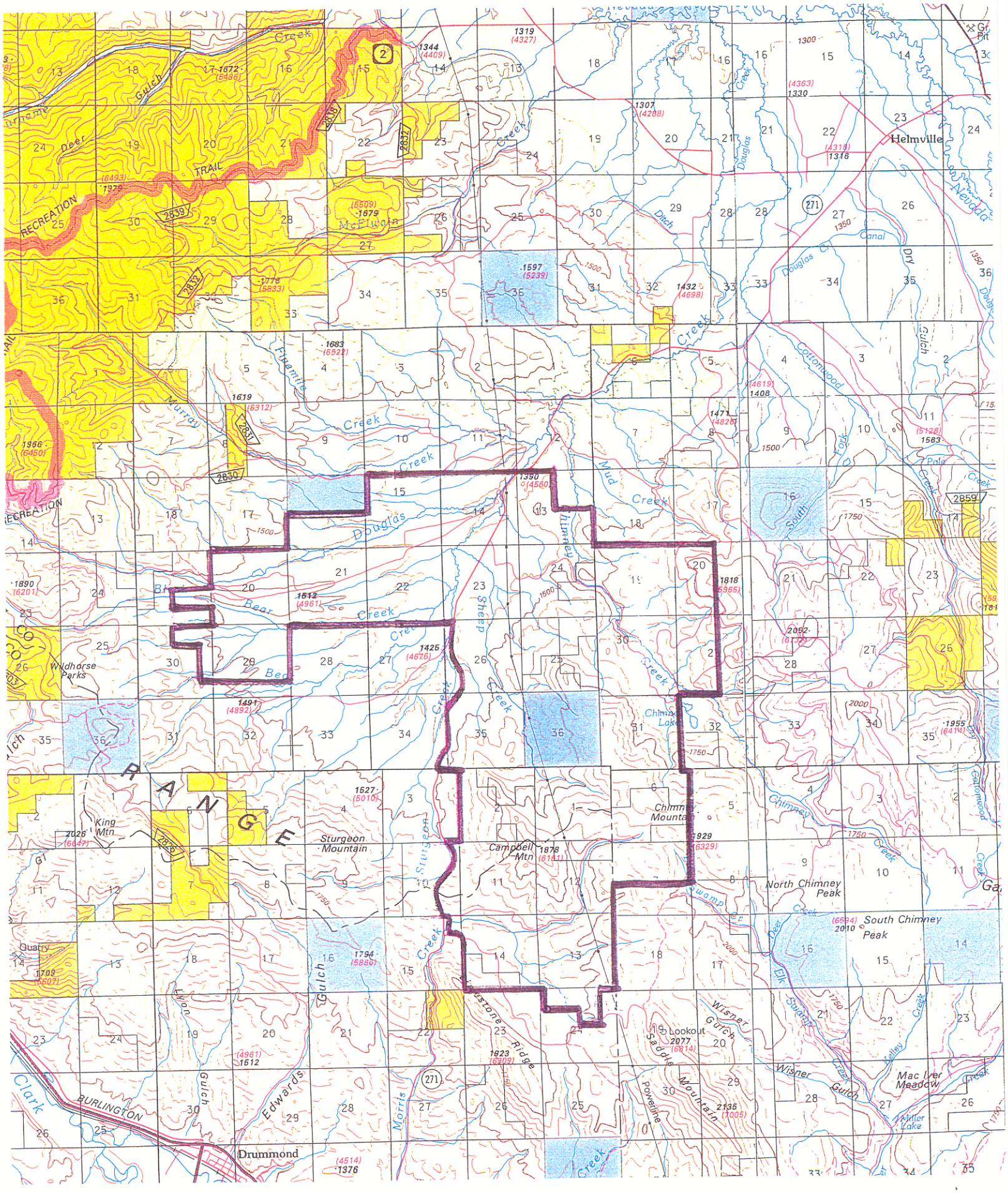


Figure 1. Location of the Manley Ranch (outlined in black) in relation to Drummond, Helmville, Douglas Creek and public lands (BLM in yellow, DNRC in blue).

