

Information

1.) Title of Project: Lyle Canyon Allotment Riparian Area Restoration Project Phase 2

2.) Type of Project:      Water Acquisition  
  X   Capital Project  
     Water Conservation

3.) Stream type  
  X   Perennial  
     Intermittent  
     Ephemeral

4.) Date submitted: 8/2/1999

5.a.) Date Attended an ADWR Workshop: 6-14-99 5.b.) Date Attended AWPFC Consultation 7-15-99

6.) Applicant Name: Byrd B. Lindsey

7.) Applicant address  
Byrd B. Lindsey  
Personal  
Elgin, AZ. 85611

8.) Inside AMA      Outside AMA:   X  

9.) Contact person/title: Steve Lindsey-Operator  
Phone number: Personal Identifying Information  
Fax number: N/A

10.) Type of application: New ( ) Continuation (X)

11.) Project start date: 02-01-2000  
End date: 02-31-2003

12.) Moneys obtained and secured:

Agency/Organization:	Amount:	13.) Estimated funding:
<u>USFS</u>	<u>\$11,000.00</u>	(a) AWPFC Request: <u>\$214,860.00</u>
		(b) Monies secured: <u>\$11,000.00</u>
		(c) Applicant Match: <u>\$47,255.00</u>
		(d) Total: <u>\$273,115.00</u>

Total (copy to 13d)

14.) Tax ID number: Personal Identifiable Information

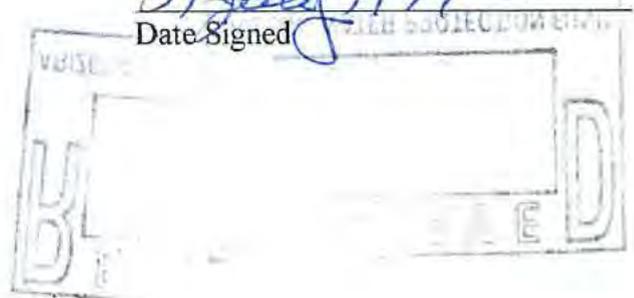
15.) The undersigned hereby offers and agrees to perform in compliance with all terms, conditions, specifications and scope in the application. Signature certifies understanding and compliance with the attached application. Signature certifies that all information provided by the applicant within this application is true and accurate. The Arizona Water Protection Fund Commission may approve grant award agreements with modifications to scope items, methodology, schedule, final products, and/or budget.

Byrd B. Lindsey  
Typed Name Of Authorized Representative

Byrd B. Lindsey  
Signature

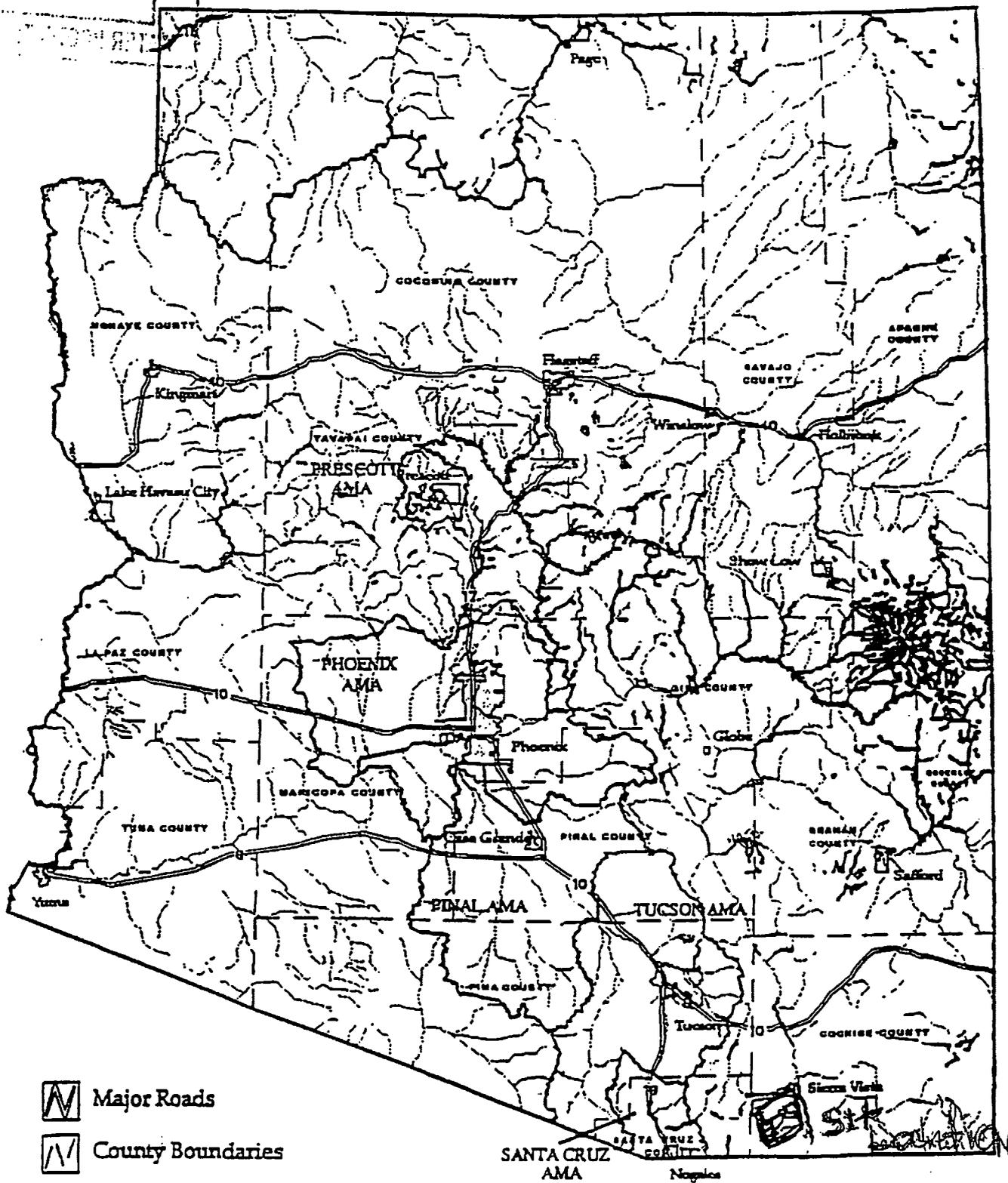
Owners Personal  
Title and: Telephone No.

31 July 1999  
Date Signed



# Arizona Map Instructions

Indicate on this map the approximate location of your project. Ensure that your markings are clearly visible on all five copies submitted.



-  Major Roads
-  County Boundaries
-  Perennial Streams
-  Intermittent or Ephemeral Streams
-  Active Management Areas



## Summary Page

### Summary:

The purpose of this project is to restore and protect the riparian areas on the Lyle Canyon Allotment and Collins Allotment, and to restore the obligate riparian plant species on the allotment. By drilling three new wells, installing three new water storage tanks and 39 drinkers we will then be able to help the new and old growth of Sycamore, Cottonwood Willow, Walnut trees, and the numerous plant species in the riparian areas. Lyle Canyon is a main tributary of the Babacomri River, which is a main tributary of the San Pedro River.

As the applicants, our objectives for the allotment are to restore and maintain riparian and upland vegetation diversity, density and canopy cover for wildlife habitat. Our desire is to stabilize stream banks, increase infiltration, reduce sheet runoff and erosion. Our desire is to improve the over all health of the riparian areas. Also by working with the National Wild Turkey Federation (NWTf), we hope to see increased turkey habitat throughout the whole allotment. We desire to continue our livestock operation, but our main focus will be on the grazing and health of riparian areas.

We have observed a significant amount of improvement on the allotment as we have completed the work from the grant obtained last year from the AWPf. The cattle are easier to manage with the new fences in place and the permanent water in the Korn pasture has been overwhelmingly successful in the ranging of the cattle. But much more needs to be done on the ranch as a whole. As we have created new pastures by using money from the grant, we see the need to get permanent water in these pastures. If there is existing water in the new pasture it is in the riparian area and our desire is to place permanent water in the upland watersheds. Also the ranch has just entered into the NEPA for part of the Collins Allotment directly to the south of the Lyle Canyon Allotment for possible allocation. These pastures, Tom's Corner, Horse, and the Oso Negro, are watered with dirt tanks which are dry a good part of the year. There is a small riparian spring on the south end of the Oso Negro Pasture. If we are able to install permanent water in these three pastures, we can then use these pastures in our rest and rotation schedule and remove the cattle from the Lyle Canyon Allotment completely at certain times of the year.

We have also combined the Canelo Allotment with the Lyle Canyon Allotment. This creates the problem of the lack of water in the East Pasture of the Canelo Allotment. We have included this pasture in our Annual Operating Plan (AOP), but need to install permanent water in the pasture to support the cattle. This will make it possible for the cattle to water on the uplands and not in the riparian areas. The only water there now is from two very unreliable wet weather springs. Otherwise we must haul water to the pasture in the dry season.

Our desire is to continue to enhance the good grazing practices that we have been able to accomplish with the moneys from the last grant from the AWPf. We see the need of an extensive pipeline and watering system in the newly created pastures, and the need to install new and permanent water in the pastures that have always existed on the ranch but have had no reliable watering system. Also the newly acquired pastures will help us to enhance the riparian areas in that we will have the ability to rotate the cattle off the riparian areas for longer periods of time.

The USFS informed us that they have found the Sonoran Tiger Salamander, an endangered species, in one of the tanks on the Collins allotment. The placement of drinkers on the newly acquired allotment will allow the cattle to water at different locations, thus allowing the Salamanders to be monitored at the sight with less impact from the cattle.

The need for three new wells, 28 miles of pipeline, 39 water troughs and three-12,000 gallon water storage tanks are critical to us as applicants. The more work we accomplish on the ranch, the more we see the need to spread cattle out to accomplish uniform grazing. When we complete the work with the funds from the AWPf, we hope to see the riparian areas flourish and the obligate riparian species in various stages of maturity. Also, we hope to see the clean water that is needed to sustain the different populations of animal and plant species in the areas.

We have begun a monitoring process with the USFS, and U of A Cooperative Extension and will continue to do so for years to come. With the use of photos and triangle monitoring points, we will hopefully see the health of the riparian areas abound. We will also be working closely with the Manila allotment owner Jim Pyeatt to install a water system on his ranch from the well we had drilled last year in the Harkey Pasture. This will not only help in the betterment of the upland watersheds, but will also enhance the wildlife populations. The State as a whole will benefit from this, in that there will be more animals to hunt, observe and enjoy.

We need to keep the ranch intact. Many ranches have been subdivided and our open spaces are becoming fewer and farther between. We are a family-owned ranch that has been operating on the same property for 5 generations. We are now expanding our operation, and it is to our advantage to keep the ranch intact, and pass it on to future generations. We hope to see how using the rest-rotation method will help us achieve our long-range goals of keeping the ranch intact, also, this plan will help us meet the goals of the USFS and the environmental community. We believe this project will be so successful and that many interested party's will see that there is a common ground on the grazing issue.

