

WILDFIRE MITIGATION PLAN



Docket SPR- # 04-004

Inspection date: 3/2/2004

Knowledge to Go Places

Prepared for:

Stacy & Angela Smith
851 S. Beaver Creek Rd.
Golden, CO 80403
Phone: 303-642-7303

Prepared by:

Cory Secher - Forester
Boulder District
Phone: (303) 823-5774
E-mail: csecher@lamar.colostate.edu

Boulder District
5625 Ute Highway
Longmont, Colorado 80503-9130
(303) 823-5774

SITE LOCATION AND PROPERTY DESCRIPTION

The property is located at 1729 Gold Lake Road, Ward CO. Access to the property is from Highway 72 South of Ward turn East on Gold Lake Rd (CR102) and continue about 1 mile and drive is on left. The legal description is Section 33, Township 2N, and Range 72W President lode mining claim. The fire protection district is the Indian Peaks fire protection district (303-459-3452). There will be 1 structure located on site; a Residence with a attached garage. The lot is 5 acres in size and has a ~0-8% percent slope with a West and East aspect. It is at 8,755 feet in elevation. The proposed building site is in a saddle(W-E) and midslope (N-S) and it is a fairly moist site. There are no natural barriers that may help stop or slow the spread of a surface/crown fire on the site.

The site has a dominant overstory consisting of Ponderosa pine and Lodgepole pine with a Lodgepole pine and Limber pine understory component. The area is predominantly fuel model 9 with an understory consisting of shrubs and low levels of slash. Fuel model 9 is represented by a closed canopy of Ponderosa pine and mixed conifer. Understory may consist of small trees and shrubs, grasses, and moderate concentrations of down, dead woody litter. High amounts of needle litter can exist. There is no sign of any current insect and disease problems on the property at the time of inspection.

CONSTRUCTION DESIGN AND MATERIALS

The proposed house has a relatively simple design with a simple roofline and is oriented with a Northern aspect. The roofing material will consist of asphalt shingles. The exterior wall material is to be cement board. Soffits are to be 3/4" thick hardboard.

There are 19 medium sized windows with the primary viewing direction being on the Northern side of the structure. Windows will be double glazed with low e-coated tempered glass with frames made of vinyl. Exterior doors are to be 1-3/4", fire-rated, and made of steel.

The propane tank will be located 50 feet East of garage and will be set on a pad of crushed rock overlaying a fiberglass weedbarrier., and be at the same elevation as the house.

DEFENSIBLE SPACE ZONES

There are three defensible space zones to be created around the structure(s) on the site.

Zone 1 - Starts at the foundation and extends out 15 feet in all directions from the outside edge of the structure(s). Zone 1 is broken down into three segments:

Zone 1A - Consists of the structure(s) themselves and the area immediately adjacent to and surrounding the structure(s) on all sides. A three-foot wide, non-flammable strip will be created using existing mining tallus overlayed by decorative stone over a weed barrier material. This strip will also extend back under, and out to, two feet past the drip line of any decks.

Zone 1B - Extends out from Zone 1A. In this zone, all highly flammable vegetation is to be removed. Any large dead woody material on the ground will also be removed. Firewise plants will be used for landscaping and re-vegetation. Grasses will be irrigated when possible and mowed to a maximum height of 6 to 8 inches.

Zone 1C - This zone extends out from Zone 1B to 15 feet from the house. All understory trees (ladder fuels) will be removed as marked. These are small seedling and sapling size trees that can be ladders for fire to get in the crowns of the larger trees. A few of the larger, healthy trees are to be retained for screening. All remaining trees in this zone will be pruned to a height of 10 feet. They must be well spaced so that the crowns are not touching (10 foot crown spacing). No trees will overhang the house or decks. Trees should be at least 15 feet away from the house on all side.

