

**ARIZONA GAME AND FISH DEPARTMENT  
 HABITAT PARTNERSHIP COMMITTEE  
 HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number:	15-202
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**PROJECT INFORMATION**

<b>Project Title:</b> Pat Springs Pipeline Operation and Maintenance 2016-2017	
<b>Region and Game Management Unit:</b> Region II, GMU7E	
<b>Local Habitat Partnership Committee (LHPC):</b> <ul style="list-style-type: none"> <li>Williams/Flagstaff</li> </ul>	<b>Was the project presented to the LHPC?</b> YES[X] NO[]
<b>Has this project been submitted in previous years?</b> YES[X] NO[] <b>If Yes, was it funded?</b> YES[X] NO[] → <b>Funded HPC Project #(s):</b> 13-202	
<b>Project Type:</b> Pipeline O&M	
<b>Brief Project Summary:</b> Provide for the Operation and Maintenance of the Pat Springs water pipeline for two years, 2016-2017	
<b>Big Game Wildlife Species to Benefit (% benefit per species) :</b> Elk, 33%, Mule Deer 33% and pronghorn 33%. Benefit will be the distribution, storage and accessibility of a dependable water supply throughout this 200 sq. mile important range	

<b>Implementation Schedule (Month/Day/Year):</b>  <u>Project Start Date:</u> April 2016  <u>Project End Date:</u> October 2017	<b>Environmental Compliance:</b> NEPA Completed: Yes[X] No[] N/A[] Projected Completion Date: _____  State Historic Preservation Office - Archaeological Clearance: (Provide Attachment) Yes[X] No[] N/A[] Projected Completion Date: _____  Arizona Game and Fish Department EA Checklist: N/A[X] To be Completed by: _____ Projected Completion Date: _____
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**PROJECT FUNDING**

<b>Special Big Game License Tag Funds Requested:</b>	\$ 5000, \$2500 each year
<b>Cost Share or Matching Funds:</b>	\$ 10,800
<b>Total Project Costs:</b>	<b>\$ 15,800</b>

**PARTICIPANT INFORMATION**

<b>Applicant</b> (please print): Tom Mackin, Coconino Sportsmen	<b>Address:</b> PO Box 1301, Flagstaff, AZ. 86002	<b>E-mail:</b> tmmackin@q.com
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<b>Telephone:</b> 928-779-9127	<b>Date:</b> August 3, 2015
<b>AGFD Contact and Phone No.</b> (If applicant is not AGFD personnel): Larry Phoenix, 928-774-5045	
<b>Project has been coordinated with:</b> Larry Phoenix, Steve Rosenstock, AZGFD Region II, Coconino NF, Flagstaff Ranger District	

**NEED STATEMENT – PROBLEM ANALYSIS:** The north and east sides of the San Francisco Peaks provide excellent summer and winter habitat for wide variety of game and non-game species, except for a dependable source of water. While there are numerous earthen tanks and some natural depressions, there is no dependable supply of water throughout the 200-300 square miles under discussion. The Pat Springs Pipeline, a 40 mile long spring fed water supply, was originally built in the mid 1950's to provide water for livestock on numerous pastures throughout the grazing allotment but it fell into disrepair by the late 1980's. The Coconino Sportsmen were approached by the Forest Service in late 1996 to rehabilitate and operate the pipeline for 5 years and an agreement was signed at that time. The Coconino Sportsmen were members of the Flagstaff HPC and received partial funding for that initial 5 year period. Since that time, additional funding for 12 more years was received as well as several enhancements above normal maintenance and operation, including below ground, year round storage tanks and drinkers. All parties involved, including the USFS, AZGFD, HPC "partners" and numerous others have documented the widespread benefits to all species in the effected area. The Coconino Sportsmen have entered into a new agreement for continued operation and maintenance. Continuing our funding through the HPC process will enable the Coconino Sportsmen to operate, maintain and improve this valuable resource/water supply.

**PROJECT OBJECTIVES:** Our objective is to provide a dependable water supply for multiple wildlife species on approximately 200 square miles of critical wildlife range through the continuing operation and maintenance of the Pat Springs Pipeline. The main line, stretching over 40 miles with approximately 20 storage tanks and 33 drinkers with a total capacity of over 400,000 gallons, needs to be drained each fall, with over 100 drains, then reassembled in the spring, once temperatures can no longer cause freeze damage. The entire pipeline normally operates between early May and mid October with additional water provided from storage tanks to below ground drinkers year round on the most northern and eastern portion of the project at the lowest elevations.