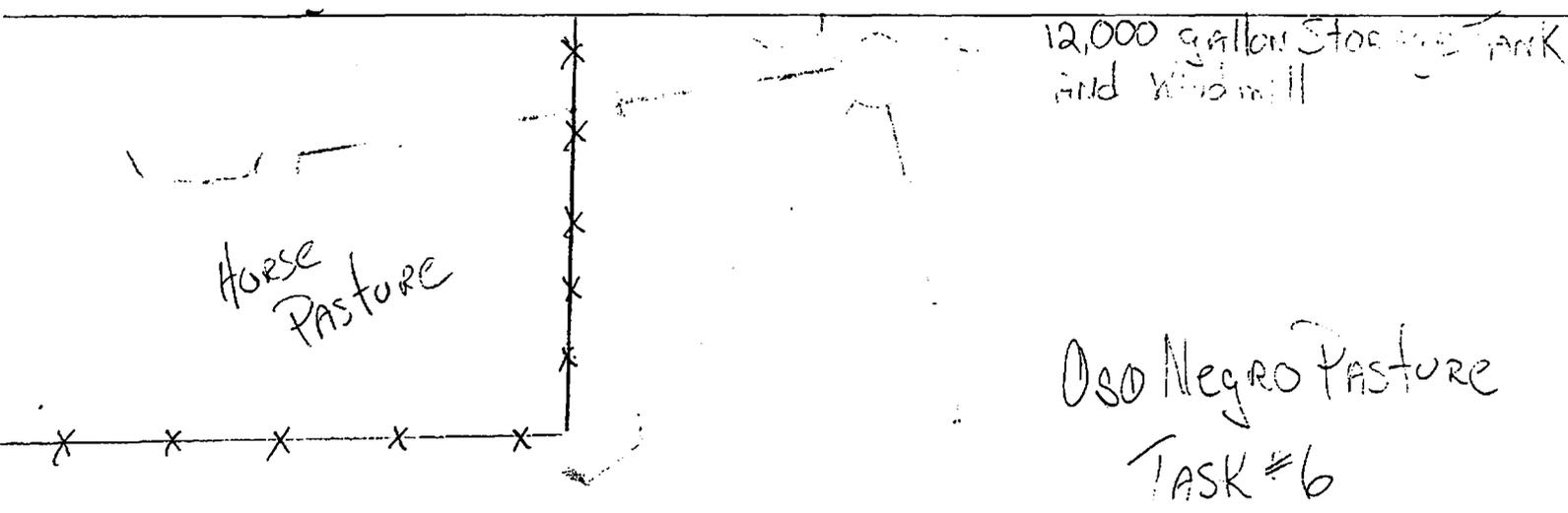
We hope to see, and will document, the improvement of the quality and quantity of water, not only in the Lyle Canyon area, but in the Babacomri and San Pedro as well.



**Project Schematic Drawings**

3/12-13 TROUGHS in Tom Clorier  
Pasture  
Tank #5  
Dirt  
Tank

↑ To Storage Tank in the Meadow  
Pasture



Existing Fence - x - x - x - x -  
New Fence  
New Water Projects - - - - -  
RIPARIAN AREAS - - - - -

