STATE SCHOOL LAND RECONNAISSANCE REPORT*

	Reconnaissance Date <u>July 10, 1978</u>
	Legal Description: Sec. 36 Twp. 12N R. 72W
	Geographic Location: County Larimer Other 2 miles south of
	the Wyoming State Line west of highway 287.
	Acreage: Forest 385 Other (describe) 100 acre rock
	outcropings, brush and rangeland.
	*
	Physical Features (boundaries, fences, section corners, roads, streams water developments, etc.)
	The section itself is unfenced and only the NW section corner
	was located. The road is passable by 2WD pick-up. No water
	developments were located. See map for additional details.
	Water for Fire Control Fish Creek and Georges Gulch (both flowing
	at the time of inspection)
	Major Forest Type(s) Ponderosa pine, Douglas-fir
	Estimated Volumes 3-5 MBF/A
	Growth Data low to medium vigor
	Coneral Stand or Range Condition Fair condition - stable range
	trend.
	or end.
	Insects & Disease Mountain Pine Beetle is prevalent throughout
	the area. Groups of 10 to 50 bit trees may be found in scattered locations.
1	Spon completing report, send copy to state lands staff forester, and Board forester, and Land Board. Report due within seven days sollowing reconnaissance.

Additional Notes for S36 T12N R72W General Stand Description

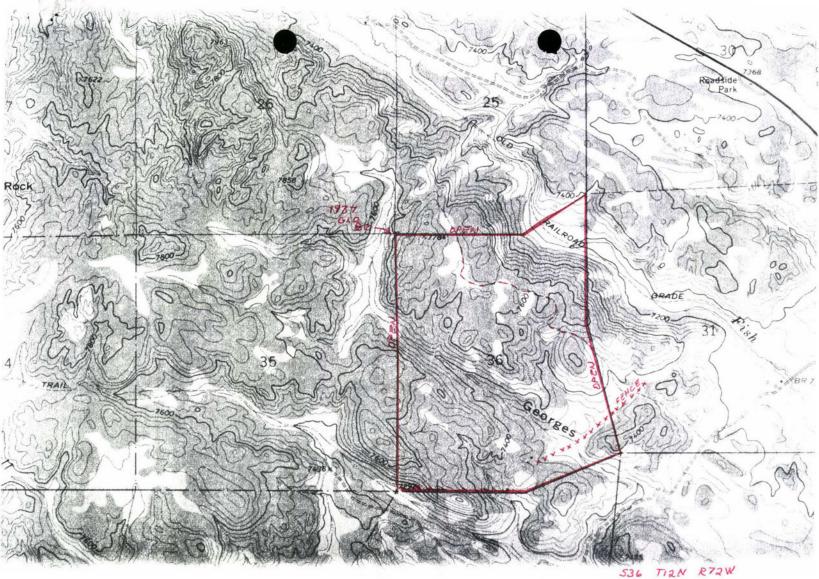
Most of this section is covered with fairly open grown Ponderosa pine, with volumes running from 3 to 5 MBF/A and heights in the 30 foot class, and DBH's under 12". Many of the sites appear poor with shallow rocky soils. Some Douglas-fir does occur on the northern aspects but usually on slopes exceeding 30%.

Some thinning should be done in the dense patches of Ponderosa pine and Douglas-fir where slopes permit. Also the mature and overmature pine as well as the beetle killed trees should be harvested. These may be as much as 250 MBF of small sawlog material scattered along the bottoms and along the edges of the stands. There are several hundred beetle killed trees in the SW4 which could be harvested for firewood with perhaps a few house logs.

RPJkrp

12.	Available Forest Products Firewood, small sawlogs, a few posts
	and poles, and some Douglas-fir Xmas Trees.
13.	Potential Markets Laramie or Fort Collins area
14.	Cutting Recommendations See additional notes
	·
15.	Subdivision Potential Some suitable sites available in the open
	meadows, however, any brushy areas or steep areas must be avoided.
16.	Recreation Potential No specific attraction here some hunting
	or hiking possible .
17.	Priority for Management Work: High Medium Low X
18.	Management & Protection Goals <u>Cut the mature and overmature</u>
	Ponderosa and the beetle kills to increase the Vigor of the
	stand and reduce fire hazard.
19.	Lessee's Name John Clark Moen Virginia Dale, CO 80548
20.	Watershed Condition or Erosion Some erosion occurring along the
	road bed at teh east section line.
21.	Should State Retain or Dispose (give reasons) Grazing lease and
	moderate timber value.
(Att	ach copys of topog or sketch map)
Fore	ster in Charge <u>January</u> Date <u>September 5, 1978</u>

Quad - Cherokee Park Photos - 774-54 (F.L. 56) Color 1975 Fort Collins CSFS District



SERVICE AGREEMENT

THIS AGREEMENT, made this 17th day of July 1995, by and between State Board of Agriculture, on behalf of the Colorado State Forest Service, Colorado State University, Ft. Collins, CO 80523, hereinafter referred to as CSFS, and Woodland Management Consultants, P O Box 10, Ft Collins, CO 80522, hereinafter referred to as the CONTRACTOR; and

WHEREAS, the CONTRACTOR has the expertise to provide forest practice services; and

WHEREAS, the CSFS desires to implement forest practices described in this agreement.

NOW, THEREFORE, it is hereby agreed that:

1. CSFS warrants that they have authority from the State Board of Land Commissioners (SLB) pursuant to agreement dated July 1, 1991, as amended January 1, 1993 to grant all rights to the CONTRACTOR provided for in this Agreement. The property is described as follows:

S16 T1S R79W in Grand County
S36 T3N R77W in Grand County
S36 T7N R78W in Jackson County
**S36 T12N R72W in Larimer County
S36 T1N R85W in Routt County

- 2. CSFS grants to CONTRACTOR the right of access to the above described property for the following purposes: develop and implement approved forest management plans, consistent with CSFS and SLB statutes, rules, regulations and standards.
- 3. CONTRACTOR agrees to provide the services specified in Paragraph 2 of this Agreement in consideration for: the following percentages of revenue generated from the sale of forest products as specified in CSFS and SLB approved forest management plans and annual work plans.

 S16
 T1S
 R79W
 24
 percent

 S36
 T3N
 R77W
 26
 percent

 S36
 T7N
 R78W
 28
 percent

 S36
 T12N
 R72W
 25
 percent

 S36
 T1N
 R85W
 28
 percent

- 4. It is understood between the CSFS and the CONTRACTOR that this Agreement shall begin on the date first above written, and shall remain in force five years dependent on satisfactory performance.
- 5. This Agreement may be terminated by either party thirty (30) days following written notice to the other party.

- 6. CONTRACTOR may assign rights provided for in this agreement to a subcontractor of its choice with the approval of the CSFS.
- 7. The CONTRACTOR shall maintain during the life of this agreement such liability & other insurance as is required by Colorado law.
- 8. This agreement may be extended due to inability of the CONTRACTOR to perform the work due to circumstances beyond its control or as mutually agreed to by the CSFS and CONTRACTOR. All extensions will be written and become a part of this Agreement.
- 9. Financial obligations of CSFS payable after the current fiscal year are contingent upon funds for that purpose being appropriated, budgeted and otherwise made available.
- 10. The CONTRACTOR agrees as part of this agreement that it will comply with all applicable laws regarding discrimination on the basis of race, creed, color, sex, or handicap including but not limited to Executive Order 11246 as amended or as may be further amended hereafter.
- 11. The laws of the state of Colorado and rules and regulations issued pursuant thereto shall be applied in the interpretation, execution and enforcement of this Agreement.
- 12. The signatories hereto aver that they are familiar with 18-8-301, et. seq., (Bribery and Corrupt Influences) and 18-8-401, et. seq., (Abuse of Public Office), C.R.S. 1973, as amended, and that no violation of such provision is present.
- 13. The signatories aver that to their knowledge no CSFS employee has any personal or beneficial interest whatsoever in the services or property described herein.

IN WITNESS WHEREOF the parties hereto have executed this agreement on the day first above written.

WOODLAND MANAGEMENT

CONSULTANTS

COLORADO STATE FOREST SERVICE

Parcel # 22360-00-928

FOREST MANAGEMENT PLAN

Legal Description: Section 36, T. 12 N., R. 72 W.

Prepared by : Bill Gherardi; Woodland Management Consultants

PO Box 10, Fort Collins, Co., 970-221-1336

Date : February 26, 1996

TABLE OF CONTENTS

	rayen
I. Objectives	1
II. General Description	4
A. Location	1
B. Topographic & Climatic Conditions	1
C. Economic Condition	1
D. Management Units	2
E. Current & Historical Land Use	2
F. Desired Condition	2
G. Impacts	2
III. Inventory	
A. Vegetation	3
B. Insects & Disease	4
C. Fire Hazard	4
D. Soil Types	4
E. Access Roads	4
F. Water Features	4
G. Cultural Features	5
H. Noxious Weeds	5
I. Wildlife Species	5
J. Endangered Species	5
K. Scenic Qualities	5
L. Archelogical Sites	5
IV. Prescriptions	
A. Reccomendations	5/6
B. Harvest Schedule	6
C. Special Requirements	6
D. Roads	7
E. Standards	7
F. Implementation Priority	7
G. Estimated Costs & Returns	7/8
V. Implementation Plan	8
VI Annendices	8

I. Objectives

- a. The State Land Board owns and operates this parcel as a trust. Thus, the long term health and productivity of the natural resources are important to the overall management emphasis. Furthermore, revenue generation is mandated by law.
- b. Mitigate future loss from mountain pine beetle.
- c. Promote healthy regeneration.
- d. Enhance the range resource.
- e. Maintain options for future land use.

II. General Description

- A. Location- refer to Exhibit A. This section is located 2 miles south of the state line and 1 mile west of Highway 287.
- B. Topographic & Climatic Conditions
 This section is divided from the west to the southeast
 by 2 intermittent streams. Slopes range from 5- 40% on all
 aspects. Scattered rock outcrops occur on the sidehills of
 intermittent drainages. Interspersed meadows occur throughout
 the section. Mean elevation is 7600 feet.

Local climate is characterized by 11.5 inches of rainfall, with 75% falling between April thru September. The average snowfall is 50 inches. Temperatures average 60 degrees in the summer. The average growing season is 86 days. Prevailing winds are from the west.

C. Economic Condition

The surrounding private land is used for summer pasture for cattle. Changing ownerships of large parcels of private land has resulted is 35 acre subdivisons for vacation homes.

Current market conditions for wood products are good since federal ownerships have scaled back all wood sales. The Front Range has a variety of wood processors which use everything from sawlogs to firewood.

- D. Management Units- refer to Exhibit B. Management Units correspond to existing vegetation types on similar aspects.
- E. Current & Historical Land Use Current land use is for summer cattle range. Forest Moen owns the majority of surrounding land to this parcel and also has leased the grazing rights to this section for the last 40 years.

During the late '70's mountain pine beetle invaded the ponderosa pine, some selective logging was done in the most accessible areas. Spruce budworm invaded the douglas fir in the mid- '80's. Scattered individual trees were later attacked by douglas fir bark beetle and killed.

Historical land use has been for cattle range, and selective logging for railraod ties.

F. Desired Conditon

Forest management will create a healthy, fully stocked forest that utilizes the site potential. Maintain mountain pine beetle at endemic levels.

G. Impacts

Due to the topography and type of forest management proposed no visual impacts will be apparent. Further, since Forest Moen controls the only access there is no other available road access.

Timber harvest will improve domestic and big game habitat, since forest stands will be opened up, providing an oppurtunity for new grass and forb production.

III. Inventory

A. Vegetation- refer to Exhibit B.

Meadow occupies 97 acres. The meadow is composed of native grasses; i.e. Idaho fescue, mountain muhly, Parry oatgrass and needlegrass. Normal growing season produces 500 - 900 pounds per acre of forage.

Non commercial forest occupies 89 acres. It is composed of scattered ponderosa pine poletimber, the average tree is 5 inch dbh, 26 feet tall with stocking levels of 35 square feet of basal area. Slopes are 40%+ with extensive rock outcrops and large surface boulders.

The remaining 324 acres is composed of 3 management units.

Management Unit #1 is 196 acres of open grown ponderosa pine sawtimber on a ridge and southeast facing slopes of less than 20%. The average tree is 10 inch dbh, 46 feet tall, 75 years old with a site index of 55, refer to Table 1. Scattered clumps of pine seedlings occur on edge openings. Individual douglas fir sawtimber trees are scattered throughout the stand. No evidence of mistletoe was found. Defects in the form of crook and forks occur on 5% of stems.

Management Unit #2 is 21 acres of douglas fir poletimber on northeast facing slopes of 30%. The average tree is 5 inch dbh, 34 feet tall, 60 years old with a site index of 45, refer to Table 1. Large diameter (12+ inch dbh) douglas fir occurs as individuals in the stand. All these trees are dead from bark beetle, with the majority blown over. The dead is not salvable.

Management Unit #3 is 107 acres of ponderosa pine sawtimber on east and south facing slopes of 10- 30%. The average tree is 11 inch dbh, 42 feet tall, 55 years old with a site index of 55, refer to Table 1. There is no mistletoe.

B. Insects & Disease

Mountain pine beetle occurs in endemic populations, isolated individuals have died in the last 3 years. Douglas fir beetle has killed isolated sawtimber trees from past spruce budworm defoilations (1982-1986).

No mistletoe was noted in the pine. Large diameter pine (12+ inch dbh) have fire scars on 10% of the stems. The last known wildfire occurred prior to 1910 when the surrounding land was declared a national forest.

C. Fire Hazard

Using the criteria for wildfire hazard identification developed by the Colorado State Forest Service, the area has a derived hazard class of B. The area is characterized by medium density conifer (35 - 55% crown coverage) with litter as a surface fuel.

The risk to this section is a reoccurrence of epidemic mountain pine beetle which will create large patches of dead trees. Due to topography, access and lack of available water control of a wildfire would be difficult.

D. Soil Types- refer to Exhibit C. Each soil type is described, as well as the capability and woodland suitability classes for each occurring soil type.

E. Access Roads

Existing roads are unimproved single land roads, refer to Exhibit D. The northeast corner of the section is bisected by an abandoned railroad line.

F. Water

All streams are intermittent. Flows are commensurate with snowmelt. All snowmelt drains to Georges Gulch.

G. Cultural Features

The east line of the section is fenced. Brass caps are on the southeast and southwest section corners.

H. Noxious Weeds

None found. Canada thistle and leafy spurge are known to occur in the county.

I. Wildlife Species

Blue grouse, Stellars jay, woodpeckers, thrushes, vireos, western meadowlark, golden eagle, snowshoe hare, jackrabbit, bobcat, red fox, mountain lion, mule deer, elk, pronghorn antelope, black bear and coyote are known to occur in this type of vegetation.

Most bird species are migratory, thus use is in the spring and summer. Available food for small mammals and big game is limited to meadows and intermittent stream bottoms.

J. Endangered Species

None found or known to exist.

K. Scenic Qualities

Existing meadows will be maintained. Tree canopy levels will be maintained by partial cutting.

L. Archelogical Sites

None found.

IV. Prescriptions

A. Reccomendations

No management is scheduled in the meadow or non commercial forest.

Management Unit #1 will be managed with a 3 step shelterwood. The first entry will remove 30% of the basal area and 30% of the stems. Leave trees will have a crown of 40%+ with no visible signs of defect. This entry will thin out trees, particulary where they occur in overstocked groups, and stimulate grass production in the understory.

Subsequent entries will be in 20 - 30 years. The second entry will remove 40% of the basal area and 50% of the stems. The final entry will remove the remaining overstory to release the understory of saplings.

Management Unit #2 contains steep topography with the prescence of numerous surface rock and small tree size preventing an economic entry.

Management Unit #3 will be managed per the prescription for Unit #1.

B. Harvest Schedule

The following table contains the volume to be removed per the prescriptions:

Unit #	Entry #	Year	Type of Harvest	mbf
1	1	1996	Shelterwood	300
	2	2016	Shelterwood	490
	3	2036	Overstory Removal	300
3	1	1996	Shelterwood	400
	2	2016	Shelterwood	375
	3	2036	Overstory Removal	200

C. Special Requirements

The access road will be left in place for use as fire access and future management. Slash will be confined to landings, piled and burned when there is enough sonw on the gorund to minimize wildfire loss.

Annual walk thru inspections will be performed to monitor regeneration and insect and disease incidence.

D. Roads are shown in Exhibit D.

Access is thru Moen property, an agreement is attached to Exhibit D.

The existing roads can be used with improvements. Road surfaces

need to be graded and culverts installed at stream crossings.

A short section of new road, 1500 feet, will be built along Georges Gulch to access Section 35. This road will be a 8 foot width, constructed of native material with a culvert installed at the stream crossing.

E. Standards

Mechanical logging will provide a ggod seedbed for regeneration. Slash will be piled in landings and burned when weather conditions permit. Specific parameters for timber harvest are detailed in Exhibit G.

Normal operating season is November 1 to March 1.

Personal contact was made with the grazing leasee, who also owns the surrounding land to the section. He had no opposition to forest management. Exhibit H depicts a sample letter to various agencies.

F. Implementation Priority

The first harvest entry will be completed within 2 years per Exhibit I.

G. Estimated Costs & Returns

Costs

road reconstruction- 3.5 miles		\$ 9000
new road construction-1500 feet		4000
Install 3 culverts		1500
road fee		1400
	Total	\$15900.

Returns

50 mbf dead @ \$5 700 mbf green @ \$30 \$ 250 21000

Total \$21250.

V. Implementation Plan Exhibit E details all accomplishments.

VI. Appendices

Exhibit A- Location.

Exhibit B- Management Units.

Exhibit C- Soil Types.

Exhibit D- Road Access.

Exhibit E- Accomplishment Record

Exhibit F- Glossary of Terms.

