfield

1. Type of Sale: Final Harvest, Recovery, Sealed Bid

2. Boundary Lines: Timber sale boundaries are marked on the ground with white "Timber Sale Boundary" posters, red flagging, and red paint at locations shown on the Exhibit "A".

3. Revenue Distribution: 61% CSL 39% BOF; 100% Douglas County

4. Sale Acreage: The total sale area is approximately 51 acres. Sale acreage was determined from LIDAR imagery using electronic digitizing with the ArcMap 10.1 GIS program. The cruise expansion acres were stratified into mature and young types and include only the timbered acres and not existing interior roads or landings.

	Posted Acres	Interior Roads/Landings	Non-Stocked Acres	Net Cruise Acres	Net Harvest Acres
Sale Area	53.32	2.18	.27	50.87	51.14

Acreage by Cruise Strata

	Total Cruise Expansion Acres
Mature Strata	38.27
Young Strata	12.59
Total	50.87

5. Volume by Species

Species	Total Volume (MBF)	Volume (MBF) per Acre
Douglas-fir	2941	57.7
Hemlock	23	0.5
Red Alder	50	1.0
Total	3014	59.2

6. Grade: (by Percent,)

Species	3 Peeler %	Special Mill %	2 Saw (12"+) %	3 Saw % (10" – 11") %	Big 3 Saw %	4 Saw % (8" – 9") %	6" – 7" % Hardwood
Douglas-fir	2 %	11 %	64 %	23 %			
Hemlock			69 %	31 %			
Red Alder				32%		25 %	43 %

7. Cruise: The sale area was variable plot cruised using a nested Big BAF plot method. The Big BAF method is a combination of count plots and individually measured trees. Plots were spaced 90 feet apart on cruise lines spaced 400 feet apart. The sale area was stratified into a mature type and a young type. A 40 BAF full plot was used to determine

tree counts for all species. Trees were sighted in at 16 feet in the mature type and young type. A total of 63 count plots were installed. In the mature strata a 250 BAF full plot at 16 feet was taken on every plot to determine which Douglas-fir trees would be fully measured. A total of 40 mature Douglas-fir trees were measured for DBH, height, grade, and defect. In the young strata a 120 BAF full plot at DBH was taken on every plot to determine which Douglas-fir trees would be fully measured. A total of 11 young Douglas-fir trees were fully measured for DBH, height, grade and defect. Minor species were measured on every third plot with a 40 BAF at 16 feet and were not stratified by age. A total of 10 minor species were fully measured. Volume was calculated by preserving cruised log length to maximize grade. Cruise data was compiled using Superace. Cruising was done by ODF Coos District staff Erb, Haynes, and Hall in April 2014.

A. Summary data:

Diam	Ht. Stand	Form Pt.	Form Factor	CV %	SE %
DBH	6" DIB	Mature DF: 16' Young DF: 16' Minor Species: 16'	Recorded for all cruised trees by estimate and measure	50 %	6.3 %

B. Defect and Breakage Summary:

BY PERCENT

SPECIES	CRUISED	HIDDEN DEFECT	BREAKAGE	TOTAL %
DOUGLAS FIR	5	4	3	12
HEMLOCK	0	3	2	5
RED ALDER	0	6	6	12

C. Stand Data:

SPECIES	DBH	TREES/ACRE	BASAL AREA/AC	NET MBF/ACRE
DOUGLAS FIR	21"	115	305	57.7
HEMLOCK	20"	2	3	.5
RED ALDER	13"	15	23	1.0

D. Green Tree Retention: There are six (6) Green Tree Reserve (GTR) areas associated with this sale that are reserved from cutting. These areas consist of a Type F stream buffer extension and several Type N perennial and Type N seasonal stream buffers. All GTR is located outside the posted sale boundaries and was not included in the timber cruise. No GTR volume is removed from the cruise. The table below summarizes the GTR areas.