MERRIT CANYON

MERRIT SPRING

# CANELO Allotment

TASK #3 & #7

RIPARIAN AREAS

NEW WATER LINES

Existing Fence Lines

CIMARRON Rd To West Gate

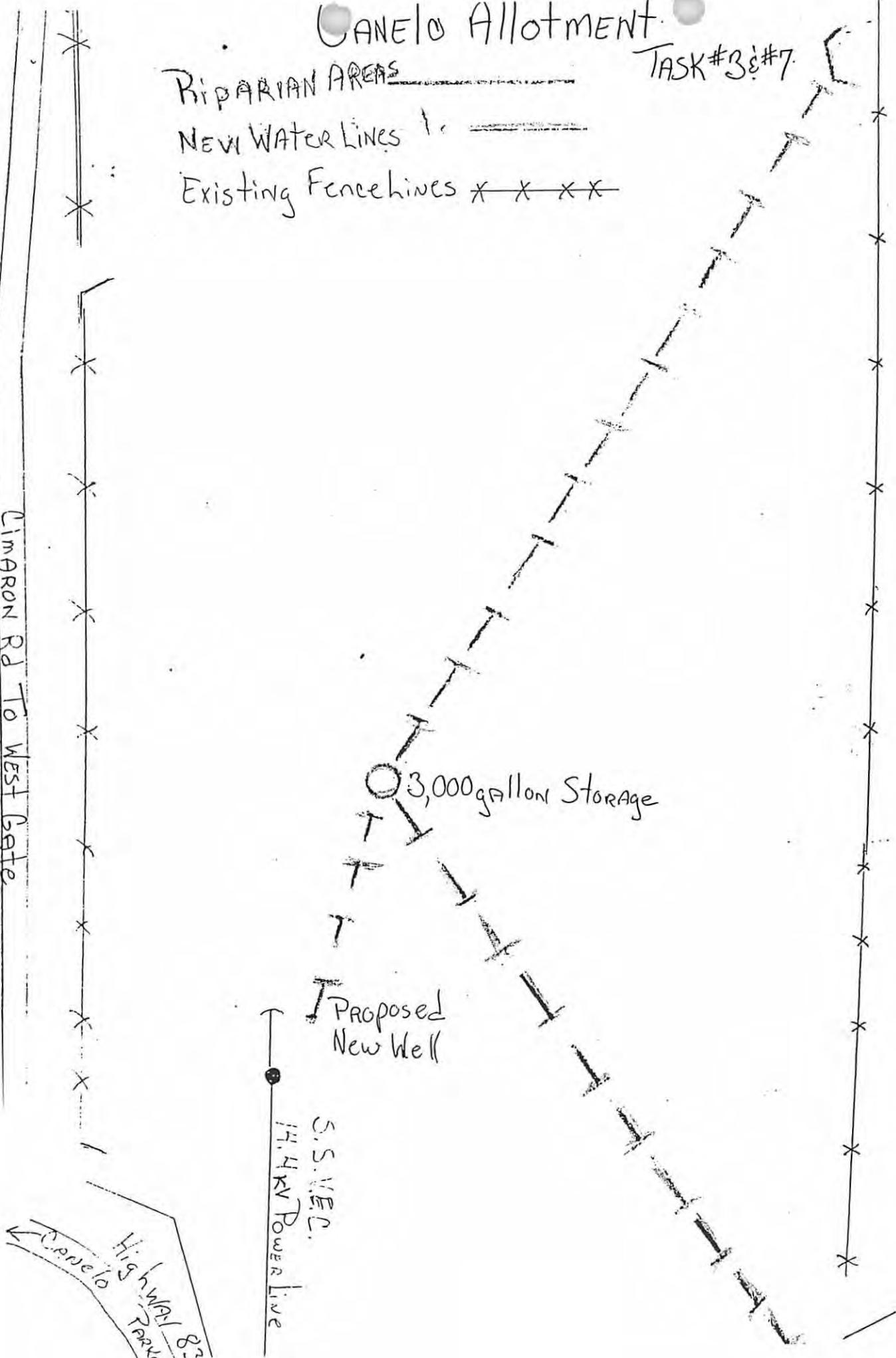
LYLE CANNON

Highway 82  
Canelo Park

S.S. VEG.  
11.4KV Power Line

Proposed New Well

3,000 gallon Storage



Well-From Existing HARKEY  
WELL to NEW STORAGE ON  
MANILA Allotment  
TASK #4

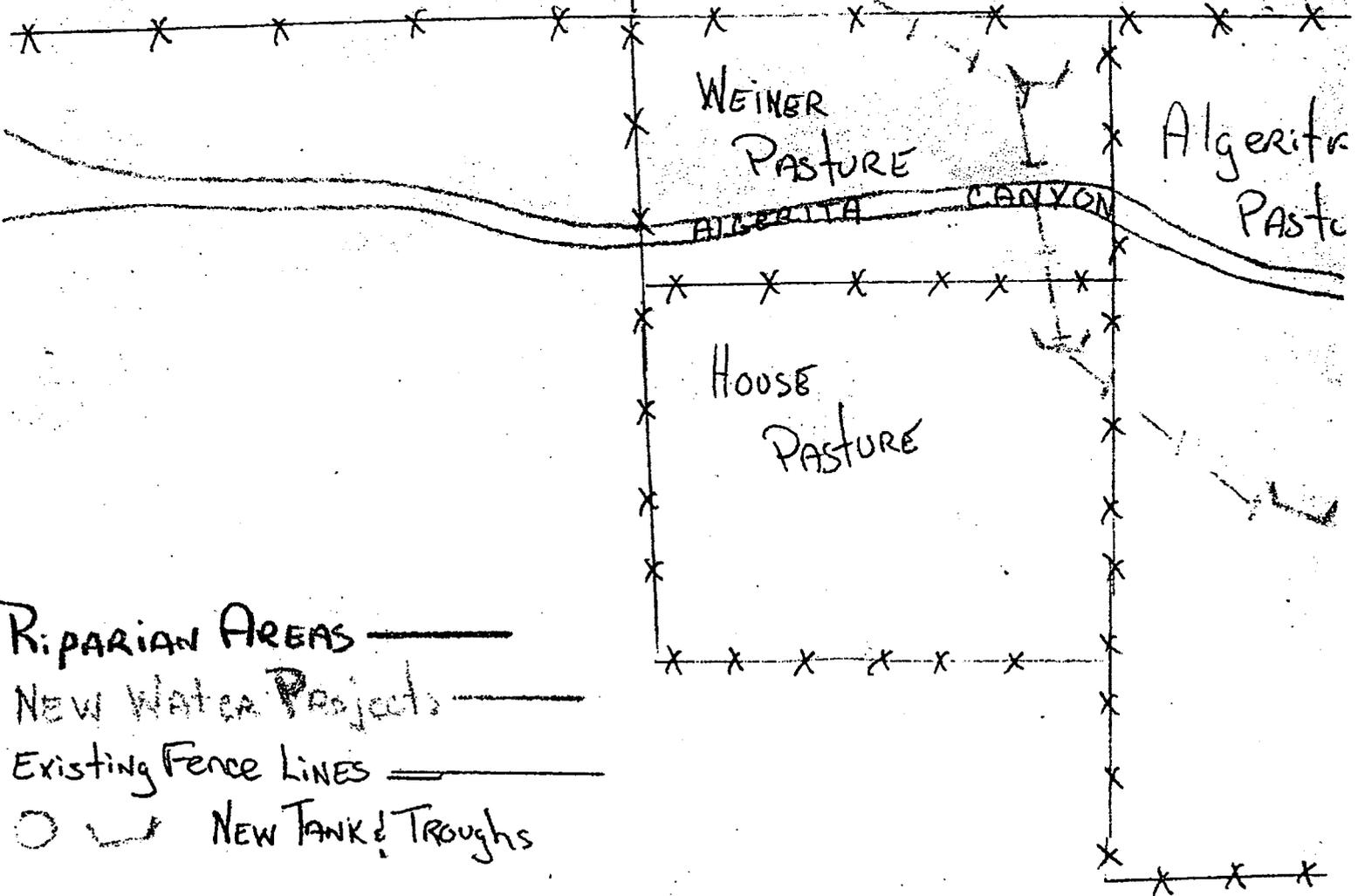
Existing  
HARKEY Tank & Well

HARKEY PASTURE

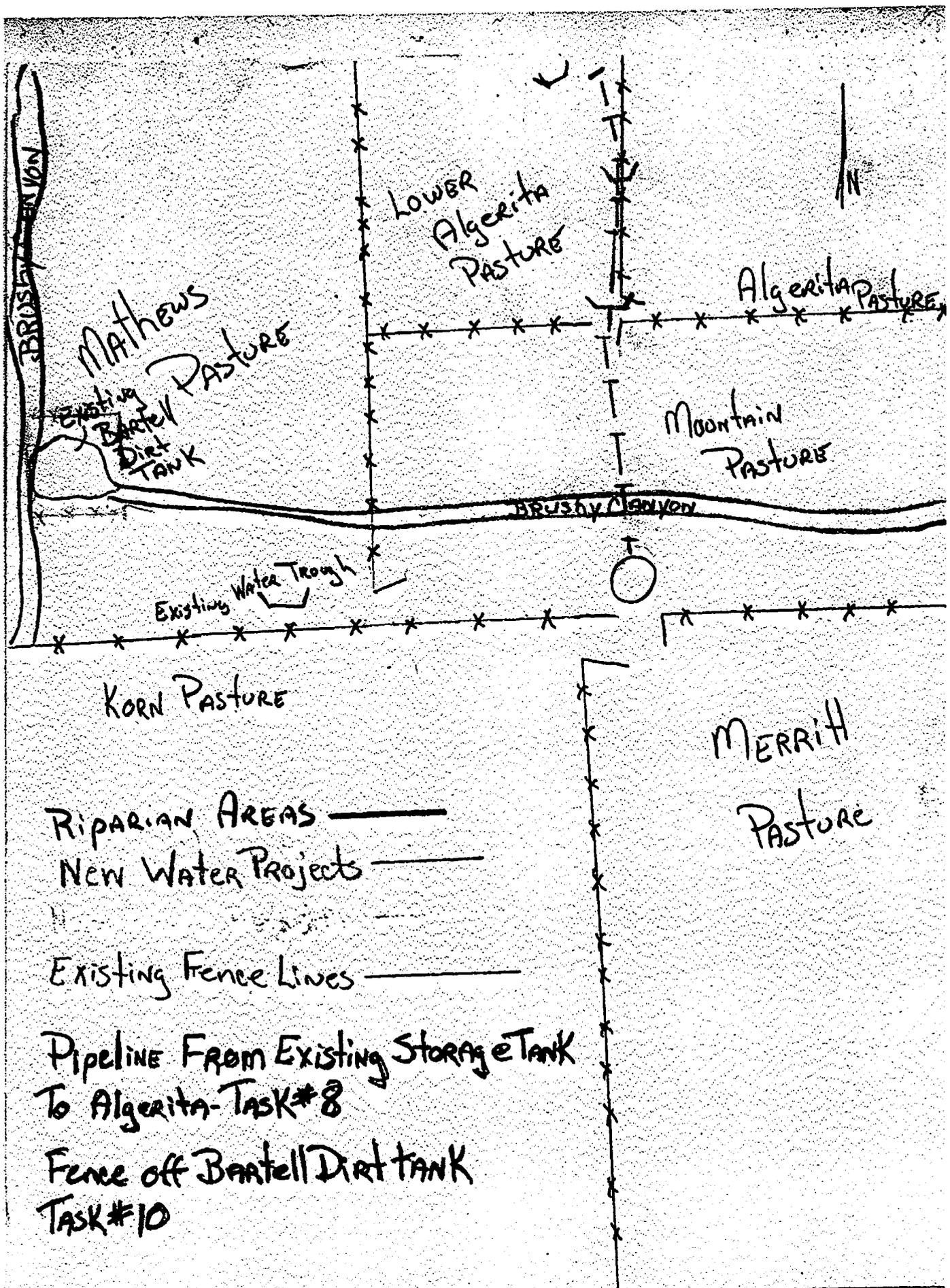
12,000 gallon Storage TANK

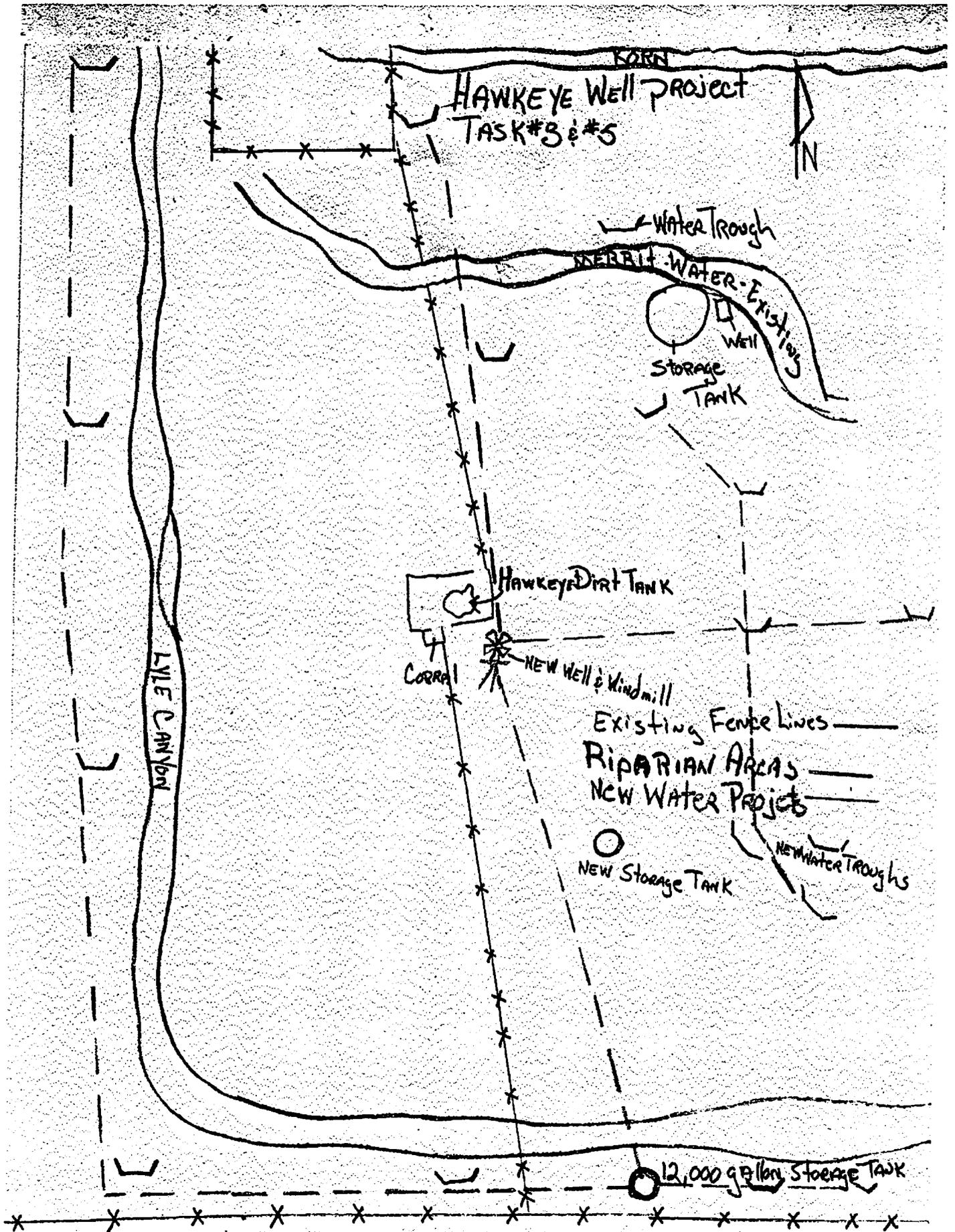
MANILA

Allotment



- RIPARIAN AREAS ———
- NEW Water Projects - - - - -
- Existing Fence Lines = = = = =
- ~ NEW TANK & Troughs





**Project Site Photographs**

**See Attached Copies**

LOCATION INFORMATION

- 1. County: Cochise & Santa Cruz 2. Section: 32,12,34,7,10,19,26,25,30,29,28,36,31,32,,6,7 & 8
- 3. Township: 22S & 23S 4. Range: 18E & 19E
- 5. Legislative District: 8
- 6. Stream Name: Lyle Canyon , Brushy Canyon, Korn Canyon
- 7. Landownership of project area: Public Lands Managed by the USFS
- 8. Current land use of project area: Grazing And Recreation
- 9. Length of stream through project area: 20 Miles
- 10. Size of project area (in acres): 18,000
- 11. Area Benefited by Project Implementation: 16,000 acres

Miles of Stream Benefited <u>20</u> miles
Acres of Riparian Habitat (circle one) (Enhanced), Maintained, Restored, Created: _____ acres

12. Provide directions to the project site from the nearest town. List any special access requirements.

The project is located on the west side of the Huachuca Mountains. It is approximately 18 miles southeast of Sonoita, 12 Miles southwest of Sierra Vista . when you get to Canelo from either direction, continue towards Parker Lake for 3 miles. Turn east on Lyle Canyon Road and follow the road for 3 miles to the Hawkeye Tank. A well will be drilled here. Another well will be drilled closer to Parker Lake. Continue on the Lyle Canyon Road for 2 more miles. The road will intersect with State Highway 83. Turn south and continue here for 4 miles. You will see a road bearing to the east, follow this road till it ends and you will find the well sight there. The well in the East Pasture is located 1 mile from Canelo on the east side of Cimmeroan Rd

ENVIRONMENTAL CONTAMINANT LOCATION INFORMATION

For purposes of this manual, environmental contaminants are substances which pose risk of harm to human health or the environment and include hazardous substances, hazardous wastes, petroleum products or Environmental Protection Agency priority toxic pollutants (defined by CERCLA 42 USC §9601, RCRA 42 USC §6903 and the Environmental Protection Agency). Environmental contaminants do not include wastewater from a wastewater facility permitted by a local, state, or federal authority having jurisdiction over wastewater.

- 1. Does your project site contain known environmental contaminants? Yes \_\_\_\_\_ (No) \_\_\_\_\_ If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants.
- 2. Are there known environmental contaminants in the project vicinity? Yes \_\_\_\_\_ (No) \_\_\_\_\_ If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants.
- 3. Are you asking for Arizona Water Protection Fund monies to identify whether or not environmental contaminants are present? Yes \_\_\_\_\_ (No) \_\_\_\_\_

STANDARDS AND GUIDELINES  
FROM THE CORONADO NATIONAL FOREST LAND MANAGEMENT PLAN

These Forest Plan Standards and Guidelines, as amended, apply to the management of the Lyle Canyon Allotment, and will be implemented through the Allotment Management Plan (AMP) or the Annual Permittee Plan. The permittee should review these Standards and Guidelines carefully.

The following Standards and Guidelines apply for all allotments. The Lyle Canyon Allotment contains Management Areas (MA) 1, 4, 7.

Management Prescription applicable to all areas of the Forest: pp.27-46 of the Forest Plan.

Prescription for MA 1: pp. 47-49

Prescription for MA 4: pp. 62-66

Prescription for MA 7: pp. 67-74

Prescription for MA 9: pp. 79-82

Standards and Guidelines for Range Management Levels, Table C-1: p. 116

#### Discussion of Management Areas

Management Area 1 includes steep, rugged lands that have generally been determined as incapable for sustained wood harvest and livestock grazing. Slopes are generally greater than 40%. MA 1 includes all vegetative types except major riparian areas. Rangeland management for MA 1 is at Level A, No Livestock grazing.

Management Area 4 includes those lands capable for fuelwood harvests, livestock grazing and game habitat management. Average slopes are 0-40%. MA 4 includes desert scrub, grassland, chaparral, and woodland vegetative types. Rangeland management for MA 4 is at Level D, Intensive Livestock Grazing. The grazing system in MA 4 will obtain relatively uniform distribution at 35-55% use level (of total annual herbaceous production by weight) over 100% of full capacity range. However, in order to meet the Standards and Guidelines as amended by CNF SUPPLEMENT 2600-94-1 (effective 5/1/94) a 45% use level will be considered to be the maximum for MA 4, with use levels of 35-40% desirable in key habitat areas for Mearns' quail. A 45% use level will be considered as the maximum for all grazing lands in MA 4, in order to meet the Standards and Guidelines for the management of wildlife and plants, and will serve as the basis for determining when livestock will be removed from a pasture.

