

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of Applicant Stephen H. and Patricia J. Knowlton Phone 208-633-3107
Mailing address 1700 Johnson Creek Cascade ID 83611
2. Source of water supply Spring fed Streams which is a tributary of Johnson Creek
3. Location of point of diversion is Township 18N Range 8E Sec. 32, in the NE $\frac{1}{4}$,
NN $\frac{1}{4}$, Govt. Lot _____, B.M., Valley County;
additional points of diversion if any: _____

4. Water will be used for the following purposes:

Amount .12 cfs for irrigation purposes from Jun 1 to Sep 30 (both dates inclusive)
(cfs or acre-feet per annum)

Amount .02 cfs for Pond Stock purposes from JAN 1 to Dec 31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated is (a) .14 cfs and/or (b) _____
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Describe type and size of devices used to divert water from the source 6" pipe in stream for irrigation
and 4" pipe in stream for pond stock watering

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet

c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet

d. Is ground water with a temperature of greater than 85°F being sought? _____

e. If well is already drilled, when? _____; Drilling firm _____;
Well was drilled for (well owner) _____; Drilling Permit No. _____

7. Time required for completion of works and application of water to proposed beneficial use is 3 years (minimum 1 year)

8. Description of proposed uses (if irrigation only, go to item 9):

- a. Hydropower; show total feet of head and proposed capacity in KW. _____
- b. Stockwatering; list number and kind of livestock. Occasional use for 4-6 horses
- c. Municipal; show name of municipality. _____
- d. Domestic; show number of households. one household plus 6 acres to be irrigated
- e. Other; describe fully. Supply water to a small pond to be
used for livestock watering in 8-b above

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JUL 20 2006

WATER RESOURCES
WESTERN REGION

9. Description of place of use:

- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
18N	8E	32	5/2																5 1/2
			D																
18N	8E	32	3/4																3/4
			S																
																			6.2

Total number of acres to be irrigated 6.2

10. Describe any other water rights used for the same purposes as described above. there is a well that supplies drinking water and other household water

11. a. Who owns the property at the point of diversion? (x)

b. Who owns the land to be irrigated or place of use?

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: the small (unnamed) stream south of or property

12. Remarks: pondy starts in Boise Natl Forest. there are no other users of this water. we are told that this stream dries up in mid summer when we have very dry years. if this happens - we can water the livestock in Johnson Creek.

13. MAP OF PROPOSED PROJECT REQUIRED - Attach an 8 1/2"x11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. (A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.)

BE IT KNOWN that the undersigned hereby makes this application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Stephen H. Knowlton Stephen H. Knowlton
Patricia J. Knowlton Patricia J. Knowlton
 Signature of Applicant (and title, if applicable)

Received by AMB Date 7/14/06 Time _____ Preliminary check by _____
 Fee \$ 00.00 Received by AMB # 6081675 Date 7-14-06
 Publication prepared by _____ Date _____ Published in _____
 Publication approved _____ Date _____

(*) We own the property where the irrigation water would be diverted from Lemmon Creek
 Boise Natl Forest owns the property where the pond and livestock water would be diverted from - just south of or property line.

Knowlton Property Forest Management Plan

For

**Steve & Patti Knowlton
16421 Lake Loop
Austin, TX 78734**

June 28, 2006

Prepared by:



KEN J. POSTMA

Forest Engineer B.S., F.E.



**CABIN CREEK ENTERPRISES, L.L.C.
Post Office Box 1000
Cascade, Idaho 83611
(208) 630-3323**

SECTION 1 – BACKGROUND INFORMATION

The current landowners are Steve and Patti Knowlton. They acquired this parcel in November of 2005. This parcel was a part of the Wapiti ranch, formerly the Cox ranch.

