"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Mud Hen
Sale 341-13-66

District: **Klamath/Lake** **Date:** **October 08, 2012**

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$358,435.87	$0.00	$358,435.87
		Project Work:	$(16,607.85)
		Advertised Value:	$341,828.02

"STEWARDSHIP IN FORESTRY"

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Mud Hen
Sale 341-13-66

District: **Klamath/Lake** **Date:** **October 08, 2012**

timber description

Location: Portions of Sections 5, 7, 8, 17, and 18, T33S, R7E, W.M., Klamath County, Oregon.

Stand Stocking: 40%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
White Fir	15	0	97
Sugar Pine	17	0	97
Ponderosa Pine	17	0	97
Lodgepole Pine	12	0	97

Volume by Grade	Camprun	CR 14" -	CR 22"+	CR 6" - 8	CR 8" - 1	Total
White Fir	0	172	0	135	268	575
Sugar Pine	0	15	6	12	23	56
Ponderosa Pine	0	448	38	495	984	1,965
Lodgepole Pine	62	0	0	0	0	62
Total	62	635	44	642	1,275	2,658

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Mud Hen
Sale 341-13-66

District: Klamath/Lake **Date: October 08, 2012**

comments:

Pond Values Used: 3rd Quarter Calander Year 2012.

Log Markets: Klamath Falls and Medford.

SCALING COST ALLOWANCE: = $5.00/MBF

FUEL COST ALLOWANCE: = $4.00/Gallon

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

Other Costs (with Profit & Risk to be added):
Log Branding & Painting: $1,800
Dust Abatement: $8,970
TOTAL Other Costs (with Profit & Risk to be added): $10,770

Other Costs (No Profit & Risk added):
None.

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Mud Hen
Sale 341-13-66

District: **Klamath/Lake** **Date:** **October 08, 2012**

logging conditions

combination#: **1**

White Fir	45.00%
Sugar Pine	45.00%
Ponderosa Pine	45.00%
Lodgepole Pine	100.00%

yarding distance: Medium (800 ft) **downhill yarding:** Yes
logging system: Wheel Skidder **Process**: Feller Buncher
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 12.0 **bd. ft / load:** 4,000
cost / mbf: $69.18

machines:
Log Loader (B)
Stroke Delimber (B)
Feller Buncher w/ Delimber
Tire Skidder

combination#: **2**

White Fir	55.00%
Sugar Pine	55.00%
Ponderosa Pine	55.00%

yarding distance: Medium (800 ft) **downhill yarding:** Yes
logging system: Track Skidder **Process**: Manual Falling/Delimbing
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 10.0 **bd. ft / load:** 4,800
cost / mbf: $70.96

machines:
Log Loader (B)
Track Skidder

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Mud Hen
Sale 341-13-66

District: **Klamath/Lake** **Date:** **October 08, 2012**

logging costs

Operating Seasons:	2.00	**Profit Risk:**	11.00%
Project Costs:	$16,607.85	**Other Costs (P/R):**	$10,770.00
Slash Disposal:	$0.00	**Other Costs:**	$0.00

Miles of Road

Road Maintenance: $1.06

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

Hauling Costs

Species	$ / MBF	Trips/Day	MBF / Load
White Fir	$0.00	3.0	4.2
Sugar Pine	$0.00	3.0	4.5
Ponderosa Pine	$0.00	3.0	4.5
Lodgepole Pine	$0.00	3.0	4.0

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Mud Hen
Sale 341-13-66

District: **Klamath/Lake** **Date:** **October 08, 2012**

Local Pond Values

Date	Specie	Grade	Value
10/8/12	White Fir	CR 6" - 8"	$305.00
10/8/12	White Fir	CR 8" - 14"	$315.00
10/8/12	White Fir	CR 14" - 22"	$325.00
10/8/12	White Fir	CR 22"+	$330.00
10/8/12	Sugar Pine	CR 6" - 8"	$220.00
10/8/12	Sugar Pine	CR 8" - 14"	$270.00
10/8/12	Sugar Pine	CR 14" - 22"	$310.00
10/8/12	Sugar Pine	CR 22"+	$360.00
10/8/12	Ponderosa Pine	CR 6" - 8"	$225.00
10/8/12	Ponderosa Pine	CR 8" - 14"	$280.00
10/8/12	Ponderosa Pine	CR 14" - 22"	$330.00
10/8/12	Ponderosa Pine	CR 22"+	$388.50
10/8/12	Lodgepole Pine	Camprun	$290.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Mud Hen
Sale 341-13-66

District: **Klamath/Lake** **Date:** **October 08, 2012**

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
White Fir									
$70.16	$1.09	$3.30	$57.44	$4.05	$14.96	$0.00	$5.00	$0.00	$156.00
Sugar Pine									
$70.16	$1.09	$3.30	$53.61	$4.05	$14.54	$0.00	$5.00	$0.00	$151.75
Ponderosa Pine									
$70.16	$1.09	$3.30	$53.61	$4.05	$14.54	$0.00	$5.00	$0.00	$151.75
Lodgepole Pine									
$69.18	$1.09	$3.30	$60.32	$4.05	$15.17	$0.00	$5.00	$0.00	$158.11

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	$0.00	$315.64	$159.64	$0.00
Sugar Pine	$0.00	$279.64	$127.89	$0.00
Ponderosa Pine	$0.00	$279.64	$127.89	$0.00
Lodgepole Pine	$0.00	$290.00	$131.89	$0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Mud Hen
Sale 341-13-66

District: **Klamath/Lake** **Date:** **October 08, 2012**

summary

Amortized

Specie	MBF	Value	Total
White Fir	0	$0.00	$0.00
Sugar Pine	0	$0.00	$0.00
Ponderosa Pine	0	$0.00	$0.00
Lodgepole Pine	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
White Fir	575	$159.64	$91,793.00
Sugar Pine	56	$127.89	$7,161.84
Ponderosa Pine	1,965	$127.89	$251,303.85
Lodgepole Pine	62	$131.89	$8,177.18