Zone 2 - This zone extends out from Zone 1C, and acts as a transition zone between the heavily thinned areas near the house to the existing forest setting. It extends down slope between 100-170 feet depending upon slope steepness. Zone 2 also extends on either side of the structure a minimum of 100 feet and behind the house between 70-100 feet assuming no boundary restrictions. Tree spacing begins as in Zone 1C and gradually decreases as you approach the outer edge of the zone. Thinning and crown spacing becomes greater in areas of steep slopes. Ladder fuels and poor quality, suppressed and/or diseased trees, 6 to 8 inches in diameter, make up the majority of the removals. The remaining mature trees will be pruned to a height of 10 feet at the intersection of Zones 1 and 2 with limbing reduced in height to 6 feet as you approach Zone 3. If there are any questions pertaining to slope and the changes in thinning spacing and distance regulations please refer to www.colostate.edu/Depts/CSFS/ and find the *Quick Facts 6.302 Creating Wildfire Defensible Space*.

Zone 3 - This zone extends out from Zone 2 to the edge of the property. It may extend out to areas that are not part of the immediate mitigation efforts. In this zone, a few thicker clumps of trees are acceptable, as well as some unpruned trees near the outer edge. Thinning in this zone adds some protection, but is aimed more at forest health. Trees that are of poor quality or form, or have insect or disease infestations, should be removed. Slash in this zone can be lopped and scattered and/or piled for wildlife use.

- Thin suppressed trees and trees with disease and insect infestations and retain the larger, healthier trees.
- Snags should be retained for wildlife.
- Some slash in this zone can be lopped and scattered and/or piled for wildlife enhancement and shelter.
- Large amounts of slash should be disposed of by chipping, hauling to an approved site, or burning.
- For burning permits, check with your local fire protection district.

EMERGENCY ACCESS

The proposed driveway will create some additional site disturbance and soil compaction and will require the removal of many trees. The driveway is to be 20 feet wide with a vertical clearance of 13'6" and a grade of less than 12%. The driveway is approximately 1,200 feet long therefore 3 pull offs and 1 hammerhead will be installed (see plan for details).

WATER SUPPLY / UTILITIES / SEPTIC FIELD

The water source will be from a Well is located 25 feet to the West of the residence. There will also be a 1,800 gallon cistern on site located 50 feet south of the residence. Vegetation within 10 feet of the well, cistern, and propane tank will be kept cleared. Utilities for the property will be buried in a trench about 75 feet from an existing above ground line located South of structure on driveway. The septic field is located 100 feet to the East of garage.

MAINTENANCE AND RECOMMENDATIONS

As detailed in fact sheet 6.302, *Creating Wildfire Defensible Zones*, an important factor that determines a structure's ability to survive wildfire is defensible space. Defensible space is a maintained area around a structure where fuels (flammable materials) are modified to slow the possible spread of wildfire to the structure, as well as from the structure to the surrounding areas. Defensible space provides a place where structure protection and fire suppression operations may occur. Wildfire hazard mitigation work breaks up fuel continuity, potentially decreasing a wildfire's intensity, and for more effectiveness should be completed beyond a home's defensible space area.

All trees to be removed are marked with blue spray paint. All trees that are to remain within zones 1 and 2 will be unmarked. The boundaries for zones 1 and 2 will be marked with red flagging. If the property is less than 1 acre it may not have zones marked due to boundary interference. Harvested wood that remains on site will be stacked at least 30 feet from the house. Slash from the harvest will be burned and chipped. Note that before burning piles, you must obtain a valid Open Burning Permit from the Boulder County Environmental Health Department and notify your local Fire Protection District (Indian Peaks fire protection district (303-459-3452)).

In addition to the above recommendations, several other measures can be taken to make your home more fire safe and add an additional measure of safety for your family. While not required through site plan review, the following measures should be undertaken to maintain the home and defensible space in the future.