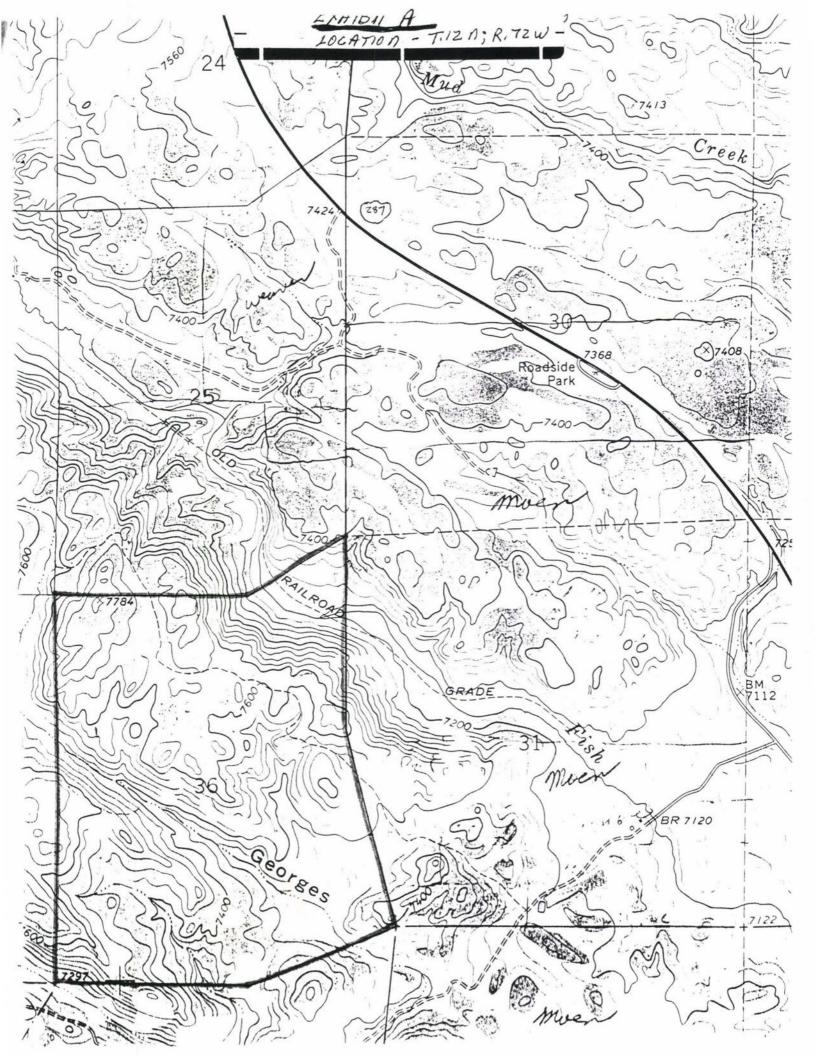
Exhibit G- Sample Timber Sale Contract.

Exhibit H- Letter to Agencies.

Exhibit I- Annual Work Plan.

Table 1- Management Unit Stand & Stock Table.

Bibliography





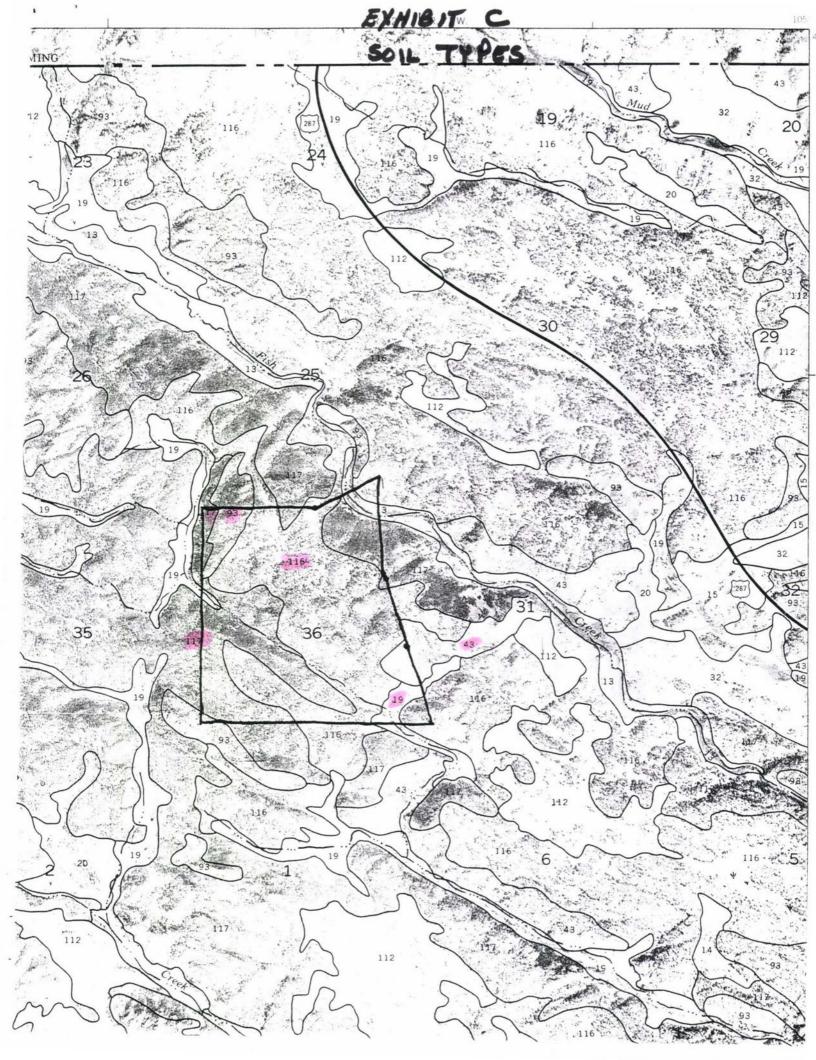


EXHIBIT C. SOIL TYPES

ish brown (10YR 3/2) moist; weak fine granular structure; soft, very friable; 10 to 15 percent gravel; neutral; gradual wavy boundary.

A12-18 to 36 inches; dark grayish brown (10YR 4/2) gravelly coarse sandy loam, very dark grayish brown (10YR 3/2) moist; weak coarse subangular blocky structure; soft, very friable; 25 percent gravel; neutral; gradual wavy boundary.

C-36 to 60 inches; brown (10YR 5/3) gravelly loamy coarse sand, brown (10YR 4/3) moist; massive; soft, very friable; 25 percent gravel; neutral.

The A horizon is sandy loam 20 to 55 inches thick. The C horizon is loamy sand or sandy loam. Reaction is slightly acid or neutral. Content of rock fragments, mainly fine granitic gravel, ranges from 0 to 35 percent.

18—Breece coarse sandy loam, 0 to 3 percent slopes. This nearly level soil is on terraces and in valleys. This soil has a profile similar to the one described as representative of the series, but the surface layer is slightly thicker.

Included with this soil in mapping are a few small areas of soils in which bedrock or a gravelly layer is at a depth of 40 to 60 inches. Some areas have more gravel or cobbles throughout the profile.

Runoff is slow, and the hazard of erosion is slight to

moderate.

This soil is well suited to pasture and native grasses. A few small areas that can be irrigated are used for hay. Capability unit IVc-1, dryland; Loamy Park range site; not assigned to a windbreak suitability group.

19—Breece coarse sandy loam, 3 to 9 percent slopes. This gently sloping to strongly sloping soil is on terraces and in valleys. This soil has a profile similar to the one described as representative of the series, but the dark surface layer is about 40 inches thick.

Included with this soil in mapping are small areas of soils in which bedrock is at a depth of 40 to 60 inches and a few small areas of soils in which gravel is at a depth of 40 to 60 inches. Also included are a few scattered areas of Rock outcrop on steeper areas.

Runoff is medium, and the hazard of erosion is

moderate.

This soil is suited to native grasses. Capability unit IVe-6, dryland; Loamy Park range site; not assigned to a windbreak suitability group.

20-Breece coarse sandy loam, 9 to 30 percent slopes. This strongly sloping to steep soil is on terraces and valleysides. This soil has the profile described as representative of the series.

Included with this soil in mapping are small areas of soils that are more sloping or less sloping. Also included are areas of soils in which bedrock or a gravelly layer is at a depth of 20 to 60 inches and a few small areas of Rock outcrop.

Runoff is medium to rapid, and the hazard of erosion

This soil is suited to native grasses. Capability unit VIe-6, dryland; Loamy Park range site; not assigned to a windbreak suitability group.

Carnero Series

The Carnero series consists of moderately deep, well drained soils that formed in material weathered from sandstone. These soils are on upland ridges and are underlain by sandstone at a depth of 20 to 40 inches. Elevation ranges from 5,600 to 6,400 feet. Slopes are 3 to 30 percent. The native vegetation is mainly blue grama, western wheatgrass, some forbs and shrubs, and scattered ponderosa pine. Mean annual precipitation ranges from 15 to 18 inches, mean annual air temperature ranges from 47° to 49° F, and the frostfree season ranges from 135 to 150 days.

In a representative profile the surface layer is dark gravish brown loam about 10 inches thick. The subsoil is brown clay loam and heavy clay loam about 20

inches thick. Below this is hard sandstone.

Permeability is moderately slow, and the available water capacity is medium. Reaction is neutral.

These soils are used mainly for native grasses. A

few areas are used for dryfarmed crops.

Representative profile of Carnero loam, 3 to 9 percent slopes, in native grass, about 1,000 feet south and 2,200 feet east of the northwest corner of sec. 29, T. 7 N., R. 69 W.:

A1-0 to 10 inches; dark gravish brown (10YR 4/2) loam, very dark gravish brown (10YR 3/2) moist; weak medium subangular blocky and moderate fine granular structure; soft, very friable; neutral; clear wavy boundary.

B21t—10 to 15 inches; brown (7.5YR 4/4) clay loam, dark brown (7.5YR 3/4) moist; weak medium prismatic structure parting to weak to moderate medium subangular blocky; slightly hard, friable; thin patchy clay films on peds; neutral; clear smooth boundary.

B22t-15 to 30 inches; brown (7.5YR 4/4) heavy clay loam, dark brown (7.5YR 3/4) moist; moderate medium prismatic structure parting to moderate medium subangular blocky structure; hard, firm; thin nearly continuous clay films on peds; neutral; abrupt wavy boundary.

R-30 inches; hard sandstone.

The A horizon is loam or fine sandy loam 7 to 11 inches thick. The B21t horizon is clay loam or heavy loam 5 to 9 inches thick. The B22t horizon is heavy clay loam or clay 10 to 20 inches thick. Reaction is neutral to mildly alkaline. The soil is generally noncalcareous, but some profiles have thin zones of lime accumulation immediately above the sandstone.

21—Carnero loam, 3 to 9 percent slopes. This gently sloping or strongly sloping soil is on uplands and

valleysides.

Included with this soil in mapping are some small areas of soils in which bedrock is at a depth of 40 to 60 inches or less. Also included are some small areas of soils that have a subsoil of loam or light clay loam.

Runoff is medium, and the hazard of water erosion

is moderate.

If irrigated, this soil is suited to barley, wheat, and pasture and, to some extent, alfalfa. Under dryland

3/4) moist; massive; hard, very friable; violently effervescent; streaks and small specks of calcium carbonate; moderately alkaline.

Thickness of the mollic epipedon is 20 to 40 inches. The A horizon is loam, fine sandy loam, or sandy loam 5 to 12 inches thick. The B horizon is loam, light clay loam, or sandy clay loam. The A and B horizons range from neutral to mildly alkaline. They are leached of lime but are slightly effervescent in many places because of additions of lime by irrigation water. A sand and gravel substratum is below a depth of 40 inches in some places.

40—Garrett loam, 0 to 1 percent slopes. This level

soil is on terraces and fans (fig. 6).

Included with this soil in mapping are a few small areas of soils that have gravel on the surface and a few areas of soils in which gravel is at a depth of 40 to 60 inches. Also included are small areas of Harlan, Otero, Connerton, and Barnum soils.

Otero, Connerton, and Barnum soils.

Runoff is slow. The hazard of erosion is slight, but some areas near stream channels have been cut in places. Lower areas near the channels are flooded at

times in spring or early summer.

If irrigated, this soil is suited to corn, sugar beets, beans, barley, alfalfa, and wheat. It is also well suited to pasture. Under dryland management it is suited to wheat and barley and it is well suited to pasture and native grasses. Capability units IIw-1, irrigated, and IIIe-6, dryland; Overflow range site; windbreak suitability group 5.

41—Garrett loam, 1 to 3 percent slopes. This nearly level soil is on terraces and fans. This soil has the profile described as representative of the series.

Included with this soil in mapping are a few small areas of Harlan, Otero, Connerton, and Barnum soils. Also included are a few areas of soils in which gravel is on the surface and at a depth of 40 to 60 inches.

Runoff is medium, and the hazard of erosion is slight or moderate. Areas near the stream channel receive overflow at times and cutting occurs in places.

If irrigated, this soil is suited to corn, sugar beets, beans, barley, alfalfa, and wheat. Under dryland management it is suited to wheat and barley. It is also suited to pasture and native grasses (fig. 7). Capability units IIe-1, irrigated, and IIIe-6, dryland; Overflow range site; windbreak suitability group 1.

Gravel Pits

42—Gravel pits. This unit consists of areas where the soil and underlying gravel deposits have been removed. These areas have no value for farming and little value for grazing. Some areas are filled with water and provide habitat for fish and wildlife. Some areas are used for sanitary landfills. Also included are borrow pits and areas where material was removed in road construction, mainly along Interstate Highway 25. Capability unit VIIIs-1, dryland; not assigned to a range site or windbreak suitability group.

Haploborolls-Rock Outcrop Complex, Steep

Haploborolls-Rock outcrop complex, steep. This complex consists of steep and very steep, cool soils and



Figure 6.—Profile of Garrett loam, 0 to 1 percent slopes.

Rock outcrop on mountainsides and fans (fig. 8). The soils are extremely variable; about 50 to 70 percent of the unit, however, is stony and cobbly, dark colored soils that range from shallow to deep. These soils mainly have a surface layer and subsurface layer of sandy loam or loam that contain 10 to 25 percent cobbles and 20 to 35 percent stones. Stones that are or the surface are mainly boulders of granite, gneiss, and schist. About 30 to 50 percent of the mapped area is Rock outcrop. It is mainly on the steeper parts of the area, but it is scattered throughout.

Runoff is rapid, and the hazard of water erosion is

These soils are used for a limited amount of grazing and are also used for wildlife habitat and watershed Capability unit VIIe-1, dryland; Haploborolls in Stony Loam range site and Rock outcrop not assigned to a range site; not assigned to a windbreak suitability group.

Haplustolls, Hilly

44-Haplustolls, hilly. These strongly sloping to

to a lesser extent, wheat, barley, beans, and corn. Under dryland management it is suited to pasture and native grasses and, to a lesser extent, wheat and barley. Capability units IIIe-1, irrigated, and IVe-3, dryland; Clayey Plains range site; windbreak suitability group 3.

90—Renohill clay loam, 3 to 9 percent slopes. This gently sloping to strongly sloping soil is on uplands. This soil has the profile described as representative

of the series.

Included with this soil in mapping are some small areas of soils that are more sloping or less sloping and some small areas of soils that have a gravelly surface layer. Also included are small areas of Ulm, Heldt, Midway, and Thedalund soils.

Runoff is rapid, and the hazard of water erosion is

severe.

If irrigated, this soil is suited to pasture and, to a lesser extent, wheat, barley, and alfalfa. Under dryland management it is suited to pasture and native grasses. Capability units IVe-1, irrigated, and VIe-1, dryland; Clayey Plains range site; windbreak suit-

ability group 3.

91—Renohill-Midway clay loams, 3 to 15 percent slopes. This complex consists of gently sloping to moderately steep soils on uplands and ridges. It is about 55 percent Renohill clay loam and about 30 percent Midway clay loam. Renohill clay loam is smoother near the base of the slope, and Midway clay loam is steeper near ridgetops.

Included with these soils in mapping are about 15 percent areas of Ulm and Heldt soils, Shale outcrop,

and gravel knobs.

Runoff is rapid, and the hazard of water erosion is

severe.

These soils are suited to pasture or native grasses. Capability unit VIe-1, dryland; Renohill soil in Clayey Plains range site and Midway soil in Shaly Plains range site; both soils in windbreak suitability group 3.

Riverwash

92—Riverwash. This unit is highly variable, mixed, water-washed sand and gravel deposits, commonly next to stream channels. These areas are flooded each year, generally in spring or summer. In some places willow trees protect the soil against erosion along the streambanks. Forage production is little and there is little value for grazing. These areas provide some shelter and habitat for wildlife. Capability unit VIIIw-1, dryland; not assigned to a range site or windbreak suitability group.

Rock Outcrop

Rock outcrop. This mapping unit is bare or nearly bare rock. Included in mapping are areas of shallow and very shallow soils, mainly around the edges of the mapped areas.

Runoff is rapid. The hazard of water erosion is seyere on the included soils and in adjacent areas that

receive runoff.

This unit is used mainly for wildlife habitat and esthetic purposes. Capability unit VIIIs-1, dryland;

not assigned to a range site or windbreak suitability group.

Satanta Series

The Satanta series consists of deep, well drained soils that formed in mixed alluvial and wind-deposited material. These soils are on uplands and high terraces. Elevation ranges from 4,800 to 5,600 feet. Slopes are 0 to 9 percent. The native vegetation is mainly blue grama, buffalograss, western wheatgrass, and cactus. Mean annual precipitation ranges from 13 to 15 inches, mean annual air temperature ranges from 48° to 50° F, and the frost-free season ranges from 135 to 150 days.

In a representative profile the surface layer is dark grayish brown loam about 7 inches thick. The subsoil is brown clay loam and pale brown loam about 16 inches thick. The underlying material is very pale brown loam about 21 inches thick over very pale brown

fine sandy loam.

Permeability is moderate, and the available water capacity is high. Reaction is mildly alkaline above a depth of 18 inches and moderately alkaline below that depth.

These soils are used mainly for irrigated and dry-

farmed crops and for pasture.

Representative profile of Satanta loam, 1 to 3 percent slopes, in cropland, about 50 feet west and 50 feet north of the southeast corner of sec. 4, T. 5 N., R. 69 W.:

Ap—0 to 7 inches; dark grayish brown (10YR 4/2) loam, very dark grayish brown (10YR 3/2) moist; weak fine granular structure; soft, very friable; mildly alkaline; clear smooth boundary.

B1—7 to 12 inches; brown (10YR 5/3) heavy loam, dark brown (10YR 3/3) moist; weak medium prismatic structure parting to moderate medium subangular blocky; slightly hard, friable; mildly al-

kaline; clear smooth boundary.

B2t—12 to 18 inches; brown (10YR 5/3) clay loam, brown (10YR 4/3) moist; moderate medium prismatic structure parting to moderate medium subangular blocky; slightly hard, firm; thin patchy clay films on peds; mildly alkaline; clear smooth

ooundary

B3ca—18 to 23 inches; pale brown (10YR 6/3) loam, brown (10YR 5/3) moist; weak medium prismatic structure parting to weak medium subangular blocky; soft, friable; fine thin patchy clay films; effervescent; visible secondary calcium carbonate as soft masses and spots; moderately alkaline; clear smooth boundary.

Clca—23 to 44 inches; very pale brown (10YR 7/3) loam, brown (10YR 5/3) moist; weak medium subangular blocky structure; soft, very friable; violently effervescent; visible secondary calcium carbonate as spots and seams; moderately alkaline; gradual smooth boundary.

O1-2 inches to 0; partly decomposed needles, leaves, and twigs

A1—0 to 2 inches; dark gray (10YR 4/1) gravelly sandy loam, black (10YR 2/1) moist; weak fine granular structure; soft, very friable; 15 percent fine granitic gravel; slightly acid; abrupt smooth boundary.