Gross Timber Sale Value

Recovery: $358,435.87

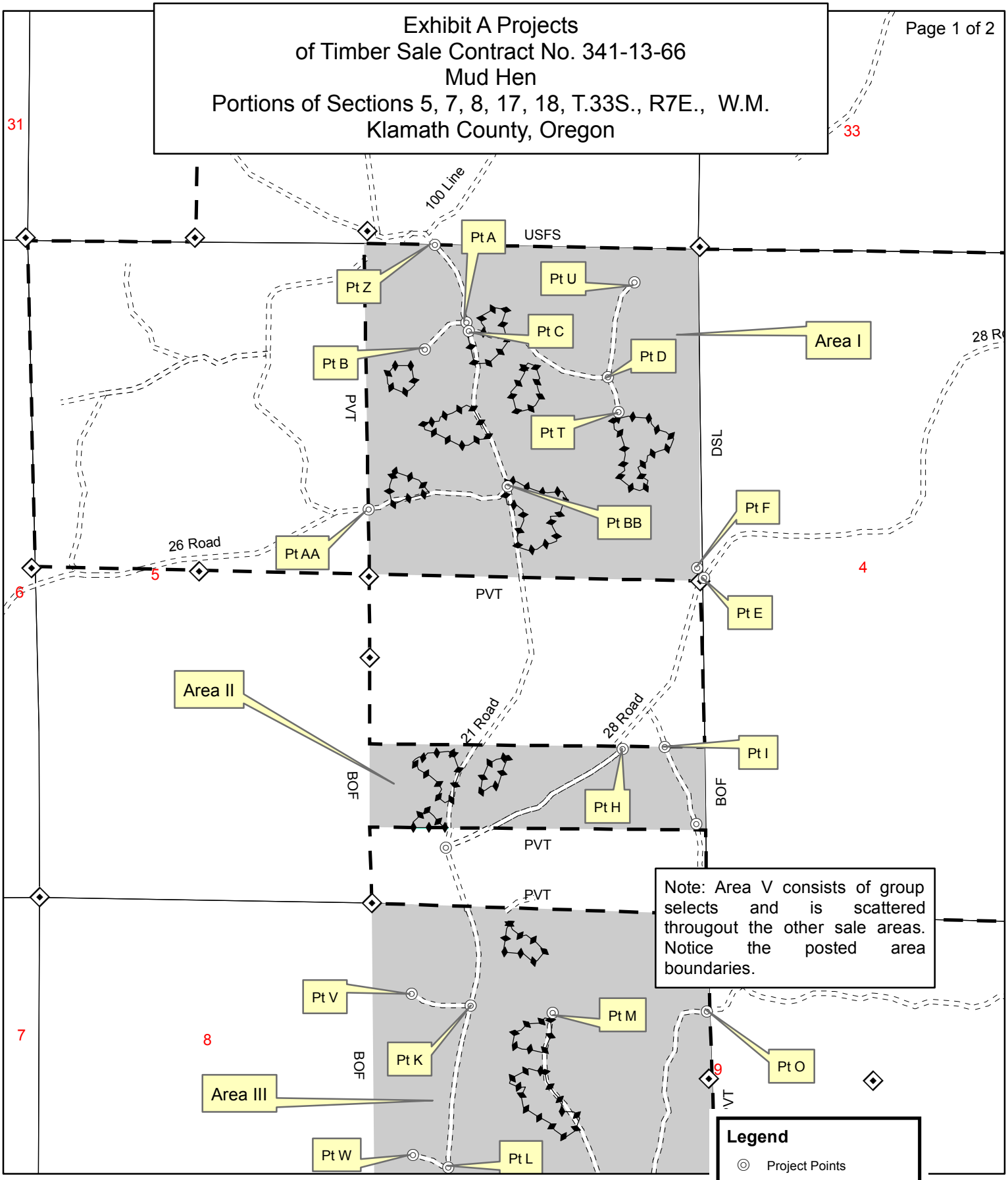
Prepared by: Mike Dwyer **Phone:** 541-891-3973

Summary of Project Work

Mud Hen
341-13-66

Project # 1:	Road Improvement	**$4,162.85**
Project # 2:	Fell, Skid, and Pile Submerchantable Trees	**$8,735.00**
Project # 3:	Scarification of Planting Sites	**$2650.00**
Project # 4:	Road Closure	**$1,060.00**
	Total:	**$16,607.85**

Exhibit A Projects
of Timber Sale Contract No. 341-13-66
Mud Hen
Portions of Sections 5, 7, 8, 17, 18, T.33S., R7E., W.M.
Klamath County, Oregon



Note: Area V consists of group selects and is scattered througout the other sale areas. Notice the posted area boundaries.

Legend

- Project Points
- Mud Hen Timber Sale
- Posted Area Boundary
- Unposted Area Boundary
- ODF Property Boundary
- Corner
- Roads