GTR Area	D-fir Count	Hemlock Cedar Spruce Count	Alder Maple Myrtle Count
Type F buffer extension	0	--	8
Type N Perennial Stream Buffers	61	2	90
Seasonal Drainages	53	3	179
TOTALS	114	5	277

E. Down Wood: The down woody debris requirement of this sale is to leave 240 – 480 cubic feet per acre of hard logs across the sale areas. This will be achieved by retaining hard logs containing a minimum of 20 cubic feet for any individual piece. Existing down wood can be used to achieve this target provided they meet the definition of a hard log (sound wood in decay class 1 or 2 indicated by intact bark and original wood color). Tops from created snags may contribute to this down wood target. Snags will be created by topping and girdling in the 38 acre mature age cohort at a rate of 1 snag for every 2 acres harvested, for a total of 20 created snags.

8. Timber Description: The total sale area of 51 acres is comprised of two different timber age cohorts. Approximately 38 acres is a 108 year-old mature type and 13 acres is a younger type ranging in age from 44 to 48 years-old. The mature type is primarily medium to well stocked with good quality Douglas-fir sawtimber. The younger types are primarily hardwood with some young Douglas-fir and hemlock and are located along Miller Creek and in interior stream drainages.

9. Topography: The timber sale area is primarily south facing with slopes greater than 65 percent. Type F and Type N perennial streams flow along the southern boundary and seasonal Type N tributaries originate within the unit.

10. Logging Method: The timber sale area is designed to be logged from new and existing cable landings located along the 2800 road. Construction of spur C - D will facilitate logging the eastern portion of the sale area. The western portion can be logged from an existing landing at Point E with likely need for deadmen guy anchors, and from a new landing at Point B. Tailhold opportunities exist across Miller Creek along road grades and in unsurveyed potential habitat. Tailholds in unsurveyed habitat will require prior STATE examination and approval. Full suspension will be required while yarding over the posted stream buffers and other drainages shown on Exhibit A. Single end suspension will be maintained over the remainder of the sale areas. In unit lift/tail trees may be necessary to achieve the required deflection. Lift tree cost has been included in the appraisal. All areas are designed for dry season operation.

11. Access: (All miles approximate) To access the timber sale area from State Highway 38 take the Dean Creek Road located approximately 6.5 miles east of Reedsport. Proceed on Dean Creek Road for 2.5 miles to the 2000 road at the end of the pavement. Turn right onto the 2000 road and proceed for 1.9 miles uphill to the 2800 road. Turn right onto the 2800 road. The timber sale area begins a short distance in on the 2800 road. The 2800 road is rocky to the junction with the 2805.

12. Projects: See attached "Project Cost Summary Sheet"

Project No. 1: Road and Landing Construction

Project No. 2: Road and Landing Improvement

CRUISE VOLUME COMPUTATION REPORT

SALE NAME:	Dean Scholfield	DATE:	07/30/2014
LEGAL LOCATION:	Sections 16 & 17, T22S, R11W	BY:	J. Haynes
	WM. Douglas County, OR		

FIELD CULL PERCENTAGE

Sale Area

Species	Doug-fir	Spruce	Cedar	Hemlock	Red Alder	Bigleaf Maple
Field cull	5%	0	0%	0	0%	0

NET FIELD VOLUME MBF (Gross vol. less field cull)

SPECIES>>>>>	Doug-fir	Spruce	Cedar	Hemlock	Red Alder	Bigleaf Maple	TOTAL
Sale Area	3162	0	0	24	57	0	3243
less GTR vol		0	0	0	0	0	0
TOTAL	3162	0	0	24	57	0	3243

HIDDEN DEFECT AND BREAKAGE

Species	Doug-fir	Spruce	Cedar	Hemlock	Red Alder	Bigleaf Maple
Hidden cull	0.04	0	0	0.03	0.06	0
Breakage	0.03	0	0	0.02	0.06	0
TOTAL	0.07	0.00	0.00	0.05	0.12	0.00