A2—2 to 5 inches; pinkish gray (7.5YR 6/2) gravelly loamy sand, dark brown (7.5YR 4/2) moist; weak thin platy structure; soft, very friable; about 15 percent fine granitic gravel; slightly

acid; gradual wavy boundary.

B2t—5 to 16 inches; pinkish gray (7.5YR 6/2) gravelly loamy sand, dark brown (7.5YR 4/2) moist; massive; slightly hard, very friable; seams and nodules of brown (7.5YR 4/3) light sandy clay loam embedded in material similar to that of the A2 horizon; some clay films bridging sand grains and on peds of sandy clay loam material; 40 percent gravel and stones; slightly acid; clear wavy boundary.

R—16 inches; granite bedrock.

The A horizon is sandy loam or loamy sand 0 to 3 inches thick. The B2t horizon is heavy sandy loam or sandy clay loam. It consists of lamellae about 1/4 to 3/4 inch thick imbedded in a matrix of loamy sand or light sandy loam. Content of rock fragments ranges from 35 to 60 percent in the B2t horizon. Depth to bedrock ranges from 8 to 20 inches. Reaction ranges from slightly acid to neutral.

116—Wetmore-Boyle-Moen complex, 5 to 40 percent slopes. This complex consists of strongly sloping to steep soils on mountainsides and ridges. It is about 35 percent Wetmore gravelly sandy loam, about 25 percent Boyle gravelly sandy loam, and about 25 percent Moen loam. The Wetmore soil is in forest. The Boyle soil is more sloping in grassed areas. The Moen soil is

flatter in grassed areas.

Included with these soils in mapping is about 15 percent areas of Ratake and Trag soils and Rock outcrop.

Runoff is rapid, and the hazard of erosion is severe. These soils are suited to native grasses and woodland. They are also used for recreation. Capability unit VIIs-1, dryland; Wetmore soil not assigned to a range site, Boyle soil in Rocky Loam range site, and Moen soil in Loamy Park range site; woodland suitability group 6d1; not assigned to a windbreak suit-

ability group.

117—Wetmore-Boyle-Rock outcrop complex, 5 to 60 percent slopes. This complex consists of strongly sloping to very steep soils on mountainsides and ridges (fig. 13). It is about 35 percent Wetmore gravelly sandy loam, about 30 percent Boyle gravelly sandy loam, and about 25 percent Rock outcrop. Wetmore gravelly sandy loam is in forest, Boyle gravelly sandy loam is in open grassed areas, and Rock outcrop occurs throughout but is commonly near ridgetops and is steeper. The Wetmore soil has the profile described as representative of the Wetmore series. The Boyle soil

has a profile similar to the one described as representative of the Boyle series.

Included with these soils in mapping are minor areas

of Redfeather and Schofield soils.

Runoff is rapid, and the hazard of erosion is severe. These soils are suited to woodland or native grasses. They are also used for recreation, as sites for summer homes, and for wildlife habitat. Capability unit VIIs-1, dryland; Wetmore soil and Rock outcrop not assigned to a range site, and Boyle soil in Rocky Loam range site; woodland suitability group 6x1; not assigned to a windbreak suitability group.

Wiley Series

The Wiley series consists of deep, well drained soils that formed in uniform, silty, wind-deposited material. These soils are on uplands. Elevation ranges from 4,800 to 5,600 feet. Slopes are 1 to 9 percent. The native vegetation is mainly blue grama, western wheatgrass, and cactus. Mean annual precipitation ranges from 13 to 15 inches, mean annual air temperature ranges from 48° to 50° F, and the frost-free season ranges from 135 to 150 days.

In a representative profile the surface layer is brown silt loam about 6 inches thick. The upper part of the subsoil is brown and pale brown silty clay loam about 9 inches thick, and the lower part is pale brown silt loam about 8 inches thick. The underlying material is

pale brown silt loam.

Permeability is moderate, and the available water capacity is high. Reaction is mildly alkaline above a depth of 10 inches and moderately alkaline below that depth.

These soils are used for irrigated and dryfarmed

crops and for pasture and native grasses.

Representative profile of Wiley silt loam, 3 to 5 percent slopes, in cropland, about 50 feet north and 670 feet east of the southwest corner of sec. 23, T. 6 N., R. 68 W.:

Ap—0 to 6 inches; brown (10YR 5/3) silt loam, dark brown (10YR 4/3) moist; weak very fine granular structure; slightly hard, friable; calcareous; mildly alka-

line; abrupt smooth boundary. B21t—6 to 10 inches; brown (10YR 5/3) silty

clay loam, dark brown (10YR 5/3) silty clay loam, dark brown (10YR 4/3) moist; weak to moderate medium prismatic structure parting to moderate medium subangular blocky; very hard, friable; thin continuous clay films on soil aggregates; calcareous; mildly alkaline;

clear smooth boundary.

B22tca—10 to 15 inches; pale brown (10YR 6/3) silty clay loam, dark brown (10YR 4/3) moist; weak to moderate medium subangular blocky structure; hard, friable; very thin patchy clay films on vertical and horizontal faces of soil aggregates; visible secondary calcium carbonate as soft spots; calcareous; moderately alkaline; gradual smooth boundary.

B3ca—15 to 23 inches; pale brown (10YR 6/3) heavy silt loam, brown (10YR 4/3) irrigation water. On some soils chemical amendits are helpful. Salt-tolerant crops, such as barley sugar beets, can be grown until leaching is ac-

iplished.

Prosion control.—To help to control erosion, closewing crops should be grown on steeper slopes. Irating on the contour, or across the slope, and eful application of irrigation water help to prevent essive erosion. Installation of concrete lined ditches pipelines helps to prevent erosion and also conserve

Cropping systems.—Use of cropping systems that lude crops grown in rotation helps to maintain soil h and fertility and aids in the control of insects, eases, and weeds. The use of alfalfa or another soil ilding crop aids in maintaining soil tilth and good rmeability. Applying fertilizer according to soil tests necessary for continued high production. Applicans of barnyard manure are also helpful in mainning organic-matter content and are particularly lpful in restoring tilth on land-leveling cut areas.

magement of Dryfarmed Soils³

About 35,000 acres in Larimer County Area is used r dryfarmed crops. Although there are dryfarmed eas scattered throughout the survey area, most of e dryfarmed soils are along the edge of the foot-

The average annual precipitation of most of the dryrmed areas ranges from 13 to 15 inches, but areas ar or in the foothills receive as much as 17 inches r year. Most of this precipitation comes in spring

id early in summer.

Because annual rainfall is so low, the conservation moisture is important. Summer fallow helps to store il moisture in sufficient quantities for crop producon. Soils generally are summer fallowed one year

id planted the next year.

As a result of summer fallowing, there is a hazard wind and water erosion. Water erosion can be conolled to some degree by the use of terraces, either inventional channel types or flat channel terraces. hese terrace systems, if supported by contour plantig, generally reduce water erosion to a tolerable level. rassed waterways can be used to carry off excess

Wind erosion is a hazard, particularly in winter and pring. Stubble mulch or crop residue on the soil surace helps to control wind and water erosion. It also ids moisture penetration and helps to maintain good ilth. Subsurface tillage with such implements as lades and sweeps helps to keep residue on the surface nd controls weeds. Minimum tillage also helps to keep

esidue on the surface.

Striperopping to control wind erosion is common in he Area. Alternate strips of crops and fallow are armed at right angles in the direction of the preailing winds. Contour stripcropping helps to control vater erosion and aids in the storage of moisture in

If there is not enough stubble to protect the soil

from blowing, emergency tillage is necessary at times. Implements are used that bring clods to the surface, which helps to reduce soil losses.

Capability Grouping

Capability grouping shows, in a general way, the suitability of soils for most kinds of field crops. The soils are grouped according to their limitations when used for field crops, the risk of damage when they are used, and the way they respond to treatment (4). The grouping does not take into account major and generally expensive landforming that would change slope, depth, or other characteristics of the soils; does not take into consideration possible but unlikely major reclamation projects; and does not apply to rice, cranberries, horticultural crops, or other crops requiring special management.

Those familiar with the capability classification can infer from it much about the behavior of soils when used for other purposes, but this classification is not a substitute for interpretations designed to show suitability and limitations of groups of soils for range,

forest trees, or engineering.

In the capability system, the kinds of soil are grouped at three levels: the capability class, the subclass, and the unit. These are discussed in the following para-

graphs.

CAPABILITY CLASSES, the broadest groups, are designated by Roman numerals I through VIII. The numerals indicate progressively greater limitations and narrower choices for practical use, defined as

Class I soils have few limitations that restrict their use.

Class II soils have moderate limitations that reduce the choice of plants or that require moderate conservation practices.

Class III soils have severe limitations that reduce the choice of plants, require special conservation practices, or both.

Class IV soils have very severe limitations that reduce the choice of plants, require very careful management, or both.

Class V soils are not likely to erode, but have other limitations, impractical to remove, that limit their use largely to pasture, range, woodland, or wildlife habitat.

Class VI soils have severe limitations that make them generally unsuited to cultivation and limit their use largely to pasture, range, woodland, or wildlife habitat.

Class VII soils have very severe limitations that make them unsuited to cultivation and that restrict their use largely to pasture, range, woodland, or wildlife habitat.

Class VIII soils and landforms have limitations that preclude their use for commercial plants and restrict their use to recreation, wildlife habitat water supply, or esthetic purposes.

CAPABILITY SUBCLASSES are soil groups within one class; they are designated by adding a small letter, e, w, s, or c, to the class numeral, for example, IIe. The letter e shows that the main limitation is risk of

ALBERT YOXALL, soil conservationist, Soil Conservation Serice, helped prepare this section.

CAPABILITY UNIT VIe-6, DRYLAND

This unit consists of deep and moderately deep, well drained soils that have a surface layer of loamy fine sand to fine sandy loam and a subsoil or subsurface layer of loamy fine sand to clay. The underlying material is gravelly loamy sand to sandy loam in the deep soils and sandstone or granite in the moderately deep soils. One of the soils is shallow and is underlain by granite. Slopes are 1 to 25 percent. The annual precipitation is 13 to 20 inches, and the frost-free season is 60 to 100 days. Permeability is mainly moderate to rapid, and the available water capacity is mainly low to medium. One of the soils is slowly permeable in the subsoil, and one has a high available water capacity. The hazard of erosion is moderate to severe. Runoff is mainly medium to rapid. One of the soils has slow runoff and a slight hazard of erosion.

These soils are suited to native grasses or woodland. Planned grazing systems help to maintain desirable grass species and, as a result, help to control erosion and increase the forage value. Reseeding can be helpful on some soils.

CAPABILITY UNIT VIw-2, DRYLAND

Longmont clay, 0 to 3 percent slopes, is the only soil in this unit. It is a deep, poorly drained soil that has a surface layer, subsurface layer, and underlying material of clay. The annual precipitation is 13 to 15 inches, and the frost-free season is 135 to 150 days. Permeability is slow, and the available water capacity is high. The hazard of erosion is slight. Runoff is slow. The soil is moderately alkaline to strongly alkaline. A water table is at or near the surface most of the year.

This soil is suited to native grasses.

If the soil is extremely wet, grazing should be limited to avoid compacting and trampling the grass. Reseeding is difficult because the soils are hard to work and are wet much of the time. Suitable grasses can be planted in the drier areas.

CAPABILITY UNIT VII-1. DRYLAND

This unit consists of shallow to deep, well drained or excessively well drained soils that generally have a surface layer of gravelly sandy loam to clay loam and a subsurface layer or subsoil of clay to gravelly loamy sand. The underlying material ranges from clean sand and gravel to bedrock. Slopes are 5 to 60 percent. The annual precipitation is 13 to 18 inches. The frost-free season is mainly 60 to 100 days, but it is as much as 150 days in places. Permeability is mainly moderate or rapid, and the available water capacity is low. One of the soils is slowly permeable and has a low to medium available water capacity. The hazard of erosion is moderate to severe. Runoff is medium to rapid.

These soils are suited to native grasses.

Maintaining plant cover is important to control erosion. Planned grazing systems maintain plant cover. Reseeding is extremely difficult because of the slope and the content of coarse fragments in the soil.

CAPABILITY UNIT VIIs-1, DRYLAND

This unit consists of shallow to deep, well drained or excessively drained soils that have a surface layer and subsoil of sandy loam to loam and a subsurface layer of clay to loamy sand. The underlying mate is clay loam to loam in the deep soils and sandst granite, or schist in the moderately deep and sha soils. Some of the soils are gravelly, channery, stony. Slopes are 1 to 60 percent. The annual cipitation is 12 to 20 inches, and the frost-free sea is 60 to 150 days. Permeability is mainly moderate rapid, and the available water capacity is mainly I Some of the soils are slowly permeable and hav medium available water capacity. The hazard erosion is moderate to severe on most of the so Runoff is medium to rapid. Some of the soils, however have slow runoff and a slight hazard of erosion.

These soils are suited to native grasses or woodlan Reseeding is very difficult or impossible because the slope and the content of coarse fragments. As result, planned grazing systems are necessary to tain maximum use without depleting the plant cov If trees are cut, logging roads should be designed a constructed with a minimum amount of disturbat of the vegetation. Use of equipment should be limit on the steep slopes to avoid gullying.

CAPABILITY UNIT VIIIs-1, DRYLAND

Only Rock outcrop is in this unit. There is little no plant cover. Rock outcrop has little value for faring or grazing. This land type is used mainly f wildlife habitat, watershed, and recreation.

CAPABILITY UNIT VIIIw-1, DRYLAND

Riverwash and Aquepts, ponded, are in this un They have a small amount of vegetation, main grasses, sedges, and rushes. They have little or a value for farming or grazing. They are used for wil life habitat and recreation and should be protected from burning and trampling by livestock.

Estimated Yields

The average yields per acre that can be expected of the principal crops grown in the survey area under high level of management are shown in table 2. In an given year, yields can be higher or lower than thos indicated because of seasonal variations in rainfall an other climatic factors. Absence of a yield estimat indicates that the crop is not suited to or not commonly grown on the soil or that irrigation of a given crop is not commonly practiced on the soil.

The predicted yields are based mainly on the experience and records of farmers, conservationists, an extension agents. Results of field trials and demonstrations and available yield data from nearby counties

were also considered.

The latest soil and crop management practices used by many farmers in the county are assumed in predicting the yields. Hay and pasture yields are predicted for varieties of grasses and legumes suited to the soil. A few farmers may be using more advanced practices and obtaining average yields higher than those shown in the table.

The management needed to achieve the indicated yields of the various crops depends upon the kind of soil and the crop. Such management provides drainage erosion control, and protection from flooding; proper planting and seeding rates; suitable high-yield crops

80 SOIL SURVEY

grows, mainly in small groves or as scattered trees. One small isolated grove of pinyon, northwest of the city of Fort Collins, is unique in that it is the most northwestern location in the United States for this tree.

The woodland areas are about equally divided between private and government ownership. Most of the government-administered land is national forest, but

some is State and county owned.

Much of this woodland was logged by early settlers. Little of the privately owned woodland is managed for timber production, although it is used for poles, fenceposts, and firewood. Almost all of the area is used for grazing, recreation, and wildlife habitat. In recent years much of the privately owned woodland has been used as sites for summer and year-round homes.

Woodland suitability groups

The soils in the mountainous part of Larimer County Area have been placed in woodland suitability groups to assist owners in planning the use of their soils for wood crops. Each group is made up of soils that are suited to the same kinds of trees, that need about the same management, and that have the same potential

production.

Each woodland group is identified by a three-part symbol, for example, 601. The potential productivity of the soils in the group is indicated by the first numeral in the symbol: 1 is very high; 2, high; 3, moderately high; 4, moderate; 5, moderately low; and 6, low. These ratings are based on field determination of average site index. Site index of a given soil is the height, in feet, that the taller trees of a given species reach in a natural, essentially unmanaged stand in a stated number of years.

The second part of the symbol is a small letter. In this survey, x, d, and o are used. The small letter indicates an important soil property that imposes a hazard or limitation in managing the soils for trees. The letter x indicates that the soil has major limitations because of rockiness or stoniness. The letter d indicates that the soil has a restricted rooting depth. The letter o shows that the soils have few limitations

that restrict their use for trees.

The third part of the symbol, another numeral, differentiates groups that have the same first and

second parts in their identifying symbols.

Soils that have not been placed in a woodland suitability group are not suited to or are not used for woodland. The woodland suitability group is shown at the end of the mapping unit description for applicable soils.

The woodland suitability groups in the survey area are briefly described in the following paragraphs.

Woodland suitability group 601.—The soils in this group are suited to the production of ponderosa pine. They are capable of producing about 2,020 cubic feet per acre, or 7,800 board feet, in a managed, evenaged stand of 100-year-old trees. There are no major limitations to the use of the soils for woodland.

Woodland suitability group 6x1.—The soils in this group are suited to the production of ponderosa pine. They are capable of producing about 1,610 cubic feet per acre, or 5,300 board feet, in a managed, even-aged

stand of 100-year-old trees. The hazard of erosion high, and equipment limitations and seedling mortal are moderate.

Woodland suitability group 6x2.—The soils in group are suited to the production of Engelm spruce. They are capable of producing about 3 cubic feet per acre, or 9,000 board feet, in mana even-aged stands of 90-year-old trees. Seedling moi ity is severe, and the equipment limitations and w

throw hazard are moderate.

Woodland suitability group 6d1.—The soils in group are suited to the production of ponderosa p. They are capable of producing about 1,610 cubic per acre, or 5,300 board feet, in a managed, evaged stand of 100-year-old trees. Seedling mortalis severe, and the hazard of erosion, equipment lim

tions, and windthrow hazard are moderate.

Woodland suitability group 6d2.—The soils in group are suited to the production of lodgepole p They are capable of producing about 2,490 cubic per acre, or 4,900 board feet, in a managed, even-s stand of 90-year-old trees. Seedling mortality is sev and the hazard of erosion, equipment limitations, windthrow hazard are moderate.

Windbreaks 6

The native vegetation on the plains in Lari County Area is grass. Early settlers planted trees beautification and protection, mainly around fa steads. Many of these trees still survive, although r of them, mainly cottonwood and willows, in the plare along the streams and drainageways.

Windbreaks and tree plantings can be very benef to landowners. They help to reduce home heating c by reducing winds. They help to protect livestock f winter storms and drifting snow. They provide hal for wildlife and birds and enhance the beauty

value of homesteads.

If windbreaks are planted, care is needed establing them. Evergreens are among the most desir trees because they are long lived and resist damagwind, snow, and disease. They provide protec from winds, which occur before deciduous trees Evergreens grow much more slowly than deciditrees for the first few years and should, therefore planted in rows separate from the faster growing short-lived broadleaf trees.