Management Area 7 includes undeveloped lands that have been identified as supporting riparian flora and fauna associations that are unique enough to require special management practices. MA 7, prescription A includes identified riparian ecotypes, deciduous and coniferous forest types, and known, essential habitats for threatened and endangered plants and animals. Prescription A generally refers to riparian areas of perennial or semi-perennial waters, with riparian dependent species such as cottonwood and willow. MA 7, prescription B includes identified higher ecosystem extensions, such as oak and mesquite bottoms, and known, essential habitats for threatened and endangered plants and animals. Prescription B generally refers to drier, sandier riparian areas, with such species as walnut, oak and ash. Rangeland management for both prescriptions of MA 7 is at Level D, Intensive Livestock Grazing. If Level D is not achievable, then rangeland will be managed at Level A, No Livestock Grazing. This means that if livestock grazing in these areas is not consistent with Forest Plan Standards and Guidelines then livestock will be prohibited from grazing in this area. A 45% use level (of total annual herbaceous

**THE LYLE CANYON ALLOTMENT TERM GRAZING PERMIT**

**USE AND CONTROL AGREEMENT**

WHEREAS, Howard Boss has waived his rights to the use and control of the Lyle Canyon Allotment Term Grazing Permit (the "Permit") in favor of the E-Lazy H;

WHEREAS, the Forest Service has accepted the application of the E-Lazy H for the use and control of the permit; and

WHEREAS, all the partners of the E-Lazy H (the "Partners") agree that William Lindsey or Byrd Lindsey shall, at their sole discretion, direct the use and control of the Permit;

NOW THEREFORE, all of the Partners of the E-Lazy H do hereby agree in writing by signing their names below, that the use and control of the Permit shall be at the sole discretion of William Lindsey or Byrd Lindsey. Furthermore, in the event that any Partner sells, conveys or transfers any of his ownership interest in the E-Lazy H, the Partners do hereby agree that prior to such sale, conveyance or transfer, each Partner shall obtain from any such new owner a Use and Agreement in form and substance identical to this agreement in such new owner agrees that the use and control of the Permit shall be at the sole discretion of William Lindsey or Byrd Lindsey.

## Introduction

### Background:

My family acquired the Lyle Canyon Allotment in 1996. The allotments improvements were in various stages of disrepair, and had been for quite a while. Cattle had been allowed to graze where and when they wanted, and the main water sources were in the riparian areas, having been established there years ago allowing the cattle to have access to the water during the dry parts of the year. My family has taken it upon themselves (With the blessings of the USFS) to hand dig wells, install new fences and, with a grant from the AWPf, build miles of new fence. Using a new well funded by the AWPf in 1998 for a water source, and by installing a storage tank and 6 drinkers on the upland watersheds that will allow the cattle other options for water rather than solely in the riparian areas. We installed these waters in 5 different pastures, but we see the need to have the cattle utilizing much more of the uplands. With the grant money from the AWPf new pastures have been created, and we see the need now more than ever to have permanent waters on the upland water sheds of these pastures.

The Collins Allotment is directly to the south of the Lyle Canyon Allotment. The Collins has been rested for years, and my family felt that if we could put the three pastures to use we could alleviate some of the pressure the Lyle Canyon Allotment was feeling. But the lack of dependable water makes this a problem in dry times and times of drought. There is a good riparian spring on the south end of the Oso Negro Pasture, but if cattle are left to water here we are afraid they will soon cause damage to the riparian area that will not be repairable.

We have started an extensive monitoring program with the USFS and the University Of Arizona Cooperative Extension. We feel this is very important for the survival of the ranch. We along with the Forest Service and the State need to be able to see the benefits of the programs the AWPf is working with, and what better way than monitoring not only in the riparian areas, but also the uplands as well. We will continue to monitor the range lands and will start monitoring in the new pastures as we move ahead with the project.

### Statement of problem(s):

Cattle are like teenagers as they will take the path of least resistance. If there is water and feed in the riparian areas the cattle will hang in the lower elevations where the pickings are easier. But on the other hand, if there is no other place for the cattle to water, they have little choice but to do just that, hang out in the areas where water and feed are. We see this as a major problem on the ranch. The cattle have places in the uplands to water, but only in a few of the pastures. When the dirt tanks dry up, the cattle can only water in the riparian areas such as the Merrit Water, Korn Canyon, Lyle Canyon, Brushy Canyon, Merrit Canyon and Algerita Canyon.

We had a tank cleaned out in the Mathews pasture last fall that will be a good water source for the cattle in the future. But right now it allows the cattle to water close to Brushy Canyon, a major riparian area that needs time to heal from over utilization. We need to control cattle in the watershed and distribute them as well as possible. We have installed a new drinker in the Mathews Pasture in the uplands, but as we stated before, cattle will take the path of least resistance, so we need to force them out of this lower country into the higher elevations.

There is no permanent water in the East Pasture of the Canelo allotment. About 1965 my family, with the help of the USFS, installed some jet tanks in the east side of the pasture that fed from a wet weather spring, but this system has never performed well for us. So the only time we can use the pasture is in the very wet seasons or if we haul water to the cattle, as we have done in the past. So it is very difficult to include this pasture in our rest and rotation. We need a permanent water source there.

The Oso Negro Pasture, the Horse Pasture and the Tom's Corner pasture need a permanent water source also. The only water source to date are dirt tanks that have water only part of the year. One tank in the Toms Corner pasture has recently been found to hold Sonoran Tiger Salamanders, an Endangered Species. We feel it is important to have an alternate water source so the cattle will not have to depend on this tank.

### Statement of cause(s) of the problem(s):

Uncontrolled cattle ranging patterns, recreation and drought have added to the problems on the allotment. Signs of mining in the past are still evident, but as to date no new mining operations are taking place. We will not be able to control recreation nor the drought, but we can control cattle ranging patterns. With the use of fencing and water on the uplands we can force the cattle to graze where we want them to. Cattle allowed to graze too much in one place and not enough in other places are a major problem. Also in times of drought when you have feed but no water it is very hard not to beat out your riparian areas where the water is and leave your uplands looking good. The obligate riparian species then suffer from too much browsing, and the riparian areas as a whole suffer.

**Statement of project-related remedies or solutions:**

We applied for an AWPf grant in 1997 and we signed the grant contract in early November 1998. To date we have accomplished all but two of the tasks that we had agreed to, and they will be completed before the commission meets to award contracts for the year 2000. Work on the ranch has been on going and we can see some benefits to our labor. But we see the need for more range improvements before we can call the ranch in good shape. We hope the outcome of all our efforts will be a stable riparian area system throughout our allotment, and that we will see the diversity of grass in the upland watershed increase and flourish.

A new well in the East Pasture on the Canelo allotment is necessary, along with a 3,000 gallon water storage tank. We will install 3 drinkers in the pasture. The cattle can then range in the pasture and not just around the water.

We are working closely with the owner of the Manila Allotment, Jim Pyeatt, to install a water storage tank and a pipeline from an existing well in the Harkey Pasture. By accomplishing this task we can install permanent water on the Manila Allotment and also 2 drinkers in the Wiener Pasture, 2 drinkers in the north west side of the Algerita Pasture and 2 drinkers in the north east end of the House pasture. This will allow cattle to range in the pastures and utilize the permanent water source there,

We will run a pipeline from the existing storage tank in the Mountain Pasture, north to south west end of the Upper Algerita Pasture, and the south east end of the Lower Algerita Pasture. This also will allow the cattle to range further from the existing water sources.

We will have a well drilled in the Merrit Pasture and install a windmill on this well. We will pump water to a 12,000 gallon storage tank that will be set in the same pasture on a hill between the Merrit Pasture and the Tom's Corner Pasture. We can then run a pipeline from the tank to 3 drinkers in the Tom's Corner Pasture and 1 Drinker on the north end of the Oso Negro Pastures. We will then run a pipeline north from the well to water both the north end of the Merrit Pasture and the Upper Lyle Pasture. A pipeline on the hill east of the well will allow us the ability to utilize the feed on the hills in this pasture. There will be a total of 10 drinkers in the Merritt Pasture and 2 in the Mountain Pasture from this pipeline and well system. There will also be 3 drinkers in the upper Lyle Pasture and 2 in the Lower Lyle Pasture.

We will have a well drilled in the Oso Negro Pasture and run a pipeline to 5 drinkers in this pasture and one drinker in the Horse pasture. We will install a windmill on this well to fill a 12,000 gallon storage tank.

We will fence off the riparian area in the Oso Negro Pasture and monitor the effects of no cattle grazing on the spring. Also we will fence off the Bartell Tank in the Mathews Pasture. We already have a monitoring sight set-up in Brushy Canyon were we can monitor the effects of the cattle utilizing the upland watershed water trough.

**Statement of project years of benefit**

We are committed to this project for 20 years or longer. My family has been ranching in this area since 1867, passing the ranch down from generation to generation. We want to continue this tradition, passing the ranch on to our children.

## Scope of Work: Goals & Objectives

### Overall Project Goal(s):

The goal of the Lyle Canyon Allotment Riparian Area Restoration Project Phase 2, is to restore and maintain riparian and upland vegetation diversity, density and canopy cover for wildlife habitat. Our desire is to stabilize stream banks, increase infiltration, reduce sheet runoff and erosion. Our desire is to improve the overall health of the riparian areas.

Also by working with the National Wild Turkey Federation (NWTF), we hope to see increased turkey habitat throughout the whole allotment. We desire to continue our livestock operation, but our main focus will be on the grazing and health of riparian areas.

The USFWS has determined that some of the allotment is Sonoran Tiger Salamanders habitat. Our goal is to protect the Salamanders habitat by placing drinkers in the uplands and giving the cattle places to water other than the dirt tanks where the Salamanders live.

## Scope of Work: Task Descriptions

### **Task #1 Description: Obtain Permits**

The applicant will obtain all necessary permits for the work. SHPO clearances NEPA studies and well permits. We hope the NEPA's will be completed by December of 1999. We are working with the Forest Service to complete the SHPO clearances now. we will have access agreements with the Forest Service and the Pyeatts for the storage tank and pipeline.

**Deliverable description:** Copies of the permits

**Deliverable due date:** April 30, 2000

**AWPF task cost:** \$0

### **Task # 2 Description:**

Develop a Monitoring plan and monitoring sights with the Forest Service and the U of A Cooperative Extension

**Deliverable Description:** Develop the Monitoring plan for the new improvements

**Deliverable Due Date:** April 30, 2000

**AWPF task cost:** \$ 2,074.00

**Task # 3 Description:** Drill a 500 foot well in the East Pasture of the Canelo Allotment. Drill a 500 foot well in the Merrit Pasture of the Lyle Canyon Allotment. Drill a 500 foot well in the Oso Negro Pasture of the Collins Allotment.

**Deliverable Description:** Photocopies of the invoices from the well driller and photographs of the completed projects

**Deliverable Due Date:** July 30, 2000

**AWPF Task Cost:** \$ 31,500.00

### **Task #4 Description:**

Install a 1.5 mile above ground polyethylene pipeline from the existing well in the Harkey Pasture to a 12,000 gallon storage tank on the Manila Allotment. We will work closely with the owner of the Manila Allotment, Jim Pyeatt, to install drinkers on his allotment. We will install a pipeline from the storage tank to the Wiener, Upper Algerita and House pastures of the Lyle Canyon Allotment, using 4 more miles of 1.5 inch polyethylene pipe on this task. We will need a 2.5 kW generator to operate the fuser machine the USFS is supplying us for us.

