ESTABLISHMENT REPORT

Casner Canyon Research Natural Area

Coconino National Forest

Coconino County, Arizona

July 29, 1969

MARRATIVE REPORT

a. Principal Distinguishing Features

The Casner Canyon Research Natural Area contains an almost pure stand of Arizona cypress. The trees vary in size from relatively small poles on the higher, steeper slopes to large in the canyon bottom. The area is used very little because of the lack of water and severe topography.

b. Location

The area is described as parts of secs. 3 and 4, T. 17 N., R. 6 E., G&SREM. It is some $2\frac{1}{2}$ miles northeast of Sedona, Arizona, within the Sedona Ranger District of the Coconino National Forest.

c. Area By Cover Types

The overall cover type is Arizona cypress (SAF 240). There is a small area of chaparral. The type is most nearly described by K-33 without the adenostoma. Because of the poor site, the manzanita and ceanothus are small and scattered. The types by area are as follows:

Arizona cypress	-	438	acres
chaparral	-	12	acres
Red rock	-	115	acres
Total	-	565	acres

d. Physical and Climatic Conditions

The topography is extremely rough with steep slopes and perpendicular cliffs for the most part. Much of the area has thin soil and rock outcroppings. Elevations range from approximately 4,500 feet to 5,800 feet above sea level. The drainage is all to the north into Casner Canyon which drains into Cak Creek and thence south into the Salt - Gila River complex. The climate is quite warm with summer temperatures to 105° F. Winter temperatures seldom reach 0° at any point on the unit and snow melts off quickly.

. Description of Values

The principal values for research are the stands of Arizona cypress which contain both the smooth and rough bark variety, and the red rock formation (G-17) (Supai sandstone). The soils are the reddish brown from the red rocks (S-24). The list of species observed at the time of the examination is attached in the appendix. At the higher elevations the average height and d.b.h. of the cypress and pinyon trees are 20' and 8" - 12", and 20' and 4" - 6", respectively. At the lower elevations, 70' and 24" - 28", and 30' and 8" - 14", respectively. The largest cypress noted was 65' in height and 36" d.b.h. The geology has been discussed to some extent above. As indicated, the soils are thin for the most part, runoff is rapid, and there is considerable erosion. Soil moisture is definitely a limiting factor in the growth of vegetation even though the slope is toward the north.

There are no known minerals. However, the entire Sedona area has been leased for oil and gas. Because of the steep topography, drilling in this area is not likely to occur, and because of the scenic character, the entire area is covered by special law which permits the Forest Supervisor to control exploration and extraction very carefully.

Recreation use is very light because there are no roads or trails within the unit. The Schnebly Hill Road skirts the southeast corner, but the terrain drops away from it sharply, and it is extremely difficult to return to the road if one leaves it.

The trail is located within the Sedona allotment. Grazing by domestic livestock is very light because of the lack of palatable forage and water. There appears to be little chance that this condition will change because of soil and moisture.

All the water from the area is Su face runoff and has been obligated down stream for many years. This condition is not likely to change.

There are no special uses or other foreseen conflicts with the proposed establishment.

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Cocomino Forest Supervisor

Director, Rocky Hountain Station

Regional Forester

Director, Div. of R2L WO

Deputy Chief, Research

By virtue of the authority vested in me by Regulation U-4 of the Regulations of the Secretary of Agriculture, I hereby designate as the Casner Canyon Research Natural Area the lands described in the preceding report by the Region 3 Research Natural Area Committee dated July 29, 1969; said lands shall hereafter be administered as a Research Natural Area, subject to the said Regulations and instructions thereunder.

Date

Chief, Forest Service

CASNER CANYON RESEARCH NATURAL AREA

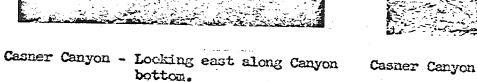
Appendix

Arizona cypress - Cupressus arizonica pinyon - Pinus edulis walnut - Juglaus major cottonwood - Populus fremontii villowleaf cottonwood - Populus angustifolia gray oak - Quercus grisea turbinella cak - Quercus turbinella Gambel cak - Quercus gembelii ash - Fraxinus lowellii villow - Salix lutea locust - Robinia necmexicana alligator juniper - Juniperus deppeana wafer ash - Ptelea trifoliata Carrya - Garrya flavescens Laurel - Rhus ovata desertvillov - Chilopsis linearis mountain mehogany - Cercocarpus montanus mistletce - Phoradendron bolleanum hawthorne - Crataegus erythropoda manzanita - Arctostaphylos patula ceenothus - Ceanothus greggii (probably) Arache plume - Fallugia paradoxa agave - Agave palmeri (probably) brittle brush - Encelia farinosa Oregon grape - Mahonia repens pricklypear - Opuntia engelmannii squayberry - Rhus trilobata Spanish-dagger - Yucca angustissina beargrass - Nolina microcarpa Seneico - Seneico sp. pea - Lathyrus arzonica snakeweed - Gutierregia sarothree red penstemon - Penstemon barbatus muhly - Muhlenbergia torreyi sidecats graza - Bouteloua curtipendula beardless bunchgrass - Blepharoneuron tricholepis