Climatic conditions limit the kinds of trees shrubs that can be grown, and careful selection, th fore, is necessary. Cultivation reduces competi from weeds and grass and also the hazard of dest

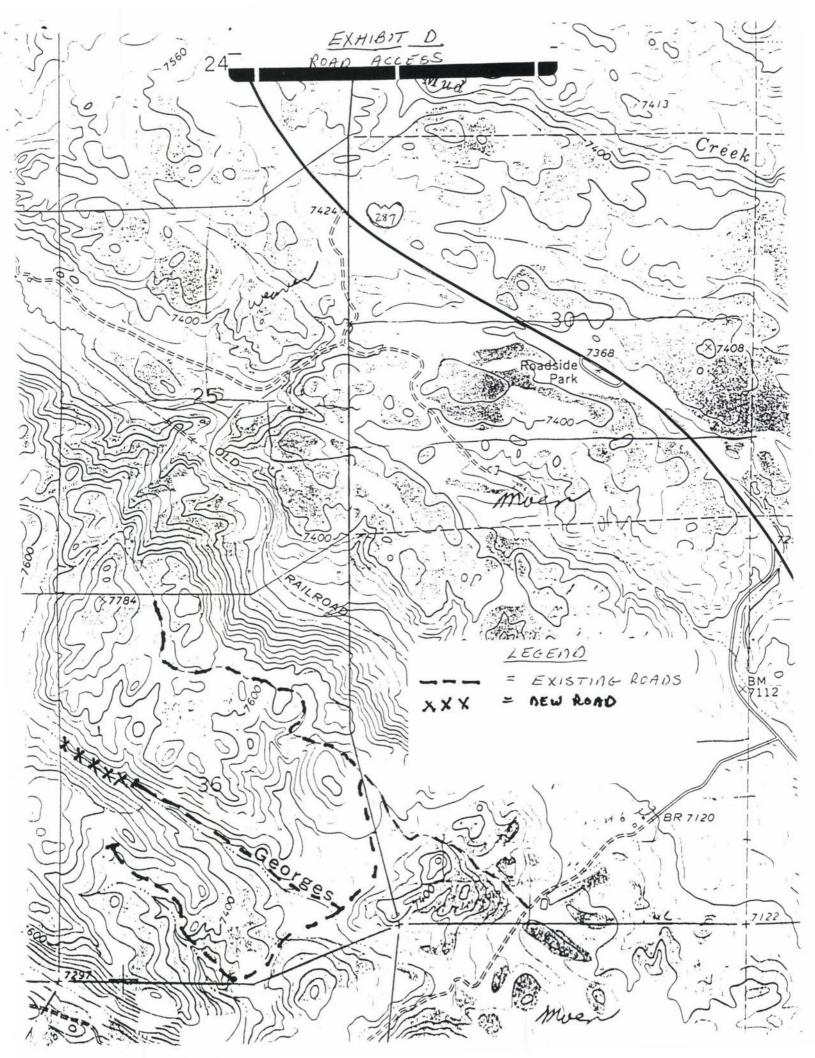
tive fires.

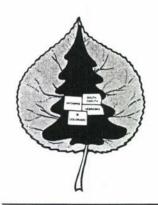
Replacing trees lost in the first years to develor continuous, uniform wind barrier. Pruning should

limited to the removal of dead branches.

Protection of newly planted trees from livestock other animals is important. Rabbits, mice, deer, antelope can damage trees. Repellants can be applied in fall to help protect the young trees. Providing plemental water to newly planted trees is benefiand increases survival. Adequate water should be

⁶ SHERMAN J. FINCH, woodland conservationist, Soil Constion Service, helped to prepare this section.





Woodland Management Consultants

P.O. Box 10 Fort Collins, Colorado 80522 (303) 221-1336

January 12, 1996

Forest Moen 729 County Rd. 45 E Virginia Dale, CO 80548

Dear Mr. Moen,

This letter will serve as an understanding between Woodland Management Consultants and Forest Moen.

Forest Moen grants Woodland Management Consultants and its designated timber purchaser ingress and egress on the existing road as shown on Exhibit A.

TIMBER HARVESTING WILL OCCUR FROM NOVEMBER! TO MARCH! OF EACH YEAR, Woodland Management Consultants agrees to;

- 1. Pay Forest Moen a fee of \$ 10 per truckload of logs hauled on said road. This road will be maintained in a serviceable condition during the term of this agreement.
- 2. Build a truck road as designated on Exhibit A with the necessary culverts to prevent stream erosin.

This letter of understanding will start on January 12, 1996 and terminate on July 1, 2008.

Forest Moen

-- Fariest Moen 1/29/96

Date

Bill Gherardi

Date

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EXHIBIT F-GLOSSARY

Glossary of Terms

Rasal area ; A measure of density. It is the square footage of stump tops that would be exposed on an acre if all the trees were cut off at 4.5 feet above the ground. ; Trees uprooted by the wind. Blowdown. Board foot ; A board foot equals 1 inch by 1 inch by 12 inches. Bole ; That portion of a tree composed of the main stem. ; Removal of the entire standing crop of trees. clearcut commercial timber; Trees that can be sold. commercial land ; A tract of land capable of growing 20 cubic feet of wood per acre per year. cubic foot ; A block of wood measuring 12 inches by 12 inches by 12 inches. ; A measure of wood, equivalent to 128 cubic feet of stacked wood. One cord cord has 80 cubic feet of solid wood. dbh ; A measure of tree diameter at 4.5 feet above the ground. ; A parasitic disease of pine trees which thrives off the food and dwarf mistle toe water of its host, resulting in slow death of the host. dwarf mistletoe rating system ; A system to evaluate trees for the severity of infection, by the prescence of fruiting bodies and brooms. Based on a 6 point system. A rating of 3 or more means at least 90% of all trees are infected. ; An area of similar tree species, e.g. ponderosa pine. Forest type Tps beetle ; A bark beetle which attacks pine trees, usually a secondary invader, after trees have been weakened by another pathogen. mbf ; one thousand board feet. mountain pine beetle ; A bark beetle which attacks pine trees, noteably ponderosa and is a primary invader. Noncommercial : Trees which cannot be sold. timber Noncommercial ; Land not capable of growing 20 cubic feet per acre per year. land ; Layer of foilage in a forest canopy including the trees in a timber Overstory : A small clearcut, usually 5 to 8 times tree height. patch cut : stand containg a majority of trees in 5 to 8.9 dbh class. post &poles ; stand containing a majority of trees greater than 9.0 dbh. sawtimber ; Live trees with a diameter less than 1.0 inch. seedlings serotinous cones; Characteristic of lodgepole pine which keeps viable seed ancased until cone comes in contact with extreme heat. silviculture ; phase of forestry dealing with the devlopment and care of forests.

aspect and slope are functions of a site.

; An area considered in terms of its environment, yegetation, soil,

site

site index

; Measure of the productivity of an area. It is the height of a tree at 100 years of age. On trees leas than 100, graphs are used to extrapolate to base age.

slash

; Residue left after felling of timber, or accumulations from storms fire or insect infestations.

spruce budworm

; pefoilating inscet which attacks douglas fir and spruce. 3 to 5 years of defoilation will result in tree death.

stocking

; The number of trees on an area, usually an acre.

suckering

; The ability of aspen to regenerate from its root system.

thinning

; Removal of some of the trees in a stand to improve the form and growth of the remaining trees.

understory

; The foilage layer beneath the forest canopy, usually composed of shrubs and grasses.

western gall rust

; A tree disease characterized by knobs of moon shaped deformities on branches or bole. Structurally weakens tree.

Mechanical harvesting—Cutting with mechanized equipment, such as the carrier-mounted shear or feller-buncher, instead of by hand with a power saw (9).

Mechanized logging—Logging in which most or all of the hand labor is replaced by machines; requires a large outlay of capital (17).

Shelterwood logging—Method of harvesting timber so that selected trees remain scattered throughout the tract to provide seeds for regeneration and shelter for seedlings (12).

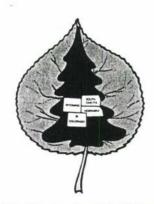
Shelterwood system—Even-aged silvicultural system in which a new stand is established under the protection of a partial canopy of trees. The mature stand is generally removed in a series of two or more cuts, the last of which is when the new even-aged stand is well developed (20).

TIMBER SALE CONTRACT

Agreement entered into	this	day of		, 19 b	etween	(Name	of Seller)
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Woodland Management Consultants

P.O. Box 10 Fort Collins, Colorado 80522 (303) 221-1336

February 25, 1996

Geverly Rove Colorado State Land Board PO Box 1094 Craig, Co 81625

Dear Beverly,

I am proposing a timber sale in Section 36, T. 12 N., R. 72 W. The sale will remove 700 mbf of ponderosa pine from 300 acres. All slash will be piled and burned, when weather conditions permit. Sale access is thru private land, and is the only road access.

My purpose in writing you is to learn if you have any specific concerns pertaining to this action.

Sincerely,

Bill Gherardi Forester, Woodland Management Consultants

CC. LARIMER COUNTY COMMISSIONERS

DIVISION OF WILDLIFE

SCS

DOUBLE BAR 7 RANCH

Exhibit I Annual Work Plan

Legal ; T.12 N., R. 72 W., Section 36.

Common Name ; Georges Gulch.
Prescription ; Shelterwood.

Practice Size ; 313 acres.

Species ; Ponderosa pine & douglas fir.

Products ; Firewood and sawtimber.

Volume ; 50 mbf dead, 700 mbf green sawtimber.

Direct Cost ; ?

Value ;\$21250.
Duration ; 2 years.

Other Benefits ; Promote regeneration. Improve range.

Why ; Prevent catastrophic loss from mountain pine

beetle. Utilize site potential in thrifty

leave trees.

Submitted by ; Bill Gherardi; Woodland Management Consultants.

INDEX 45 4 FOOT 5330 2400 CO 405 150 TREES 252 STAND TABLE ACRE 80 84546 55 09 MANAGEMEAT 42 A46. 9 h LIMES POLETIMBER Pondekos# Ponore os A SAWTIMBER SAWTIMBGE 2046.05 SPECIES 20 20 4 261 107 ACRES N # TIUP MGT. N 3 N A.S.U NI EDAM 7207 BUFF G7207 GREEN © MITZON TONES COMPANY Approved By Prepared By Date slaitinl



DEPARTMENT OF HEALTH AND ENVIRONMENT

Environmental Health Division 1525 Blue Spruce Drive Fort Collins, CO 80524-2004 (970) 498-6775

Larimer County Emergency Services	498-5302
Poudre Fire Authority	221-6570
Loveland Fire Dept	
Berthoud Fire Department	532-2264

APPLICATION TO OBTAIN A BURNING PERMIT

I, BILL GHERARDI	Phone #		970-481-447
(Name of Applicant)	_	Home	Daytime
do hereby request a burning permit for the date and time as follows:	lows:		
NOU DEC AS SNOW DEPT.	H PERMI	TS	
Location of Proposed Burn: (Address of burn site; include direct	tions to property a	nd specific burn lo	cation on property.)
SECTION 36, 12 NORTH, 72 WE.	ST O HWY	287 NORTH	TO
MOEN RANCH, GO WEST 1/2 MILES TO Mailing Address (if different from street address above):	O SLAGH 1	DILESI	
Mailing Address (if different from street address above):	STATE	CLOCADO STI	ARD ATE FOREST SERVICE
	FOOTH	ILLS CAMP	45
	FT. CO	141K, GO	80525
Type of Material to be Burned: SLASH in PILES	Amo	ount: 10 PILE	5-100 St3 EACH
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Signature of Applicant: Bul Alkandi	Date	: 1/3/03	
ABS-1	Ĵ	11 7	~ "7
Approved, Disapproved Signature of LCDHE Authority		:	-
		stumps	
A .		1	
Approved Disapproved Signature of FPD Authority	Date	: 11/4	03
	Phot	ne#472	- 5597
Name of Fire Protection District			
Reason for Denial:			
Special Instuctions: <u>ALL ATTACHED REGU</u>	LATIONS SH	ALL APPLY	
		munications Cer ct Listed Above	nter: 416-1985
THIS PERMIT NOT VALID UNLESS SIGNED	BY ALL APP	ROPRIATE AU	THORITIES

This permit invalid after 4 - 1 - 0+

Route: White - Owner, Yellow - Fire Dept., Pink - Health Dept.

PURCHASE ORDER

11/06/96

P513911

PURCHASE ORDER

PURCHASING DEPARTMENT FORT COLLINS, CO 80523-6010 PHONE (970) 491-5105 FAX (970) 491-5523

TERMS

F.O.B.

QUOTE NO./QUOTE DATE

EXPECTED DELIVERY DATE

N PURCH. CONTACT

NOT APPLICABLE

B900290

DEPT. NO.

JOHN C. TYLER

(970) 491-5107

Q208511 5060

PHONE

V0000170050

WOODLAND MGMT CONSULTANTS

P O BOX 10

FORT COLLINS CO 80522

REFERENCE P.O. P513911

Mike Bables

						Muke	Savier
7.50	ACCOUNT NUME	BER	PERCENT	AMOUNT	ACCOUNT NUMBER	PERCENT	AMOUNT
NO.	QUANTITY	UNIT		DESCRIPTION		UNIT PRICE	EXTENSION
		4	SERVI	CE AGREEMENT			
001			PER REQUEST	REST MANAGEMENT I FOR PROPOSAL I AND SPECIFICAT	B900290 TERMS,		
002	*		ORDER ARE TWORK COMPLISTATE FORES A PERCENTAGE THE SALE OF IDUAL PARCE	GE OF THE REVEN F FOREST PRODUC' ELS OF LAND. P AFTER REVENUE I	HE VENDOR FOR DF COLORADO YMENT AMOUNT IS UE DERIVED FROM IS FROM INDIV- AYMENTS ARE		
003			RANGE 77 SECTION 16 RANGE 78 SECTION 36 RANGE 72	TOWNSHIP 03 NO WEST @ 26% TOWNSHIP 07 NO WEST @ 28% TOWNSHIP 12 NO WEST @ 25% OM THIS SALE IS	ORTH,		
			REVENUE FRO	OM THIS SALE IS	ON DEPOSIT AT		

TOTAL

CONTINUED

PAYMENTS				П	and the	W. C.	PAYM	ENTS	
CPF CODE	INVOICE NUMBER	INVOICE DATE	PAY AMOUNT	C _P C	ODE	INVOICE NUMBER	INVOICE DATE	PAY AMOUNT	APPROVED FOR PAYMEN
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				DI	FPAF	RTMENT			1





11/06/96

PURCHASE ORDER

P513911

PURCHASE ORDER

PURCHASING DEPARTMENT FORT COLLINS, CO 80523-6010 PHONE (970) 491-5105 FAX (970) 491-5523

TERMS

F.O.B.

QUOTE NO./QUOTE DATE

EXPECTED DELIVERY DATE

PURCH, CONTACT

PHONE

DEPT. NO.

V0000170050

WOODLAND MGMT CONSULTANTS
*** PO CONTINUATION ***
*** PAGE NUMBER BELOW ***

REFERENCE P.O. P513911

	ACCOUNT NUMBER	PERCENT	AMOUNT	ACCOUNT NUMBER	PERCENT	AMOUNT
NO.	QUANTITY UNIT	THE ST. LEWIS CO.	DESCRIPTION		UNIT PRICE	EXTENSION
		CSU AT THI		CEED \$165,000.00		
004	1.00LOT	SPLIT FUND	ING 0-4550		15,000.0000	15,000.0
	1.00LOT	SPLIT FUND 1-9256	ING 0-4550		100,000.00	100,000.0
06	1.00LOT	SPLIT FUND 1-9260	0-4550		50,000.0000	50,000.0
*		FYI	CLOSE OUT CHEC C PO to Wilcox Wattles	Date 11-14-96	*	
-	đ	CSU F Memo Memo	to Pchgto CRA/P (keep copy)_			

TOTAL

\$ 165,000.00

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C _{PF} DIS CODE	INVOICE NUMBER	INVOICE DATE	PAY AMOUNT	Cp	F CODE	INVOICE NUMBER	INVOICE DATE	PAY AMOUNT	APPROVED FOR PAYMEN
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									INITIALS
					EDAD	TMENT			2

To:

John Tyler@Agent@Purchasing Barbara Berg@admin@CSFS

Bcc:

Thomas Ostermann@Admin@CSFS

From: Subject:

Date:

Monday, October 28, 1996 11:31:50 MST

Attach:

Certify:

Forwarded by:

John:

The purchase order requests for Western Bionomics and Woodland Managment Consultants were based on RFP B900290. The responses to this RFP were for compensation, for work to be completed on behalf of the Colorado State Forest Service, to be a percentage of the revenue to be dirived from the sale of forest products from individual parcels of land.

In the case of Western Bionomics the percentage is twenty (20%) for Section 16, Township 01 south, Range 81 west; and twenty seven (27%) for Section 16, Twonship 05 north, Range 78 west.

For Woodland Management Consultants the compensation peercentage rate is twenty six (26%) for Section 36, Township 03 north, Range 77 west; twenty eight (28%) for Section 36, Township 07 north, Range 78 west; and twenty five (25%) for Section 36, Township 12 north, Range 72 west.

The requested amount for the purchase orders is based on the estimated value of the percentage from sales in approved work plans for the fiscal year. The purchase order only obligates CSFS/CSU to pay the percentage fo revenue that these consultants bring in. Payment is only made AFTER the total revenue is deposited in CSU accounts. Total payments can not exceed the authorized amount from the purchase orders.

The requested \$30,000.00 for Western Bionomics is for one sale that CSFs currently owes \$25,764.40 for a sale on S16,T05 N, R78W. The revenue has already be deposited.

For Woodland Managment Consultants the request amount is to pay the percentage for "anticipate" revenue to come in during the fiscal year.

Once the purchase orders are issued CSFS request payment based on that purchase order for the amount for which revenue has been collected.

If you need additional information, please let me know.

Thanks for your help!



Colorado State University Fort Collins, Colorado 80523 (303) 491-6303 FAX: (303) 491-7736

October 15, 1996

Bill Gherardi Woodland Management Consultants P O Box 10 Ft Collins, Co 80522

Dear Bill:

By this letter it is mutually agreed that the Service Agreement dated July 17, 1995 is canceled.

The provisions of the Service Agreement, along with the provision of the Requests for Proposal #B900290, dated April 3, 1995 will be referenced in a purchase order to be issued to you by Colorado State University.