MANLEY PHASE 2 LEGAL DESCRPTION
DRAFT

TOWNSHIP 11N, RANGE 11W, P.M.M.		**ACRES**
Section 6:	Government Lots 1, 2, 3 and 4	152.99
TOWNSHIP 11N, RANGE 12W, P.M.M		
Section 1:	Government Lots 1, 2, 3 and 4	166.80
Section 2:	Government Lots 1, 2, 3 and 4	162.80
TOWNSHIP 12N, RANGE 11W, P.M.M		
Section 19:	Government Lots 1, 2, 3 and 4, E½, E½W½	669.72
Section 20:	W½	320.00
Section 29:	Government Lots 3 and 4, S½NW¼, SW¼	347.22
Section 30:	Government Lots 1 through 14, E½SW¼, SE¼	726.25
Section 31:	Government Lots 1 through 4, E½, E½W½	663.13
TOWNSHIP 12N, RANGE 12W, P.M.M		
Section 23:	All that portion lying East of the County Road	426.00
Section 24:	All	640.00
Section 25:	All	640.00
Section 26:	E½NW¼, E½, E½SW¼; that part East of the County Road in the NW¼NW¼, W½SW¼ and SW¼NW¼	547.27
Section 35:	All less highway	632.55
Total Acres		**6,094.73**

Figure 2. Draft legal description for the proposed Manley (Phase 2) Conservation Easement.