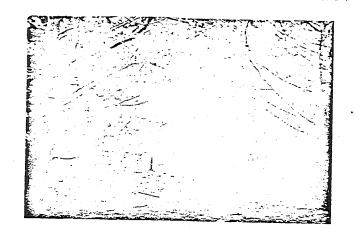


Casner Canyon cypress





Casher Canyon - Looking west toward Oak Creek.



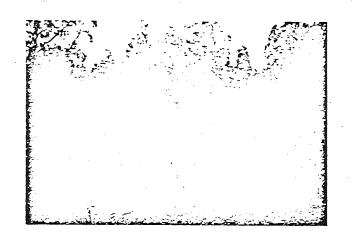
Casner Canyon - Young stand of Arizona cypress.



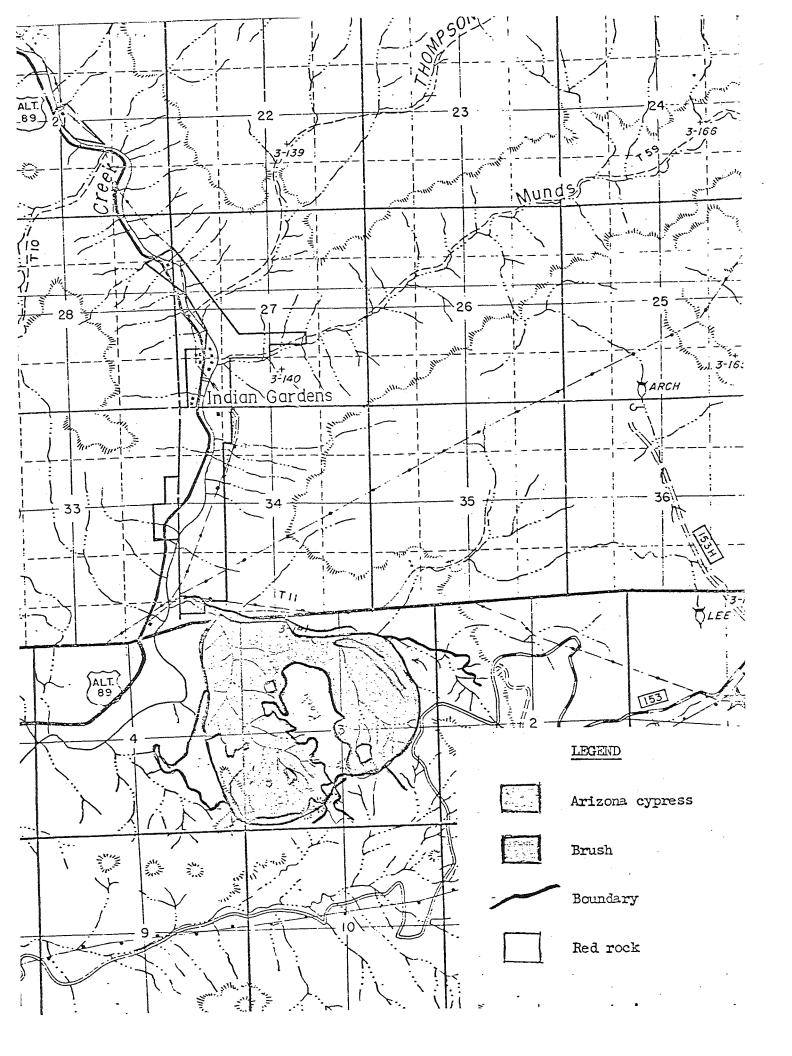
Casner Canyon - Old cypress in Canyon bottom.



Casner Canyon - A large, healthy cypress.



Casner Canyon - Manzanita and cypress on higher, rocky site.