Thomas W. Ostermann

Supervisor

Forest Management Division

Bill Gherardi

Owner

Woodland Management Consultants

To:

Cc:

Gary Kraft@Agent@Purchasing

Pat Griego@Agent@Purchasing

John Tyler@Agent@Purchasing, Barbara Berg@Admin@CSFS

Thomas Ostermann@Admin@CSFS Judy Schmidt@Legal@CSUS FC

Dennis Shackelford@Admin Svcs@VPAdmin

John Schneider@Admin@Purchasing

Bcc:

From:

Cathy Clark@Admin Svcs@VPAdmin

Subject:

Date:

Monday, September 30, 1996 14:34:38 MDT

Attach:

Certify:

N

Forwarded by:

As we've been discussing, there is a problem with the dates on the purchase requisitions and contract authorizations related to the files on Western Bionomics and Woodland Management. Legal is unable to approve agreements that indicate that a consultant has been performing (and should be paid for such performance) before proper University approvals are made for that performance. We must take proper steps so that consultants are not performing before contract authorization.

In the meantime, these two consultants need to get paid, so I am sending the files back to purchasing to coordinate documents that allow the consultants to be paid while staying within applicable rules and regs. Please let me know if there is another way to make these deals "right" and how I might be able to do that. Otherwise, I must continue to turn these files back so that the proper documentation is in place.

In my conversations with some of you, there seems to be agreement that we need to have better information about the process so that this date problem doesn't happen. I would welcome your thoughts on these types of issues. If I can meet with you to gain more understanding, I would appreciate that opportunity as well. Please let me know.

TOstermann

Cc:

JTyler@Agent@Purchasing

Bcc:

Barbara Berg@Admin@CSFS

From: Subject:

Certificate of Insurance

Date:

Attach:

Wednesday, August 21, 1996 9:20:47 MDT

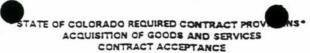
Certify:

Forwarded by:

Need your assistance please - need certificate of insurance from Western Bionomics LLC and Woodland Management Consultants to be included with Purchase Orders. There should be a statement such as "State of Colorado, State Board of Agriculture and/or Colorado State University are listed as addtional issured."

Please have both vendors fax a copy to John Tyler at 970-491-5523.

Thanks Barbara



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	Consultants	CIVICC	(hereinafter: "CSU") AN		anagement
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ndor's contract co	neseting of pages (ti	he Vendor Contract), c	allectively referred to as the	Agreement".	
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				various components that constit	
				eptance form; (2) Special Provision	
	Conditions, and (4) Vendor				,
14104			nd only the sums shown on the	CSU Purchase Order accompan	ving the Agreement f
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				ppropriation, CSU shall have no	
Vendor an	d Vendor's recourse shall be	expressly limited to the	equipment that is the subject of	of its purchase money security i	nterest.
•3. Exce	pt as provided in paragraph •:	2. above, any provision(s)	in the Vendor Contract imposit	ng financial liability upon the Sta	te or CSU, whether su
liability be	conditional, contingent, indi	emnity, or otherwise, sha	all be considered null, void and	unenforcasble.	
•4. CSU	, as an entity of the State of	Colorado, and its employ-	es are self-insured (\$150,000	/\$600,000) through the State a	nd are entitled by law
certain im	munities. Any provision of t	the Agreement imposing i	nsurance requirements upon C	SU and/or the State shall be con	sidered satisfied by s
self-insur	ance. No provision contained	in the Vendor Contract	shall be deemed to or result in	any waiver of any governmenta	l immunities provided
law.					(4)
•5. A pa	rty will be considered in defa-	uit of its obligations unde	r the Agreement if such party	should fail to observe, to comply	with, or to perform a
term, con	dition, or covenant contained	in the Agreement and su	ch failure continues for ten (10	days after the non-defaulting p	party gives the default
party writ	ten natice thereof. In the eve	ent of default, the non-def	aulting party, upon written not	ice to the defaulting party, may	terminate the Agreem
		ice, and may seek such o	ther and further relief as may !	se available at law or in equity	
effective	the date specified in the noti				
			filed in the City and County of	Denver, State of Colorado.	
•6. Any	legal proceeding arising from	n the Agreement shall be		Denver, State of Colorado. parties. No prior or contempora	neous addition, deleti
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First (Cover) page to this Agreement

Director of Personnel

"For use with "non-standard" agreements (see below) to meet requirements of the State Fiscal Rules, (4/96, V.P. Administrative Services).

""Not required for CSU Purchase Order assensitures of under \$10,000.

INSTRUCTIONS

This Contract Acceptance form should be added and used so the first loover) page to any agreement to be signed by both parties (i.e.; CSU and the Vender) which is in addition to the CSU Purchase Order. Fill in blank openies. Only this Contract Acceptance page should to signed by CSU. Any person of this agreement providing for signeture by CSU should be lined out. The Vender must also sign this Contract Acceptance page. Any questions concerning the use of this desument, as well as any questions concerning an agreement/contract riself, should be directed to the University Contracts Advisor, Office of Vice President for Administrative Services of ISO31481-5690. Reference CSU FPI34.00.

SERVICE AGREEMENT

THIS AGREEMENT, made this 17th day of July 1995, by and between State Board of Agriculture, on behalf of the Colorado State Forest Service, Colorado State University, Ft. Collins, CO 80523, hereinafter referred to as CSFS, and Woodland Management Consultants, P O Box 10, Ft Collins, CO 80522, hereinafter referred to as the CONTRACTOR; and

WHEREAS, the CONTRACTOR has the expertise to provide forest practice services; and

WHEREAS, the CSFS desires to implement forest practices described in this agreement.

NOW, THEREFORE, it is hereby agreed that:

1. CSFS warrants that they have authority from the State Board of Land Commissioners (SLB) pursuant to agreement dated July 1, 1991, as amended January 1, 1993 to grant all rights to the CONTRACTOR provided for in this Agreement. The property is described as follows:

NO SIG TIS R79W in Grand County

S36 T3N R77W in Grand County

S36 T7N R78W in Jackson County

S36 T12N R72W in Larimer County

NO S36 T1N R85W in Routt County

Do Accis 5

- 2. CSFS grants to CONTRACTOR the right of access to the above described property for the following purposes: develop and implement approved forest management plans, consistent with CSFS and SLB statutes, rules, regulations and standards.
- 3. CONTRACTOR agrees to provide the services specified in Paragraph 2 of this Agreement in consideration for: the following percentages of revenue generated from the sale of forest products as specified in CSFS and SLB approved forest management plans and annual work plans.

NO 316	T15 R79	W 24	percent
S36	T3N R77	W 26	percent
S36	T7N R78	W 28	percent
S36	T12N R7	2W 25	percent
1000 536	T1N R85	₩ 2 8	percent

- 4. It is understood between the CSFS and the CONTRACTOR that this Agreement shall begin on the date first above written, and shall remain in force five years dependent on satisfactory performance.
- 5. This Agreement may be terminated by either party thirty (30) days following written notice to the other party.

- 6. CONTRACTOR may assign rights provided for in this agreement to a subcontractor of its choice with the approval of the CSFS.
- 7. The CONTRACTOR shall maintain during the life of this agreement such liability & other insurance as is required by Colorado law.
- 8. This agreement may be extended due to inability of the CONTRACTOR to perform the work due to circumstances beyond its control or as mutually agreed to by the CSFS and CONTRACTOR. All extensions will be written and become a part of this Agreement.
- 9. Financial obligations of CSFS payable after the current fiscal year are contingent upon funds for that purpose being appropriated, budgeted and otherwise made available.
- 10. The CONTRACTOR agrees as part of this agreement that it will comply with all applicable laws regarding discrimination on the basis of race, creed, color, sex, or handicap including but not limited to Executive Order 11246 as amended or as may be further amended hereafter.
- 11. The laws of the state of Colorado and rules and regulations issued pursuant thereto shall be applied in the interpretation, execution and enforcement of this Agreement.
- 12. The signatories hereto aver that they are familiar with 18-8-301, et. seq., (Bribery and Corrupt Influences) and 18-8-401, et. seq., (Abuse of Public Office), C.R.S. 1973, as amended, and that no violation of such provision is present.
- 13. The signatories aver that to their knowledge no CSFS employee has any personal or beneficial interest whatsoever in the services or property described herein.

IN WITNESS WHEREOF the parties hereto have executed this agreement on the day first above written.

WOODLAND 'MANAGEMENT

CONSULTANTS

COLORADO STATE FORPST SERVICE



P.O. Box 10 Fort Collins, Colorado 80522 (303) 221-1336

July 17, 1995

Tom Ostermann
Colorado State Forest Service
Colorado State University
Ft. Collins, CO 80523

Dear Tom,

Reference RFP B900290;

- 1. Section 16,1S.,79W.,Grand County, the grazing lease is held by Terry Barnhardt as well as the road access. He has " personal reasons" for not allowing timber harvest. There is no other available access.
- Section 36, lN.,85W.,Routt County, road access is thru BLM lands. They have closed all vechicle access on King Mountain for 3 years to protect a pair of nesting goshawks. There is no other logical access.

Woodland Management Consultants has no further interest in these two sections.

Sincerely,

Bill Gherardi

Forester, Woodland Management Consultants

COMMON POLICY DECLARATIONS

POLICY NO. TYP050011 RENEWAL OF: CDP4678

CONTINENTAL DIVIDE INSURANCE CO.

RIEDMAN-FT COLLINS CD1131

BILL GHERARDI DBA: WOODLAND MANAGEMENT CONSULTANTS PO BOX 10 FORT COLLINS, CO 80522

POLICY PERIOD: From 05/15/96 To 05/15/97 at * 12:01 A.M. Standard Time at your mailing address shown above.

IN RETURN FOR THE PAYMENT OF THE PREMIUM, AND SUBJECT TO ALL THE TERMS OF THIS POLICY, WE AGREE WITH YOU TO PROVIDE THE INSURANCE AS STATED IN THIS POLICY.

THIS POLICY CONSISTS OF THE FOLLOWING COVERAGE PARTS FOR WHICH A PREMIUM IS INDICATED. THIS PREMIUM MAY BE SUBJECT TO ADJUSTMENT.

Commercial General Liability Coverage Part Commercial Automobile Commercial Crime Coverage Part Commercial Inland Marine Coverage Part Commercial Property Coverage Part

\$536

Workers Compensation

TOTAL

\$536

Premium shown is payable:

\$536

at inception.

Forms applicable to all Coverage Parts: SEE ATTACHED SCHEDULE

* See the PAYMENT SCHEDULE on form number ILM 00 36 11 95

COUNTERSIGNED

4-23-96

BY

Authorized Representative

CD24 08/87

CRIGINAL

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

LIMITS OF INSURANCE

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE FORM.

It is hereby agreed that the Declaration Page Limits of Insurance (GL51D 2-86) is replaced in its entirety by the following:

Limits of Insurance

General Aggregate Limit \$1,000,000.

Personal & Advertising Injury Limit 600,000.

Each Occurrence Limit:

1) For any "bodily injury," "property damage," "personal injury," or "advertising injury" to one person

2) For any "bodily injury," "property 600,000. damage," "personal injury," or "advertising injury" to two or more persons in any single occurrence, except no one person may recover in excess of \$150,000.

Fire Damage Limit

in any single occurrence.

50,000. Any One Fire

Medical Expense Limit

5,000. Any One Person



DEPARTMENT OF HEALTH AND ENVIRONMENT

1525 Blue Spruce Drive Fort Collins, CO 80524-2004

Environmental Health Division	498-6775
Berthoud Fire Dept	532-2264
Larimer County Emergency Mgt	498-5301
Loveland Fire Dept	962-2518
Poudre Fire Authority	

APPLICATION TO OBTAIN A BURNING PERMIT

I, Sy GHERAROT , Located at 1413 ASH DR FT (OLLING 8052) (Wame of Applicant) (Street Address, City, Zip Code)
Phone # $\frac{970-221-1336}{\text{for the date and time as follows:}}$, as an applicant do hereby request a burning permit
nou/DEC AS SNOW PERMITS
LOCATION OF PROPOSED BURNING: (Address of burn site, include directions to property and specific location on property.)
SECTION 36 11 NORTH 77 WEST Harines River Valley
SECTION 36 12 DORTH 72 WEST LINGMORE
Name, Street Address, City & Phone Number of Property Owner, IF DIFFERENT THAN ABOVE Phone COLLING COFFS
TYPE OF MATERIAL TO BE BURNED: SLASH in PILES AMOUNT: 3ACRES Acres/or Cu.Ft. etc.
SIGNATURE OF APPLICANT: Bil He DATE: 9/0/01

Approved, Disapproved Larimer County Health Department Date: 10/15/01
Reason for Denial:
Special Instructions: No track or stumps
Approved, Disapproved
Reason for Denial:
Special Instructions: ALL ATTACHED REGULATIONS SHALL APPLY

THIS PERMIT NOT VALID UNLESS SIGNED BY ALL APPROPRIATE AUTHORITIES

This permit invalid after Coul 1, 2002

Revised03/95-L.C.H.D. E.H. A.P. 2.5 Route: White-Owner, Yellow-Fire Dept., Pink-Health Dept. E.H. 0013

LARIMER COUNTY SHERIFF'S OFFICE



2501 Midpoint Drive Fort Collins, CO. 80525

Jim Alderden, Sheriff

GUIDELINES FOR BURNING

The guidelines attached will provide information and requirements that must be followed for burning in Larimer County. These guidelines were prepared by the Larimer County Sheriff's Department Emergency Operations Section and the Colorado State Forest Service to assist you in completing a safe and well managed burn. To summarize the information attached, the following requirements must be followed:

- 1. Piles of debris to be burned must be in open areas away from standing timber and structures.
- 2. There must be at last 3 inches of snow cover around the piles being burned.
- 3. Winds should be less than 7 mph or not strong enough to blow burning debris away from the burn area, or make control of the fire difficult.
- 4. Someone must remain with the fire at all times.
- 5. All burning must be completed and extinguished by nightfall.
- 6. Before starting your burn, you must advise Larimer County Communications Center at (970) 416-1985

In the Berthoud, Loveland, and Fort Collins area, you must also notify the appropriate fire department.

Failure to notify the appropriate agency will result in the fire departments responding to your, location due to smoke reports that our Communications Center may receive.

7. You must have a copy of your burning permit with you when burning.

If these guidelines are not followed, your permit may be revoked and the fires will be extinguished. Please remember that the control and safety of the burn is your responsibility and if at any time your fire damages another person's property, you can be held criminally and civilly liable for damages.

James A. Alderden, Sheriff Larimer County, Colorado

FOREST SLASH BURNING COTILLIONS FOR LARIMER COUNTY

This handout is designed to be used by forest landowners, land managers, and fire department personnel in Larimer County in planning and conducting safe and effective forest slash burning in woodland situations. It cannot guarantee safety from accidents, unforeseen circumstances, changing burning conditions, or negligent actions of the individual(s) burning slash. By following the intent of these guidelines and common sense, the landowner or forest manager can reduce forest slash accumulations, improve the appearance of their forest land, and reduce wildfire risk on their properties.

Definitions

<u>Slash</u>: The accumulation of limbs, tops, and miscellaneous residue left by forest management activities, such as thinning, pruning, and timber harvesting.

<u>Piling and burning</u>: The treatment of slash by piling the limbs and tops into manageable piles. Piles are burned during safe burning conditions, generally during the winter following cutting.

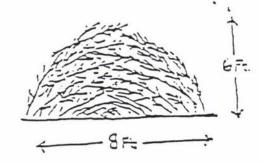
<u>Broadcast burning</u>: The treatment of slash by burning the limbs and tops as they lie on the ground after cutting. The slash must be distributed continuously throughout the burn area to be burned effectively. Burning is generally done during very wet periods or with light snow cover in late fall or early spring.

Mop-up: The final check of the burned slash to identify and extinguish still burning coals or materials. Extinguishment is usually accomplished by covering and mixing snow, water, or soil with the burning fuels.

CONSTRUCTION OF PILES

Pile slash immediately after cutting (while still green), and before winter snowfall. Remove all wood products such as firewood prior to piling. Pile branches and tops with the butt ends towards the outside of the pile, and overlapping so as to form a series of dense layers piled upon each other. Use a mixture of sizes and fuels throughout the pile. This prevents snow from filtering into the pile and extinguishing the fire while it is starting. Piles should be approximately 8 feet across in diameter and 6 feet in height, again to prevent drifting snow from entering the pile. Piles should be kept compact, with no long extensions, to reduce snow filtration and improve ignition. Do not place large stumps and sections of logs in the piles, as they will burn for extended periods and will frequently need to be mopped-up.

<u>Do not include garbage or debris in the pile</u>. Locate piles in meadows, rock outcrops, or openings in forest stands. Do not pile slash over stumps where possible, as these areas will also need to be mopped-up. Piles may be situated within forest stands, if they are at least 5 feet away from adjacent tree trunks and tree crowns do not hang over the piles.



PLANNING YOUR BURNING EFFORT

Landowners must complete the following steps before burning slash:

- 1. Obtain and have approved a burning permit from the Larimer County Health Department, 363 Jefferson Street, Fort Collins, CO 80524 (9303) 498-6788.
- 2. Signed authorization and approval from the legally constituted Fire Protection District for your area of Larimer county, or from the Larimer County Sheriff's Department, Emergency Services Section located in the basement of the Larimer County Courthouse.

Burning permits consist of 3 parts, and require the completion of information about the proposed burning. Upon completion of the permit and approval of the Health Department, approval from the responsible fire authorities is required. Upon their approval, the white copy of the permit is retained by the landowner, the yellow copy is given to the responsible fire protection agency, and the pink copy is returned to the Health Department.

The landowner must notify the responsible fire protection agency the day burning is planned (see attached list). Notification of the Larimer County Sheriff's Department, at (970) 416-1985 is also mandatory and should include the dates, times, and an exact legal description of the burn location. Neighbors should be informed prior to burning as well.

Burning must be done during suitable weather conditions. Periods of snow or light rain, with light winds (for smoke dispersal) and a minimum of 3 inches of snow cover are ideal. Do not burn during periods of high winds, low humidity or drying conditions, temperature inversions, and lack of snow cover or when these conditions are expected to develop after starting. Control of burning slash must be maintained at all times to reduce wildfire hazard and damage to residual trees. If snow cover becomes sparse during the burning period, additional water sources must be provided for wildfire control and mopping-up efforts. Persons conducting the burning should have at a minimum; leather gloves; shovels and mattocks; leather work boots; work clothing; masks or bandannas for covering the mouth and nose; and proper eye protection.

BURNING SLASH PILES

Piles may be ignited by several means. If the needles and fine fuels within the pile have dried

out throughout the summer, then ignition can be easily started with a large ball of newspaper placed within the bottom of the pile. If fuels are still partially green, or the pile is wet from rain or melting snow, then a hotter and longer burning source may be necessary. Sawdust, saturated with diesel fuel and placed within the bottom of the pile, can be used. Flares used for highway emergencies can also be utilized to ignite the piles. Do not use gasoline for this purpose!