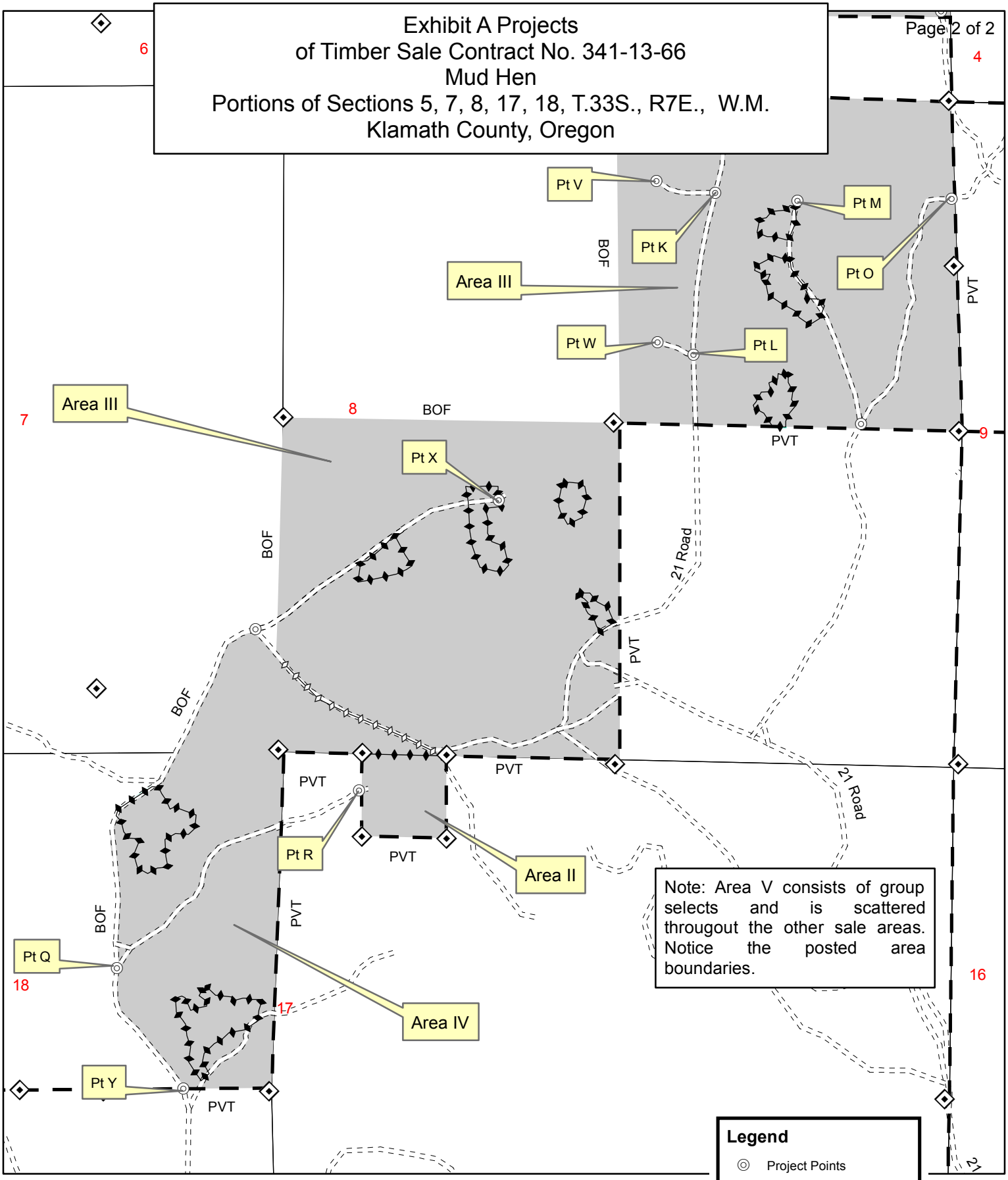
0 0.125 0.25 0.5 Miles

1 inch equals 1,000 feet

N W E S

This product is for informational purposes and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.

Exhibit A Projects
of Timber Sale Contract No. 341-13-66
Mud Hen
Portions of Sections 5, 7, 8, 17, 18, T.33S., R7E., W.M.
Klamath County, Oregon



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0 0.125 0.25 0.5 Miles

1 inch equals 1,000 feet

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N W E S

Legend

- Project Points
- Mud Hen Timber Sale
- Posted Area Boundary
- Unposted Area Boundary
- ODF Property Boundary
- Corner
- Roads

Mud Hen

341-13-66

Other Costs

"STEWARDSHIP IN FORESTRY"

Road Maintenance

Move-in cost (grader):	$400.00		
32 Road		**21 Road**	
Number of Bladings:	2	Number of Bladings:	2
Number of Miles to be Bladed:	6.0	Number of Miles to be Bladed:	4.4
Other Roads			
Number of Bladings:	1		
Number of Miles to be Bladed:	0.9		
Total Miles	11.3		
Miles / Hour for equipment:	0.5		
Cost / Hour (grader with operator):	$105.50		
Total Grading Hours:	23		
Grading Cost:	$2,426.50		
Total Cost:	**$2,826.50**		
Cost / MBF:	$1.06		

Dust Abatement (Profit & Risk to be added in Appraisal)

PP	1965 MBF	74%	Average Load	4.5 MBF	No. of Loads	437
WF	575 MBF	22%	Average Load	4.2 MBF	No. of Loads	137
LP	62 MBF	2%	Average Load	4.0 MBF	No. of Loads	16
SP	56 MBF	2%	Average Load	4.5 MBF	No. of Loads	12
Total:	**2658 MBF**				**Total Loads**	**602**

Assume:	4	Trucks/Day	
	3	Trips/Day	25 Days of Dust Abatement
	12	**Loads per Day**	4 Hours/Day
	50	**Hauling Days**	$88.00 Cost/Hour
			100 Total Hours
			$170.00 Move in for Water Truck
			$8,970.00 Dust Abatement Cost
			$8,970.00 **Total Cost**
			$3.37 Cost/MBF

Brand & Paint (Profit and Risk to be added in Appraisal)

50	Hauling Days
1.5	Hours/Day
$24.00	Cost/Hour
$1,800.00	**Total Cost**
$0.68	Cost/MBF

Other Costs Summary (Profit and Risk to be added in Appraisal)

$8,970.00	Total cost for Dust Abatement	$3.37	per MBF
$1,800.00	Total Cost for Log Branding	$0.68	per MBF
$10,770.00	**Total Other Costs**	**$4.05**	**per MBF**