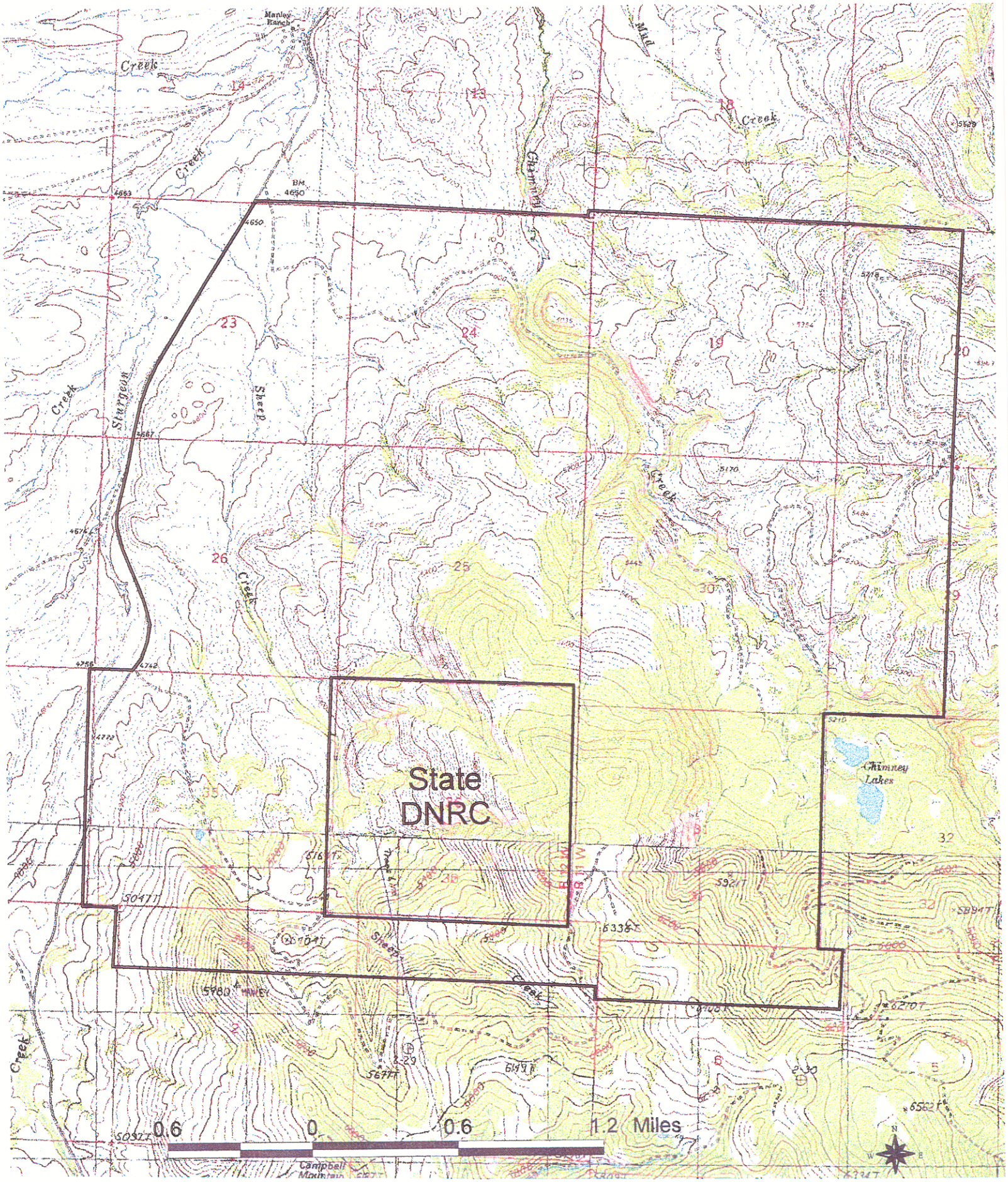