One pile should be burned first as a test pile to see how it burns and at what rate prior to igniting other piles. If suitable burning conditions exist, then additional piles may be started. Ignite only those piles that can be watched with the available manpower until the piles have burned down. Depending on weather conditions, pile size, and moisture content of the fuels, piles should burn down in 20 to 35 minutes. As a general rule, 3 to 6 piles per person is a manageable rate if piles are closely situated.

After the piles have burned down, re-pile any unburned slash and large wood chunks (called "chunking-in") into the beds of coals before starting any new groups of piles. Do not start any new piles after 2:00 p.m. Piles started after this time may continue to burn into the evening.

If landowners have questions about possible problems with burning slash, they should contact the Larimer County Sheriff's Department, Emergency Services Section at 498-5302 or the Colorado State Forest Service, Fort Collins District Office at 491-8660. Information about wildfire hazard reduction for forest land is available form the Fort Collins District, CSFS at 491-8660.

Prepared by the Larimer County Sheriff's Department, Emergency Services Section and the Colorado State Forest Service, Fort Collins District, November 1, 1993.

Colorado State FOREST SERVICE

Colorado State University Fort Collins, Colorado 80523-5060 (970) 491-6303 FAX: (970) 491-7736

July 8, 1999

Bill Gherardi Woodland Management Consultants P.O. Box 10 Fort Collins, CO 80522

Dear Bill:

I hope you are well into a productive summer. This letter serves as a reminder that our service agreement for the following state land parcels will end July 17, 2000, five years from its initiation.

S36 T3N R77W, Grand County
S36 T7N R78W, Jackson County
S36 T12N R72W, Larimer County - Georges Colch

Teaming up with you and other consultants to manage state lands was a new approach for the CSFS. Over the next few months I will be evaluating whether to continue this activity. In the mean time, I encourage you to work with our Steamboat Springs, Granby and Fort Collins districts to complete projects by the agreement ending date. This is especially important in the case of bonds, since the CSFS does not release bonds until after final project inspection.

Upon reviewing revenue activity of this service agreement, I discovered that on at least two occasions you personally purchased transplants from the Jackson County property in addition to securing a 28% commission for the sale. While such practice is not expressly prohibited by our agreement, it could easily be construed by an auditor as a direct conflict with agreement intent. If you feel that this type of sale arrangement is fully justifiable due to market or other factors, please contact me so that we may discuss how to rectify the situation. Otherwise, please discontinue such practice.

Do not hesitate to contact me if you have any questions. I look forward to working with you in the future.

Sincerely,

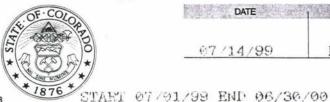
Phillip H. Schwolert

Forest Management Division Supervisor

cc Steamboat Springs District
Granby District
Fort Collins District



PURCHASING DEPARTMENT FORT COLLINS, CO 80523-6010



DATE PURCHASE ORDER

07/14/99

P300651

PURCHASE ORDER

PHONE (970) 491-5105 FAX (970) 491-5523

TERMS F.O.B.

QUOTE NO./QUOTE DATE

EXPECTED DELIVERY DATE

N B900290
PURCH, CONTACT PHONE

GARY KRAFT (970) 491-1521 Q022818

DEPT. NO.

5060

V0000170050-00

WOODLAND MGMT CONSULTANTS P 0 BOX 10 CO 80522 FORT COLLINS

COLORADO STATE UNIVERSITY 200 WEST LAKE

REFERENCE P.O. P300651

FORT COLLINS CO 80523

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PURCHASING DEPARTMENT FORT COLLINS, CO 80523-6010 PHONE (970) 491-5105 FAX (970) 491-5523



07/14/99

P300651

DATE PURCHASE ORDER

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START 07/01/99 END 06/30/00

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WOODLAND MGMT CONSULTANTS *** PO CONTINUATION *** *** PAGE NUMBER BELOW ***

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COLORADO STATE UNIVERSITY 200 WEST LAKE

REFERENCE P.O. P300651 FORT COLLINS CO 80523

PAYMENTS

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Bibliography

- Soil Survey of Larimer County, Soil Conservation Service, 1975.
- Manual for Wildfire Hazard Identification and Ecoystem Mapping, Colorado State Forest Service, 1975.
- Glossary of Terms Used in Timber Harvesting & Forest Engineering, US Forest Service, General Technical Report, SO-73.
- Silvicultural Systems, Cutting Methods, & Cultutal Practices for Black Hills Ponderosa Pine, US Forest Service, General Technical Report, RM-139.





P.O. Box 10 Fort Collins, Colorado 80522 (970) 221-1336

April 15, 1999

Mike Hughes Colorado State Forest Service Foothills Campus Ft. Collins, CO 80523

Dear Mike,

Enclosed please find check #6749 for \$3400 from Dwight Clark. This is for volume removed from Section 36, 12N.,R.72 W.. Dwight has completed the harvesting on this section.

The only remaining work item is to burn the slash piles. Due to our dry weather, this will not happen before next fall.

If you have any questions, please give me a call.

Sincerely,

Bill Gherardi

Forester, Woodland Management Consultants

Enclosures



P.O. Box 10 Fort Collins, Colorado 80522 (970) 221-1336

August 12, 1998

Mike Hughes

Colorado State Forest Service Foothils Campus Ft. Collins, CO 80523-5075

Dear Mike,

Enclosed pleae find the update annual work plan for Section 36. If you have any questions, please give me a call.

Sincerely,

Bill Gherardi

Forester, Woodland Management Consultants

Enclosure



P.O. Box 10 Fort Collins, Colorado 80522 (970) 221-1336

August 12, 1998

Annual Work Plan

Legal ; T. 12 N., R. 72 W., Section 36.

Common Name ; Georges Gulch.

Prescription ; Shelterwood cut.

Practice Size; 313 acres.

Species ; Ponderosa pine and Douglas fir.

Products ; Firewood and sawtimber.

Volume ; 50 mbf of dead, 300 cords of roundwood, 300 mbf

sawtimber.

Direct Cost ;

Value ; \$ 8000. Duration ; 1 year.

Other Benefits; Promote regeneration. Improve range.

other benefits, Flomote regeneration. Improve range.

Why ; Prevent catastrophic loss from beetle. Utilize

site potential.

Submitted by ; Bill Gherardi

Woodland Management Consultants.



Foothills Campus Colorado State University Fort Collins, Colorado 80523-5075 (970) 491-8660 FAX: (970) 491-8645

April 12, 1996

Woodland Management Consultants P.O. Box 10 Fort Collins, CO 80522

ATTENTION: Bill Gherardi

Dear Bill:

This letter is to inform you that I have reviewed you management plan for the Moen state section. Everything looks fine and I appreciate the effort you put into it.

I was going to ask that you supply me with a copy of a recent aerial photo and fire hazard type map, but I will run down a copy of each myself.

I do ask that you let me know when you will be starting implementation work. I would like to review your recommendation on the site, since I have never been on this parcel. Please call me sometime after May 15th (planting season) and we can arrange a time to meet on the section.

Sincerely,

Michael M. Hughes, Asst. District Forester Fort Collins District



PURCHASING DEPARTMENT

FORT COLLINS, CO 80523-6010

PHONE (970) 491-5105 FAX (970) 491-5523

07/13/98

P524598

START 07/01/98 END 06/30/99

PURCHASE ORDER

PURCHASE ORDER

TERMS FOR QUOTE NO./QUOTE DATE EXPECTED DELIVERY DATE B900290

GARY KRAFT PURCH CONTACT (970) 491-1521 PHONE Q012334 5000 DEPT. NO. V0000170050

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WOODLAND MGMT CONSULTANTS P O BOX 10 FORT COLLINS CO 80522 COLORADO STATE UNIVERSITY 200 WEST LAKE REFERENCE P.O. P524598 FORT COLLINS CO 80523

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INITIALS

DEPARTMENT

EXTENSION OF CONTRACT PERIOD

Per Clause 8 of the Service Agreement dated February 11, 1992, the termination date stated in Clause 4 is hereby extended to:

June 30, 1999.

In witness where of the parties to the original agreement hereto have executed this Amendment to that Agreement on June 12, 1998.

LANDOWNER

CONTRACTOR

Assistant District Forester

gunus g

Ref. Purchase Order 518399

07/01/97

DATE

P518399

PURCHASING DEPARTMENT

FORT COLLINS, CO 30523-6010 PHONE (970) 491-5105 FAX (970) 491-5523 START 07/01 97 END 06/30/98

PURCHASE ORDER

PURCHASE ORDER

TERMS

F.O.B.

QUOTE NO./QUOTE DATE

EXPECTED DELIVERY DATE

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B900290

PURCH CONTACT

(970) 491-5107

PHONE

Q213836

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V0000170050

WOODLAND MONT CONSULTANTS P O BOX 10

FORT COLLINS

CO 80522

COLORADO STATE FOREST SERVICE FORESTRY 203 REFERENCE P.O. P518399

DEPT NO.

FORT COLLINS

CO 80523

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P.O. Box 10 Fort Collins, Colorado 80522 (303) 221-1336

July 2, 1998

Mike Hughes Colorado State Forest Service Foothills Campus Ft. Collins, CO 80523-5075

Dear Mike,

Enclosed please find check #6464 for \$2100 from Dwight Clark. This is for volume removed from Section 36, 12 N., R. 72 W., thru June 25, 1998. Dwight will move back in the fall to complete the harvesting on this section.

Also enclosed is a copy of a letter to Dwight Clark extending the timber sale contract until May 1, 1999.

Finally, my invoice for this payment is also enclosed. If you have any questions, please give me a call.

Sincerely,

Bill Gherardi

Forester, Woodland Management Consultants

Enclosures

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P.O. Box 10 Fort Collins, Colorado 80522 (303) 221-1336

July 2 / 1998

Dwight Clark 5531 W. Cty. Rd. 20 Loveland, CO 80537

Dear Dwight,

The Timber Sale Contract for Section 36, T. 12 N., R. 72 W., dated January 9, 1997 is hereby extended to May 1,1999. All of the original provisions of the contract remain the same.

Sincerely,

Bill Gherardi

Forester, Woodland Management Consultants

cc: Mike Hughes



P.O. Box 10 Fort Collins, Colorado 80522 (970) 221-1336

MARCH 10,1998

MIKE HUGHES
COLORADO STATE FOREST SERVKE
FOOTHILLS CAMPUS
FT. COLLINS, CO 80523

DEAR MIKE, ENCLOSED PLEASE FIND A CHECK FROM DWIGHT CLARK FOR \$ 2000.00, FOR THE TIMBER SACE ON SECTION 36, 12N. R 72W. ALSO ENCLOSED IS MY INVOICE.

IF YOU HAVE ANY QUESTIONS, PLEASE CALL ME.

SINCERELY,

Bill Shandi

Enclosures



P.O. Box 10 Fort Collins, Colorado 80522 (303) 221-1336

November 15, 1996

Work Plan

Legal ; T. 12 N., R. 72 W. Section 36.

Common Name ; Gerges Gulch.

Prescription; Shelterwood cut.

Practice size; 313 acres.

Species ; Ponderosa pine and Douglas fir.

Products ; Firewood and sawtimber.

Volume ; 50 mbf dead, 700 mbf green sawtimber.

Direct Cost ;

Value ; \$21250. Duration ; 2 years.

Other Benefits; Promote regeneration. Improve range.

Why ; Prevent catastrophic loss from mountain pine

beetle. Utilize site potential.

Submitted by ; Bill Gherardi

Woodland Management Consultants.

PURCHASE ORDER

07/01/97

P518399

PURCHASING DEPARTMENT

FORT COLLINS, CO 80523-6010 PHONE (970) 491-5105 FAX (970) 491-5523

TERMS

JOHN C. TYLER

F.O.B.

QUOTE NO./QUOTE DATE

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B900290

*/START 07/01/97 END 06/30/98

EXPECTED DELIVERY DATE

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DEPT. NO.

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WOODLAND MGMT CONSULTANTS P O BOX 10 FORT COLLINS CO 80522 COLORADO STATE FOREST SERVICE FORESTRY 203 REFERENCE P.O. P518399

FORT COLLINS CO 80523

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BUDGETED AND OTHERWISE MADE AVAILABLE AS

Colorado State University

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07/01/97

P518399

PURCHASING DEPARTMENT

FORT COLLINS, CO 80523-6010 PHONE (970) 491-5105 FAX (970) 491-5523

F.O.B.

QUOTE NO./QUOTE DATE

EXPECTED DELIVERY DATE

PURCHASE ORDER

PURCH. CONTACT

PHONE

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DEPT. NO.

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WOODLAND MGMT CONSULTANTS
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COLORADO STATE FOREST SERVICE FORESTRY 203 REFERENCE P.O. P518399

F FORT COLLINS CO 80523

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	PURCHASE PURCHASE PARTIES R THE 1992 OF RIGHTS CONSTITUT REQUIRED FISCAL YE SOLE DISC ANY PROVI	ORDER. IN ADDITED OF THE AMENDMENT TO TERMINATE AT THE AMENDMENT TO TERMINATE AT THE AMENDMENT OF THE STATE OF THE AMENDMENT	TAXPAYER'S BILL THE COLORADO CONTRACTS ARE THE END OF EACH RIGHTS AT THE FATE. THEREFORE, REEMENT NOTWITH- SHALL TERMINATE UNLESS RENEWED	UNIT PRICE	EXTENSION
1	F3 1-934	460−4550	TOTAL	3 164	1,928.75

PAYMENTS
PAY

EXTENSION OF CONTRACT PERIOD

Per Clause 8 of the Service Agreement dated February 11, 1992, the termination date stated in Clause 4 is hereby extended to:

June 30, 1998.

In witness where of the parties to the original agreement hereto have executed this Amendment to that Agreement on May 19, 1997.

LANDOWNER

CONTRACTOR

Assistant District Forester

Woodland Management Consultants

SERVICE AGREEMENT

THIS AGREEMENT, made this 17th day of July 1995, by and between State Board of Agriculture, on behalf of the Colorado State Forest Service, Colorado State University, Ft. Collins, CO 80523, hereinafter referred to as CSFS, and Woodland Management Consultants, P O Box 10, Ft Collins, CO 80522, hereinafter referred to as the CONTRACTOR; and

WHEREAS, the CONTRACTOR has the expertise to provide forest practice services; and

WHEREAS, the CSFS desires to implement forest practices described in this agreement.

NOW, THEREFORE, it is hereby agreed that:

1. CSFS warrants that they have authority from the State Board of Land Commissioners (SLB) pursuant to agreement dated July 1, 1991, as amended January 1, 1993 to grant all rights to the CONTRACTOR provided for in this Agreement. The property is described as follows:

S36 T3N R77W in Grand County
S36 T7N R78W in Jackson County
S36 T12N R72W in Larimer County
NO S36 T1N R85W in Routt County

- 2. CSFS grants to CONTRACTOR the right of access to the above described property for the following purposes: develop and implement approved forest management plans, consistent with CSFS and SLB statutes, rules, regulations and standards.
- 3. CONTRACTOR agrees to provide the services specified in Paragraph 2 of this Agreement in consideration for: the following percentages of revenue generated from the sale of forest products as specified in CSFS and SLB approved forest management plans and annual work plans.

NO 316	T18 R79W	24 percent
S36	T3N R77W	26 percent
S36	T7N R78W	28 percent
S36	T12N R72W	25 percent
New 536	T1N R85W	28 percent

- 4. It is understood between the CSFS and the CONTRACTOR that this Agreement shall begin on the date first above written, and shall remain in force five years dependent on satisfactory performance.
- 5. This Agreement may be terminated by either party thirty (30) days following written notice to the other party.

- 6. CONTRACTOR may assign rights provided for in this agreement to a subcontractor of its choice with the approval of the CSFS.
- 7. The CONTRACTOR shall maintain during the life of this agreement such liability & other insurance as is required by Colorado law.
- 8. This agreement may be extended due to inability of the CONTRACTOR to perform the work due to circumstances beyond its control or as mutually agreed to by the CSFS and CONTRACTOR. All extensions will be written and become a part of this Agreement.
- 9. Financial obligations of CSFS payable after the current fiscal year are contingent upon funds for that purpose being appropriated, budgeted and otherwise made available.
- 10. The CONTRACTOR agrees as part of this agreement that it will comply with all applicable laws regarding discrimination on the basis of race, creed, color, sex, or handicap including but not limited to Executive Order 11246 as amended or as may be further amended hereafter.
- 11. The laws of the state of Colorado and rules and regulations issued pursuant thereto shall be applied in the interpretation, execution and enforcement of this Agreement.
- 12. The signatories hereto aver that they are familiar with 18-8-301, et. seq., (Bribery and Corrupt Influences) and 18-8-401, et. seq., (Abuse of Public Office), C.R.S. 1973, as amended, and that no violation of such provision is present.
- 13. The signatories aver that to their knowledge no CSFS employee has any personal or beneficial interest whatsoever in the services or property described herein.

IN WITNESS WHEREOF the parties hereto have executed this agreement on the day first above written.

WOODLAND 'MANAGEMENT

CONSULTANTS

COLORADO STATE FOREST SERVICE



Woodland Management Consultants P.O. Box 10 Fort Collins, Colorado 80522 (303) 221-1336

July 17, 1995

Tom Ostermann
Colorado State Forest Service
Colorado State University
Ft. Collins, CO 80523

Dear Tom,

Reference RFP B900290;

- Section 16,1S.,79W.,Grand County, the grazing lease is held by Terry Barnhardt as well as the road access. He has " personal reasons" for not allowing timber harvest. There is no other available access.
- Section 36, 1N.,85W.,Routt County, road access is thru BLM lands. They have closed all vechicle access on King Mountain for 3 years to protect a pair of nesting goshawks. There is no other logical access.

Woodland Management Consultants has no further interest in these two sections.

Sincerely,

Bill Gherardi

Forester, Woodland Management Consultants

POLICY NO. TYP050011 RENEWAL OF: CDP4678

CONTINENTAL DIVIDE INSURANCE CO.

RIEDMAN-FT COLLINS CD1131

BILL GHERARDI DBA: WOODLAND MANAGEMENT CONSULTANTS PO BOX 10 FORT COLLINS, CO 80522

POLICY PERIOD: From 05/15/96 To 05/15/97 at *

12:01 A.M. Standard Time at your mailing address shown above.

IN RETURN FOR THE PAYMENT OF THE PREMIUM, AND SUBJECT TO ALL THE TERMS OF THIS POLICY, WE AGREE WITH YOU TO PROVIDE THE INSURANCE AS STATED IN THIS POLICY.

THIS POLICY CONSISTS OF THE FOLLOWING COVERAGE PARTS FOR WHICH A PREMIUM IS INDICATED. THIS PREMIUM MAY BE SUBJECT TO ADJUSTMENT.

Commercial General Liability Coverage Part Commercial Automobile Commercial Crime Coverage Part Commercial Inland Marine Coverage Part Commercial Property Coverage Part

\$536

Workers Compensation

TOTAL

\$536

Premium shown is payable:

\$536 at inception.

