



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Cedar Top Sale 341-04-77

District: Coos

Date: 1/9/04

| | Conifer | Hardwood | Total |
|------------------------------------|--------------|-------------------------|---------------|
| Gross Timber Sale Value | \$857,727.52 | \$0.00 | \$857,727.52 |
| | | Project Work | (\$13,788.92) |
| | | Advertised Value | \$843,938.60 |



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal

Timber Description

Cedar Top

Sale 341-04-77

District: Coos

Location: Portions of Sections 21, 22, & 28; T23S, R10W, W.M., Coos and Douglas Counties, Oregon.

Date: 1/9/04

Stand Stocking: 60%

| Species | Avg. DBH | Amortized% | Recovery% |
|---------------|----------|------------|-----------|
| Douglas - Fir | 25 | 0 | 95 |

| Volume by Grade | Douglas - Fir | Total |
|-----------------|---------------|-------|
| SM | 342 | 342 |
| 2S | 1,058 | 1,058 |
| 3S | 268 | 268 |
| 4S | 100 | 100 |
| Total | 1,768 | 1,768 |

Comments: Pond Values Used: 4th Quarter 2003.



Timber Sale Appraisal

Logging Conditions

Cedar Top

Sale 341-04-77

"STEWARDSHIP IN FORESTRY"

Combination#: 1 Douglas - Fir 100.00%

Yarding Distance: Short (400 ft) **Downhill Yarding:** No

Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Delimiting

Tree Size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

Loads/Day: 16 **Bd. Ft./Load:** 4,500

Cost/MBF: \$46.06

Machines:
Log Loader (A)
Tower Yarder (Medium)



Timber Sale Appraisal Logging Costs Cedar Top Sale 341-04-77

"STEWARDSHIP IN FORESTRY"

Date: 1/9/04

Operating Seasons: 0.5

Profit & Risk: 10%

Project Costs: \$13,789

Other Costs (P/R): \$11,106

Slash Disposal: \$0

Other Costs: \$0

| Miles of Road | | | |
|---------------|----------------------|-----------------|-------|
| Dirt | Rock (Contractor) | Rock (State) | Paved |
| 0.3 | 0.0 | 0.0 | 0.0 |

Road Maintenance: \$0.00

Hauling Costs

| Species | \$/MBF | Trips/Day | MBF/Load |
|---------------|--------|-----------|----------|
| Douglas - Fir | \$0.00 | 3.0 | 4.5 |



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Cedar Top Sale 341-04-77

| Costs | Douglas - Fir |
|--------------------------|---------------|
| Logging | 46.06 |
| Road Maintenance | 0.09 |
| Fire Protection | 0.77 |
| Hauling | 35.89 |
| Other (P/R appl.) | 6.28 |
| Profit & Risk | 8.91 |
| Slash Disposal | 0.00 |
| Scaling | 2.00 |
| Other | 0.00 |
| Total | 100.00 |

| | |
|---------------------|--------|
| Amortization | 0.00 |
| Pond Value | 585.14 |
| Stumpage | 485.14 |
| Amortized | 0.00 |



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Cedar Top Sale 341-04-77

Amortized

| | Douglas - Fir |
|-------|---------------|
| MBF | 0.00 |
| Value | 0.00 |
| Total | 0.00 |

Unamortized

| | Douglas - Fir |
|-------|---------------|
| MBF | 1,768.00 |
| Value | 485.14 |
| Total | 857,727.52 |

Gross Timber Sale Value

Recovery \$857,727.52

Prepared by: Robert Fields

Date: 1/9/04

District: Coos

Phone: (541) 267-4136

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name:

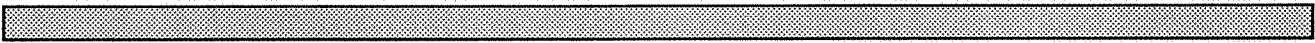
Cedar Top

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

| | <u>Quantity</u> | <u>Units</u> | <u>Cost/unit</u> | <u>Total Cost</u> |
|--------------------------------------|-----------------|--------------|------------------|-------------------|
| Felling | | | | |
| Directional Felling | 344 | MBF | \$ 2.00 | \$ 688.00 |
| Yarding and Loading | | | | |
| Rig Tail Trees | 25 | Tree | \$ 100.00 | \$ 2,500.00 |
| Artificial guyline/tail tree support | 50 | anchor | \$ 50.00 | \$ 2,500.00 |
| Brand and paint logs | 1768 | MBF | \$ 1.00 | \$ 1,768.00 |
| Loader time for firewood stacking | 8 | Hours | \$ 75.00 | \$ 600.00 |
| Snag Creation | | | | |
| Tree Topping | 20 | Trees | \$ 100.00 | \$ 2,000.00 |
| Miscellaneous Costs | | | | |
| Safety Flagging and/or signing | 35 | per day | \$ 15.00 | \$ 525.00 |
| Additional Fire Equipment | 35 | per day | \$ 15.00 | \$ 525.00 |

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

\$ 11,106.00



SUMMARY OF CONSTRUCTION COST
Cedar Top

Project No. 1A: Road and Landing Construction

Points: A to B (Area I) Length: 1115' Type: 14' no ditch

Clearing and Grubbing

| | | | | |
|------------|----------|-------------------|----------|-------------------|
| <u>1.0</u> | acres at | <u>\$1,007.00</u> | per acre | <u>\$1,007.00</u> |
|------------|----------|-------------------|----------|-------------------|

Total clearing and grubbing \$1,007.00

Excavation

| | | | | | |
|--------------------------|-----------|--------|-----------------|--------|-------------------|
| Cat excavation | <u>25</u> | hrs at | <u>\$125.00</u> | per hr | <u>\$3,125.00</u> |
| Excavator to load trucks | <u>15</u> | hrs at | <u>\$110.00</u> | per hr | <u>\$1,650.00</u> |
| Laborer | <u>15</u> | hrs at | <u>\$30.00</u> | per hr | <u>\$450.00</u> |

Total Excavation \$5,225.00

Hauling

| | | | | | |
|-----------------------|-----------|--------|----------------|--------|-----------------|
| Endhaul to fill areas | <u>15</u> | hrs at | <u>\$60.00</u> | per hr | <u>\$900.00</u> |
|-----------------------|-----------|--------|----------------|--------|-----------------|

Total Hauling \$900.00

Grade Road Surface

| | | | | |
|----------|--------|----------------|----------|----------------|
| <u>1</u> | hrs at | <u>\$75.00</u> | per hour | <u>\$75.00</u> |
|----------|--------|----------------|----------|----------------|

Total Grading \$75.00

Total Project 1A \$7,207.00

Project No. 1B: Step-Up Landing Construction

Points: C (Area I) Type: 40'x50' yarder pad

Clearing and Grubbing

| | | | | |
|-------------|----------|-----------------|----------|-----------------|
| <u>0.25</u> | acres at | <u>\$790.00</u> | per acre | <u>\$197.50</u> |
|-------------|----------|-----------------|----------|-----------------|

Total clearing and grubbing \$197.50

Excavation

| | | | | | |
|--------------------------------------|-----------|--------|-----------------|--------|-------------------|
| Excavator for excavation and loading | <u>15</u> | hrs at | <u>\$110.00</u> | per hr | <u>\$1,650.00</u> |
| Cat time | <u>5</u> | hrs at | <u>\$125.00</u> | per hr | <u>\$625.00</u> |

Total Excavation \$2,275.00

Hauling

| | | | | | |
|--|-----------|--------|----------------|--------|-----------------|
| Endhaul to waste area near Point A or on road between A to B if necessary | <u>15</u> | hrs at | <u>\$60.00</u> | per hr | <u>\$900.00</u> |
|--|-----------|--------|----------------|--------|-----------------|

Total Hauling \$900.00

**SUMMARY OF CONSTRUCTION COST
Cedar Top**

Rock

| | | | | | | |
|---|-----------|--------|----------------|--------|-------------------|------------------------------------|
| 1 1/2"-0" Rock for 1000 Rd at the completion of logging (2.6 hr RT from Parker) | <u>70</u> | yds at | <u>\$15.28</u> | per yd | <u>\$1,069.60</u> | |
| | | | | | | Total Rock \$1,069.60 |
| | | | | | | Total Project 1B \$4,442.10 |