- LEGAL DESCRIPTION:** Parcel Number RP18N08E322407, Located in the NE1/4, NW ¼. Section 32, T.18N, R.8E. BM., Valley County, Idaho.
- ACREAGE:** Total 24.96 acres in parcel minus 1.75 acre for home site. Net 23.21 acres.
- OWNERSHIP CATEGORY:** Private individual
- TOPOGRAPHY:** Topographic elevation is between 5050 and 5400 feet
- ASPECT:** The overall aspect for the tract is West Facing.
- ACCESS:** This parcel is located approximately 8 miles south of Yellow Pine on the East side of Johnson Creek. It is 55 miles from Cascade through Warm Lake and down Johnson Creek. See Vicinity Map Exhibit "A"
- EXISTING STAND CONDITION:** This 23 acre timbered tract is approximately 80% stocked with commercial or pre-commercial timber. The remaining 20% of the area is composed of slide rock openings or wetlands. The commercial timber is composed of 75% Douglas fir (*Pseudotsuga Menziesii*), 10% Ponderosa Pine (*Pinus Ponderosa*), and the remaining 15% of Lodgepole Pine (*Pinus Contorta*) and *Picea Engelmannii* (Engelmann Spruce). The stand is uneven aged with the majority of trees in two classes. mature overstory and pre-commercial.
- COMMERCIAL TIMBER:** There is commercial sized timber in all of the species present on the parcel. The largest components of commercial timber by volume are the intermediate Douglas fir, Ponderosa Pine and averaging 14 to 20 dbh and over 100 years old. There are approximately 3 trees per acre contributing approximately 2mbf/acre. Basal Area (BA) for this class is 10-15. A slightly smaller merchantable component is made up of the smaller trees, mostly Lodgepole pine, averaging 20 trees per acre, 8 to 14 inches dbh, with a BA of 35 to 50.

**PRE-COMMERCIAL
TIMBER:**

This component of the timber stand consists of pre-merchantable seedlings, and saplings. Saplings range from 1 to 6 inches dbh, and up to 20 ft in height. The seedlings are abundant, and are all natural regeneration ranging from 20 per acre within the understory to over 400 per acre in the open, recently disturbed areas.

FOREST HEALTH:

Overall, the health of this forest is generally good. Stands spacing is variable, ranging from too thick to too wide due to the commercial prescription from the last commercial thinning wherein most of the largest overstory trees were removed. About 75% Douglas fir and all but the oldest of the Ponderosa pine have the pointed, full crowns evident of healthy, vigorous, disease resistant trees. There is some crowding in the sapling/pole class. These trees are exhibiting signs of slight amount of stress. There is some evidence of insect infestations and snow damage.

SOILS:

The soils for this area have not been surveyed by the NRCS as yet, so similar soil types have been used as comparables. This parcel has two distinct soil types with the largest area being identified as similar to Pyle-Koppes Complex, 40-6% slopes (19 acres). A smaller area of Donnel Sandy Loam, 2-4% slopes, (5 Acres), exists on the West side of the property along Johnson Creek. See Exhibit "B". Studies have shown that there is a direct relationship between soil types and forest productivity. Generally accepted values for potential growth and yield for timber growing in these types of soils were used in conjunction with habitat type to estimate overall potential stand productivity.

HABITAT TYPES:

Habitat typing is a way to classify land areas. An individual habitat type is a contiguous land area that can support certain tree and undergrowth species vegetation at the climax condition. These tend to have a direct relation to soil type and aspect. Habitat types can indicate the biological potential of a site. This small tract has two distinct habitat types. The West 1/3 of the tract is ABLA/LIBO, subalpine fir/beargrass phase. The East 2/3 is PSME/CAGE, Douglas Fir/elk sage. Generally accepted values for yield by timber species for these habitat types were used in conjunction with the

Soil type information to estimate overall potential stand productivity. See Exhibit "C"