Forms applicable to all Coverage Parts: SEE ATTACHED SCHEDULE

* See the PAYMENT SCHEDULE on form number ILM 00 36 11 95

COUNTERSIGNED

CD24 08/87

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

LIMITS OF INSURANCE

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE FORM.

It is hereby agreed that the Declaration Page Limits of Insurance (GL51D 2-86) is replaced in its entirety by the following:

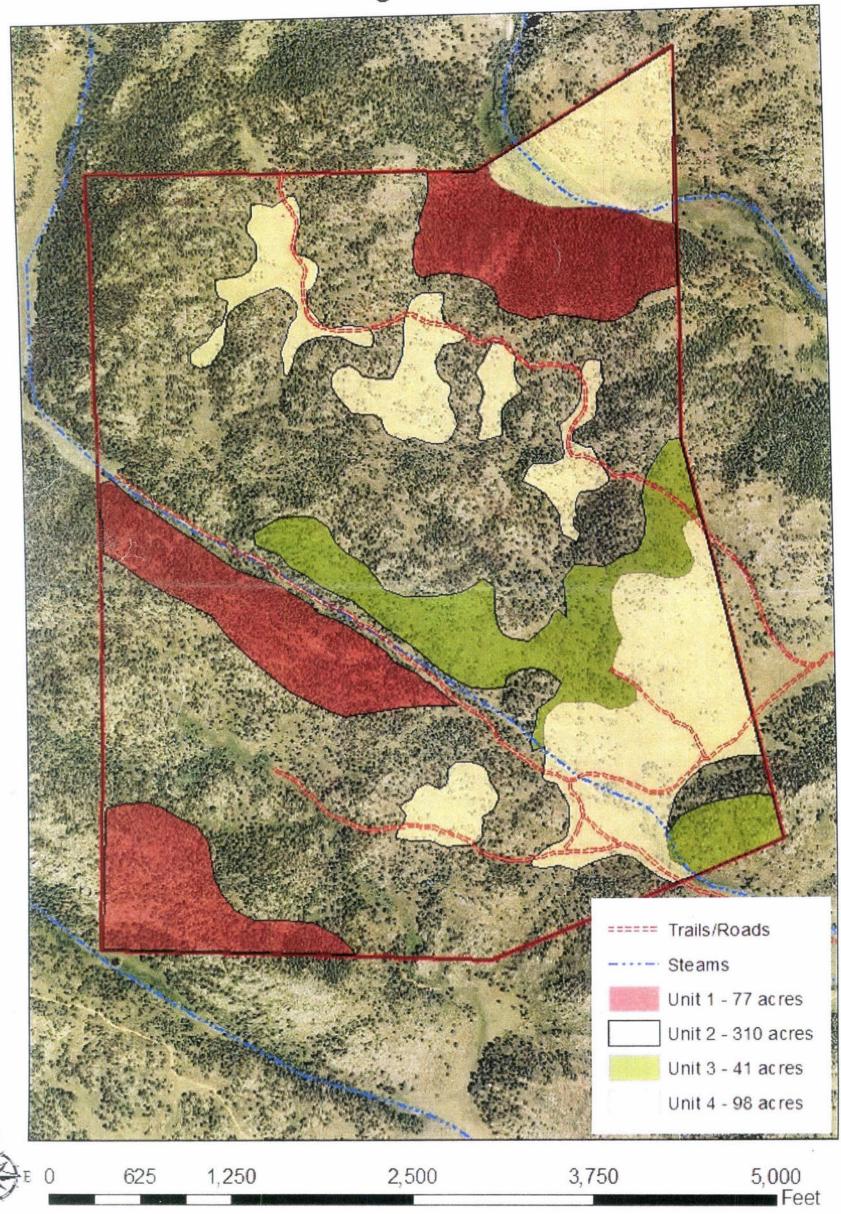
Limits of Insurance

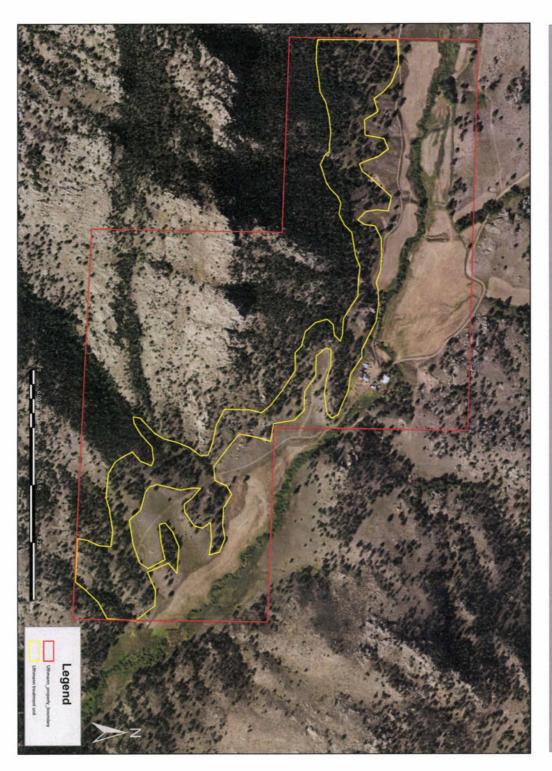
Medical Expense Limit

General Aggregate Limit \$1,000,000. Personal & Advertising Injury Limit 600,000. Each Occurrence Limit: For any "bodily injury," "property 150,000. damage, "personal injury," or "advertising injury" to one person in any single occurrence. For any "bodily injury," "property 600,000. damage," "personal injury," or "advertising injury" to two or more persons in any single occurrence, except no one person may recover in excess of \$150,000. 50,000. Any One Fire Fire Damage Limit

5,000. Any One Person

George's Gulch





To:	Invo	ice No	42	348
DWIGHT CLARK-LOGGING 5531 W CTY RD 20 LOVELAND CO 80537		Co	State FORES SERVICE	e T
Date:1/24/97		is the same of the		
FCSL 97-1 SEC 36, T12N, R72W, L	ARIMER COUNTY, C	OLO .	Unit Co	st Total
PERFORMANCE BOND (MOEN SECTION)				400.00
PERMIT APPLICATION FEE				25.00
4				
5				
6				
7				
8				
9				
Tax Exempt No	S	sales Tax		
			То	475.111
Kathey Klocker			Amount Pa	425.00
CSFS Originator	Ck#		Dated	
Payment Due ByTHANK_YOU	Rcv'd By	PPD	F.Y.	1/19/9 %
Remit to:	Fu	nding		Amount
	0-19606		2060	400.00
	1-93210		1646	25.00
	Deposit No. /	- 30.	97 Dat	e 40997

FYI- From Swah G.

MH IM FM FM MM

KP ET SD 30

DW DW MS MG

Byd last

Larimer County Smoke Field Visits 2/20/06

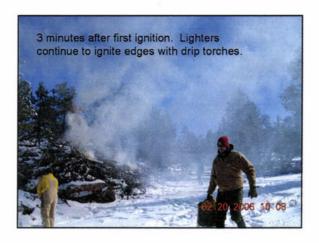
George's Gulch Piles FCS-06-091 **CSFS Fort Collins District**

this and next 2 slides: lighting pile by pouring some diesel in center then lighting with fussee. It built heat quickly.



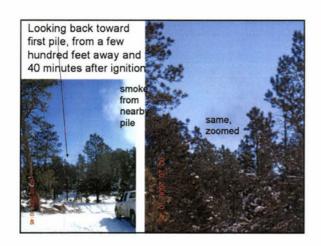


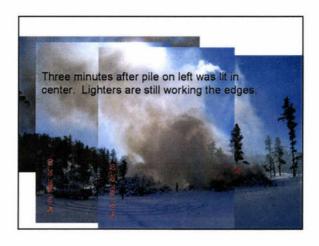


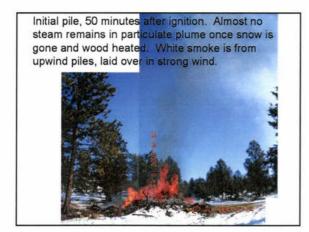


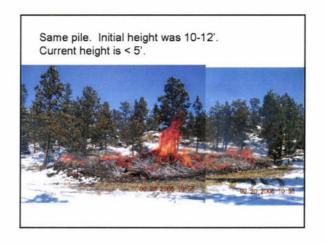


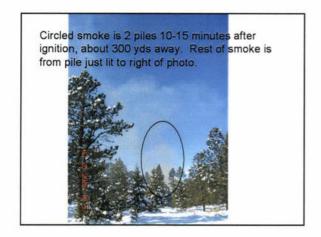


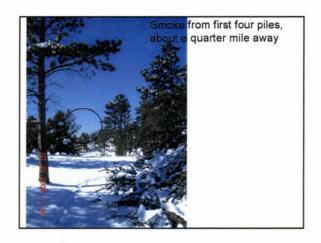


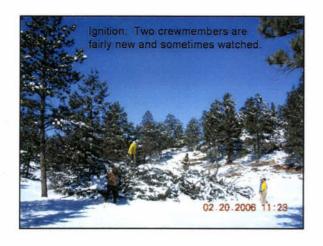


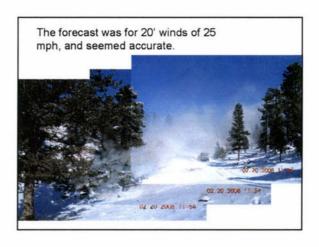




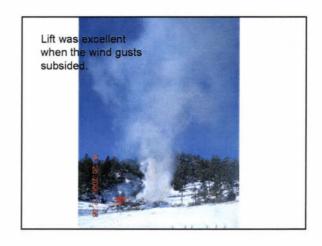




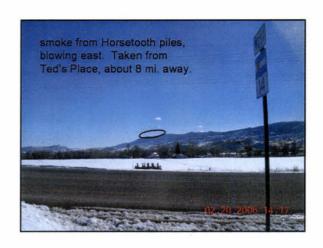


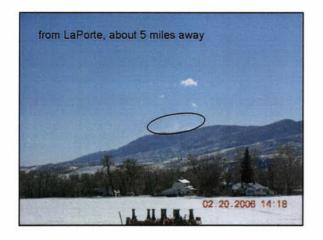


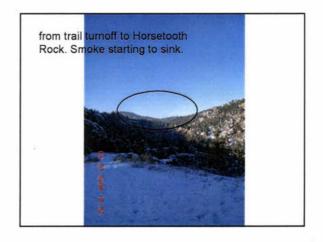


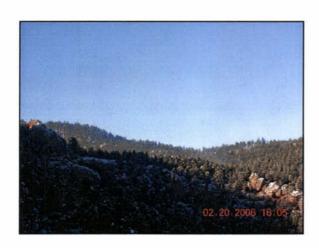


Horsetooth Piles LRX-06-077 Larimer Co. Emergency Svcs









Form F

ANNUAL ACTUA	I FIRE	ACTIVITY	PILES	AND	BROADCAS	Т
ANNUAL ACTUA		ACTIVITION.	I ILLO	TIND	DIVONDONO	

Return by March 1, summarizing all fire activity for the prior calendar year. This form is in addition to Daily Activity Reports. Georges Gulch Pilos Permit Number: FCS-06-091 Burn Name: No fire was ignited at this location during the permit year. If no burning, check here and sign below. 2/20/06 List of Burn Dates: If additional space needed, attach a list of burn dates. * Totals should equal sum of Daily Activity Total Broadcast Actual Acres* Forms SMP-E. % of pile Avg. ft³ per pile /500 OR Total # of piles* consumed, avg. 95 % Broadcast Broadcast: Fuel Load. Broadcast % Piles: Check all % of Acres Consumed Fuel Types t/ac fuels that apply. Unburned, any For mosaic, unburned area within % black perimeter n/a species Grass % % n/a % Sagebrush % Oak or Aspen % % Pine or Other Conifer % % Piñon/Juniper % % Other: % % total = 100% Optional Comments: 12/18/06 NAME: Boy do, Lese da DATE:

Submit to Air Pollution Control Division.

Fax to 303-782-5493 or 303-782-0278 or email to coleen.campbell@state.co.us.

Please deliver this fax to Coleen Campbell, APCD.

Form SMP-A OPEN BURNING PERMIT APPLICATION PRESCRIBED FIRE PROJECTS

RECEIVED

DEC 2 3 2005

BURN NAME:	Georges Gulch Piles	с	OUNTY:	Larimer	***************************************			
RENEWAL? Indicate Old Permit No	No y 75.05.3	325 L	OCATION:	T12N, R72W, So T,R,S or Lat/Long				
ADMINISTRATIVE UNIT ID: COS See Info Sheet I for a list of IDs. Include all IDs for multiple agency burns. Private landowner use PVT.								
CONTACT PERSON	N: Boyd Lebeda			PHONE:	970.491.8445			
Complete Address, En	nail Address, Fax and Cel	l Phone fields Of	VLY if this is y	our first submittal or	info has changed.			
ADDRESS:	5075 Campus Deliver	, CSU, Fort Coll	lins, CO 8052	23-5075 CELL :	970.222.8693			
EMAIL ADDRESS:	blebeda@lamar.colos	tate.edu		FAX:	970.491.8645			
BILLING INFORMA		Percent	age /	Agency	Percentage			
If multiple agencies to please indicate the per	rcentage							
for each. Otherwise, to administrative unit liste								
will be billed 100%. LANDOWNER: SL Complete ONLY if diffe	_B erent than Agency to be b			ndowner/Agency o				
MANAGEMENT US Check appropriate use	E/TYPE OF PROJECT	: SPECIES						
NATURAL FUEL	REDUCTION	CONVER		SITE P	REP			
ACTIVITY FUEL	REDUCTION X	RANGE IMPROVE	EMENT	WILDL	IFE			
HAZARDOUS FL	JEL REDUCTION	_ PEST CO	NTROL	OTHER	R			
REQUESTED WIND	DIRECTIONS:	any	e.g.: any, N	N-E-SW, all but NW.	Precise to 2 letters.			
REQUESTED SPEC	CIAL CONDITIONS, if a	any:						
SMOKE SEN	SITIVE AREAS	MILES FROM BURN		ON FROM BURN rection or degrees	MAIN CONCERN(S) Day=D, Night=N, Both=B			
US Highway 287		2		NE	D			
Co Rd 46E		1.5		Е	D			
Tie Siding, WY		10		N	D			
			Permit N	Number: ECS	- No - 091			

Form SMP-A, cont. OPEN BURNING PERMIT APPLICATION PRESCRIBED FIRE PROJECTS

for BROADCAST BURNS only:		
PROPOSED BURN DATES: Month or season is sufficient, but dates must be	e in the same calendar year	
MAX. TOTAL ACREAGE:	AND MAX. DAILY ACREAGE:	
	BRIEF DESCRIPTION DF FUELS: tion.)	-
IGNITION METHOD(S): HAN	D ONLY AERIAL ONLY	ВОТН
SMOKE RISK RATING: Attach Colorado Sm For Categories III an	noke Risk Rating Worksheet, Form SMP-B nd IV, also attach map of expected lofted and drain	nage smoke flow.
Category I Cate	gory II Category III	Category IV
FUEL MOISTURE PRESCRIPTIVE ELEM This section to be completed for projects with C		
	Measurement Method Indicate method to be used.	Minimum Fuel Moisture (%)
3-8" diameter logs (1000-hr fuels)	Sampled	
5-6 diameter logs (1000-fil ideis)	Calculated	
	v1 to December 31. Permits issued after January with the application packet are no longer required	I. APCD may request modeling for
DAILY NUMBER OF PILES: 12		15x15x6
1000-hr+ FUEL AS % OF VOLUME:	Can round to the nearest 10%, % of log	
HAND PILES: OR	MACHINE PILES: X Built e	entirely or partly by machine.
DISTANCE TO NEAREST OCCUPIED RE	SIDENCE: 1.1 Provide whole miles if	distance ≥2, tenths if less.
Applicant Signature: /s/ Boyd	I O. Lebeda	Date: December 21, 2005
Summary Conditions: Maximum Smoke	Dispersion Excellent volume Sm	noke Dispersion Fair
Minimum Win	d Direction Any Maximum	Wind Direction Any (Clockwise)
Approved by Colorado APCD:	Date: 27 Dec 05	Permit Number: FCS · O6 · 09/
Form SMP-A Colorado Air Pollution Control Division Comp Updated November 18, 2004 Page 2 of 2	Date: 17 Dec 05 Deter than 3 hrs before sunset. Dete 19 chunking no later than	n 2 hrs before sunset,

Form SMP-C EVALUATION OF NON-BURNING FUEL TREATMENTS AND SMOKE MITIGATION TECHNIQUES USED

Burn name: Georges Gulch Non-Burning Fuel Treatments Utilized: Check all that apply Burn is part of a project that includes non-burning fuel treatments. Alternative fuel treatments utilized: Invasive/Exotic Species Management Grazing Other Biological Control except grazing (green stripping, methods to increase decomposition) Mechanical Treatment X Timber Sale _____ Firewood Sales Other Non-burning fuel treatments were considered and are not available to meet resource objectives because: Safety Concerns Legislative/management restrictions Access/physical barriers X Fuel has no commercial value X Not Economically Reasonably Other Smoke and/or Emissions Minimization Techniques Planned: Check all that apply Burn before greenup Burn before large fuels cure (activity fuel only) Reduce target area Construct fire lines to halt fire spread Rapid Mop-Up Meteorological scheduling to reduce smoke impacts X Burn fuels in piles or windrows X Piles dry, free of dirt, and small enough to manage smoke impacts High fuel moisture content in large woody fuels minimizes consumption of large fuels

Moist litter/duff layer minimizes consumption of litter/duff

Sn	noke and/or Emissions Minimization Techniques Planned:
Con	tinued Firing technique used to maximize smoke dispersal and minimize pollutants
	Hose lays & pumps to wet fuels and extinguish all or a portion of fire front
	Other
Sn	noke Contingency Plan:
7	This section must answer two questions: 1) What actions will be taken in order to minimize the likelihood of unacceptable smoke impacts? 2) If unacceptable smoke impacts occur at smoke sensitive receptors anyway, what mitigation measures will be taken? (Smoke Contingency Plan may be attached as a separate document.) Monitor smoke production and dispersal of test burn
	Igniting piles in small groups
3	Each group of piles will be monitored
	Piles are 5 plus years old
	We have already made contact with nearest resident (Forest Moen) about the project
	Individual piles may be extinguished and mopped up if directed by the burn boss



Permit Number: FCS - 06 - 09 1

Burn Name: Georges Gulch Piles

Permit Conditions - Piles

March 23, 2005

Air Pollution Control Division / Technical Services

General Permit Conditions:

Notify the public at least 24 hours but no more than 120 hours before each burn. Include a person that the public may contact regarding the burn.

Notify the Local Air Quality Contact (usually the local health department) before ignition.