- Maintain your defensible space yearly; contact your local forester for a 5-year maintenance inspection
- Keep firewood at least 30 feet away from buildings; clear weeds and grass from around pile
- When possible, maintain an irrigated green space; mow grasses 6" to 8" high
- Connect, and have available, a minimum of 50 feet of garden hose with an adjustable nozzle
- Be aware of fire danger; fire danger signs are posted at the entrance of most major canyons
- Keep driveways and property address marked with visible signage
- Check the screens on foundations, soffit vents, roof vents, and attic openings
- Get rid of unnecessary accumulations of debris and trash from yards

- Clean debris from the roof and gutters at least two times a year
- Check screens and maintain spark arresters on chimneys
- Check to make sure address markers are clearly visible
- Avoid storing combustibles under decks

DEFINITIONS

Aspect – Exposure. The direction a slope faces.

Canopy – The cover of branches and foliage formed collectively by crowns of adjacent trees.

Crown – Branches and foliage of a tree.

Dominant fuel type – Matter that would carry a fire, found on the ground.

Fuel continuity – The proximity of fuels to each other. Helps determine if a fire can sustain itself.

Limb (verb) – To remove the branches from a tree.

Overstory – The tree species that forms the uppermost forest layer (dominant and co-dominant).

Snag – Standing dead tree, often used by wildlife such as woodpeckers, owls, and sometimes squirrels.

Wildfire mitigation plan – A plan to reduce wildfire hazards around a home or other structure through fuels reduction and landowner awareness.



Knowledge to Go Places

March 4, 2004

Stacy & Angela Smith
851 S. Beaver Creek Rd.
Golden, CO 80403

Boulder District
5625 Ute Highway
Longmont, Colorado 80503-9130
(303) 823-5774

Dear Stacy & Angela Smith,

Upon your request the Colorado State Forest Service has completed your Wildfire Mitigation Plan per Boulder County Land Use regulations for your property located at 1729 Gold Lake Road, Ward CO. We have submitted a copy of this plan to the Land Use Department, Mr. Eric Philips.

The next step in this process is to have all trees marked by the State Forest Service with blue spray paint removed from your building site. Trees that do not have blue marking on them should be pruned 6-10 feet from base of tree. Once trees have been removed and pruned please call for an appointment of inspection. Either Boulder County Land Use or the Colorado State Forest Service must inspect all Site Plan Review properties before final plan approval is granted.

We have enclosed an invoice for our services and would like payment within one month of the date it was written.

We thank you for your compliance and look forward to assisting you in the future. If you have any questions regarding the Site Plan Review process please contact Eric Philips at 303-441-3930 or if you have question regarding the Wildfire Mitigation plan or forest health please call Cory Secher at 303-823-5774.

Sincerely,

A handwritten signature in dark ink, appearing to read "Cory Secher". The signature is fluid and cursive, written over a light background.

Cory Secher
Forester



Knowledge to Go Places

March 4, 2004

Eric Philips
Boulder County Land Use Department
P.O. Box 471
Boulder, CO 80306

Boulder District
5625 Ute Highway
Longmont, Colorado 80503-9130
(303) 823-5774

Hey Eric,

Enclosed is a copy of SPR # 04-004, for the Stacy & Angela Smith property. The property address is 1729 Gold Lake Road, Ward CO. My initial inspection was on 3/2/2004.

Stacy & Angela Smith plans on building 1 structure(s) including a Residence with a attached garage. The contact number is 303-642-7303. Stacy & Angela Smith has been informed to contact me for the final inspection once the work has been completed.

If you have any questions, please contact me at 303-823-5774.

Sincerely,

A handwritten signature in black ink, appearing to read "Cory Secher". The signature is fluid and cursive, with a long horizontal stroke at the end.

Cory Secher
Forester

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CSFS BODIST

PAGE 01

SITE PLAN REVIEW
FIELD DATA FORM

Inspection Date: 3-2-2004

Landowner name: Stacy & Angela Smith

Mailing address: 851 S. Beaver Crk. Rd.