Mud Hen

341-13-66

Project Costs

Project #1 Road Improvement and Construction

Move in Cost Dozer: $400.00

Improvement

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	416	1000	0.4	$132.50	$53.00
Open/Clear/Shape	C to D	1112	1000	1.1	$132.50	$145.75
Open/Clear/Shape	D to U	805	1000	0.8	$132.50	$106.00
Open/Clear/Shape	D to T	280	1000	0.3	$132.50	$39.75
Open/Clear/Shape	G to H	1616	1000	1.6	$132.50	$212.00
Open/Clear/Shape	I to J	710	1000	0.7	$132.50	$92.75
Open/Clear/Shape	K to V	490	1000	0.5	$132.50	$66.25
Open/Clear/Shape	L to W	324	1000	0.3	$132.50	$39.75
Open/Clear/Shape	N to M	1923	1000	1.9	$132.50	$251.75
Open/Clear/Shape	N to O	2142	1000	2.1	$132.50	$278.25
Open/Clear/Shape	P to X	2888	1000	2.9	$132.50	$384.25
Open/Clear/Shape	Q to R	2687	1000	2.7	$132.50	$357.75
	Total	15393			Total	**$2,027.25**

Construction

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Construct Spur	F to E	106	500	0.2	$132.50	$26.50
	Total	106			Total	**$26.50**

Pull Ditches/Shape Road

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Crown/Shape to Drain	Y to Z	14953	1000	15.0	$105.50	$1,582.50
Crown/Shape to Drain	AA to BB	1176	1000	1.2	$105.50	$126.60
						$1,709.10

Project #1 Summary

Equipment Costs	$400.00
Open/Clear Shape	$2,027.25
Construct Spur	$26.50
Crown/Shape to Drain	$1,709.10
Project #1 Total	**$4,162.85**
per MBF	$1.57

Mud Hen

341-13-66

Project Costs

Project #2 Felling, Skidding, and Piling of Submerchantable Trees

Total Sub-Sawlog Volume:	34	MBF
Fell and Skid and sort/MBF:	$60.00	
Total:	**$2,040.00**	
per MBF	$0.77	

Landing Slash Piling

Number of Landings: 26

Shovel Time:	1 Hour per Landing	Cost per Hour:	$125.00	Total Cost	$3,250.00
Cat Time:	1 Hour per Landing	Cost per Hour:	$132.50	Total Cost	$3,445.00

Total	**$6,695.00**
per MBF	$2.52

Project #2 Summary

Fell/Pile/Skid:	$2,040.00
Landing Cleanup:	$6,695.00
Project #2 Total:	**$8,735.00**
per MBF	$3.29

Mud Hen

341-13-66

Project Costs

Project #3 Scarification of Planting Sites

Work to be performed with a dozer or skidder equiped with a brush rake

Scarification Treatment Acres	Acres/Hour	Hours	Cost/Hour	Cost
20	1	20	$132.50	$2,650.00

Project #3 Summary

Scarification Total	**$2,650.00**
per MBF	$1.00

Project #4 Road Closure

Road Closures

8	Number of Closure Points (A, C, E, K, L, N, O, P)
1	Hour/Point (Travel Included)
$132.50	Cost per Hour (Cat)
$1,060.00	**Total**
$0.40	per MBF

Cost Summary All Projects

$4,162.85	Project #1 Road Improvement
$8,735.00	Project #2 Fell, Skid, and Pile Submerchantable Trees
$2,650.00	Project # 3 Scarification of Planting Sites
$1,060.00	Project #4 Road Closure
$16,607.85	**Total**
$6.25	per MBF

MUD HEN

341-13-66

Cruise Report

"STEWARDSHIP IN FORESTRY"

SALE NAME: Mud Hen

LEGAL DESCRIPTION:

Portions of Sections 5, 7, 8, 17, and 18, T33S, R7E, W.M., Klamath County, Oregon.

BOUNDARY LINES:

Unit boundaries are posted with "Timber Sale Boundary" signs, marked with fluorescent orange paint and fluorescent orange flagging. Group select boundaries are marked with 3 horizontal yellow stripes and blue flagging.

FUND:

100% BOF

ACREAGE:

The timber sale was delineated into 5 areas based upon stand history and silvicultural prescription. Area II has two parts; type 258 and part of type 242. Both units were recently acquired. The portion of 242 is a 10 acre parcel. Neither has been entered recently and both have similar characteristics for the purpose of this cruise. Area V consists of the all the group selects within the timber sale. See attached map for the boundaries of the cruise types.

Area I, Type 232	144 Acres
Area II, Type 258,242	47 Acres
Area III, Type 240,241	298 Acres
Area IV, Type 242	83 Acres
Area V, (Group Selects)	42 Acres

Net Sale Acreage: 614 Acres

Mapping was accomplished using a handheld Global Positioning System unit with the data run on the district Geographical Information System Program.

TREATMENT:

Sale areas I, III, and IV are single tree selection cuts with cut trees marked with *blue paint* for trees 5.0 inches DBH and larger. Sale area II is a single tree selection cut with leave trees marked with *orange paint* for trees 5.0 inches DBH and larger.

Sale area V consists of all the group selects within the sale. Structure trees and advanced regeneration are marked with *orange paint* and reserved from cutting.

CRUISE METHOD:

Areas I, II, and V: Variable radius plot cruise. Odd plots were measure plots even plots were count plots. For area V, sugar pine was cruised on all plots. Fixed plot cruise for all submerchantable material (5.0" to 9.0" DBH) for area II.

Areas III and IV: Fixed radius plot cruise. All plots measured.

SAMPLING INTENSITY:

Area	Intensity	Type Acreage
Area I	5 BAF	144
Area II	20 BAF	47
Area III	¼ Acre	298
Area IV	¼ Acre	83
Area V	14 BAF	42

PLOT DESIGNATION:

Plot centers were established at every plot with pink flagging and the corresponding plot number. Pink flagging was attached to the nearest available tree branch.