**Deliverable description:** Photo Copies of the invoices of materials and photographs of the completed project.

**Deliverable due date:** December 30, 2000

**AWPF task cost:** \$21,923.00

### **Task # 5 Description:**

Run 1.5 miles of polyethylene pipeline from the well in the Hawkeye Well to a 12,000 gallon storage tank on the hill between the Merrit and Toms Corner Pastures. We will install a 16' windmill on a 33' tower on this well along with a 1.5 hp electric pump so we can utilize this watering system even when the wind is not blowing enough to fill the storage tank. We can then water the Merrit, Oso Negro Upper Lyle, Lower Lyle, Toms Corner and the Mountain pastures. We will utilize 17 drinkers off of this storage tank. We will install 12 miles of polyethylene pipe other than the 1.5 miles for the well to the storage tank on this task.

**Deliverable description:** Photocopies of the invoices of material and photographs of the completed project.

**Deliverable Due Date:** July 30, 2001

**AWPF Task Cost:** \$76,356.00

### **Task # 6 Description:**

Run 200 feet of polyethylene pipeline from the well in the Oso Negro Pasture to connect to a 12,000 gallon storage tank in the same pasture. Run a 3.5 mile polyethylene pipeline to 5 drinkers in the Oso Negro pasture and also 1 drinker the Horse Pasture. We will use a 12' windmill on a 33' tower to pump water to the storage tank.

**Deliverable Description:** Photocopies of the invoices of material and photographs of the completed project

**Deliverable Due Date:** December 30, 2001

**AWPF Task Cost:** \$32,543.00

### **Task # 7 Description:**

Run a ½ mile polyethylene pipeline from the well in the East Pasture to a 3,000 gallon storage tank in the same pasture. Run a 2 mile polyethylene pipeline to 3 drinkers from the storage tank in the pasture. The well will be very close to an electric power line, so the well will be powered by a 1.5 hp electric pump.

**Deliverable Description:** Photocopies of the invoices of material and photographs of the completed project.

**Deliverable Due Date:** July 30, 2002

**AWPF Task Cost:** \$18,700.00

### **Task Description # 8:**

Run 2 miles of polyethylene pipeline from the new storage tank (That the 1998 grant from the WPF provided) in the Mountain Pasture to the south west end of the Upper Algerita, the south east end of the Lower Algerita and the south east end of the House Pastures

**Deliverable Description:** Photocopies of the invoices of material and photographs of the completed project.

**Deliverable Due Date:** December 30, 2002

**AWPF Task Cost:** \$12,112.00

**Task Description # 9:**

Install 1 Mile of fence around the riparian area in the Oso Negro Pasture. This will remove the cattle from this area. We can monitor the effects of no cattle grazing on the riparian area.

**Deliverable Description:** Photocopies of invoices of material and photographs of the completed project.

**Deliverable Due Date:** July 30, 2002

**AWPF Task Cost:** \$7,570.00

**Task Description # 10:**

Install one quarter mile of fence around the diet tank in the Mathews Pasture. This will force cattle to use the new water trough in the upland watershed.

**Deliverable Description:** Photocopies of the invoices of material and photographs of the completed project.

**Deliverable Due Date:** December 30, 2002

**AWPF Task Cost:** \$1,811.00

**Task Description # 11:**

Implement the monitoring plan as stated in task #2

**Deliverable Due Date:** Twice yearly for three years

**AWPF Task Cost:** As in Task #2

**Task Description # 12:**

The applicant will prepare a poster board and summary presentation on the Lyle Canyon Allotment Riparian Area Restoration Project Phase 2

**Deliverable Description:** Photograph of poster board and abstract.

**Deliverable Due Date:** December 30, 2002

**AWPF Task Cost:** \$525.00

**Task Description # 13:**

The Applicant will prepare a report that describes the objectives of the Lyle Canyon Allotment Riparian Area Restoration Project Phase 1 and Phase 2. We will describe the monitoring areas and data that we have instituted and have recommendations for future work of this nature based on the results of this work.

**Deliverable Description:** Copy of final report

**Deliverable Due Date:** April 30, 2003

**AWPF Task Cost:** \$3,150.00

# **Collins Allotment Monitoring Plan Outline**

Draft 7/21/99

## **1) Project Objective**

To restore and maintain the health of riparian and upland vegetation.

## **2) Monitoring Objective**

Maintain or increase frequency and diversity of native vegetation on uplands in Toms Corner, Horse and Oso Negro pastures. This will ensure healthy watershed conditions which affect riparian areas.

## **3) Monitoring Strategy**

The Forest Service has Parker 3-Step (point cover and line intercept) trend studies established in old key areas. A field review will need to be conducted to evaluate current transect locations and the status of transect markers since the transects have not been read for many years.

Parker 3-Step Clusters will be read at existing locations. At the same time, pace frequency transects will be established at the same locations and new locations as needed. These will be read during the fall of each year, following the summer growing season. Pace frequency transects will be read for the first three years to establish a good baseline. After that, the transects will be read every other year. This monitoring method measures woody and herbaceous vegetation and provides frequency and cover data.

Monitoring of the riparian area in Oso Negro pasture will consist of photo points and written documentation of vegetative conditions. The area is too small to establish transects.

Film will be developed for slides, prints and "pictures-on-disk" to provide for future information exchange and educational opportunities.

## **4) Monitoring Personnel**

The placement and initial reading will be done by the Lindsey's, Cooperative Extension and the Forest Service. Four students from The University of Arizona will be hired to do the actual monitoring the next two years. They will be supervised in the field by the Lindsey's and Cooperative Extension. These students are trained in rangeland monitoring. They have done monitoring work under the supervision of Dr. George Ruyle for the National Park Service at Fort Bowie National Historic Site and other locations in southern Arizona.

Forest Service personnel will be involved with the monitoring as much as possible. Following the life of the contract, the Lindsey's are committed to continue the monitoring of key areas. They will coordinate with the Forest Service to assure a successful monitoring program.

## **5) Monitoring Results and Final Report**

Results of the monitoring data will be summarized in a final monitoring report by Cooperative Extension. The Lindsey's and US Forest Service will be involved in the interpretation of monitoring results.

## Proposed Collins Allotment Monitoring Budget

Draft July 21, 1999

Item	Cost	Number	Total
<u>Monitoring Supplies</u>			
Arctic Roll Flagging	1.30	1	1.30
Film	2.25	5	11.25
T-Posts	5.00	5	25.00
<i>Total - Monitoring Supplies</i>			<b>\$37.55</b>
<u>Documentation Supplies</u>			
Slide Pages (pkg)	49.99	1	49.99
Photo Pages (pkg)	50.00	1	50.00
Diskette Panels	6.95	1	6.95
D-Ring Binders	16.01	2	32.02
Tab Dividers (box)	1.18	5	5.90
Film Development	17.90	5	89.50
<i>Total - Documentation Supplies</i>			<b>\$234.36</b>
<u>Travel</u>			
Cochise County Cooperative Extension 202 miles/trip @ .31		5	313.10
Santa Cruz County Coop Extn 120 miles/trip @ .31		5	186.00
UA Students (2 vehicles - two trips) 145 miles/trip @ .31		4	179.80
<i>Total - Travel</i>			<b>\$678.90</b>
<u>Wages</u>			
Student Wages \$8.00/hour, 4 students		6 days	<b>\$1024.00</b>
<b>Monitoring Project Total</b> (does not include tax, shipping)			<b>\$1,974.81</b>

## Task-Timetable

Start Date: <u>April 1, 2000</u> Yrs of Benefit: <u>20 +</u> End Date: <u>March 31, 2003</u> Duration: <u>36 Months</u>			Project Name: <b>Lyle Canyon Allotment Riparian Area Restoration Project Phase 2</b>											
Project Categories and Tasks			Months Since Project Initiated 12 Months											
Task No.	Task Cost to AWWPF	Task Description	1	2	3	4	5	6	7	8	9	10	11	12
1	\$ 0	Obtain Permits	X											
2	\$2,074.	Monitoring Plan	X	X	X	X	X	X	X	X	X	X	X	X
3	\$31,500	Drill 3 Wells		X	X	X								
4	\$25,066	Install pipeline, storage tank and drinkers from the Harkey Well					X	X	X	X				
5	\$89,589	Install pipeline, storage tank and drinkers from the Hawkeye Well									X	X	X	X
6	\$30,557	Install pipeline, storage tank and drinkers from the Oso Negro well												
7	\$15,178	Install pipeline, storage tank and drinkers from the East Pasture well												
8	\$7,840	Run pipeline from storage tank in Mountain to Algerita & House Pastures												
9	\$7,570	Install Fence around the riparian area in the Merit pasture												
10	\$1,811	Install fence around the dirt tank in the Mathews Pasture												
11		Implement Monitoring plan per Task # 2												
12	\$525.00	Information Transfer												
13	\$3,150	Final Report												

Project Categories and Tasks			Project Name: Lyle Canyon Allotment Riparian Area Restoration Project Phase 2											
			Months Since Project Initiated 24 Months											
Task No.	Task Cost to AWP	Task Description	13	14	15	16	17	18	19	20	21	22	23	24
1	\$ 0	Obtain Permits												
2	\$2,074.	Monitoring Plan	X	X	X	X	X	X	X	X	X	X	X	
3	\$31,500	Drill 3 Wells												
4	\$25,066	Install pipeline, storage tank and drinkers from the Harkey Well												
5	\$89,589	Install pipeline, storage tank and drinkers from the Hawkeye Well	X	X	X									
6	\$30,557	Install pipeline, storage tank and drinkers from the Oso Negro well				X	X	X	X	X				
7	\$15,178	Install pipeline, storage tank and drinkers from the East Pasture well									X	X	X	X
8	\$7,840	Run pipeline from storage tank in Mountain to Algerita & House Pastures												
9	\$7,570	Install Fence around the riparian area in the Merit pasture												
10	\$1,811	Install fence around the dirt tank in the Mathews Pasture												
11		Implement Monitoring Plan per Task # 2												
12	\$525.00	Information Transfer												
13	\$3,150	Final Report												

Project Categories and Tasks			Project Name: Lyle Canyon Allotment Riparian Area Restoration Project Phase 2											
			Months Since Project Initiated 36 Months											
Task No.	Task Cost to AWP	Task Description	25	26	27	28	29	30	31	32	33	34	35	3
1	\$ 0	Obtain Permits												
2	\$2,074.	Monitoring Plan	X	X	X	X	X	X	X	X	X	X	X	X
3	\$31,500	Drill 3 Wells												
4	\$25,066	Install pipeline, storage tank and drinkers from the Harkey Well												
5	\$89,589	Install pipeline, storage tank and drinkers from the Hawkeye Well												
6	\$30,557	Install pipeline, storage tank and drinkers from the Oso Negro well												
7	\$15,178	Install pipeline, storage tank and drinkers from the East Pasture well	X											
8	\$7,840	Run pipeline from storage tank in Mountain to Algerita & House Pastures		X	X	X	X	X						
9	\$7,570	Install Fence around the riparian area in the Merit pasture							X	X	X			
10	\$1,811	Install fence around the dirt tank in the Mathews Pasture							X	X	X			
11		Implement Monitoring Plan Per Task # 2							X	X	X	X	X	X
12	\$525.00	Information Transfer										X	X	X
13	\$3,150	Final Report										X	X	X

Project Budget Forms

TASK: Number and short description	AWPF FUNDS REQUESTED					
	ADMIN COSTS (1)	DIRECT LABOR COSTS (2)	OTHER DIRECT COSTS	OUTSIDE SERVICES	CAPITAL OUTLAY(3)	TOTAL
1.) Permits						
2.) Monitoring	\$99.00			\$1,975.00		\$2,074.00
3.) Drill Wells	\$1,500.00			\$30,000.00		\$31,500.00
4.) Pipeline to storage & drinkers fr. Harkey well	\$1,377.00	\$7,810.00	\$15,879.00			\$25,066.00
5.) Pipeline to storage & drinkers fr. Hawkeye well	\$4,441.00	\$21,428.00	\$63,720.00			\$89,589.00
6.) Pipeline to storage & drinkers fr Oso negro well	\$1,544.00	\$5,020.00	\$23,993.00			\$30,557.00
7.) Pipeline to storage & drinkers fr east pasture	\$796.00	\$3,572.00	\$10,810.00			\$15,178.00
8.) Pipeline Mtn to Algerita & House	\$447.00	\$2,857.00	\$4,536.00			\$7,840.00
9.) Fence Merrit riparian area	\$360.00	\$5,280.00	\$1,930.00			\$7,570.00
10.) Install fence around tank in Mathews pasture	\$86.00	\$990.00	\$735.00			\$1,811.00
11.) Implement Monitoring per task # 2						
12.) Information Transfer	\$25.00	\$500.00				\$525.00
13.) Final Report	\$150.00	\$3,000.00				\$3,150.00
<b>AWPF TOTALS</b>	<b>\$10,825.00</b>	<b>\$50,457.00</b>	<b>\$121,603.00</b>	<b>\$31,975.00</b>		<b>\$214,860.00</b>

- (1) Administration costs are limited to 5% of the total dollars requested for a project.
- (2) Include wages, salaries, and fringe benefits.
- (3) Attach list of capital equipment expenditures over \$1,000.00, Water (CAP/Effluent), etc.