NET VOLUME BY MBF BY AREA

SPECIES>>>>>	Doug-fir	Spruce	Cedar	Hemlock	Red Alder	Bigleaf Maple	TOTALS
Sale Area	2941	0	0	23	50	0	3014
TOTALS	2941	0	0	23	50	0	3014

NET VOLUME BY GRADE AND MBF

Grade >>>>>>>>>>>	2PEE	3PEE	S.M.	2SAW (12"+)	3SAW (10"-11")	Big 3 SAW	4SAW (8"-9")	(6"-7")
Areas 1 - 2								
Doug-Fir	0	56	336	1871	667	11	0	0
Hemlock	0	0	0	16	7	0	0	0
Red Alder	0	0	0	0	16	0	12	22
Cedar	0	0	0	0	0	0	0	0
Maple	0	0	0	0	0	0	0	0

GRADE DISTRIBUTION BY PERCENT

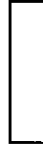
Grade >>>>>>>>>>>	2PEE	3PEE	S.M.	2SAW (12"+)	3SAW (10"-11")	Big 3 SAW	4SAW (8"-9")	(6"-7")
Areas 1 - 2								
Doug-fir	0%	2%	11%	64%	23%	0%	0%	0%
Hemlock	0%	0%	0%	69%	31%	0%	0%	0%
Red Alder	0%	0%	0%	0%	32%	0%	25%	43%
Cedar	0%	0%	0%	0%	0%	0%	0%	0%
Maple	0%	0%	0%	0%	0%	0%	0%	0%

**Operating Periods Restrictions Matrix for
Dean Scholfield
341-15-44**

Harvesting	January	February	March	April	May		June		July		August		September		October		November		December	
					1st	15th	16th		7th	8th	5th	6th	15th	16th	14th	15th				
Ground-based Yarding																				
Cable Yarding on Unsurfaced Roads																				
Chain saw use in Unsurveyed Potential Habitat and Chain Saw Restricted Areas																				

Hauling	January	February	March	April	May		June		July		August		September		October		November		December	
					1st	15th	16th				5th	6th	15th	16th	15th					
Log Hauling on 2800 road and other unsurfaced Roads																				

Project Work	January	February	March	April	May		June		July		August		September		October		November		December	
					1st	15th	16th				5th	6th	15th	16th	15th					
Projects 1 & 2																				
Non-project Roads and Landings																				