SAMPLE SIZE CALCULATIONS:

AREA	CV%	DESIRED SE%	ACRES
Area I	44	11	144
Area II	50	12	47
Area III	63	12	298
Area IV	45	12	83
Area V	45	11	42

$$\textbf{Variable Number of Plots} = \frac{T^2C^2}{A^2}$$

C = Coefficient of Variation in Percent (Taken from inventory data)
T = Number of Standard Errors
A = Desired Sampling Error for a sale of this size and value

Area I, Type 232	$N = \frac{(1)^2(44)^2}{(11)^2} =$	16 plots	Took 20 plots
Area II, Type 258	$N = \frac{(1)^2(50)^2}{(12)^2} =$	17 plots	Took 7 plots
Area III, Type 241,240	$N = \frac{(1)^2(63)^2}{(12)^2} =$	28 plots	Took 28 plots
Area IV, Type 242	$N = \frac{(1)^2(45)^2}{(12)^2} =$	14 plots	Took 13 plots
Area V, Group Sel.	$N = \frac{(1)^2(45)^2}{(11)^2} =$	17 plots	Took 21 plots

Measurements and Grading:

- DBH and Height were measured on all "in" trees for measure plots.
- Areas I, II, & V: Ratio of 1 count plot for every 1 measure plot.
- Pulp volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.
- Separate fixed plot cruise for all submerchantable material (5"to 9" dbh).

.

TREE HEIGHT:

All trees were measured to a fixed diameter outside bark. This height is usually taken as high up the bole as possible, where the cruiser can clearly see the bole, and the taper remains constant (usually 6 or 8 inches). The log segments are broken out and graded accordingly.

MINIMUM D.B.H:

9.0" dbh for sawlog volume. 5.0" dbh for submerchantable material.

DIAMETER STANDARDS:

1" diameter class.

BTR:

Standard ratios were used. See attached species tables.

FORM FACTOR:

Form factor was measured or estimated at 16' for each tree. Each tree was assigned its own FF.

FORM POINT:

All trees were sighted at D.B.H.

VOLUME COMPUTATION:

All cruise data was input and run at the district on Atterbury's Super Ace program.

CRUISERS: Mike Dwyer, Ed Scheick, Todd Clement.

FINAL CRUISE RESULTS:

AREA	CV%	SE%	ACRES
Area I	44	10.1	144
Area II	47	19.0	47
Area III	68	13.0	298
Area IV	38	10.8	83
Area V	42	9.4	42
Combined		11.8	614

TIMBER DESCRIPTION

SAWLOG VOLUME:

This volume was obtained from the systematic random sampling cruise. All material graded camp run. See grade table for minimum standards.

AREA I

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
Ponderosa Pine	15.4	494	489
Lodgepole Pine	11.7	43	42
White Fir	9.0	7	7
Sugar Pine	20.1	4	4

AREA II

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
White Fir	16.9	547	536
Ponderosa Pine	16.0	301	296
Sugar Pine	21.7	11	10
Lodgepole Pine	15.0	5	5

AREA III

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
Ponderosa Pine	16.2	708	692
White Fir	11.0	31	31
Sugar Pine	13.4	12	11

AREA IV

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
Ponderosa Pine	16.7	151	147
Sugar Pine	14.8	2	2

AREA V

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
Ponderosa Pine	21.9	345	341
Sugar Pine	28.8	30	29
Lodgepole Pine	12.1	15	15
White Fir	10.6	1	1

TOTAL SAWLOG VOLUME

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
Ponderosa Pine	16.5	1999	1965
White Fir	15.1	586	575
Lodgepole Pine	12.2	63	62
Sugar Pine	17.4	59	56

TOTAL NET SAWLOG VOLUME: 2658 MBF

GREEN PULP VOLUME:

This volume was obtained from the fixed plot cruise (5.0" – 9.0" DBH).
All material was graded green pulp, see grade table for minimum standards.

AREA II

SPECIES	Fixed Plot Volume
Ponderosa Pine	17
White Fir	17

TOTAL GREEN PULP VOLUME: 34 MBF

TC TLOGSTVB

Log Stock Table - MBF

Project: MUDHEN

T33S R07E S05 T0232

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33S	07E	05	AREA I	0232	144.00	20	76

T33S R07E S05 T0232

Date 7/3/2012

Time 8:22:53AM

Spp	S T	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29	30-39	40+
PP		CR	CR	12	3		3	.6										3		
PP		CR	CR	16	9		9	1.9							5			4		
PP		CR	CR	17	28	3.1	28	5.6			20	6	1							
PP		CR	CR	26	58		58	11.9			39	10				8				
PP		CR	CR	30	16		16	3.3								6		11		
PP		CR	CR	32	30		30	6.1						5	15	9				
PP		CR	CR	34	349	1.3	345	70.5			81	107	106	42	9					
PP		Totals			494	1.1	489	90.4			140	124	107	47	30	23		18		
LP		CR	CR	17	9		9	21.2			9									
LP		CR	CR	26	6		6	13.8			6									
LP		CR	CR	34	29	4.8	27	65.0			13	8	6							
LP		Totals			43	3.2	42	7.8			27	8	6							
WF		CR	CR	17	7		7	100.0			7									
WF		Totals			7		7	1.2			7									
SP		CR	CR	17	0		0	13.6			0									
SP		CR	CR	34	3	9.5	3	86.4					3							
SP		Totals			4	8.3	4	.7			0		3							
Total All Species					548	1.3	541	100.0			175	132	117	47	30	23		18		

TC TLOGSTVB

Log Stock Table - MBF

Project: MUDHEN

T33S R07E S05 T0258

T33S R07E S05 T0258

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33S	07E	05	AREA II	0258	47.00	7	27