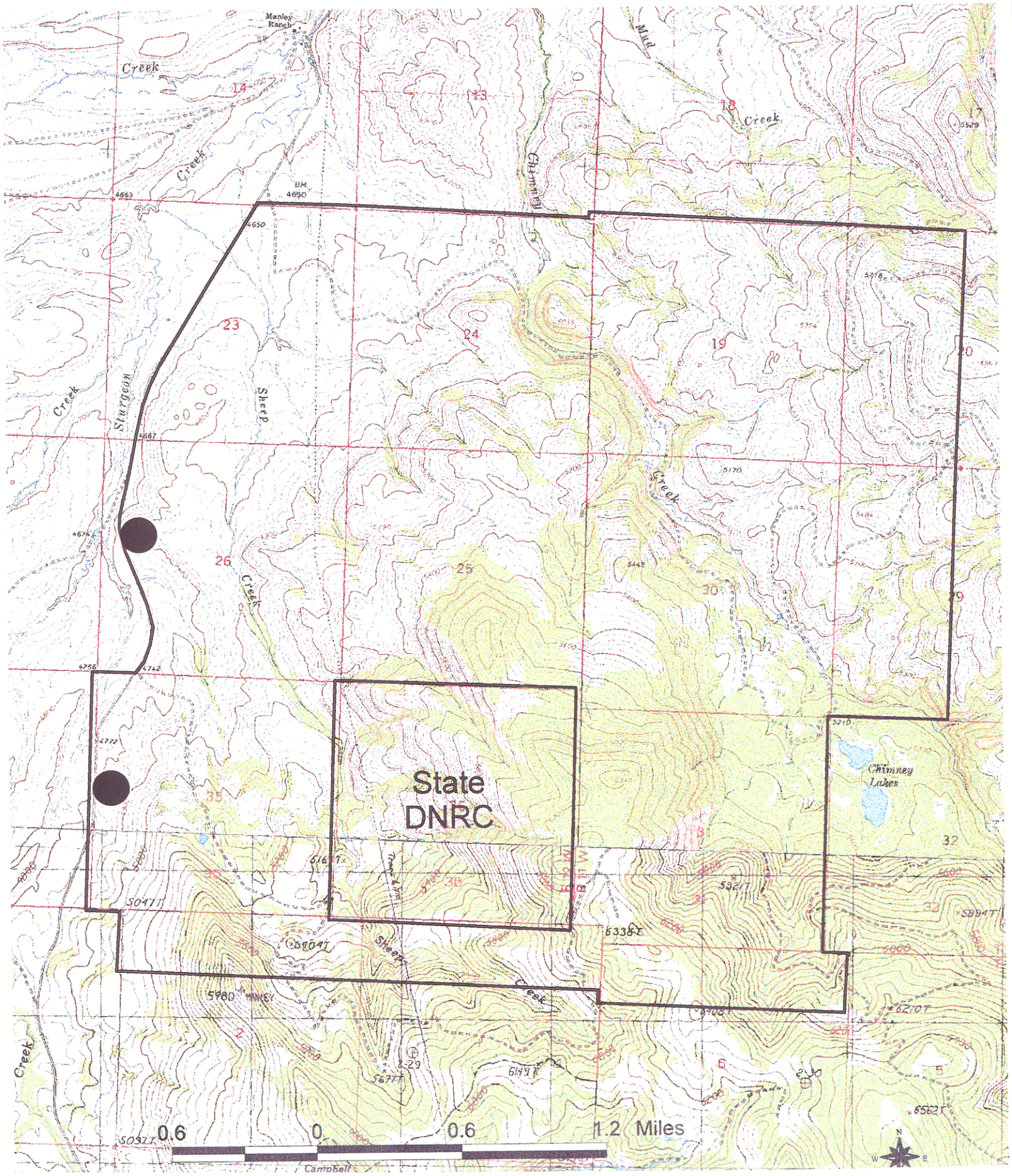