**BUDGET FORMS CONTINUED**

TASK: Number and short description	OTHER FUNDS (MATCHING) (4)					
	ADMIN COSTS (1)	DIRECT LABOR COSTS (2)	OTHER DIRECT COSTS	OUTSIDE SERVICE	CAPITAL OUTLAY (3)	TOTAL
1.) Permits				\$9,000.00		\$9,000.00
2.) Monitoring				\$2,000.00		\$2,000.00
3.) Drill Wells						
4.) Pipeline to storage & drinkers fr. Harkey well		\$6,984.00				\$6,984.00
5.) Pipeline to storage & drinkers fr. Hawkeye well		\$8,513.00				\$8,513.00
6.) Pipeline to storage & drinkers fr Oso negro well		\$8,974.00				\$8,974.00
7.) Pipeline to storage & drinkers fr east pasture		\$1,892.00				\$1,892.00
8.) Pipeline Mtn. to Algerita & House		\$8,642.00				\$8,642.00
9.) Fence Merrit riparian area		\$625.00				\$625.00
10.) Install fence around tank in Mathews pasture		\$625.00				\$625.00
11.) Information Transfer						
12.) Final Report						
Matching Total		\$36,255.00		\$11,000.00		\$47,255.00

- (1) Administration costs are limited to 5% of the total dollars requested for a project.
- (2) Include wages, salaries, and fringe benefits.
- (3) Attach list of capital equipment expenditures over \$1,000.00, Water (CAP/Effluent), etc.
- (4) Use the value of volunteer labor based on current minimum wage; technical volunteer labor can be based on an hourly fee comparable to a consultant's fee.

**Budget Information – AWPFF Request****Task 2**

Direct Labor Cost for Monitoring = \$1,975.00

**Task 3**

Outside Services:

Advantage Well Drilling @ \$10,000.00 per well = \$30,000.00

**Task 4**

Direct Labor Cost:

Pipe layers @ 25 cents per foot = \$7,810.00

Other Direct Costs:

5.5 miles of 1.5" Polyethylene pipe @ .35 cents per foot = \$10,934.00

12,000 gallon water storage tank @ 3 dollars per gallon = \$4,000.00

Three 8' troughs and floats @ \$270.00 apiece = \$810.00

Two 6'x2' troughs and floats @ \$67.50 = \$135.00

Transitions, Air Relief Valves, Ball Valves & Reducers @ \$112.00 = \$560.00

Freight For Pipe = \$1,200.00

Construction Transit For Shooting Grade On Troughs = \$1,500.00

One 2.5 kW generator @ \$600.00

**Task 5**

Direct Labor Cost:

Pipe layers @ 25 cents per foot = \$21,428.50

Other Direct Costs:

16' windmill with a 4 hp electric pump = \$26,500.00

15 miles of 1.5" Polyethylene pipe @ .35 cents per foot = \$30,000.00

12,000 gallon water storage tank @ 3 dollars per gallon = \$4,000.00

Five 8' troughs and floats @ \$270.00 apiece = \$1,330.00

Fourteen 6'x2' troughs and floats @ \$67.50 = \$1,890.00

Transitions, Air Relief Valves, Ball Valves & Reducers @ \$112.00 = \$2,464.00

Freight For Pipe = \$1,200.00

**Task 6**

Direct Labor Cost:

Pipe layers @ 25 cents per foot = \$5,020.00

Other Direct Costs:

12' windmill with a 4 hp electric pump = \$11,750.00

3.55 miles of 1.5" Polyethylene pipe @ .35 cents per foot = \$7,028.00

12,000 gallon water storage tank @ 3 dollars per gallon = \$4,000.00

Three 8' troughs and floats @ \$270.00 apiece = \$810.00

Three 6'x2' troughs and floats @ \$67.50 = \$405.00

Transitions, Air Relief Valves, Ball Valves & Reducers @ \$112.00 = \$672.00

Freight For Pipe = \$1,200.00

**Task 7**

Direct Labor Cost:

Pipe layers @ 25 cents per foot = \$3,572.00

Other Direct Costs:

1.5 hp electric pump = \$3,000.00

2.5 miles of 1.5" Polyethylene pipe @ .35 cents per foot = \$5,000.00

3,000 gallon water storage tank @ 3 dollars per gallon = \$2,000.00

Three 8' troughs and floats @ \$270.00 apiece = \$810.00

Transitions, Air Relief Valves, Ball Valves & Reducers @ \$112.00 = \$336.00

Freight For Pipe = \$1,200.00

**Task 8**

Direct Labor Cost:

Pipe layers @ 25 cents per foot = \$2,857.00

Other Direct Costs:

2 miles of 1.5" Polyethylene pipe @ .35 cents per foot = \$4,000.00

One 8' trough and float @ \$270.00 apiece = \$270.00

Two 6' troughs and floats @ \$270.00 apiece = \$270.00

Transitions, Air Relief Valves, Ball Valves & Reducers @ \$112.00 = \$336.00

Freight For Pipe = \$1,200.00

**Task 9**

Direct Labor Cost:

Labor to install 1 mile of 4 strand barbed-wire fence around the riparian area in the Oso Negro pasture @ \$1.00 per foot = \$5280.00

Other Direct Costs:

Material for 1 mile four stranded barbed wire fence with steel cemented corner posts = \$1,929.00

**Task 10****Direct Labor Cost:**

Labor to install 1/4 mile of 4 strand barbed-wire fence around the riparian area in the Oso Negro pasture @ \$.75¢ per foot = \$1065.00.00

**Other Direct Costs:**

Material for 1/4 mile four stranded barbed wire fence with steel cemented corner posts = \$732.00

**Task 11**

Implement Monitoring Plan as in Task # 2

**Task 12****Direct Labor Cost:**

Project Manager 3 days @ \$166.66/day = \$500.00

**Task 12****Direct Labor Cost:**

Project Manager 20 days @ \$150.00/day = \$3,000.00

## Budget Information - Matching

### Detailed Budget Breakdown - Matching

#### Task 1

##### Direct Labor

Permits for NEPA Compliance & SHPO = \$9,000.00

#### Task 2

##### Direct Labor

USFS Monitoring for 3 years = \$2,000.00

#### Task 4

##### Direct Labor:

120 horse days @ \$45.00 per day = \$5,400.00

4 months truck use @ \$334.00 per month = \$1,336.00

4 month truck use for mileage @ .31¢ per mile = \$248.00

#### Task 5

##### Direct Labor:

120 horse days @ \$45.00 per day = \$5,400.00

7 months truck use @ \$334.00 per month = \$2,338.00

7 month truck use for mileage @ .31¢ per mile = \$775.00

#### Task 6

##### Direct Labor:

150 horse days @ \$45.00 per day = \$6,750.00

5 months truck use @ \$334.00 per month = \$1,670.00

5 month truck use for mileage @ .31¢ per mile = \$554.00

#### Task 7

##### Direct Labor:

5 months truck use @ \$334.00 per month = \$1,670.00

5 month truck use for mileage @ .31¢ per mile = \$222.00

#### Task 8

##### Direct Labor:

150 horse days @ \$45.00 per day = \$6,750.00

5 months truck use @ \$334.00 per month = \$1,670.00

5 month truck use for mileage @ .31¢ per mile = \$222.00

#### Task 9

1.5 months truck use @ \$334.00 per month = \$501.00

1.5 month truck use for mileage @ .31¢ per mile = \$124.00

#### Task 10

1.5 months truck use @ \$334.00 per month = \$501.00

1.5 month truck use for mileage @ .31¢ per mile = \$124.00

### Existing Plans

**Existing Plans:** The Lyle Canyon Allotment Riparian Area Restoration Project Phase 1 is almost completed. We have 1.25 miles of fence to complete, out of 11.5 miles, and we will have this project finished. We feel that this is a very great accomplishment in that we just signed the contract at the end of October. With drought conditions it will take quite some time to see exactly what we have accomplished, but we are continuing to monitor the effects of the project.

We are beginning to work with the National Wild Turkey Federation. The Huachuca Mountains have the only strain of pure Goulds Turkeys in this part of the country. We are hoping to increase the turkeys habitat by placing more water in the area. The turkeys are very abundant in the Merrit Pasture, but they don't range far because of lack of water. We feel that by increasing the waters in the turkeys habitat we should thus increase the numbers of the turkey, possibly increasing so much that one day there would be a huntable population in the Huachuca Mountains.

As stated before we are committed to a monitoring plan that will benefit the riparian area and upland water sheds for a years to come. Monitoring, we feel, is the only way to scientifically prove what is actually happening on the land. Very little data has been collected on riparian areas and there function, and we are hoping to become a key player in the collection of data.

**Community Support:**

Dean Fish: Santa Cruz County Cooperative Extension

Randall A. Smith: ACTING District Ranger

Jim Pyeatt: Neighboring Rancher

# Pyeatt ~~M~~ ~~X~~ Ranch

Jim & Marie Pyeatt HC1 Box 427 Elgin, AZ 85611-9725 (520) 455-5352

July 23, 1999

Arizona Department of Water Resources  
Water Protection Fund Commission  
500 North Third Street  
Phoenix, AZ 85004

To Whom It May Concern:

I strongly support the Byrd Lindsey Lyle Canyon Riparian Restoration Phase II Project so that he may continue with the programmed improvements for his ranch. As a neighboring rancher, I feel that his project is a great benefit to the entire ecosystem, and has become a complement to the request that I am submitting to the AWPFC Commission. Since my proposal can only cover the area of my ranch, the fact that Mr. Lindsey is working to restore another part of the same watershed, can only help to enhance the entire Lyle Canyon waterway.

As part of the Byrd Lindsey Lyle Canyon Riparian Restoration Project, funded by the AWPFC in 1998, a well was drilled and a pump placed in it. However, there was no storage tank included at that time. Since his Forest Service Allotment borders my Forest Service Allotment on two sides, he would like to place a 12,000 gallon storage tank and supporting pipelines on my allotment. This would give him the opportunity to provide permanent water stations in two of his pastures, by using the one well. This also gives me the opportunity to create new permanent water stations on my allotment away from riparian areas. Just this part of Mr. Lindsey's project is helping to restore riparian areas on both of our allotments. The rest of his proposal will furnish improvements for other parts of his ranch.