Date 7/3/2012

Time 8:23:27AM

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	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29	30-39	40+
WF		CR	CR	17	10		10	1.9			10									
WF		CR	CR	34	537	2.0	526	98.1			88	121	47	98	69	103				
WF		Totals			547	1.9	536	63.2			98	121	47	98	69	103				
PP		CR	CR	17	25		25	8.5			11	14								
PP		CR	CR	26	22		22	7.5			17	5								
PP		CR	CR	34	225	2.0	220	74.4			77	33	57	26	28					
PP		CR	CR	40	29		29	9.6								29				
PP		Totals			301	1.5	296	34.9			105	52	57	26	28	29				
LP		CR	CR	34	5		5	100.0			5									
LP		Totals			5		5	.6			5									
SP		CR	CR	17	2		2	15.0			2									
SP		CR	CR	34	9	5.6	9	85.0					9							
SP		Totals			11	4.8	10	1.2			2		9							
Total All Species					864	1.8	848	100.0			210	173	112	123	97	132				

TC TLOGSTVB

Log Stock Table - MBF

Project: MUDHEN

T33S R07E S08 TFCA

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33S	07E	08	AREA III	FCA	298.00	28	130

T33S R07E S08 TFCA

Page 1
Date 7/3/2012
Time 8:23:49AM

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	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29	30-39	40+
PP		CR	CR	16	7		7	1.0							7					
PP		CR	CR	17	52	.8	51	7.4			39	5	7							
PP		CR	CR	20	8		8	1.1							8					
PP		CR	CR	22	22	3.8	21	3.1							9	12				
PP		CR	CR	24	14	17.6	12	1.7								12				
PP		CR	CR	26	102	2.5	100	14.4			48	31	11		11					
PP		CR	CR	32	109	3.9	105	15.2							29	76				
PP		CR	CR	34	394	1.5	388	56.1			97	134	120	22	15					
PP		Totals			708	2.3	692	94.3			184	170	137	22	79	100				
WF		CR	CR	17	12		12	38.4			10	2								
WF		CR	CR	26	4		4	13.7			4									
WF		CR	CR	34	15		15	47.9			15									
WF		Totals			31		31	4.2			29	2								
SP		CR	CR	17	4	22.2	3	26.9			3									
SP		CR	CR	26	3		3	30.8			3									
SP		CR	CR	34	5	8.3	5	42.3				5								
SP		Totals			12	10.3	11	1.5			6	5								
Total All Species					752	2.4	734	100.0			220	176	137	22	79	100				

TC TLOGSTVB

Log Stock Table - MBF

Project: MUDHEN

T33S R07E S18 T0242

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33S	07E	18	AREA IV	0242	83.00	13	34

T33S R07E S18 T0242

Date 7/3/2012

Time 8:24:17AM

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	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29	30-39	40+
PP		CR	CR	12	5		5	3.1								5				
PP		CR	CR	17	15	1.7	15	10.2			10	1	4							
PP		CR	CR	26	22	4.6	21	14.4			10			5	6					
PP		CR	CR	32	9	5.4	9	6.1							9					
PP		CR	CR	34	99	1.8	98	66.2			14	41	27	7	9					
PP		Totals			151	2.4	147	98.8			34	42	31	12	24	5				
SP		CR	CR	34	2	22.2	2	100.0			2									
SP		Totals			2	22.2	2	1.2			2									
Total All Species					153	2.7	149	100.0			36	42	31	12	24	5				

TC TLOGSTVB

Log Stock Table - MBF

Project: MUDHEN

T33S R07E S05 TGRPS

T33S R07E S05 TGRPS

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
33S	07E	05	AREA V	GRPS	42.00	21	50

Page 1
Date 7/3/2012
Time 8:24:41AM

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	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29	30-39	40+
PP		CR	CR	16	15		15	4.5								12		4		
PP		CR	CR	17	11		11	3.2			6	5								
PP		CR	CR	26	11		11	3.2		1	7	4								
PP		CR	CR	28	6		6	1.7							6					
PP		CR	CR	32	126	1.1	124	36.5						6	27	41	33	17		
PP		CR	CR	34	177	1.8	174	51.0			18	33	51	59	12					
PP		Totals			345	1.3	341	88.2		1	31	41	51	65	45	53	33	20		
SP		CR	CR	16	3	2.7	3	11.4						1		3				
SP		CR	CR	17	0		0	1.4		0	0									
SP		CR	CR	26	1		1	2.2				1								
SP		CR	CR	30	1		1	4.3							1					
SP		CR	CR	32	18	3.4	17	58.3							5	3	4	6		
SP		CR	CR	34	7		7	22.4			2		3	1						
SP		Totals			30	2.3	29	7.5		0	2	1	3	2	6	5	4	6		
LP		CR	CR	17	1		1	9.6			1									
LP		CR	CR	26	7		7	43.1				7								
LP		CR	CR	34	7		7	47.3			7									
LP		Totals			15		15	3.9			9	7								
WF		CR	CR	17	1		1	100.0			1									
WF		Totals			1		1	.4			1									
Total All Species					392	1.3	386	100.0		1	43	49	54	67	51	59	37	26		