City, State, Zip: Golden, CO 80403

Site address: 1729 Gold Lake Rd., Ward, CO

Phone number: 303-642-7303

Road access: Gold Lake Road (Name of access road)

Docket Number: SPR-04-004 (SPR, LU, Etc.)

Section: 33

Township: T2N

Range: R72W

Legal Discription: President Lode Mining Claim

FPD: Indian Peaks.

CSFS Dominant fuel type: _____ (Grass/forbs/shrubs/slash/etc)

Dominant overstory: Ponderosa / Lodgepole

Co-dominant overstory: Lodgepole / Lumber Pine.

Fuel model type: 93

Slash disposal: Burned (Chipped/hailed/burned/lop-scatter)

Aspect: W + E (Direction of slope)

Slope: 0-10%

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CSFS BODIST

PAGE 02

E

Red - One ~ 20' wide

Elevation:

8,755

(feet)

Building site:

(Chimney/saddle/valley/ridge/mid-slope)

Site moisture:

moist

Natural fire barrier:

None

Insect & Disease Diagnosis:

None noted

Lot size (acres):

5

(Acres)

Number of Structures:

1

Type of Structures:

House w/ attached Garage

(House/barn/garage)

Driveway length:

~1,200

(< > 150 ft. OR < > 400 ft)

3 pull off
1 Hammerhead

Driveway trees removed:

few

(few/many)

Home buffer material:

existing talus as base/Decorative Stone

House design:

Simple

(simple/complex)

Roof Design:

Simple

(simple/complex)

Roof material:

Asphalt Shingles

(Asphalt shingles/concrete tiles/metal)

Soffit type:

Plywood

(Plywood/hardboard/cement board)

Siding material:

Cement Board

(Cement/hardboard/log/stucco/stone/wood)

Windows (#):

19North side2 Southern exposure
medium 6x3

Windows Size:

Med

(small/medium/large)

Windows Frames:

Vinyl

(Wood/aluminum/aluminum clad)

Windows Aspect:

Most view North(8)

(Viewing direction)

Window Construction:

Low E

(Tempered glass/e-coating)

Door Material:

Steel

(Wood/steel/fiberglass/composit)

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CSFS BODIST

PAGE 03

Deck material: N/A (Wood/composite materials)

Deck Description: N/A (Enclosed/open)

Deck support type: N/A (Timber posts/logs/steel/concrete/stone)

Deck buffer material: N/A (Crushed rock/gravel)

Deck weed barrier: N/A (Fiberglass/polyester)

Structure SQR. FT.: 3,133

Utility Location: 75' Approx (Pole Xft from house/buried in trench)