Move-in

| Equipment | Miles | Mileage Factor | Equipment Allowance | Total | |
|------------|-------|-------------------|------------------------|----------|-----------------------------------|
| Excavator | 40 | 0.82 | \$533.00 | \$437.06 | |
| D8 Cat | 40 | 0.82 | \$533.00 | \$437.06 | |
| Grader | 40 | 0.82 | \$241.00 | \$197.62 | |
| Dump Truck | 40 | 0.82 | \$144.00 | \$118.08 | |
| | | | | | Total Move-in \$1,189.82 |
| | | | | | Project 1 Cost \$12,838.92 |

Project No. 2: Road and Landing Improvement

Points: D to E (Area II) Length: 400' Type: 14' wide no ditch

Excavation

| | | | | | | |
|--|----------|--------|-----------------|--------|-----------------|----------------------------------|
| Cat excavation (includes time to move between Areas I and II) | <u>7</u> | hrs at | <u>\$125.00</u> | per hr | <u>\$875.00</u> | |
| | | | | | | Total Excavation \$875.00 |

Grade Road Surface

| | | | | | | |
|--|----------|--------|----------------|----------|----------------|--|
| | <u>1</u> | hrs at | <u>\$75.00</u> | per hour | <u>\$75.00</u> | |
| | | | | | | Total Grading \$75.00 |
| | | | | | | Total Project 2 \$950.00 |
| | | | | | | Total Project Costs \$13,788.92 |

TIMBER SALE SUMMARY

Cedar Top

1. **Type of sale:** Final harvest; Recovery, Sealed Bid.
2. **Boundary Lines:** Sale boundaries are marked on the ground with "Timber Sale Boundary" posters, red paint, and red flagging at locations shown on the Exhibit A.
3. **Revenue Distribution:** 100% CSL, 0% BOF.
4. **Sale Acreage:** The net harvested area is 35.5 acres. The acreage was determined using ArcView software by digitizing the boundary over an orthophoto image and then calculating the area using a measuring tool in an ArcView program extension.
5. **Volume by Species, Fund, and County:** See table on page 3.
6. **Grade by Percent:**

| Species (by Area) | 3 Peeler | Special Mill | 2 Saw | 3 Saw | 4 Saw/Camp |
|----------------------|----------|-----------------|-------|-------|---------------|
| Douglas-fir | | 19 | 60 | 15 | 6 |

7. **Cruise:** The sale area was variable plot cruised using the Big BAF cruise design, which consisted of 55 nested plots. Each plot consists of both a full 40 BAF count plot and a full 250 BAF measure plot. The 40 BAF count plot was used to tally the number of trees by species to determine stand basal area. The 250 BAF plot was used to obtain height, grade and defect. Fifty-six Big BAF trees were cruised for diameter, height, grade and defect. Cruising was done by ODF Foresters and compiled using Superace and Excel, in July 2003. The combined sampling error for board foot volume was 6.85%.

A. Cruise Summary Data:

| Diameter | Top Diameter | Form Point | Form Factor | CV % | SE % |
|----------|-----------------|--------------|---------------------------------------|---------|---------|
| D4H | Total Height | Conifer: 16' | Recorded or estimated on all trees | 31 | 6.85 |

B. Stand Summary:

| Species (By Area) | D4H | Trees per Acre | Basal Area (ft ² /ac) | Net BF per acre |
|----------------------|-----|----------------|-------------------------------------|--------------------|
| Douglas-fir | 25 | 63 | 222 | 50 |

C. Green Tree Retention Summary: There are 190 trees marked as GTR associated with this sale. The following table summarizes the number of trees by species that correspond with each of the sale areas.

| GTRs In Area | Total # of Stems | Douglas Fir MBF | Hemlock MBF | Red Cedar MBF | Hardwoods MBF |
|-----------------|---------------------|--------------------|----------------|------------------|------------------|
| 1 | 155 | 73 | 65 | 1 | 16 |
| 2 | 35 | 28 | 7 | 0 | 0 |
| Total | 190 | 101 | 72 | 1 | 16 |