TC PLOGSTVB

Log Stock Table - MBF

T33S R07E S05 Ty0232
THRU
T33S R07E S18 Ty0242

Project: MUDHEN
Acres 614.00

Date 7/3/2012
Time 8:25:53AM

Spp	ST	Sort	Grade	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29	30-39	40+
PP		CR	CR	12	7		7	.4								5		3		
PP		CR	CR	16	31		31	1.6							12	12		8		
PP		CR	CR	17	131	1.2	130	6.6			87	31	12							
PP		CR	CR	20	8		8	.4							8					
PP		CR	CR	22	22	3.8	21	1.1							9	12				
PP		CR	CR	24	14	17.6	12	.6								12				
PP		CR	CR	26	215	1.7	212	10.8		1	121	50	11	5	17	8				
PP		CR	CR	28	6		6	.3							6					
PP		CR	CR	30	16		16	.8								6		11		
PP		CR	CR	32	275	2.2	269	13.7						12	81	126	33	17		
PP		CR	CR	34	1,245	1.6	1,225	62.3			287	348	360	155	74					
PP		CR	CR	40	29		29	1.5								29				
PP		Totals			1,999	1.7	1,965	73.9		1	495	428	383	173	206	209	33	38		
WF		CR	CR	17	30		30	5.2			28	2								
WF		CR	CR	26	4		4	.7			4									
WF		CR	CR	34	551	1.9	541	94.1			103	121	47	98	69	103				
WF		Totals			586	1.8	575	21.6			135	123	47	98	69	103				
LP		CR	CR	17	10		10	16.5			10									
LP		CR	CR	26	12		12	19.7			6	7								
LP		CR	CR	34	41	3.4	40	63.7			25	8	6							
LP		Totals			64	2.2	63	2.4			41	15	6							
SP		CR	CR	16	3	2.7	3	5.9						1		3				
SP		CR	CR	17	6	13.5	5	9.7		0	5									
SP		CR	CR	26	4		4	7.2			3	1								
SP		CR	CR	30	1		1	2.2							1					
SP		CR	CR	32	18	3.4	17	30.3							5	3	4	6		
SP		CR	CR	34	27	6.7	25	44.6			4	5	15	1						
SP		Totals			59	5.6	56	2.1		0	12	5	15	2	6	5	4	6		
Total		All Species			2,708	1.8	2,659	100.0		1	684	571	451	272	281	318	37	44		

Species Table Report

TblSpecies

Date: 06/26/2012
Page: 1

Table Name: SUNPASS

Code	Abrv	Description	Bark Ratio	ASubo Const	Form Factor	Wood Type	Comp-onent	Yield Table	Min Log Dia	Min Log Len	Max Log Len	Log Trim	Max Tree Dia	Max Tree Hgt.	BdFt Rule	CuFt Rule	Weight
1	PP	PPINE	.87	PP	.85	C	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
2	WF	WHITE F	.94	NF	.87	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5000
3	LP	LP PINE	.96	DF	.9	C	C	LP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
4	DF	DOUG-FIR	.92	DF	.87	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5700
5	SP	SUG PINE	.87	PP	.84	C	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
6	IC	INC CED	.90	SS	.8	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	4500
7	RF	SH RFIR	.924	DF	.89	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5000