Figure 3. Boundary for the proposed Manley (Phase 2) Conservation Easement.



Management Plan Figure 1. Proposed locations (black dots) of two parking areas to provide public access to the Manley (Phase 2) Conservation Easement.

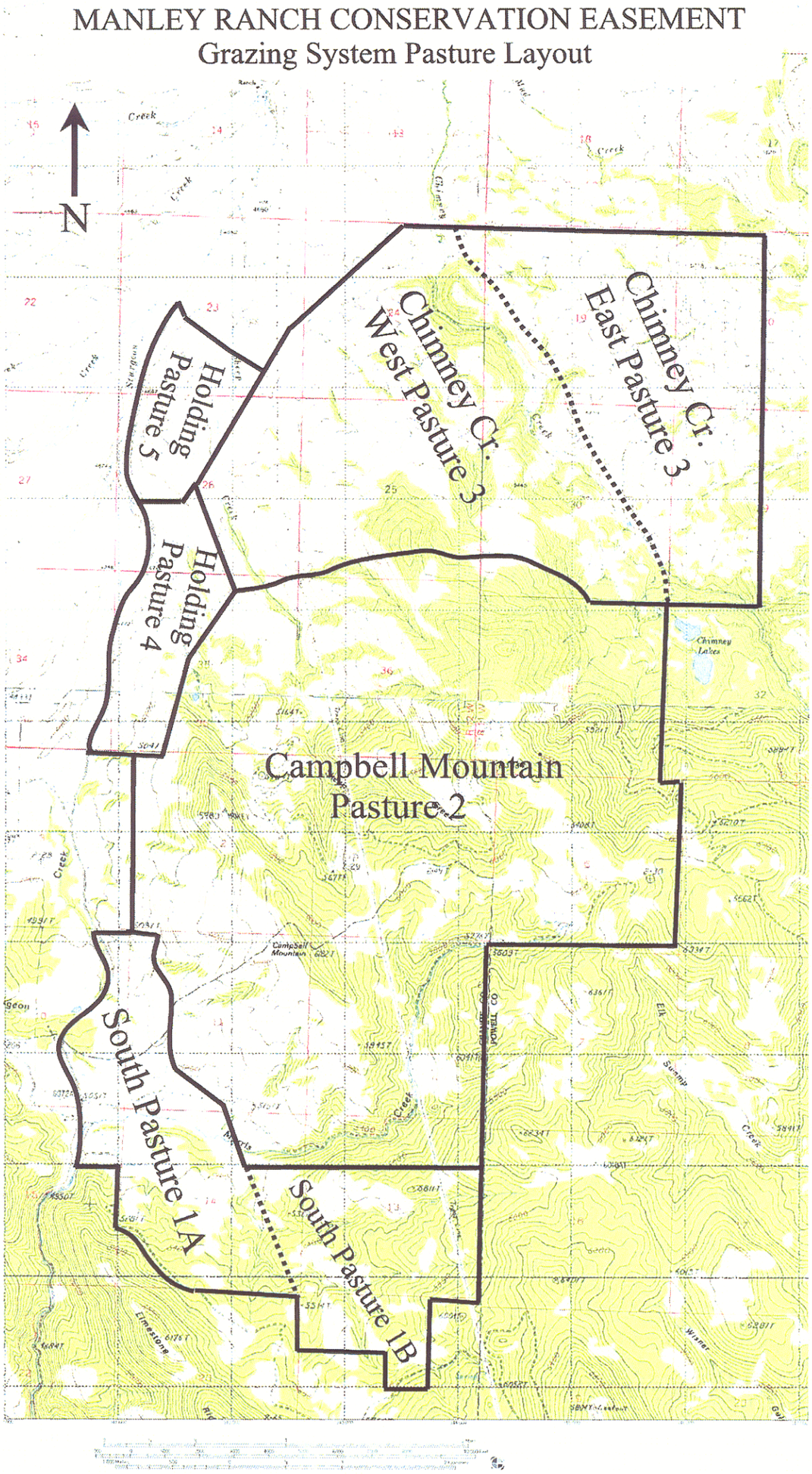


Figure 2. Manley Ranch Pasture Map.

FOREST STEWARDSHIP PLAN

Prepared by: MSU Extension Forestry
For: Montana Forest Stewardship Program
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Authors

This Stewardship Plan was completed by:

Landowner Name(s): Manley Ranch, Janet and John Manley
(or representative)

Mailing Address: 1153 Hwy 271
Drummond MT 59832

Date of Completion: 9/28/01

Property Ownership

Owner(s) of Record: Manley Ranch, Janet and John Manley

Legal Description: Phase II

Total Acreage: 6816

County: Powell

Record of Certification

Reviewed by a Forest Stewardship Advisor representing the Montana Forest Stewardship Program.

Stewardship Advisor Name: JOHN E. WELLS, ACF

Date of Property Visit: 9/28/01

Stewardship Advisor Signature: J. E. Wells Jr.

Forest Landowner(s) Signature(s): Janet Manley
John Manley

MANAGEMENT UNIT 17 Estimated Acreage: 49

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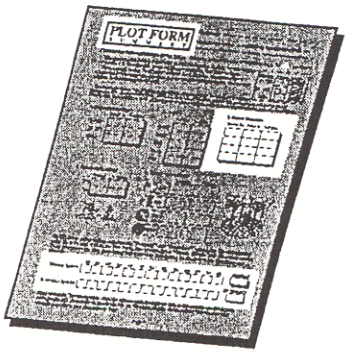
1. Management Unit Description

Management Unit (MU) description based on Stewardship Inventory.