The Lindsey Ranch, the US Forest Service (Sierra Vista District), and myself have come to a mutual agreement regarding the placement of the water storage tank, livestock watering facilities and the pipeline to service them. The pipeline will be placed above ground. The Lindseys have also agreed to let me use water from his well and storage tank for my water stations. The USFS also supports this plan.

I feel that if it were possible for these two projects to be funded, the Lindsey restoration project and my restoration project, it would be a chance for a greater amount of the Lyle Canyon watershed to be restored and maintained in a healthy, functioning capacity.

Sincerely,

  
James H. Pyeatt

# Cooperative Extension

Santa Cruz County Office • County Complex, 2150 N. Congress, Rm. 106 • Nogales, AZ 85621 • (520) 761-7849 • FAX (520) 761-7842

July 27, 1999

Arizona Department of Water Resources  
Arizona Water Protection Fund

To Whom It May Concern:

I am writing in enthusiastic support of the proposal to restore and protect multiple riparian areas on the Lyle Canyon and Collins Allotments. This proposal allows the great work that was started last year to continue on this allotment. As the Santa Cruz County Agriculture and Natural Resources Agent for The University of Arizona Cooperative Extension, I realize the importance of projects like these. Working with land managers on the ground has been one of the strengths of our organization for several years.

This project encompasses and benefits many different aspects of the watershed. By enhancing and protecting the riparian areas, many benefits to the ecosystem and to the sustainability of livestock grazing on the ranch will be strengthened. These benefits are clearly outlined in the proposal to be submitted to the Arizona Department of Water Resources. In addition, the positive effects will influence the health of surrounding allotments. The overall grazing management of the operation will be improved, as well as the watershed and the habitat for wildlife and endangered species. In turn, this will be very beneficial for both the land manager and the ecosystem.

The University of Arizona Cooperative Extension will assist the United States Forest Service in monitoring the vegetation on the ranch. This monitoring information is crucial to determine if the land is responding to the management changes.

In summary, The University of Arizona Cooperative Extension, Santa Cruz County strongly supports this proposal. It will be of great benefit to the area natural resources, wildlife habitat and the watershed.

Sincerely,



Dean Fish  
Agriculture/Natural Resources Agent



United States  
Department of  
Agriculture

Forest  
Service

Sierra Vista Ranger District  
Coronado National Forest  
fax 520/670-4640

5990 S. Highway 92  
Hereford, AZ 85615  
phone 520/378-0311

File Code: 1580

Date: July 28, 1999

Arizona Department of Water Resources  
Water Protection Fund Commission  
500 North Third Street  
Phoenix, AZ 85004

To Whom it May Concern:

I am writing concerning the grant application from Byrd Lindsey for the Lyle Canyon Riparian Area Restoration, Phase II. This project ties into the ongoing NEPA process for the Lyle Canyon Allotment Management Plan and permit issuance. Mr. Lindsey holds the permit for the Lyle Canyon Allotment. The improvements proposed for this allotment in the grant application are in the proposed action that will be analyzed in an Environmental Assessment. Implementation of these projects will enhance the livestock operation and will make it possible for improvement to occur in several ephemeral riparian canyons. Because our range betterment dollars are limited, however, we cannot guarantee funding will be available to build the improvements any time soon.

We expect to have an environmental assessment out for public comment by late August. After that we will still have a 30 day comment period and 45 day appeal period before work can begin. Therefore, until the NEPA process is complete for Lyle Canyon Allotment, we cannot make a commitment for these improvements. A potential allocation for a portion of Collins Canyon allotment will be considered as an alternative in the Environmental Assessment but this does not mean that it is going to be approved. Thus, any proposed improvements on Collins Canyon are speculative at this point in time. With that understanding I support Byrd Lindsey's efforts to obtain a grant to accomplish the work that ultimately is approved and included in the final decision document.

The Forest Service will contribute by covering the cost of NEPA compliance. The cost of the ongoing NEPA effort is expected to be approximately \$9,000. An additional \$2,000 will be spent during project implementation to insure Forest Service specifications are followed and on the ground biological surveys are done. We do not expect to be able to increase our level of monitoring significantly. Therefore, if two people spend one day on the allotment per year, we will spend approximately \$2,000 on monitoring over the course of 3 years. If you need further information please contact myself or Laura Dupee, Range & Watershed Staff.

Sincerely,

RANDALL A. SMITH  
Acting District Ranger



## Personnel

### Personnel:

#### Byrd B. Lindsey: Ranch owner and retired X-Ray Technician

Born Personal Identifiable Information in Tempe Arizona to a ranching family.  
 He was raised for a good part of his life by his grand-father on the ranch he now owns and operates.  
 Has every skill ever needed to operate a long term cattle operation.  
 Learned what he knows through years of hard work and caring for the land  
 Skills:  
 Mechanic, welder, veterinarian, electrician, long time fence builder, active environmentalists.

#### Stephen G. Lindsey: Ranch Manager

Born in Patagonia Arizona on Personal Identifiable Information to Byrd and Elaine Lindsey, long time ranchers.  
 Has worked a ranch all his life.  
 Skills:  
 Well Digger, fence builder, windmill setter, cowman and cowboy poet  
 Has a love for the land that is unsurpassed

#### Naomi Ruth Lindsey: Domestic Engineer

Born in Benson Arizona on Personal Identifiable Information Raised in Benson  
 Direct participant in the management of the ranch  
 Helps doctor  
 Rides, plus keeps a great house  
 Skills:  
 To numerous to name

#### Joshua D. Lindsey: Cowboy

Born in Tucson Arizona on Personal Identifiable Information to Stephen G. And Naomi R. Lindsey  
 Direct participant in the ranch and all the duties assigned  
 Skills:  
 Farrier, cowboy, tractor operator fence builder, well digger and windmill setter

#### Foster Pump

Bailey Foster  
 PO Box 271  
 Sonoita, AZ 85637  
 Federal ID # Personal Identifiable Information  
 Contractors Lic. Number Commercial-079268 Residential-079003

#### Advantage Well Drilling Inc.

Dale Flockerzi  
 65025 E Canyon drive  
 Tucson, AZ 85739  
 DWR 616 ROC 128015

**SHPO Certification**

(must be submitted)

This certification is required by regulations implementing the State Preservation Act (A.R.S. 41-861 through 41-864), effective July 24, 1982. It is understood that recipients of state funds are required to comply with this law throughout the project period. The State Historic Preservation Act mandates that all State agencies consider the potential of activities or projects to impact significant cultural resources. Each State agency is required to consult with the State Historic Preservation Officer with regard to those activities or projects that may impact cultural resources. All projects that affect the ground-surface that are funded by AWPf require SHPO clearance including those on private lands.

**PROJECT TITLE:** \_\_\_\_\_

Please answer the following questions which provide information about the potential of the project to impact cultural resources:

1. Does the project have the potential to disturb the surface and/or subsurface of the ground?  
**YES: X**      **NO: \_\_\_\_\_**
2. Are there any buildings or structures (including mines, bridges, dams, canals, etc.) which are 50 years or older within the project area that have the potential to be disturbed by the proposed activity?  
**YES: \_\_\_\_\_**      **NO: X \_\_\_\_\_**
3. Are there any known prehistoric and/or historic archaeological sites within the project area?  
**YES: \_\_\_\_\_**      **NO: X \_\_\_\_\_**
4. Are you aware of any archeological investigations that have been performed within one (1) mile of the project area?  
**YES: \_\_\_\_\_**      **NO: X \_\_\_\_\_**

If you have answered "NO" to all of the above questions, please sign on the line below certifying that the activity or project is in compliance (and will remain in compliance throughout the project period) with the State Historic Preservation Act. **YOU MUST SUBMIT THIS FORM WITH YOUR COMPLETED APPLICATION.**

\_\_\_\_\_  
 Authorized Signature

\_\_\_\_\_  
 Date

If you have answered "YES" to any of the questions above, please answer the following questions.

**SHPO Certification**

If you answered yes to question #1, specifically identify any surface or subsurface impacts that are expected. Attach extra sheets if more space is needed.

We will drill the wells in the East Pasture of the Canelo Allotment, in the Oso Negro Pasture of the Collins allotment and the Merit Pasture of the Lyle Canyon Allotment. We will also grade pads to set the water tanks on these same sights. We will build fences around the riparian area in the Oso Negro Pasture and the Mathews Tank in the Mathews Pasture.

If you answered yes to question #1, describe the current ground surface condition within the entire project area boundary (i.e., is the ground in a natural undisturbed condition, or has it been bladed, paved, graded, used for agriculture, etc.). Attach extra sheets if more space is needed.

The ground is in natural undisturbed condition.

If you answered yes to question #2, list the sites, their names, and provide a brief description of the site.

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Has the project area been previously surveyed for cultural resources by a qualified Archaeologist?

YES: \_\_\_\_\_ NO: \_\_\_\_\_

DON'T KNOW: X \_\_\_\_\_

If yes, submit a copy of the Archaeologist's report with your application.