8. **Timber Description:** The majority of the sale area is composed of 145 year old second growth Douglas Fir of good to average quality, intermixed with small amounts of Western hemlock and scattered Red Alder plus a few red cedar. Any tree species except Douglas Fir are to be left uncut.
9. **Topography:** The sale area is moderately steep (>50%) with some gentler bench areas in Area 1. The topographic map for this area does not reflect relief of smaller benches in great detail.
10. **Logging Method:** The sale areas will be cable logged uphill with single-end suspension over the unit. Lift trees will be identified along the boundary of Area 1 to facilitate suspension of payloads. Full suspension will be required as necessary to protect streams and RMAs. A motorized carriage may be needed to obtain the necessary suspension.
11. **Access:** From Coos Bay, take Coos River Route past Allegany to the mouth of Marlow Creek (approximately 16 miles). Turn northeast (left) onto State Forest 1000 Road (Elk Ridge Road) take this road to Area 1 (approximately 17 miles). Continue traveling easterly on State Forest 1000 Road (Elk Ridge Road) approximately 1.5 miles to Area 2.
12. **Projects:**
Project No. 1A: Road and Landing Construction
Project No. 1B: Step-Up Landing Construction
Project No. 2: Road and Landing Improvement

NET VOLUMES AND ACREAGE

| SALE AREA & SPECIES | | Tree cnt. 100% Units | NET VOLUMES (MBF) | | | | | | | Vol. per Acre |
|---------------------|-------|----------------------|--------------------|-------|-----|---------|-------|------|-------------|---------------|
| | | | By County and Fund | | | | | | | |
| | | | Coos | | | Douglas | | | Total Vols. | |
| Area | Spec | CSL | BOF | Total | CSL | BOF | Total | | | |
| I | D-fir | 1454 | | 1454 | | | 0 | 1454 | 50 | |
| | Hem | | | 0 | | | 0 | 0 | | |
| | Cedar | | | 0 | | | 0 | 0 | | |
| | Hdwd | | | 0 | | | 0 | 0 | | |
| II | D-fir | | | 0 | 314 | | 314 | 314 | 48.3 | |
| | Hem | | | 0 | | | 0 | 0 | | |
| | Cedar | | | 0 | | | 0 | 0 | | |
| | Hdwd | | | 0 | | | 0 | 0 | | |
| TOTALS | | 1454 | 0 | 1454 | 314 | 0 | 314 | 1768 | | |

TOTAL SALE VOLUME BY SPECIES

Douglas-fir 1768 MBF
Hemlock 0 MBF
RedCedar 0 MBF
Hardwoods 0 MBF

Report by: Cedar Top

Date: 10/10/2003

Unit For. _____

Date

Asst. Dist. For. Greg Kreininger 12/5/2003
Date

**UTILITY VOLUME NOT SHOWN TO PROVIDE FOR RETENTION OF DOWN LOGS
NO INGROWTH INCLUDED**

ACREAGE BY COUNTY (to nearest acre)

| Sale Area | Coos County | | | | | | Douglas County | | | | | | TOTAL ACRES |
|-----------|-------------|----|------------|------------|-----------|---|----------------|------------|------------|------------|------------|---|-------------|
| | CSL | | BOF | | Hard wood | | CSL | | BOF | | Hard woods | | |
| | cc | pc | Conifer cc | Conifer pc | | | Conifer cc | Conifer pc | Conifer cc | Conifer pc | | | |
| I | 29 | | | | | | | | | | | | 29 |
| II | | | | | | | 6.5 | | | | | | 6.5 |
| SUM | 29 | 0 | 0 | 0 | 0 | 0 | 6.5 | 0 | 0 | 0 | 0 | 0 | 35.5 |