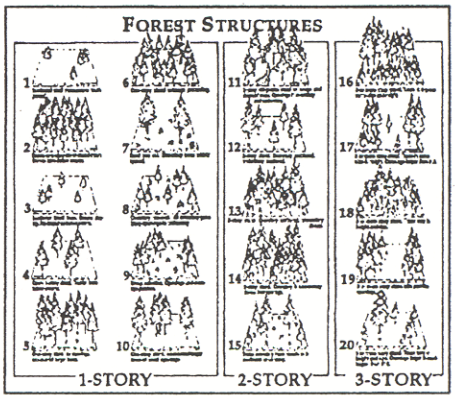
Tree Species:

PRIMARY: DF

SECONDARY: PP

Forest Structure:

Structure #	% of plots
9	20
12	50
5	20
10	10

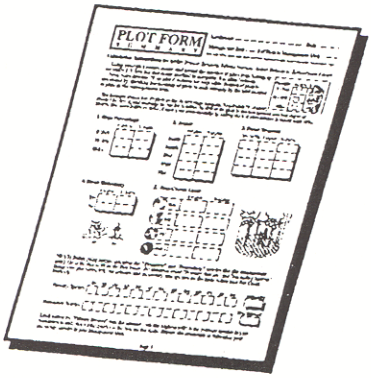


General Description of the MU unique features, special considerations, etc.

DF forest on steep west facing slope with a lot of rocky slopes. Heavily used by elk as security and bedding cover. No past harvest.

2. Stewardship Potential and Limitations

Using the *Plot Form Summary* and handout *What My Plot Information Tells Me*, describe the potential and limitations for each forest resource below.



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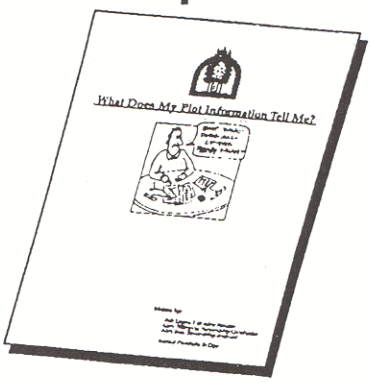

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POTENTIAL & LIMITATIONS

Forested Range resource:

Potential: Presence of preferred and desirable grass species.

Limitations: Too steep and rocky for livestock use. Low forage production.

Wildlife resource:

Potential: Excellent elk bedding and security area.

Limitations: Lack of preferred elk forage.

Timber resource:

Potential: Existing stand of DF with no past harvest activity.

Limitations: Steep rocky soils. Slow tree growth rates.

Other resources: (Specify: water, soil erosion, recreation, riparian, aesthetics, etc.)

Specify: Aesthetics

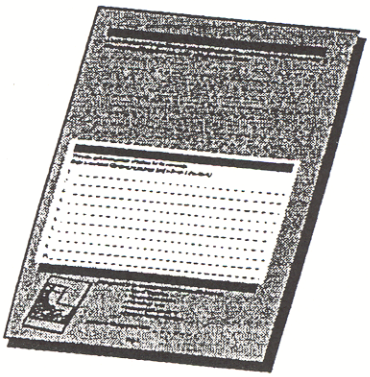
Potential: This MU is within view of Highway 271.

Limitations: Treatment could be seen from road.

MANAGEMENT UNIT 17 Estimated Acreage: 49

3. Stewardship Resource Objectives

Having listed potential and limitations, refer back to Forest Stewardship Goals on page 4 and describe your objectives for each of the resources listed below:



Forested Range resource:

None

Wildlife resource:

Maintain timber stand. Minimize human activity in MU.

Prevent stand replacing fire.

Timber resource:

Use timber harvest as a tool to obtain wildlife resource objectives.

Other resources: (Specify: water, soil erosion, recreation, riparian, aesthetics, etc.)

Specify: Aesthetics

Maintain scenic forest stand.

4. What is Your Management Unit Emphasis?

MU emphasis is the forest resource (listed above) which will receive the highest priority.

☐ Timber ☒ Wildlife ☐ Range ☐ Other _____

5. Desired Future Condition

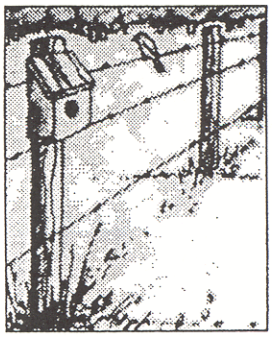
Knowing your MU emphasis, how do you want your MU to look in the future? Describe changes required to correct problems, enhance production of a resource and/or maintain currently desirable conditions.