**YOU MUST SUBMIT THIS FORM WITH YOUR COMPLETED APPLICATION**

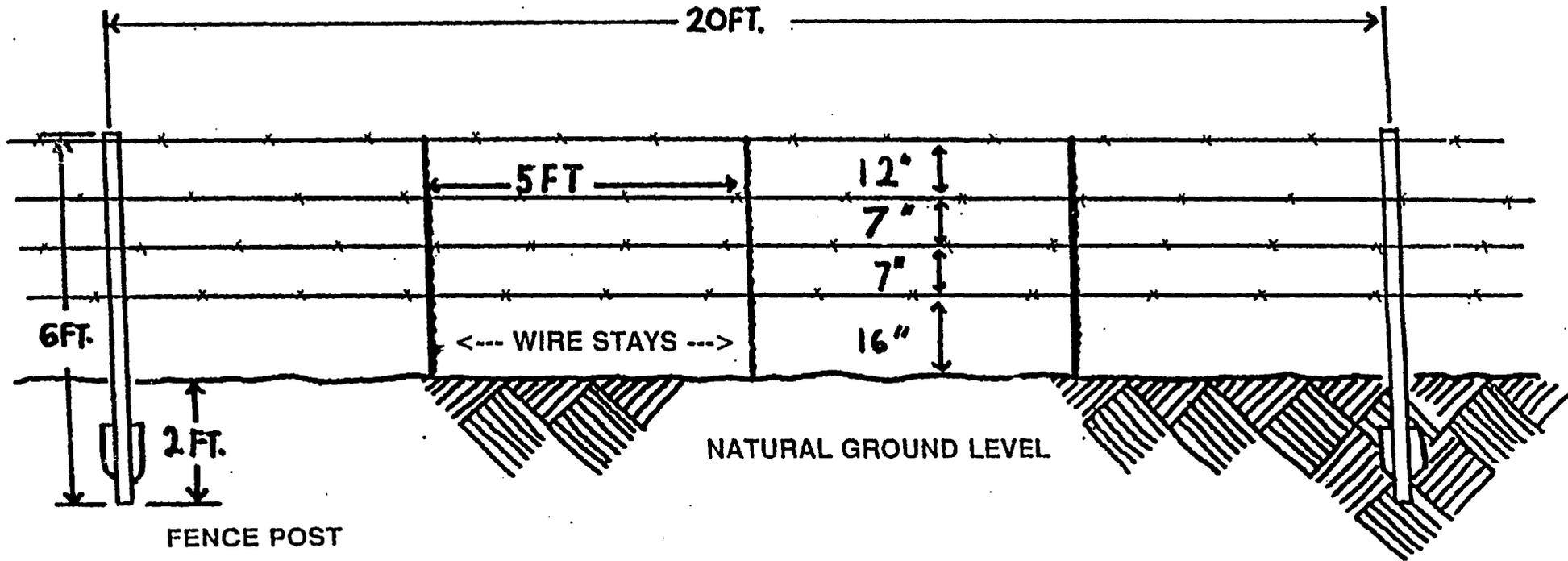


# CORONADO NATIONAL FOREST

FENCE CONSTRUCTION DETAIL

TYPICAL FOUR-WIRE FENCE SECTION

ATTACHMENT A



LINE BRACE  
TIGHT SOIL

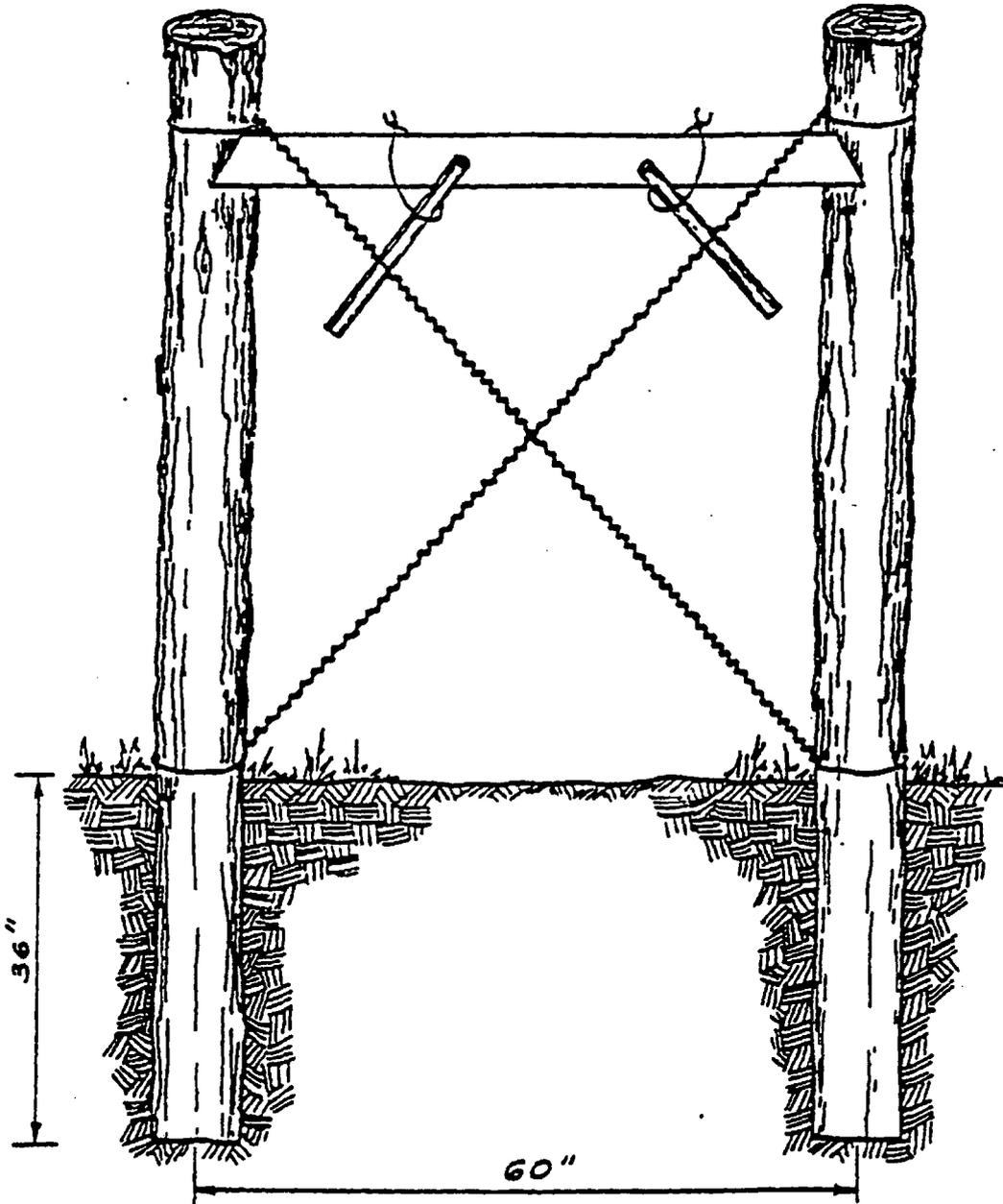
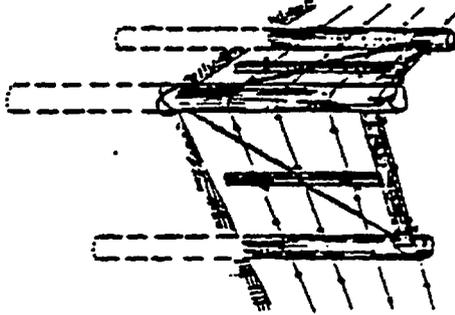
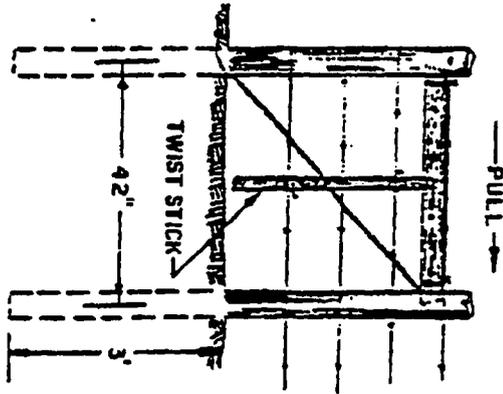


EXHIBIT 9

FIGURE 5A



CORNER  
TIGHT SOIL



**Stephen & Naomi Lindsey**  
**E Lazy H Ranch**  
**HC1 Box 344**  
**Elgin, Arizona 85611**  
**(520) 455-9297**

**Date July\31\1999**

Dear Commissioners:

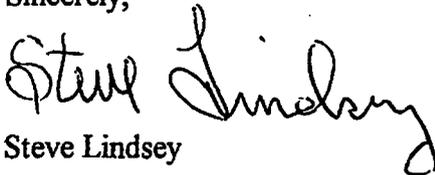
I am writing in reference to my families AWPf Grant proposal, The Lyle Canyon Allotment Riparian Area Restoration Project Phase 2. We know that this is a very ambitious project, so we felt that you folks probably would think so also.

Although the project will take a great amount of work, we see the need even more than ever to have additional water in the upland watersheds, especially after this last drought. And as you know from our last AWPf grant that we are not afraid of work. We have accomplished 98% of the work on that project in 7 months. My family did all the work ourselves with the exception of the wells and the dirt tank.

As we have stated in the Summary, all the water developments prior to 1998 have been in the riparian areas. With the AWPf Grant in 1998 we were able to install 2.5 miles of pipeline, two wells and 6 drinkers in the uplands. But we have learned that this is not near enough. This is why we need to implement the second phase of this project.

The riparian areas have suffered because of the drought, and it is my families desire to make a difference on the land now and for years to come.

Thank you for considering our proposal.  
Sincerely,

  
Steve Lindsey

WPK 0227

Dan and Jo Nell Milligan  
Canelo Springs Ranch  
HC-1 Box 346  
Elgin AZ 85611



July 29, 1999

To whom it may concern:

Mr. Steve Lindsey has requested that I write a letter of commendation, and I am pleased to do so. As a neighbor and acquaintance of Mr. Lindsey on a daily basis, it is easy to observe a strong desire on his part to provide and maintain a viable and productive environment. An environment that maintains, restores, and enhances riparian diversity, density and cover for wildlife habitat. He also demonstrates a strong desire to utilize good grazing practices, which will enhance the overall quality of the environment within the specified allotments.

I find Mr. Lindsey to be responsible, sincere, honest, committed, and most capable of carrying forth with the propositions outlined in the grant proposal. It is my opinion that Mr. Lindsey will provide a beneficial return on the investment.

I strongly recommend consideration of his grant application.

Sincerely,

A handwritten signature in cursive script that reads "Dan Milligan".

Dan Milligan  
Manager, Canelo Springs Ranch



MERRILL CANYON - NEED MORE AGE VARIATION

Old-trees



Lyle Canyon - Need more diverse Age  
CLASS

200,000 TO 1,000,000 PER YEAR



11/18/19

Well sight For Oso Nigro Well

06.140.234 1310 100000000.0000



# Brushy Canyon Stabilize Banks

2018 11/20/2018 10:00 AM







Lyle Canyon

Would like more Vegetation & Diversity of  
Age Class



2014.08.24

Lyle Canyon in Upper Lyle Pasture.  
MORE Riparian Species



Lyle Canyon in Upper Lyle Pasture

Need more Age diversity in Riparian

Species



7/28/99

Merritt Water - Need more Vegetation

010.000077 13406 N49W41E21N 8165



MERRIT water, need more vegetation

00-992924 12/26 14:00:00



Well sight for the Hawkeye Well

06-11-2007 11:00 AM



6/28/99

Well & Tank Sight on Canelo Allotment

46-180347-1446 AAAA 1201 0105



Algerita Canyon in the Weince Pasture  
Would like to see MORE Grasses & Riparian  
Trees in the Bottom.



2008 08 08

PAGE Canyon & Brushy Canyon

Would like more Deer Grass & Riparian  
TREES



MERRIT WATER - Would like to see more Deer  
Grass & Sycamore trees. The trees here  
Have been Browsed



7/28/99

Brushy Canyon - Not Bad from this Angle

04.17.08 13:32 Nikon D100 016



Where Page & Brushy Converge - Needs More  
Deer GRASS & TREES @ various stages of maturity



## ARIZONA WATER PROTECTION FUND COMMISSION

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June 11, 2003

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500 North Third Street  
Phoenix, Arizona 85004

Phone: (602) 417-2400,  
Extension 7016

Fax: (602) 417-2423

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**Commission Members:**

*Roger S. Manning, Chair*  
*David Kirchner, Vice-Chair*  
*Lynda Adams*  
*Benny Aja*  
*William Beyer*  
*Paul Brick*  
*Samantha Campana*  
*Daniel Eddy, Jr.*  
*John Keane*  
*Doug Koppinger*  
*Dawn Meidinger*  
*Mark Myers*  
*John Newman*  
*Paul Orme*

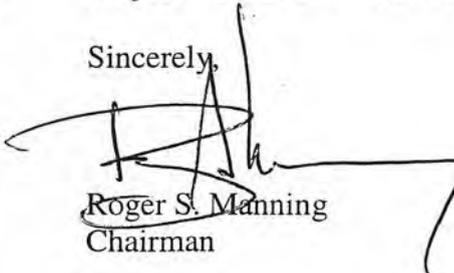
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Mr. Jeff Burgess  
1922 E. Orion Street  
Tempe, AZ 85283

Dear Mr. Burgess,

Thank you for submitting your letter of concern dated June 4, 2003 regarding Arizona Water Protection Fund (AWPF) grant #99-070WPF titled "Lyle Canyon Allotment Riparian Restoration Project - Phase 2". The AWPF always appreciates public input.

Sincerely,



Roger S. Manning  
Chairman

*...to allow the people of this state to prosper while protecting and restoring this state's rivers and streams and associated riparian habitats...to provide an annual source of funds for the development and implementation of measures ...to maintain, enhance and restore rivers and streams and associated riparian habitats..."*