- WATER:** This tract is directly adjacent to Johnson Creek, a Class I tributary to the South Fork of the Salmon River.
- WETLANDS:** The West side of the property from the river to the base of the slope is composed of wet areas with some intermittent standing water.
- ARCHAEOLOGICAL, CULTURAL AND HISTORICAL SITES:** There are no known sites on this property.
- WILDLIFE:** This land does support small and big game species such as, but not limited to, deer, elk, bear, and cougar.
- THREATENED AND ENDANGERED SPECIES:** There are no threatened or endangered species known to inhabit this property.
- RANGE:** The lower West part of this property had been grazed in the past by horses. Currently, the property is not being grazed.
- AESTHETIC QUALITY:** This is an important aspect of this property. The property has stunning Western views of the valley floor, the river and mountains beyond.
- TIMBER HISTORY:** This parcel was harvested by helicopter soon after the Thunderbolt Forest Service fire which occurred in 1994. Columbia helicopter was the contractor and the logs went to sawmills in Cascade and Emmett, ID. Only the larger overstory Pine and Douglas fir were harvested. Prior to that, there is no indication of harvest activities ever occurring on the site, probably due to slope.
- FIRE PROTECTION:** Fire protection is assumed to be provided by the Boise and Payette National Forests.

SECTION 2 – MANAGEMENT PLAN

TIMBER MANAGEMENT OBJECTIVE: This property will be managed for the commercially desired species of Ponderosa pine, Douglas fir, Engelmann Spruce and Lodgepole pine.

GROWTH & YEILD: The habitat type, soil type and stand composition indicate that his timber stand is capable of producing on average, between 250 and 300 board feet per acre per year.

**COMMERCIAL
HARVEST:**

About 80% of this parcel was harvested after the 1994 Thunderbolt fire. The harvest prescription at that time was an overstory removal, economic thinning. Most of the old-growth overstory timber was removed and the stand now consists of a few overstory trees, and the remaining intermediate and understory trees. The timber occupying the steep Eastern side of the parcel would require relatively expensive helicopter or downhill skyline logging systems. The flatter areas adjacent to the road could be effectively harvested with ground skidding equipment. The remote location of this site and the loss of the Cascade sawmill has reduced the stumpage values in this area. Market conditions will affect the owner's ability to sell timber from this site, but silvicultural practices can still be accomplished. Management of the stand within the next 10-15 years will be focused on maintenance activities. The removal of the dead and dying trees and commercial and pre-commercial thinning to be done in the thickest areas. Products will be used as firewood or sold on the open market as the opportunities arise. Light thinnings of thickets will provide increased growth on the best trees by reducing the competition for sunlight, space and water as well as reducing the risk of insect infestations.

**PRE-COMMERCIAL
THINNING:**

The areas in need of pre-commercial thinning are small and scattered. The owner will probably thin these areas at his convenience.

PLANTING:

There are only very small areas which would benefit from artificial plantings. The majority of open areas have been reseeded naturally with either Lodgepole

pine, Douglas fir or Ponderosa pine from the existing adjacent trees.

SLASH:

MANAGEMENT:

Slash from any harvest activities will be piled and burn either mechanically or by hand. The owner is aware of the need for a green chain affect for insect management.

WILDLIFE

MANAGEMENT:

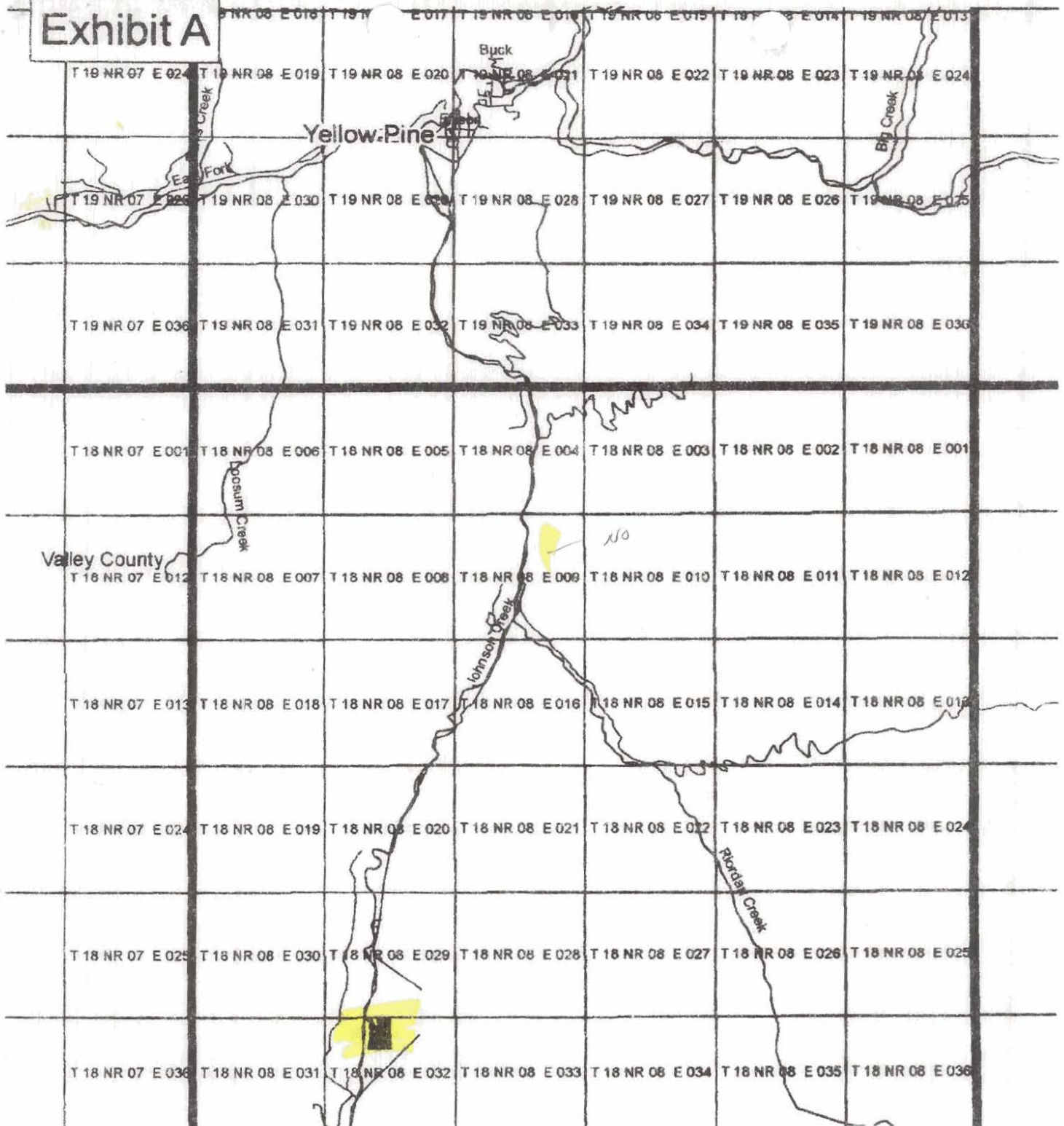
By sustaining a healthy forest using above practices, this timber stand will provide habitat, forage, and passage by numerous species of game and non-game species.

SECTION 3 – TIMELINE

2006 – 2020 - Maintain forest health by removal of dead and dying timber. Thinning from below to increase growth and reduce fire hazards.

2020 – 2050 – Continuous Salvage and Maintenance of timber stand.

Exhibit A



CABIN CREEK ENTERPRISES, LLC

2012/01/22

This map is for reference only
and is not for legal purposes.