4060 (5400)

MULTIPLE USE SURVEY REPORT

CASNER CANYON RESEARCH NATURAL AREA

COCONINO NATIONAL FOREST SEDONA RANGER DISTRICT REGION THREE

STAGE TWO

Date 1/10/78 Prepared by W. Eby, District Ranger Jay Date 30 11 Approval Recommended by Approval Recommended by Date Approved by_____ Date

1. Introduction and Description of Project

The proposal is to designate 565 acres of the Sedona Ranger District in Casner Canyon as a research natural area.

The area is described as parts of Sections 3 and 4, Township 17 North, Range 6 East. It is about 2¹ miles northeast of the community of Sedona. It lies within the Travel Influence Zone for the Schnebly Hill Road and Management Unit W-8 (Back Drop) in the Woodland Zone.

The entire area is National Forest System lands and is covered by the Oak Creek Canyon Scenic Area Withdrawal.

The area, as explained in the Establishment Report, is principally steep, rough, cypress-covered slopes. Because of its multiple use zoning, its extreme slopes, and almost complete absence of on-site use, this report may seem brief, although it is complete.

The maps and photographs that accompany the Establishment Report are quite accurate and descriptive.

2. Summary

Since this entire area is non-range, steep, thickly timbered, and within the Travel Influence Zone and Management Unit W-8 (Back Drop), there are no major impacts. Designation should only enhance the multiple use decisions for this area.

 Evaluation of Proposal on Related Forest Resources, Uses, and Activities

a. <u>Air</u>

No foreseeable impact.

b. Minerals

There is no known mineralization due to the Oak Creek Canyon Scenic Area Withdrawal; although the minerals would be located, the land could not be patented. There have been two separate claimants file on two series of claims below the area. Both claims were for common varieties and were successfully contested.

Oil and gas leasing is common in the area. Section 4 shows oil and gas lease application Λ -3096, and Section 3 shows lease

application A-3093. Both applications were withdrawn; however, at present they are again listed as available.

c. Natural Beauty

Natural beauty is the dominant resource in both the Travel Influence Zone and the Management Unit W-8. Designation should only strengthen the protection of this management direction.

d. Outdoor Recreation

There are no inventoried recreation sites within the area. Viewing the outstanding scenery is the prime activity and this use is off-site. The proposal would only strengthen this activity.

e. Range

The Establishment Report is in error--in that this area is within the Indian Gardens Allotment <u>not</u> the Sedona Allotment. Because of the steepness of slopes and dense timber, it is typed entirely as non-range types 7 and 8. There are no range facilities and no foreseeable potential for development.

f. Soils

The soils on the area are shallow. There is considerable erosion present. The steepness of the slopes precludes any major control work. Lack of disturbance should maintain the present condition.

g. Timber

The cover is primarily Arizona cypress. There is little demand for these trees and stands are extensive on the District. There has been no cutting within this stand for a number of years.

h. Water

All water on the unit is surface run-off and all this unit is within the Verde drainage. Due to the terrain and low potential for yield improvement, the designation would have no foreseeable affect on this resource.

i. Wilderness

No foreseeable effect.

j. Wildlife

There is little use of the area by wildlife except for cover. Due to the terrain and zoning, it is not likely that any improvement work would be planned.

k. Fire and Air

No foreseeable effect.

1. Insects and Disease

No foreseeable effect.

m. Landownership Adjustments

There is no base-for-exchange within the proposed area.

n. Land Uses

There are no permits presently within the area. None should be issued.

o. Transportation

The Schnebly Hill Road skirts the upper edge of the proposed area. This road may be widened or improved. Drainage from this road might affect the erosion pattern if not properly designed.

p. I&E

The local attitude is quite strong in favor of preservation of the area. There is little need for advanced publicity. A full explanation, upon signing, should be made to the press.