**PROJECT DESCRIPTION AND STRATEGIES:** Through the use of the existing infrastructure, our maintenance and operation of the pipeline will provide a valuable commodity, potable, dependable water, for all wildlife in the outlined area. Throughout the operating season, the pipeline will be monitored at least weekly, with repairs being

made as they are discovered. Supplies will be inventoried to maximize operating uptime and widespread distribution of the water throughout this area.

(How will you implement project)

### **PROJECT LOCATION**

(Please provide lat/long in decimal degrees of project area using datum WGS84. If project is larger than one point, please provide multiple lat/long points or an existing shapefile of the project area)  
Pipeline Start N35 23 36.49 W111 41 22.03, Pipeline N. End N35 32 11.68 W111 42 25.29,  
NE End N35 31 49.68 W111 34 04.09

### **LAND OWNERSHIP AT THE PROJECT SITE(S):**

(If the project area is private property, please state specifically and provide the landowner's name)

- U.S.F.S.

*IF PRIVATE PROPERTY, IS THERE A COOPERATIVE BIG GAME STEWARDSHIP or LANDOWNER AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?*

YES[] NO[] N/A[]

**HABITAT DESCRIPTION:** The pipeline starts in the ponderosa pines and aspens of the White Horse Hills at an elevation of approximately 8600 feet and ends in mixed pinyon juniper and open grasslands at approximately 6000 feet.

### **ITEMIZED USE OF FUNDS:**

Special Big Game License Tag Funds Funds will be utilized to pay for necessary plumbing supplies including pipe(s), valves, floats, adhesives and other consumables. The annual cost for plumbing supplies and consumables will be approximately \$1500. Replacement drinkers will cost approximately \$1000 per year. Many of the current drinkers are the original WWII engine shipping cases and now after 70+ years they're starting to leak and rust out. In addition, they are approximately 40" tall making them inaccessible for small animals, turkeys, fawns and elk calves.

Cost Share or Matching Funds (for volunteer labor rates please refer to the worksheet below)

The Coconino Sportsmen will provide all labor each year, estimated to be approximately 350 hours at a value of \$4900. The USFS provides fencing and other items valued at approximately \$1000 per year.

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:** Other labor assistance has come from individuals with some of the “partner groups” and AZGFD personnel. In addition, the permittee for the grazing allotment is the Navajo Nation and they’ve increasingly provided support with water movement, monitoring and minor repairs. Continued support from these individuals and agencies should continue for this next project period

**WOULD IMPLEMENTATION OF THIS PROJECT ASSIST IN PROVIDING, MAINTAINING, OR FACILITATING RECREATIONAL ACCESS?**

YESX[] NO[] N/A[] While access has not been an issue in this area, by dispersing water throughout the area, it will also increase watering opportunities and therefore lower crowding at these sites.

**PROJECT MONITORING PLAN:** The pipeline is monitored at least weekly, depending upon water flows from the spring and other climatic conditions. Reports from AZGFD, USFS, and other interested personnel also assist in monitoring activities.

**PROJECT MAINTENANCE:** The project is of an annual activity type to include all maintenance and operation. As in the past, additional enhancements adjacent to the project will be handled via separate project submissions.

**PROJECT COMPLETION REPORT TO BE FILED BY:** At the end of each year, a written report will be submitted to the HPC Coordinator by the Coconino Sportsmen outlining the annual activities as well as a written invoice to cover expenses incurred.

**WATER DEVELOPMENT PROJECTS** (please use the worksheet below):

**TREE CLEARING/REMOVAL PROJECTS** (please use the worksheet below):

**ATTACHMENTS:**

(Please provide cultural clearance documentation from land management agency, e.g., FONSI, Inventory Standards, etc. Also attach any project pictures)



## **ARIZONA GAME AND FISH DEPARTMENT WATER DEVELOPMENT WORKSHEET**

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

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**  
2-4   4-6   6-8   8-10   10-12   12-14   14-16   >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**

YES  (please complete #5 below)   NO  (skip #5 below)

- 5) **For the accessible, perennial water source nearest this project:**

Name of water source:

Type of water source (catchment, spring, dirt tank):

Ownership of water source:

Distance in miles from project:

- 6) **Is the target wildlife species a result of transplant efforts? YES  NO**

- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument). If private land, list landowner.**

- 8) **Please provide the following information about access to the proposed site:**

Type of access (mark one):   2x4 vehicles   4x4 only   foot only\*\*

\*\*If foot access only: Distance in miles: \_\_\_\_\_   Approximate hiking time: \_\_\_\_\_

-- Does access to this site require crossing private or tribal lands? YES  NO

-- Please describe any restrictions to public access:

- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**

- 10) **Was a site visit completed? Yes  No**

If Yes, please list personnel that attended and date.