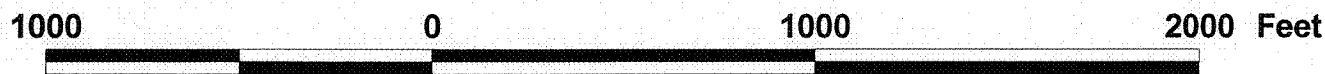
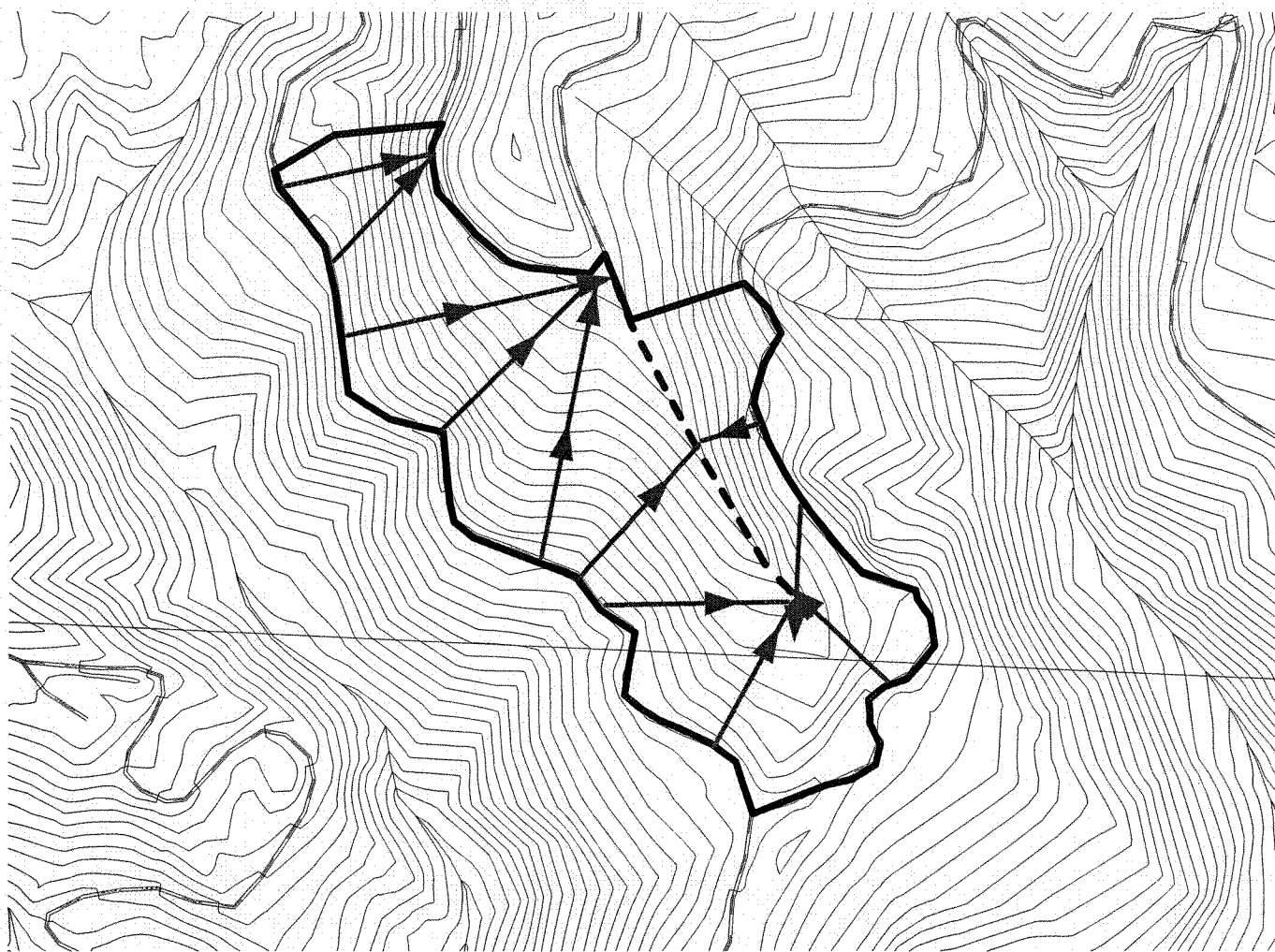
cc- clearcut