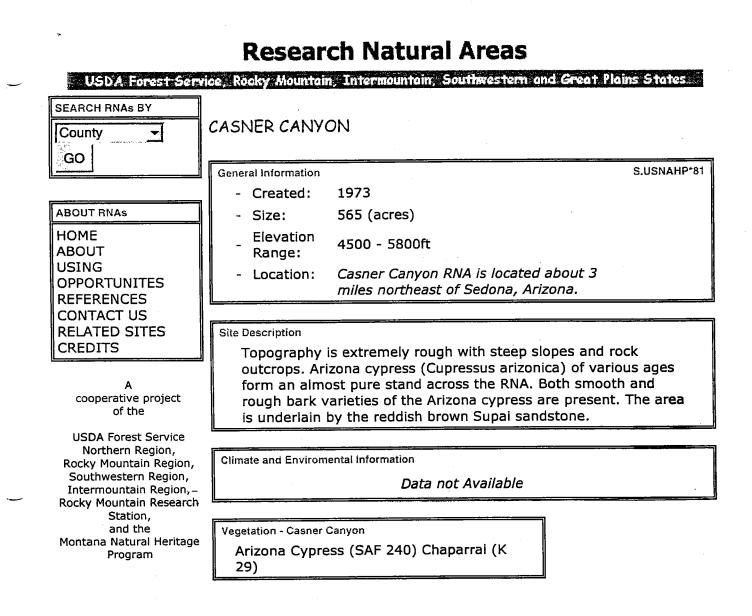
4. Recommendations

a. It is recommended that this Stage Two Multiple Use Survey Report be approved; that the Establishment Report be revised, accepted, and that Casner Canyon be designated a Research Natural Area.

b. This area should be removed from the list of lands available for oil and gas leasing, and any outstanding application should be recommended against leasing.

c. Continue to disallow cutting of timber within this area.

d. Disallow any special-use permits.



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Coconino County, Arizona

July 29, 1969

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Coconino Forest Supervisor

forDirector, Rocky Hountain Station

Regional Forester

Director, Div. of Recreation

Deputy Chief, Research

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ORDER

By virtue of the authority vested in me by the Regulations posted in 36 CFR 251.23, I hereby designate as the Casner Canyon Research Natural Area the lands described in the preceding report by the Region 3 Research Natural Area Committee dated July 29, 1969; said lands shall hereafter be administered as a Research Natural Area, subject to the said Regulations and instructions thereunder.

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Chief, Forest Service

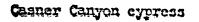
CASNER CANYON RESEARCH NATURAL AREA

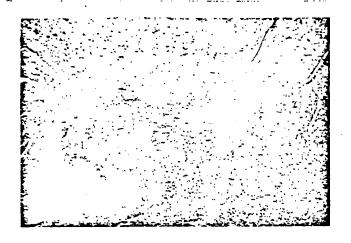
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Arizona cypress Pinyon Arizona walnut Fremont cottonwood Narrowleaf cottonwood Grav oak Shrub live oak Gambel oak Lowell ash Yellow willow New-Mexican locust Alligator juniper Narrowleaf hoptree Yellowleaf silktassel Sugar sumac Desertwillow True mountainmahogany Mistletoe Cerro hawthorn Greenleaf manzanita Desert ceanothus Apache-plume Palmer agave White brittlebush Creeping mahonia Engelmann pricklypear Skunkbush sumac γ_{i} Fineleaf yucca Sacahuista Groundsel Arizona peavine Broom snakeweed Beardlip penstemon Ring muhly Side-oats grama Beardless bunchgrass

Cupressus arizonica Pinus edulis Juglans major Populus fremontii Populus angustifolia Quercus grisea Quercus turbinella Quercus gambelii Fraxinus lowellii Salix lutea Robinia neomexicana Juniperus deppeana Ptelea angustifolia Garrya flavescens Rhus ovata Chilopsis linearis Cercocarpus montanus Phoradendron bolleanum Crataegus erythropoda Arctostaphylos patula Ceanothus greggii Fallugia paradoxa Agave palmeri Encelia farinosa <u>Mahonia</u> repens Opuntia engelmannii <u>Rhus trilobata</u> Yucca angustissima Nolina microcarpa Senecio spp. Lathyrus arizonica Gutierrezia sarothrae Penstemon barbatus Muhlenbergia torreyi Bouteloua curtipendula Blepharoneuron tricholepis









Casner Canyon - Looking east along Canyon Casner Canyon - Looking west toward bottom.

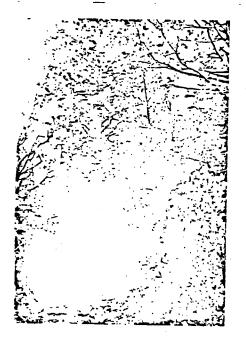
Oak Creek.