**ARIZONA GAME AND FISH DEPARTMENT**  
**TREE CLEARING/REMOVAL WORKSHEET**

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

- 1) **What is the estimated acreage of the project?**
  
- 2) **How are the trees going to be cleared? (agra axe, chain saw, grubbing, push, chaining):**
  
- 3) **What is the estimated number of trees per acre?**
  
- 4) **Describe trees to be cleared (species, estimated diameter, single stem, multi-stem):**
  
- 5) **Describe terrain (slope, soil type, rocks)**
  
- 6) **Please list any special land management status for the project site (e.g. Wilderness, National Park, National Monument). If private land, list landowner.**
  
- 7) **Please provide the following information about access to the proposed site:**  
Type of access (mark one): 2x4 vehicles 4x4 only Foot only\*\*

\*\*If foot access only: Distance in miles:    Approx. hiking time:

Does access to this site require crossing private or tribal lands? YES[] NO[]

Is the site relatively accessible for tree removal equipment? YES[] NO[]

Please describe any restrictions to public access:

## ARIZONA GAME AND FISH DEPARTMENT VOLUNTEER HOURLY RATES AND CLASSIFICATIONS WORKSHEET

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

The value of volunteer labor should be calculated at the hourly rate of an employee doing similar work, or using hourly rates from the Arizona Department of Administration's Human Resource web site, plus a standard ERE rate of 35%. [http://www.hr.state.az.us/ClassComp/CC\\_Job\\_Titles\\_with\\_Ranges.asp](http://www.hr.state.az.us/ClassComp/CC_Job_Titles_with_Ranges.asp)

\$0.445/mile should be the calculation used for mileage.

<b>Water Development</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Habitat Restoration and Clean Up</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Fisheries</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Nongame Branch Project</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Misc/office work</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			varies	
<b>Community Services</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$7.44	
<b>Events and Other</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Research Branch</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$14.14	
<b>Wildlife Area Hosts</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$17.44	
<b>Education Programs</b>	<b>Volunteer Hours</b>	<b>Volunteer Miles</b>	<b>Hourly Rate</b>	<b>Estimated Value</b>
			\$16.07	
<b>Totals</b>				

2-12-15

Hi Tom,

I just received confirmation from our Habitat Branch that the Volunteer Service Agreement you presented to me will indeed suffice for cultural clearance with your HPC project. Please provide me with the most current agreement for the different National Forest's that you will be working with. If you have any questions please let me know. Glad to see we don't need any additional documentation and we can get good work completed in region 2. Thank you!

**Dennis Fogle**

### **Additional Volunteer Information**

The Coconino Sportsmen, under the guidance of Forest Service Range Personnel and Foresters on the Flagstaff RD, will be working on a variety of projects and tasks as needed. These projects and tasks include but are not limited to the following: maintenance of wildlife and livestock waters including pipelines, storage tanks, drinkers, trick tanks, improvement and construction of new tanks as approved, maintenance and operation of the Pat Springs Pipeline, and fence repair, etc. Work may involve all of the following: moderate to heavy lifting; walking on uneven and steep terrain at high altitudes; working with common hand tools; working with sharp metal and wire; bending and stooping; etc

Fence monitoring, maintenance, and repair for Adopted Fence Number(s):

### **Duties and Responsibilities**

Volunteers will monitor their adopted section of fence(s) twice per year in May and Sept./Oct. by walking the perimeter of the fence to check for breaks and weaknesses in the fence. Volunteers will also perform light to moderate fence maintenance/repair as needed. This work will require walking and standing on uneven, rough terrain in a forest setting in variable weather. Good sturdy boots or heavy shoes with ankle support and good treads are essential to maintain safe footing and protect your feet from common forest hazards and dropped tools. Long pants and long sleeve shirts are also required for work to protect limbs from brush, wire, insects, etc. A hard hat is required while working in aspen stands and the Forest Service will provide this to volunteers on project days. Most of these aspen stands have large standing dead aspen trees that pose a hazard. Trees may fall at any time and care must be taken when working around these dead trees. Work should not be performed in heavy winds. Fence material includes metal t-posts and wire field fence. These items can be heavy and awkward to carry and work with, therefore information will be provided on how to handle these materials safely. Heavy gloves must also be worn at all times to protect hands from sharp wire, pinched fingers, prevent blisters, etc.