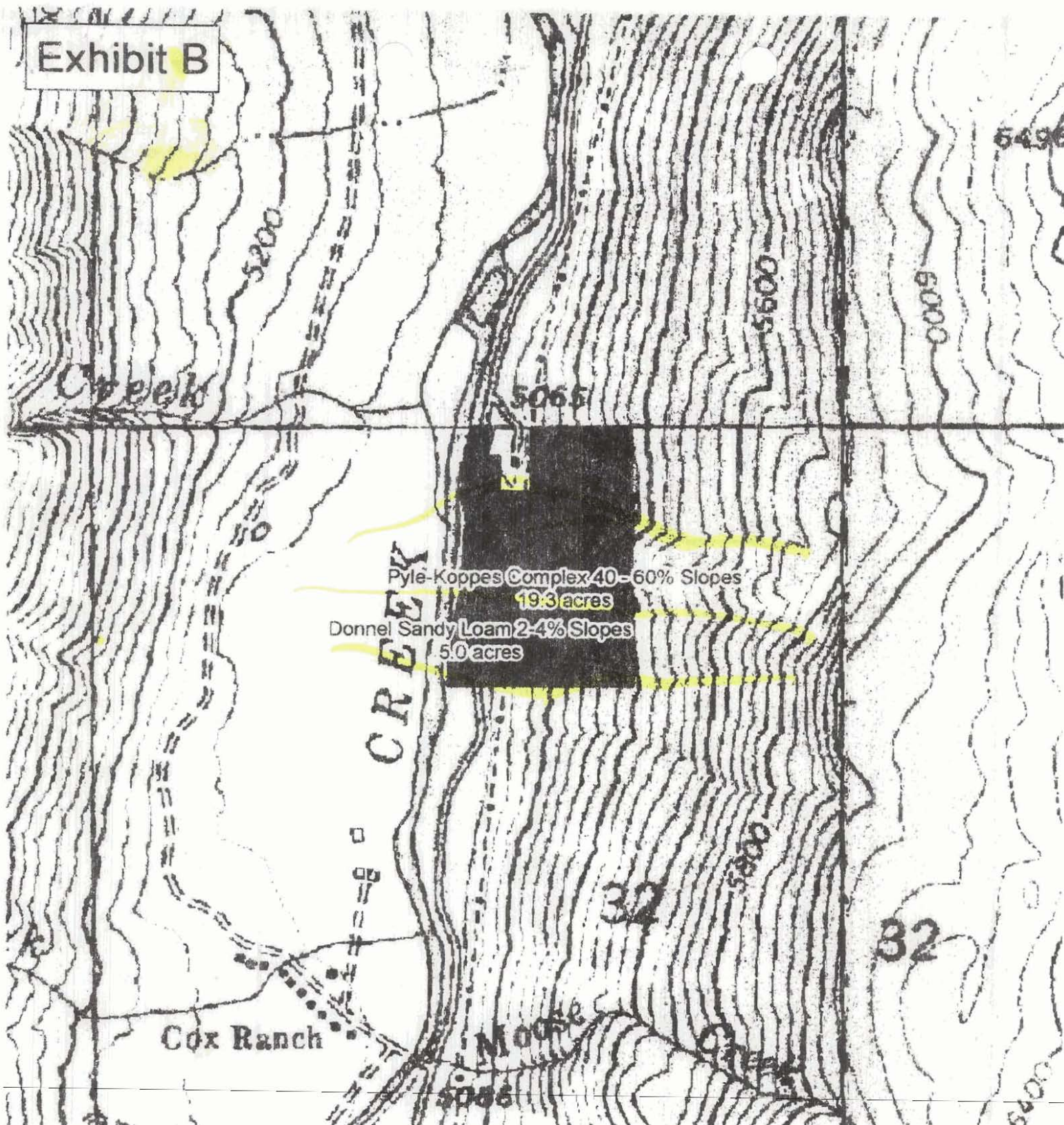
Knowlton Ownership

0 2,300 4,600 9,200 13,800 18,400 Feet



77-14234

Exhibit B



CABIN CREEK ENTERPRISES, LLC
2003121123

This map is for reference only
and should not be used for legal purposes.