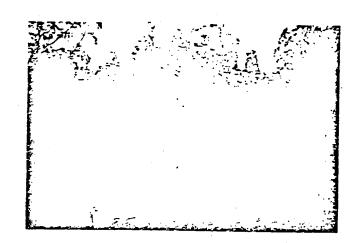
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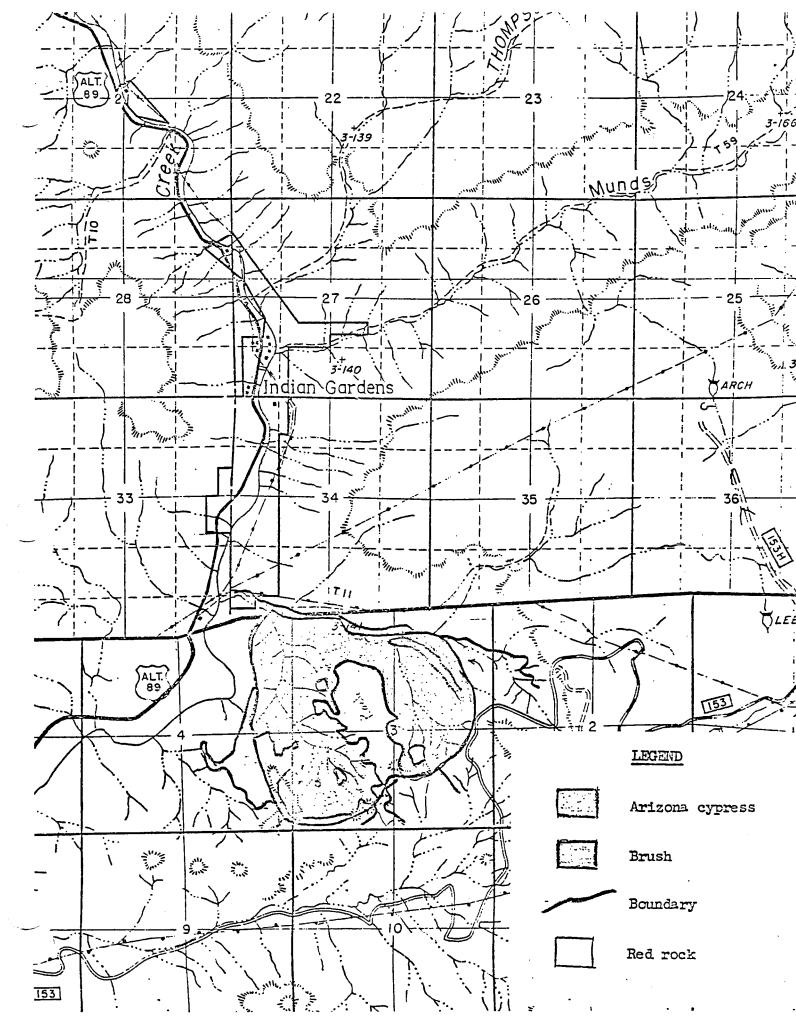
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Society of American Foresters Committee on Natural Areas