Submit Form SMP-D, Notification of Ignition, 2-48 hours before ignition.

Submit Form SMP-E, Daily Actual Fire Activity by 10:00 a.m. the following day.

Whether or not fire activity occurs under this permit during the calendar year, submit Form SMP-F, Annual Actual Fire Activity by the following March 1.

Fire must be able to be extinguished if adverse smoke impacts develop at any smoke sensitive receptor. If this condition is not met and adverse impacts develop, APCD may rescind this permit immediately.

If the piles are in the Front Range area affected by red-blue days and open burning forecasts, those requirements must be met in addition to general pile burning weather conditions described below. See http://apcd.state.co.us/smoke/prescribed/ppb.doc.

For the maximum number of piles that may be burned and other conditions, see over.

Piles may be burned under this permit only if:

- Ignition occurs during a snowstorm (indicated by visibility of 1 mile or less) OR
- The National Weather Service forecasts the day's maximum dispersion adjective as fair or higher OR
- One-minute average on-site eye-level wind speeds are:
 - o 4(+) mph measured before ignition AND
 - also 4(+) mph measured at least 15 minutes later, during which delay one test pile may be burned.

APCD may revise permit conditions at any time, as circumstances warrant.

Please call Coleen Campbell at 303-692-3224 if you have questions or comments on your permits.

22 Nov. 2004 Permit ConditionsPiles.doc

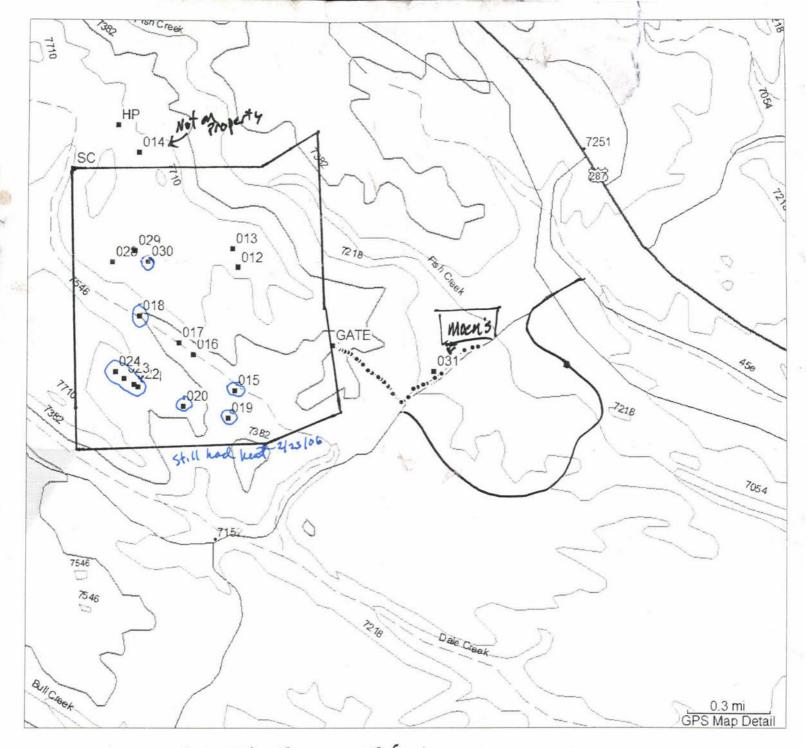
Maximum Number of Piles To Burn At Once¹

Greenest material in pile must be cut at least 12 months before ignition. Otherwise, see specific permit.

volume per pile	if closest occupied ² residence at least one mile away	if closest occupied residence < 1 mile away		
≤ 300 ft ³	100 piles	smaller of 75 piles or the number that people on site could extinguish within 2 hours		
		Also: Complete ignition at least 2 hours before sunset.		
2.	*	Also: Chunk each pile at least once. Complete first chunking at least 1 hour before sunset.		
301 - 500 ft ³	75 piles	smaller of 50 piles or the number that people on site could extinguish within 3 hours		
ı		Also: Complete ignition at least 3 hours before sunset.		
		Also: Chunk each pile at least once. Complete first chunking at least 1 hour before sunset.		
,		Also: Any wind direction is approved during a snowstorm. Otherwise, any wind direction is approved unless marked:		
		through to, clockwise.		
501 - 9,999 ft ³	12,000 ft ³ total; or 50,000 ft ³ if > 5 miles from homes	See specific permit.		
10,000 (+)ft ³	See specific permit.			

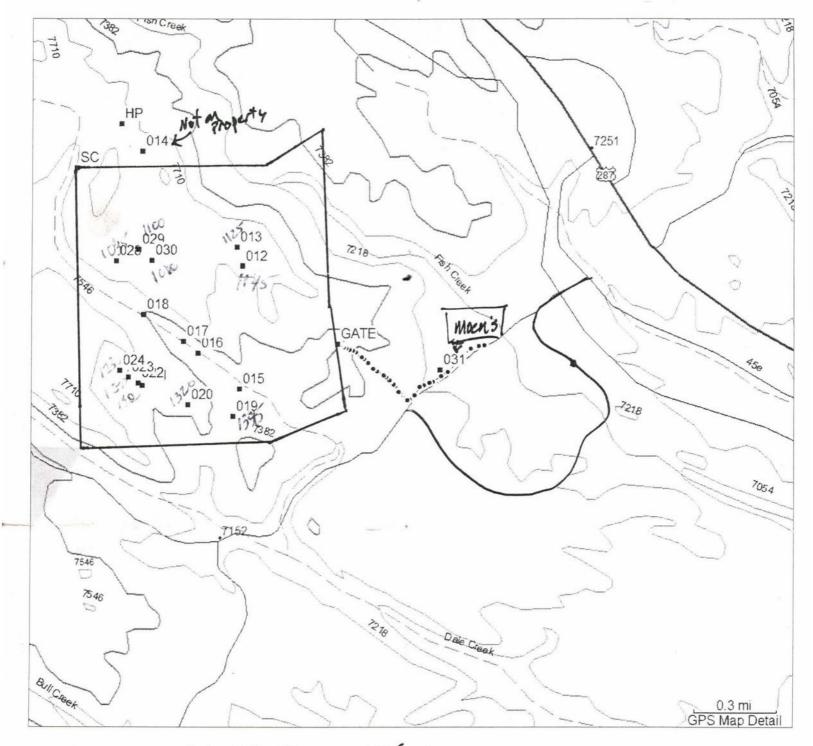
¹ The maximum number of piles that may be producing smoke at any one time (per 'wave').

² For piles > 300 ft³ each, the home may not be occupied during either the day of burning or the following night. Only for piles ≤ 300 ft³ each, if a residence is vacant during the burn day it may be considered to be unoccupied. If there are so few residences within one mile that burners talk with every household in advance and none has unmitigated smoke concerns, those residences also may be considered 'unoccupied.'



Georges Gulch Pile Burn 2/20/06 TIZN, R72W. Sec 36 22,23,24 Still had heat on 727/06 Dozy Borns BL 40° 57.794' 105° 24.712' NAS E OSE





Georges Gulch Pile Burn 2/20/06 TIZN, R72W. Sec 36 40° 57.794' 105° 24.712'

Com 2 - 1 - 1 m 2 2 m 1100

Strant scott

deput 1326

Mark Wives

Anives 1325

1300 26, 325 1300 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0 1500 24, 356/0

*



Permit Number: <u>F<5-05-325</u>

Burn Name: Georges Gulch Piles

Permit Conditions - Piles

March 23, 2005

Air Pollution Control Division / Technical Services

General Permit Conditions:

Notify the public at least 24 hours but no more than 120 hours before each burn. Include a person that the public may contact regarding the burn.

Notify the Local Air Quality Contact (usually the local health department) before ignition.

Submit Form SMP-D, Notification of Ignition, 2-48 hours before ignition.

Submit Form SMP-E, Daily Actual Fire Activity by 10:00 a.m. the following day.

Whether or not fire activity occurs under this permit during the calendar year, submit Form SMP-F, Annual Actual Fire Activity by the following March 1.

Fire must be able to be extinguished if adverse smoke impacts develop at any smoke sensitive receptor. If this condition is not met and adverse impacts develop, APCD may rescind this permit immediately.

If the piles are in the Front Range area affected by red-blue days and open burning forecasts, those requirements must be met in addition to general pile burning weather conditions described below. See http://apcd.state.co.us/smoke/prescribed/ppb.doc.

For the maximum number of piles that may be burned and other conditions, see over.

Piles may be burned under this permit only if:

- Ignition occurs during a snowstorm (indicated by visibility of 1 mile or less) OR
- The National Weather Service forecasts the day's maximum dispersion adjective as fair or higher OR
- One-minute average on-site eye-level wind speeds are:
 - 4(+) mph measured before ignition AND
 - also 4(+) mph measured at least 15 minutes later, during which delay one test pile may be burned.

APCD may revise permit conditions at any time, as circumstances warrant.

Please call Coleen Campbell at 303-692-3224 if you have questions or comments on your permits.

22 Nov. 2004

Permit ConditionsPiles.doc

Permit	Number	

Maximum Number of Piles To Burn At Once¹

Greenest material in pile must be cut at least 12 months before ignition. Otherwise, see specific permit.

volume per pile	if closest occupied ² residence at least one mile away	if closest occupied residence < 1 mile away			
≤ 300 ft ³	100 piles	smaller of 75 piles or the number that people on site could extinguish within 2 hours			
		Also: Complete ignition at least 2 hours before sunset.			
		Also: Chunk each pile at least once. Complete first chunking at least 1 hour before sunset.			
301 - 500 ft ³	75 piles	smaller of 50 piles or the number that people on site could extinguish within 3 hours			
		Also: Complete ignition at least 3 hours before sunset.			
		Also: Chunk each pile at least once. Complete first chunking at least 1 hour before sunset.			
		Also: Any wind direction is approved during a snowstorm. Otherwise, any wind direction is approved unless marked:			
		through to, clockwise.			
501 - 9,999 ft ³	12,000 ft ³ total; or 50,000 ft ³ if > 5 miles from homes	See specific permit.			
10,000 (+)ft ³		See specific permit.			

¹ The maximum number of piles that may be producing smoke at any one time (per 'wave').

² For piles > 300 ft³ each, the home may not be occupied during either the day of burning or the following night. Only for piles ≤ 300 ft³ each, if a residence is vacant during the burn day it may be considered to be unoccupied. If there are so few residences within one mile that burners talk with every household in advance and none has unmitigated smoke concerns, those residences also may be considered 'unoccupied.'

Form SMP-A OPEN BURNING PERMIT APPLICATION PRESCRIBED FIRE PROJECTS

BURN NAME:	Georges Gulch Piles	с	OUNTY:	Larimer			
RENEWAL? Indicate Old Permit No	No umber	L	OCATION:	T12N, R72W, Se T,R,S or Lat/Long	ec. 36		
ADMINISTRATIVE UNIT ID: COS See Info Sheet I for a list of IDs. Include all IDs for multiple agency burns. Private landowner use PVT.							
CONTACT PERSO	N: Boyd Lebeda			PHONE:	970.491.8445		
Complete Address, Er	mail Address, Fax and Cel	l Phone fields ON	VLY if this is y	our first submittal or	info has changed.		
ADDRESS:	5075 Campus Deliver	, CSU, Fort Coll	ins, CO 8052	23-5075 CELL: 9	970.222.8693		
EMAIL ADDRESS:	blebeda@lamar.colos	tate.edu		FAX: 9	970.491.8645		
BILLING INFORMA	0 7	Percent	age /	Agency	Percentage		
If multiple agencies to please indicate the pe	rcentage						
for each. Otherwise, t administrative unit liste	Service Control of the Control of th						
will be billed 100%. LANDOWNER: Si Complete ONLY if diff	LB erent than Agency to be b			ndowner/Agency o ,000 acres in Colo			
MANAGEMENT US Check appropriate use	E/TYPE OF PROJECT						
NATURAL FUEL	REDUCTION	SPECIES		SITE PI	REP		
ACTIVITY FUEL	REDUCTION X	RANGE IMPROVE	MENT	WILDLI	FE		
HAZARDOUS FU	JEL REDUCTION	PEST CO	NTROL	OTHER			
REQUESTED WINE	DIRECTIONS:	any	e.g.: any, I	N-E-SW, all but NW	Precise to 2 letters.		
REQUESTED SPEC	CIAL CONDITIONS, if a	any:					
SMOKE SEN	ISITIVE AREAS	MILES FROM BURN		ON FROM BURN irection or degrees)	MAIN CONCERN(S) Day=D, Night=N, Both=B		
US Highway 287		2		NE	D		
Co Rd 46E		1.5		Е	D		
Tie Siding, WY		10		N	D		
			Permit I	Number: FCS	05 325		

Form SMP-A, cont. OPEN BURNING PERMIT APPLICATION PRESCRIBED FIRE PROJECTS

for BROADCAST BURNS of	nly:				
PROPOSED BURN DATES: Month or season is sufficient, but of	lates must be	in the same caler	ndar year		
MAX. TOTAL ACREAGE:		AND MAX	K. DAILY ACR	EAGE:	
PREDOMINANT NFDRS FUEL MODEL: Models A-U (See Info Sheet II for	0	RIEF DESCRIP F FUELS: on.)	TION		
IGNITION METHOD(S):	HAND	ONLY	AERIA	L ONLY	вотн
SMOKE RISK RATING: Attach (For Cat				SMP-B lofted and drainage	smoke flow.
Category I	Categ	ory II	Category	III Categ	gory IV
FUEL MOISTURE PRESCRIPT This section to be completed for pr			noke Risk Ratin	g.	
			easurement M cate method to b	and the same of th	Minimum Fuel Moisture (%)
3-8" diameter logs (1000-hr fue	le)	Sampled			
3-6" diameter logs (1000-iii fue	15)	Calculated			
for PILE BURNS only: YEAR REQUESTING PERMIT Permits for pile burns will be valid fi. Submittal of Form SMP-B and mod specific projects. TOTAL NUMBER OF PILES:	rom January Jeling output v	1 to December 31 with the application	n packet are no		CD may request modeling for
DAILY NUMBER OF DUES: 12					
1000-hr+ FUEL AS % OF VOLUME: 30 Can round to the nearest 10%, % of logs >3" in diameter.					
HAND PILES: OR MACHINE PILES: X Built entirely or partly by machine.					
DISTANCE TO NEAREST OCCUPIED RESIDENCE: 1.1 Provide whole miles if distance ≥2, tenths if less.					
Applicant Signature:	/s/ Boyd	O. Lebeda		-	Date: October 31, 2005
Summary Conditions: Maxin	mum Smoke D	Dispersion Exce	standard llent	Minimum Smoke D	ispersion Fair
N	Minimum Wind	Direction Any		Maximum Wind	Direction Any (Clockwise)
Approved by Colorado APCD:	1 She	Date:	e: <u>31</u>	Oct 05 No	ermit umber: <u>FCS · 05</u> 325
Form SMP-A Colorado Air Pollution Control Divis	ion End	rignition in	clater the	un 3 hrs between 2	re survet: hrs before survet.

Form SMP-C EVALUATION OF NON-BURNING FUEL TREATMENTS AND SMOKE MITIGATION TECHNIQUES USED

Burn name: Georges Gulch

No Che	n-Bu	rning Fuel Treatments	Utilized:					
X Burn is part of a project that includes non-burning fue fuel treatments utilized:				n-burning fuel treatme	ents. Alternative			
		Grazing	(10000000000000000000000000000000000000	Invasive/Exotic Specie	es Management			
		Other Biological Control e	Other Biological Control except grazing (green stripping, methods to increase decomposition					
	X	Timber Sale		Mechanical Treatment				
		Firewood Sales		Other				
X	Non-burning fuel treatments were considered and are not available to meet resource objectives because:							
		Legislative/management re	strictions	Safety Concerns	S			
	X	Fuel has no commercial va	lue	Access/physical	barriers			
	X	Not Economically Reasona	bly	Other				
Smoke and/or Emissions Minimization Techniques Planned: Check all that apply								
		Burn before greenup	Burn b	pefore large fuels cure (ac	tivity fuel only)			
		Reduce target area	Cons	truct fire lines to halt fire s	pread			
		Rapid Mop-Up	Mete	orological scheduling to re	duce smoke impacts			
	_X	Burn fuels in piles or winds	Burn fuels in piles or windrows					
	_X	Piles dry, free of dirt, and	Piles dry, free of dirt, and small enough to manage smoke impacts					
		High fuel moisture content in large woody fuels minimizes consumption of large fuels						
		Moist litter/duff layer minimizes consumption of litter/duff						

Smoke a	nd/or Emissions Minimization Techniques Planned:						
Continued	Firing technique used to maximize smoke dispersal and minimize pollutants						
-							
Hose lays & pumps to wet fuels and extinguish all or a portion of fire front							
-	Other						
Smoke C	ontingency Plan:						
This section	must answer two questions:						
2) If una	actions will be taken in order to minimize the likelihood of unacceptable smoke impacts? acceptable smoke impacts occur at smoke sensitive receptors anyway, what mitigation measures will be taken? acke Contingency Plan may be attached as a separate document.)						
	smoke production and dispersal of test burn						
	piles in small groups						
	oup of piles will be monitored						
	5 plus years old						
	e already made contact with nearest resident (Forest Moen) about the project						
6. Individu	al piles may be extinguished and mopped up if directed by the burn boss						

Form SMP-F ANNUAL ACTUAL FIRE ACTIVITY

Summary of all fire activity for the year. In addition to this report, Category II, III and IV projects will have submitted Daily Activity Reports as burning was completed.

PERMIT NUMBER:	FCS-05-325 B	URN NAME: Georg	es Gulch Piles				
NO FIRE ACTIVITY AT THIS LOCATION DURING PERMIT PERIOD Check if no burning, sign below and return form by March 1 st .							
List of Burn Dates:	-		_				
If additional space needed,	attach a list of burn dates.						
FOR BROADCAST B	URNS						
ACTUAL ACRE	EAGE:	Total acres for project. Forms (Form SMP-E).	Must equal sum of Daily Activity				
FUEL TYPES	PERCENT OF ACTUAL ACREAGE (must total 100%)	FUEL LOADING (tons/acre)	PERCENT CONSUMPTION				
GRASS							
SAGEBRUSH							
OAKBRUSH or ASPEN							
PINE/CONIFER							
PINON/JUNIPER							
OTHER							
FOR PILE BURNS FUEL TYPES (Check all that are applicable)		NUMBER OF	PILES:				
SAGEBRUSH OAKBRUSH or	_						
ASPEN PINE/CONIFER	AVERAGE VOLUME PER PILE(FT³):						
PINON/JUNIPER	AVERAGE % CONSUMED:						
PILED SLASH							
OTHER							
PRINT NAME: Boydo.	Lebe da SIGNATURE:	By do Liberta	DATE: 2/17/06				