Operations Allowed



Activity Restricted 2 hours before
sunset through 2 hours after sunrise

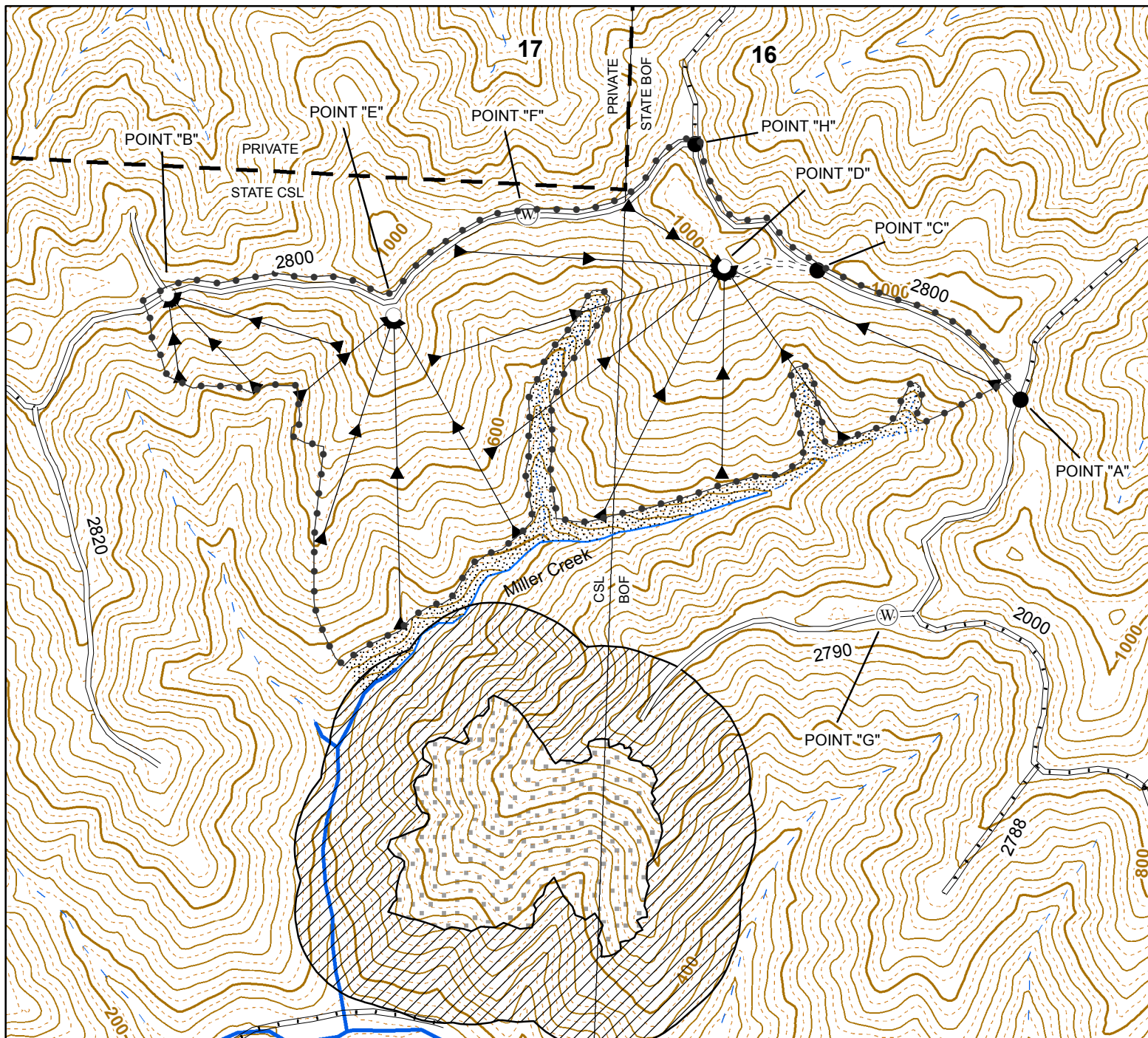


Operations Prohibited - T & E



Operations Prohibited for weather conditions: unless otherwise
approved in writing by STATE

Operating Matrix represents the seasonal restrictions contained within the body of the timber sale contract. See Section 2455 for further information on seasonal restrictions.



- Timber Sale Boundary
- State Forest Boundary

Roads

- New Construction
- Existing Roads - Purchaser Maintained
- Existing Roads - State Maintained

Project Points

- Landing
- Road Point
- Waste Area
- Unsurveyed Potential Habitat
- Chain Saw Restricted Area
- Yarding Roads

Streams

- Type F Stream
- Perennial Type N Stream
- Seasonal Type N Stream
- Unclassified
- Streambuffers / Green Tree Retention Areas

LOGGING PLAN

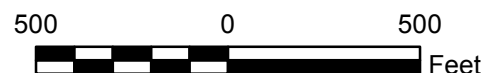
Sale No. 341-15-44

Dean Scholfield

Portions of Sections 16 & 17
T22S, R11W, W.M.
Douglas County, Oregon
Regulated Use Area CS-1
61% CSL, 39% BOF



51 NET
HARVEST ACRES



1:6,000 1 inch = 500 feet
20 foot contours

The information shown on Exhibit "A" map(s) are approximate locations. Exact locations of features represented by map symbols will be determined on site and shall depend upon the conditions that exist on site. Activities shall be conducted based upon features determined on site rather than features shown on maps.