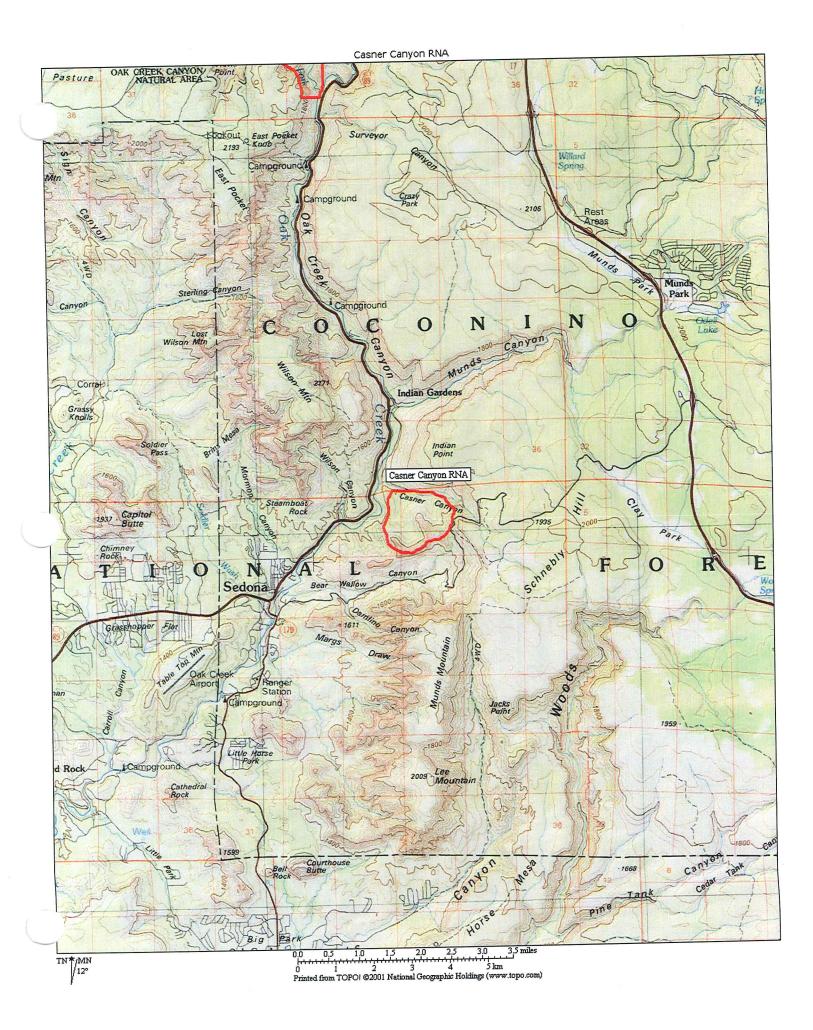
Proposed Natural Area

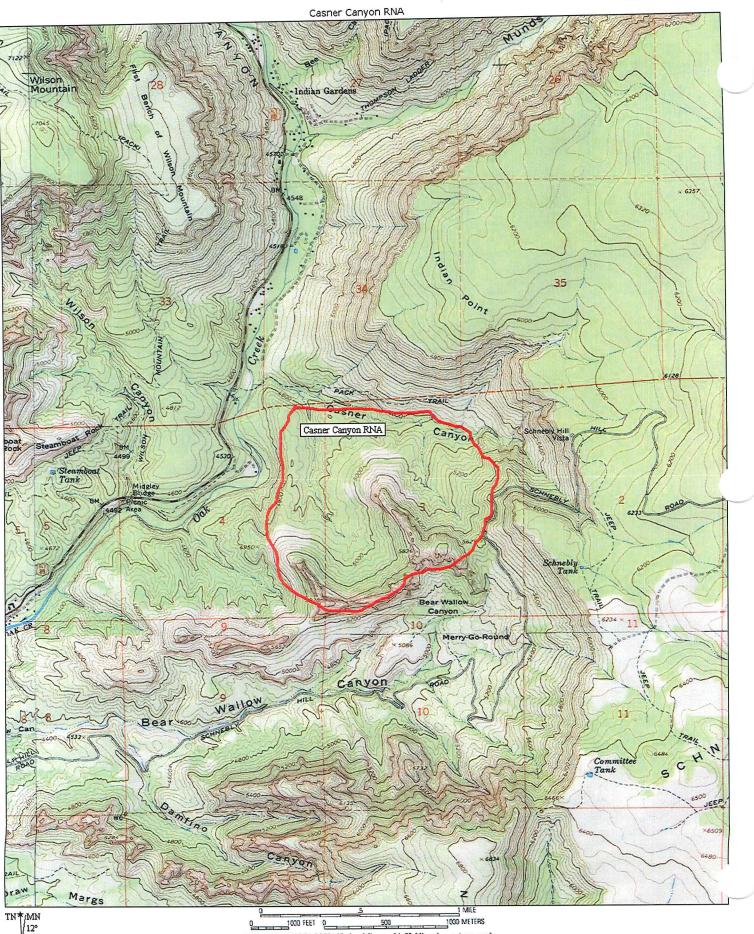
Name of Proposed Natural Area Casner Canyon

Location: State <u>Arizona</u> <u>County Coconino</u> <u>Nearest Town Sedona</u> <u>Nearest Federal, State or county highway</u> <u>US 89 A</u> Permanence Afforded Through What <u>Means Regulation</u> <u>(law, regulation, will, endowment, Board of Directors, etc.)</u> Name of Administration Unit <u>Coconino NF, Flagstaff, Arizona</u> <u>(National forest, national park, national wildlife refuge, State, university, etc.)</u>

Listing of Timber Types on Area:

S.A.F. Type No.	Acres	Average Age				
240	438	125				
K33	12					
Barren, water, buffer						
zone, etc.	115					
Total	1565	- <u></u>				
Range in Elevation: Low_	4500 Feet H	ligh <u>5800</u> Feet				
Topography Steep and broken canyon						
(Level, rolling steep, broken, etc.)						
GeologySedimentary rock						
(Volos	anic, alluvial, moraine, etc	o.)				
Average Height and Diameter of each major species:						
Species	Average Height	Average Diameter				
Arizona cypress	45'	18"				
Pinon pine	25'	8 "				
Submitted by Earl F. Aldon Title Project Leader						
Mailing Address 5423 Federal		Date June 2, 1969				
Albuquerque,	, New Mexico 87101					





TN MN

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