Soils Name

- Donnel Sandy Loam 2-4% Slopes
- Pyle-Koppes Complex 40 - 60% Slopes

0 320 640 1,280 1,920 2,560 Feet

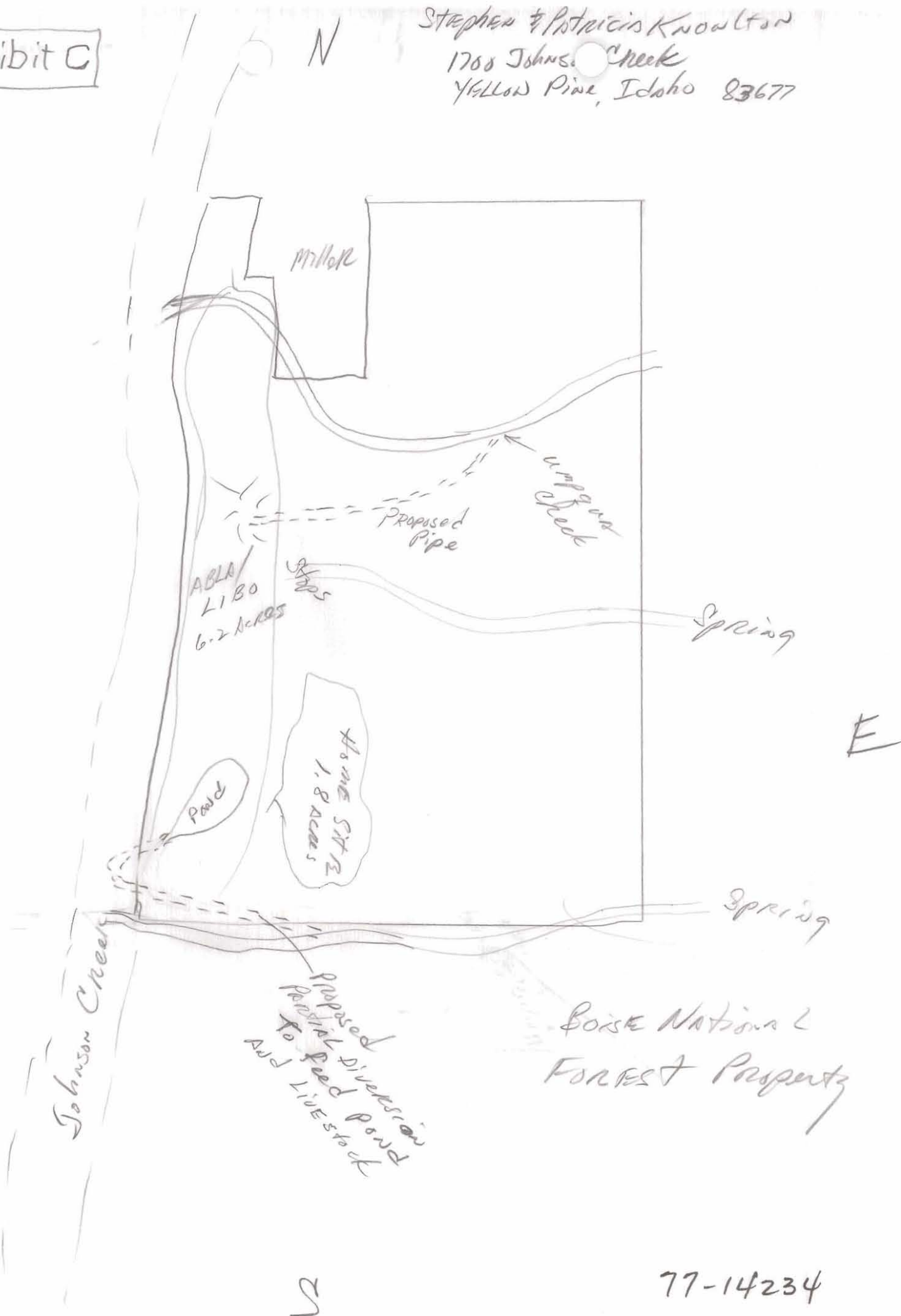


1:7,920

77-14234

Exhibit C

Stephen & Patricia Knowlton
1708 Johns Creek
Yellow Pine, Idaho 83677



Boise National
Forest Property

77-14234

Exhibit C

T 18 NR 08 E 029

Rock
0.6 acres

ABLA/LIBO
6.2 acres

PSME/CAGE
13.7 acres

Rock
2.1 acres

T 18 NR 08 E 032

HomeSite
1.8 acres

Habitat Type

- Douglas Fir/elk sage
- Subalpine fir/Beargrass phase
- HomeSite
- Rock

CABIN CREEK ENTERPRISES, LLC
200.315.1123

This map is for reference only
and not to be used for legal purposes.

0 100 200 400 600 800 Feet



1:2,500

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