The current condition of the MU is also the desired future condition. Prevent forest fires. Monitor for insect and disease problems that would cause loss of many trees in stand. Treat insect and disease problems. The plot data suggests stand structure will remain the same for the next several decades. In summary, management includes measures to prevent and monitor and treat any things that may cause significant change.

MANAGEMENT UNIT 17 Estimated Acreage: 49

6. Proposed Treatment

Achieving desired future conditions requires activities (treatments) designed to improve existing conditions. (Example: wildlife habitat modification, timber stand improvement, range improvement, fire hazard reduction, etc.) Each treatment requires a prescription detailing how the activity will be accomplished. *(Attach a copy of this sheet for each additional treatment prescription.)*



Treatment Prescription

a. Activity: Such as grass seeding, tree thinning, shrub planting, etc.

Control any future disease/insect problems

b. Treatment Location: Acreage ?

MU sketch with treatment boundaries shown. →

c. Treatment Sequence: When will you seek expert advice, obtain permits, develop contracts, apply for cost-share, implement treatment, follow-up activities, etc.

Spring: 2001 - Professional forester checks for disease/insect problems - done

Summer: Continued monitoring every few years for disease/insect problems.

Fall: When/if problems found, get expert advice for treatment method, based on type of insect and/or disease.

Winter: Treat accordingly, and followup monitoring.

d. Treatment Method: How will the work be done? Describe materials, labor, tools, work specifications, etc.

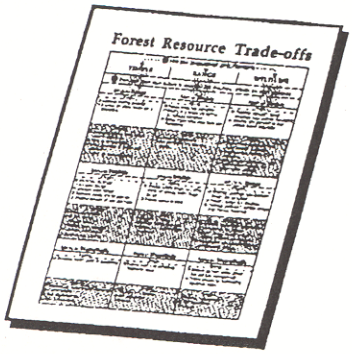
Will depend on type of insect/disease problem. Would probably involve some level of harvest and/or thinning.

e. Limitations and Constraints: Personal, biological, or physical limitations, easements, covenants, rare/endangered species, etc.

Steep rocky conditions may make treatments difficult. Low value trees may make treatments uneconomical. Treatments will need to comply with conservation easement terms. Treatments need to consider view of unit from road and how it may be impacted.

MANAGEMENT UNIT 17 Estimated Acreage: 49

7. Treatment Effects on Forest Resources



Describe possible effects of the treatment on each forest resource below: *(Use Forest Resource Trade-offs handout from Session 6.)*

Effects Acceptable? Yes No

Forested Range resource: Not an issue. Steep rocky nature of unit eliminates grazing use. ☐ ☐

Wildlife resource: Treatment designed to maintain the existing valuable elk habitat. ☐ ☐

Timber resource: Control of insects/disease will help maintain timber stand, and possibly other adjacent stands. ☐ ☐

Other resources: (Water, soil erosion, recreation, riparian, aesthetics, etc.) Specify: High levels of harvest or thinning, on steep rocky soils, and viewable from road, could ~~cause unacceptable impacts to water quality, soils and aesthetics.~~ Would need to balance treatment with these resource concerns. ☐ ☐

8. Treatment Implementation and Cost Analysis (10 Year Planning Period)

Time Period	Treatment Activity	Season	Net Cash Flow	
			Cost	Income
Years 1 - 2	~~Monitor~~	~~Summer~~	~~$500~~	~~$0~~
	Completed in 2001			
		subtotal		
Years 3 - 4				
	Monitor	Summer	$500	
	Treat?	?	?	?
		subtotal		
Years 5 - 6	See Years 3-4			
		subtotal		
Years 7 - 8	~~See Years 3-4~~			
		subtotal		
Years 9 - 10	See Years 3-4			
		subtotal		
		TOTAL		