Sort/Grade Table

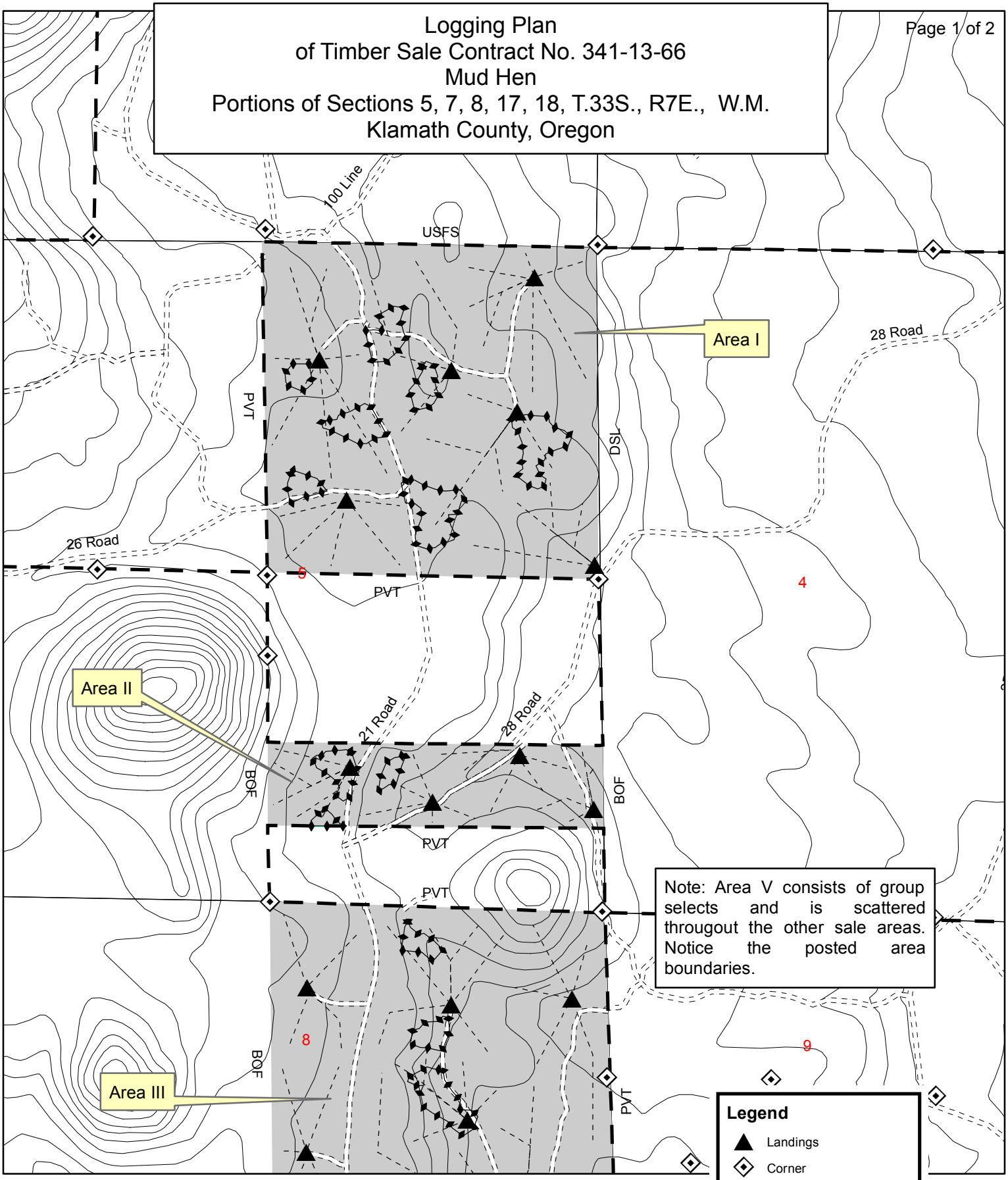
TblSortGrade

Table Name: SUNPASS

Date: 06/26/2012

Sort	Grd	Abr	Desc	Fbr	Min Dia	Max Dia	Max Butt	Min Len	Max Len	Defect	Min Vol	Vol Type	Min Rings	Knot Size	Knot Freq	Str	Sap	Min Age	Lbs	Lbs Type	Cords	Cords Type
	0	CU	CULL	G	1	0	0	1	99	0	0	M	0	0	0			0	0		0	
	1	CR	CAMPRU	G	6	0	0	10	99	0	0	M	0	0	0			0	0		0	
	7	GP	GRNPULP	G	3	0	0	10	99	0	0	M	0	0	0			0	0		0	
	8	DP	DEADPUL	G	3	0	0	10	99	0	0	M	0	0	0			0	0		0	
	9	UT	UTILITY	G	8	0	0	12	99	0	0	M	0	0	0			0	0		0	
0		CU	CULL	G	1	0	0	1	99	0	0	M	0	0	0			0	0		0	
1		CR	CAMPRU	G	1	0	0	1	99	0	0	M	0	0	0			0	0		0	

Logging Plan
of Timber Sale Contract No. 341-13-66
Mud Hen
Portions of Sections 5, 7, 8, 17, 18, T.33S., R7E., W.M.
Klamath County, Oregon



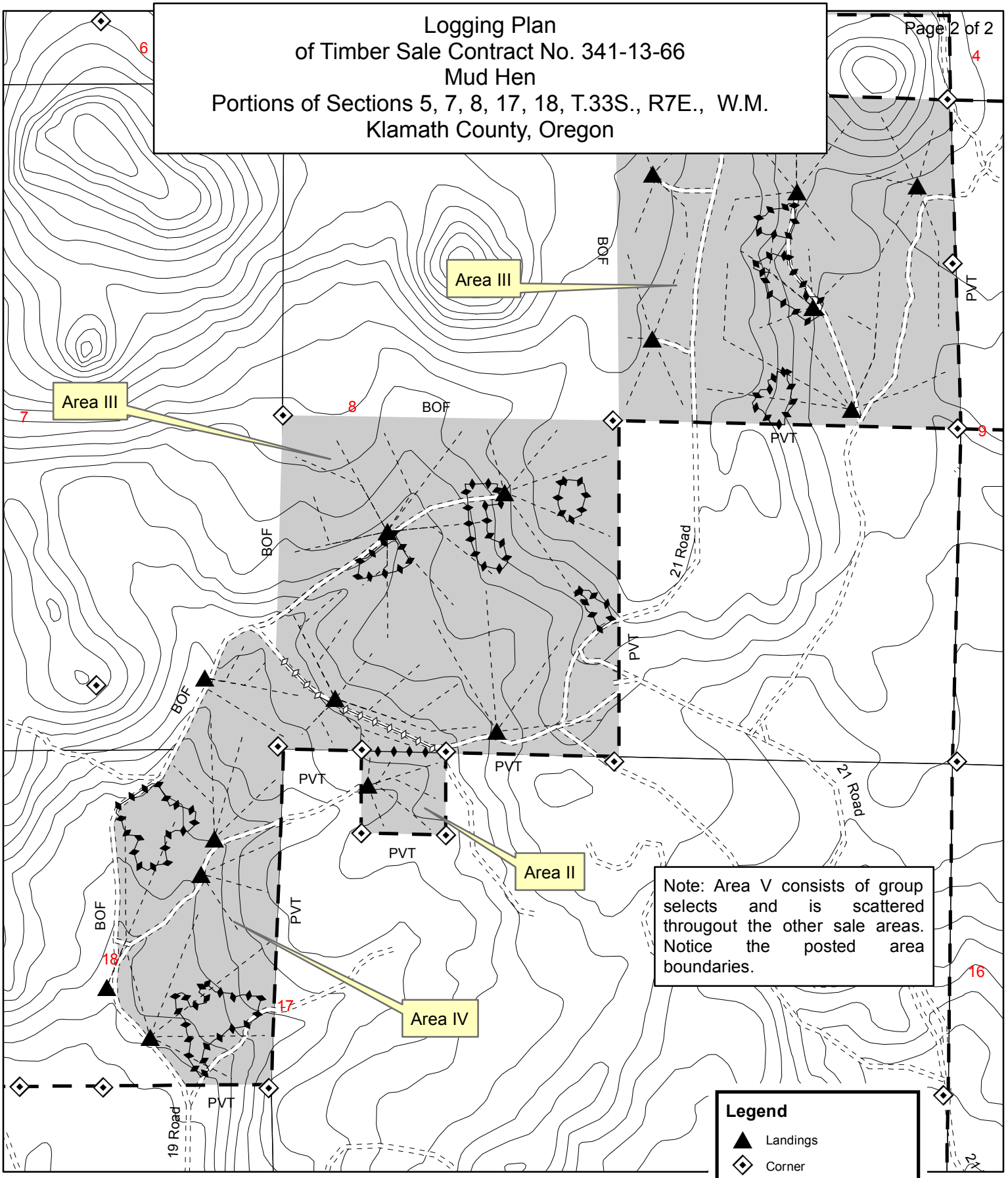
0 0.125 0.25 0.5 Miles

1 inch equals 1,000 feet

N W E S

This product is for informational purposes and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.

Logging Plan
of Timber Sale Contract No. 341-13-66
Mud Hen
Portions of Sections 5, 7, 8, 17, 18, T.33S., R7E., W.M.
Klamath County, Oregon



0 0.125 0.25 0.5 Miles

1 inch equals 1,000 feet

This product is for informational purposes and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.

N W E S

Legend

- Landings
- Corner
- Mud Hen Timber Sale
- Posted Area Boundary
- Unposted Area Boundary
- ODF Property Boundary
- Skid Trails
- Roads