Volunteers may also assist in projects which support the district annual program of work.

Transportation to and from the work site is the Volunteer's responsibility and compensation for vehicle maintenance; fuel; etc. are not available. To reach many of the aspen fences, you will be required to drive on dirt roads. High clearance vehicles may be needed. Four-wheel drive vehicles are recommended but not required. Watch for potholes, steep embankments, flooded or washed out areas, wildlife, dust, etc. Drive slowly.

Volunteer(s) must coordinate work with Forester, Patty Ringle, who will also help Volunteer(s) with tools, supplies, safety information, and project direction. Requirements of volunteers who adopt a fence are: 1) to follow all safety direction and work techniques outlined by the Forester including holding and documenting tailgate safety meetings on the proper form; 2) coordinate project days in advance with the Forester; 3) report back to the Forester after work is completed. Volunteer(s) must report type and amount of work accomplished and number of volunteer hours contributed to this work. This will be done either on a Volunteer Timesheet or in some other fashion agreed upon by the Forester and Volunteer. FS liaison will be Volunteer Coordinator –Justin Loxley

### **Safety Requirements –General Volunteer**

Volunteers attending a work project must be prepared by wearing long pants, sturdy shoes (preferably boots), additional clothing appropriate to weather conditions, leather work gloves, sunglasses or safety glasses, enough water and food for the day, personal items if needed (first-aid, medications, sunscreen, etc.) and any required Personal Protective Equipment (FSH 22.35c) per FS Health and Safety Handbook. Volunteers and FS are required to review and adhere to any applicable Job Hazard Analysis protocol. Forest Service will provide tools and any specialized equipment upon request. A tailgate safety meeting will be performed and documented with all participant signatures prior to the start of any project or event.

Any volunteer injured while participating in an FS project must inform the district Volunteer Coordinator and/or District Ranger as soon as possible. Members are asked to then follow the established FS protocol. If neither of the above FS contacts are available, volunteers will contact Flagstaff Dispatch at 928-527-3552 or 928-526-0600

### **Flagstaff Ranger District Volunteer Information**

All volunteer activities must be authorized by the district volunteer coordinator or FS project liaison prior to the start of all field activities. Individuals acting without prior authorization are not considered volunteers and will not be covered under this agreement.

The Forest Service may provide a "thank you" ceremony with light finger foods and refreshments to their membership and provide non-

I understand that I will not receive any compensation for the above service and that volunteers are NOT considered Federal employees for any purpose other than tort claims and injury compensation. I understand that volunteer service is not creditable for leave accrual or any other employee benefits. I also understand that either the government or I may cancel this agreement at any time by notifying the other party.

I understand that my volunteer position may require a reference check, background investigation, and/or a criminal history inquiry in order for me to perform my duties.

I understand that all publications, films, slides, videos, artistic or similar endeavors, resulting from my volunteer services as specifically stated in the attached job description, will become the property of the United States, and as such, will be in the public domain and not subject to copyright laws.

I understand the health and physical condition requirements for doing the work as described in the job description and at the project location, and certify that the statement I have checked below is true:

- I know of no medical condition or physical limitation that may adversely affect my ability to provide this service.
- I do know of a medical condition or physical limitation that may adversely affect my ability to provide this service and have explained it to Justin Loxley, Volunteer Coordinator.

(Name of Agency Official)

I do hereby volunteer my services as described above, to assist in agency-authorized work. I agree to follow all applicable safety guidelines.

Tom Mackin  
(Signature of Volunteer)

12/19/14  
(Date)

The above-named agency agrees, while this arrangement is in effect, to provide such materials, equipment, and facilities that are available and needed to perform the service described above, and to consider you as a Federal employee only for the purposes of tort claims and injury compensation to the extent not covered by your volunteer group, if any.

District Ranger- [Signature]  
(Signature of Government Representative)

12-18-14  
(Date)

**Termination of Agreement**

Volunteer requests formal evaluation  Yes  No Evaluation Completed \_\_\_\_\_  
(Date)

Agreement terminated on \_\_\_\_\_  
(Date) (Signature of Government Representative)

**Public Burden Statement**

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