pc- partial cut

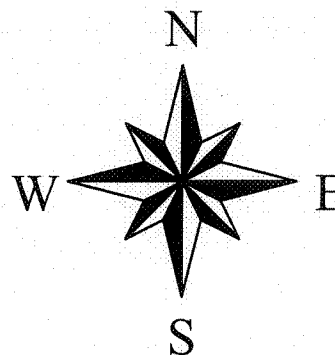
BOF - Board of Forestry

CSL - Common School Land

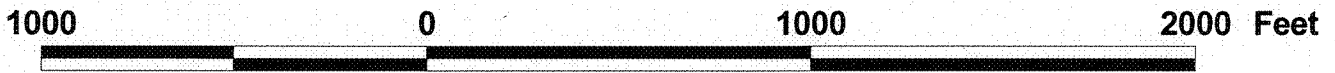
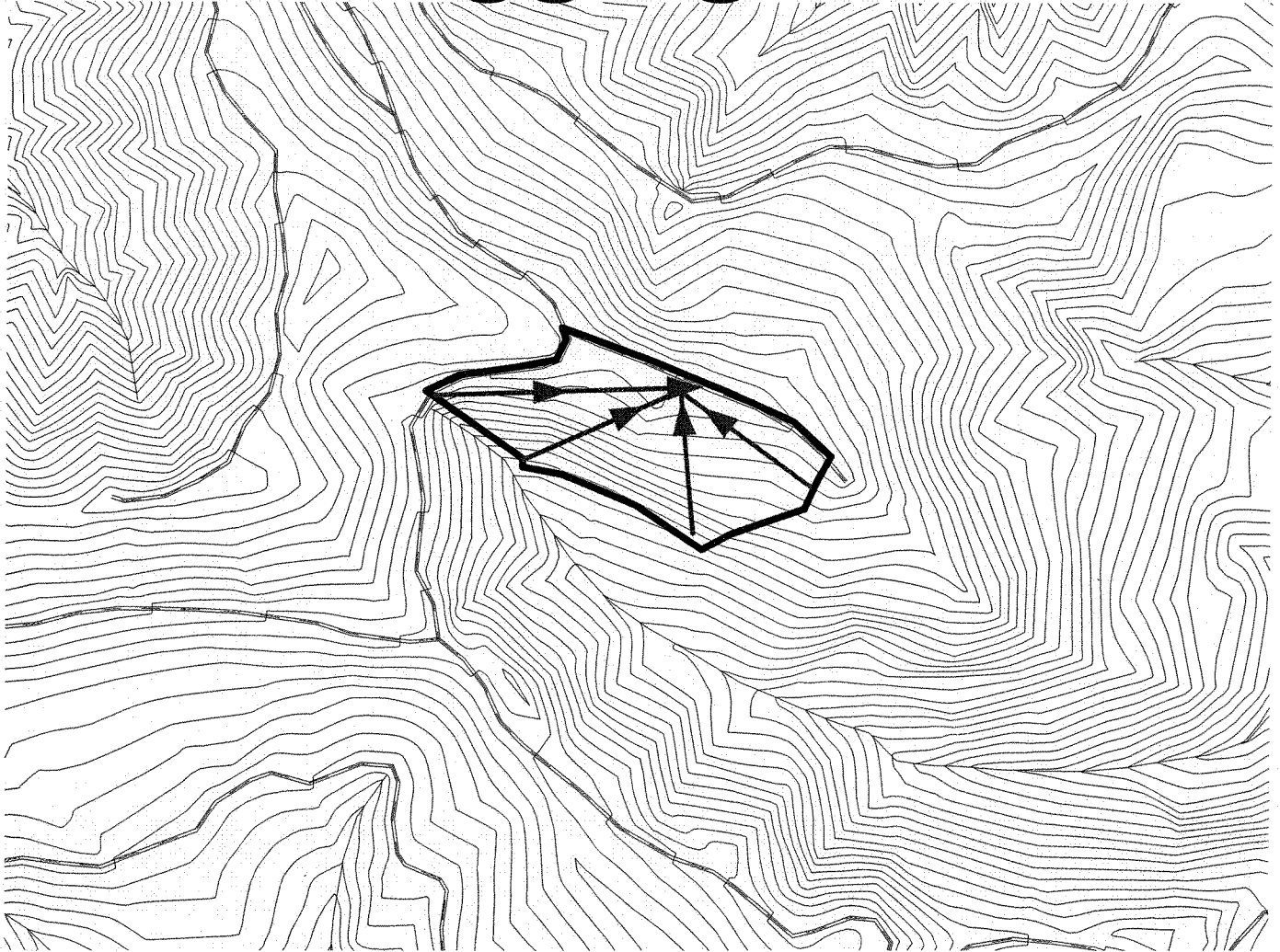
Cedar Top - Area I Logging Plan









-  Yarding Plan
-  Sale Spur
-  20 ft contours
-  Streams
-  Roads
-  Section Lines
-  Timber Sale Boundary



Cedar Top - Area II Logging Plan



-  Yarding Plan
-  20 ft contours
-  Streams
-  Roads
-  Section Lines
-  Timber Sale Boundary