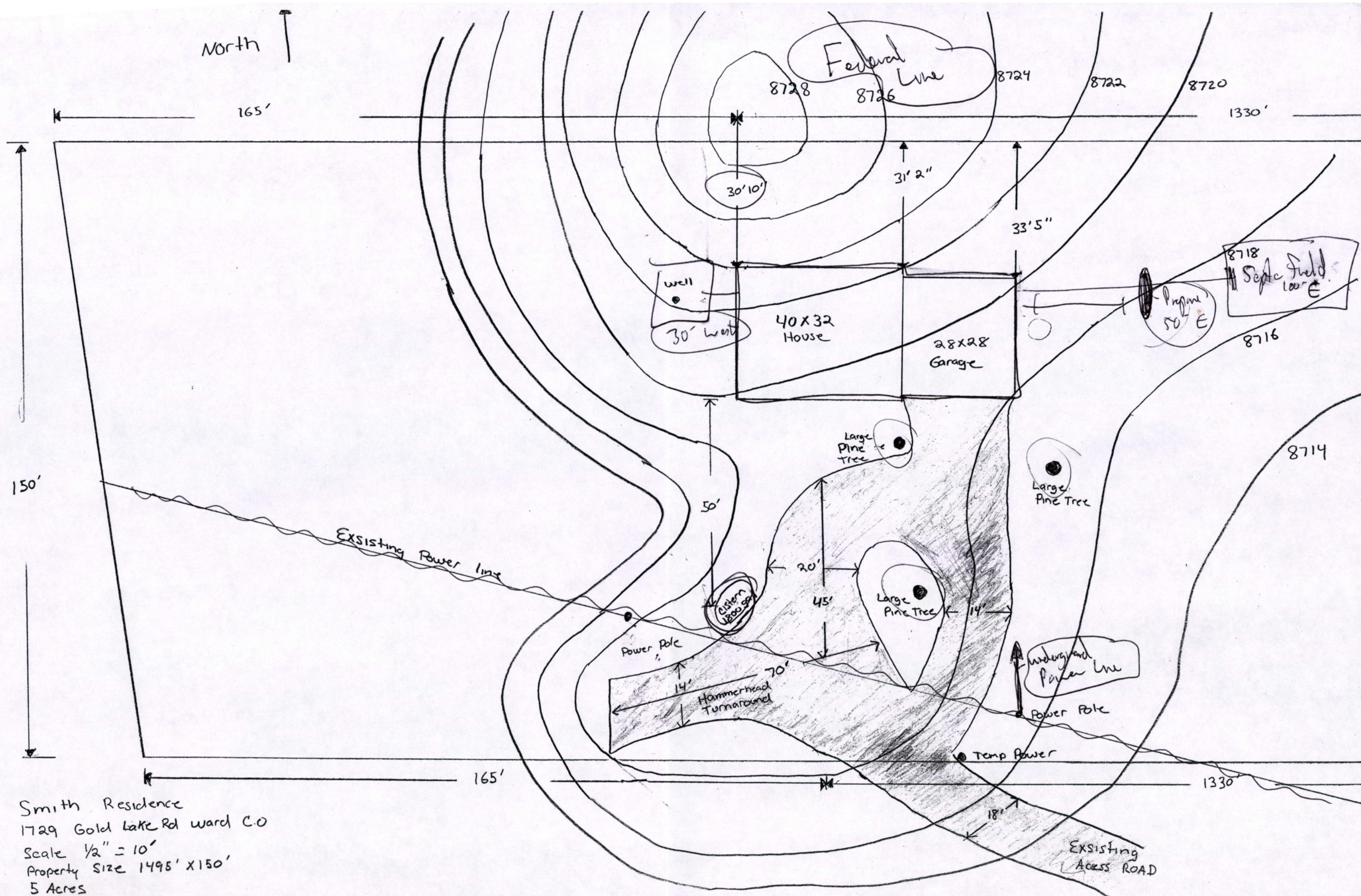
Structure aspect: South - Front of house (Predominant facing direction - view)

Leech field: >100' septic (Distance from house, propane, septic NSEW)

Cistern or Well: well - 20'
Cistern - 50-75' (Distance from house, propane, septic NSEW)

Cistern size: 1,800 (gallons)

Propane Tank location: ~50' GarL. (Level w/house & >50ft from cistern)



Smith Residence
1729 Gold Lake Rd Ward C.O
Scale 1/2" = 10'
Property Size 1495' x 150'
5 Acres

\$250.00



Boulder District
5625 Ute Highway
Longmont, CO 80503
(303) 823-5774
(303) 823-5768 fax

Name: Angela Smith
Address: 851 S. Beaver Creek Rd.
Golden, CO 80403

Phone: 303-642-7303
Appointment Date: 3-2-04 ; 2:00 p.m.

- SPR ☒ Defensible Space
- ☐ Fire Mitigation
- ☐ Insect and Disease Control
- ☐ Interested Neighbors
- ☐ Acreage/Size: _____

Directions: Peak-Peak → Gold Lake Rd. → 1st Right CR102
(CR100) ↳ to Gold Lake Resort.

• 3 miles from 72

Driveway on Left

Comments: 1729 Gold Lake Rd.