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

Game Branch / HPC Project Number: 14-117

PROJECT INFORMATION

Project Title: Hub Point Well Development, Phase 1

Region and Game Management Unit: Region 1, GMU 3C

Local Habitat Partnership Committee (LHPC):

- Show Low HPC

Was the project presented to the LHPC?

YES[X] NO[]

Has this project been submitted in previous years? YES[X] NO[]

If Yes, was it funded? YES[] NO[] → Funded HPC Project #(s):

Project Type: Water Development, New Well

Brief Project Summary:

This project was first submitted in 2014 during the regular HPC Grant cycle by the USFS Lakeside Ranger District in coordination with AGFD Region 1 and the livestock permittee. The grant is being resubmitted out of cycle with an attempt to provide additional information specific to the proposed new well site and information on other established wells near the project area. There has also been an increase in match/cost share in the amount of \$24,600 provided by AGFD Development Branch to obtain materials for and install a permanent wildlife water development at the new well site. This wildlife water development will be fed by the well water and will provide a year-round water source available only to wildlife.

A new well will be drilled in the general vicinity of Hub Point, called Hub Point Well. A generator and a submersible pump will be installed. 5,000 gallons of storage and (2) drinkers will be located at the well site as part of phase 1. Later phases, following archeological survey, will include multiple legs of pipeline from the well, approximately 7 miles, to extend to drinkers and existing stock tanks that will provide water to nearly 40 sections, or approximately 25,000 acres of critical habitat for elk, turkey, and mule deer. Phases 2 and 3 (to be submitted after completion of Phase 1) will include at least 4 additional fenced wildlife water developments at designated locations along approximately 7 miles of pipeline fed by Hub Point Well to provide perennial water sources for wildlife at optimal distribution. NEPA has been completed for later phases. Archeological clearance will be completed for later phases following layout of the pipelines.

Big Game Wildlife Species to Benefit: Elk, Turkey, Mule Deer

Implementation Schedule (Month/Day/Year):

Project Start Date: August 2015

Project End Date: June 2016

Environmental Compliance:

NEPA Completed: Yes[X] No[] N/A[]

Completion Date: September 17, 2010

State Historic Preservation Office - Archaeological Clearance:

Yes[X] No[] N/A[]

Completion Date: August 22, 2014

Arizona Game and Fish Department EA Checklist: N/A[]

To be Completed by: Paul Greer

Projected Completion Date: Summer 2015

<b>PROJECT FUNDING</b>		
<b>Special Big Game License Tag Funds Requested:</b>	\$ 65,300	
<b>Cost Share or Matching Funds:</b>	\$ 41,550 (\$15,700 - previous amount)	
<b>Total Project Costs:</b>	\$ 106,850	
<b>PARTICIPANT INFORMATION</b>		
<b>Applicant</b> (please print): Andy Habgood, USFS and Paul Greer, AGFD	<b>Address:</b> 2748 Hwy 260 PO BOX 968 Overgaard, AZ 85933	<b>E-mail:</b> andrewhabgood@fs.fed.us
<b>Telephone:</b> [REDACTED]		<b>Date:</b> May 29, 2015
<b>AGFD Contact and Phone No.</b> (If applicant is not AGFD personnel): Paul Greer [REDACTED]		
<b>Project has been coordinated with:</b> AZGFD, Phil Hagadorn (Permittee), Ranch Hands, Ed Collins (Lakeside District Ranger) and USFS staff		

**NEED STATEMENT – PROBLEM ANALYSIS:**

There is a lack of perennial water in this area, making it necessary to haul water for both wildlife and livestock during the early summer months and sometimes for the whole summer. This lack of water creates a problem for wildlife, limiting their distribution within this available critical habitat. This perennial water source is crucial in the dry times of the year, as well as during prolonged drought periods. Phase I will create a perennial water source in this area. Later phases will distribute this water and further improve distribution of both wildlife and livestock.

The community of Pinedale town well is approximately 500 ft. deep. Wells in Linden typically range from 400 to 500 ft. deep. The proposed well site near Hub Point is approximately three miles from Pinedale and eight miles from Linden. Elevation at the proposed well site is approximately 7,150 ft. Elevation at Pinedale is around 6,450 ft. and around 6,300 ft. in the Linden area. When the prior permittee first inquired into drilling a well in the Hub Point area, a local well drilling company advised the probability of hitting water was likely to be 100% and the company thought the new Hub Point Well would be around 1,000 ft. deep. The quote provided in the HPC grant from Willis Drilling estimated the new Hub Point Well to be 1,000 ft. deep. Willis Drilling advised the USFS they were also pretty confident in hitting water.

**PROJECT OBJECTIVES:**

- a) Improve perennial water availability for deer, turkey, and elk in critical habitat
- b) Allow wildlife to utilize available forage in this area
- c) Provide a reliable perennial water source for future expansion
- d) Reduce the cost and time associated with hauling water to wildlife drinkers in this area



### **PROJECT DESCRIPTION AND STRATEGIES:**

- a) Drill a new well and outfit it with a generator and submersible pump setup
- b) Install (2) storage tanks to improve water volume capable of being held at the well site
- c) Install (2) drinkers near well site to provide water for wildlife and livestock
- d) Insure that the system is able to be expanded to incorporate multiple legs of pipeline in the future
- e) **Install a wildlife water development at the well site consisting of (2) buried polyethylene storage tanks (5,000 gallon total capacity), a polyethylene walk in style trough buried to ground level, a 150' x 150' piperail exclosure fence and plumbing with an on/off valve to allow the storage tanks to be filled as needed by the main well water storage.**

### **PROJECT LOCATION:**

T10N, R19E, Section 11

Project is located south of Clay Springs, east of Forest Road 132(Pinedale Ridge Road) and north of Forest Road 919. Map is attached.

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

- United States Forest Service, Sitgreaves National Forest

### **HABITAT DESCRIPTION:**

Habitat is madrean montane conifer forest with the principal tree species consisting of ponderosa pine, gambel oak and alligator juniper. Browse species such as ceanothus and mountain-mahogany are present in abundance. Elevations in the project area range from 6,700 to 7,150 feet. Herbaceous forage conditions are also very good in the project area due to the proximity of adjacent burn areas from the Rodeo-Chediski and Cottonwood fires. The mosaic created by opened burned areas within stands of medium to old growth pine, oak and junipers provides excellent habitat for elk, mule deer and turkey. The primary limiting factor in this area is lack of perennial water.

**ITEMIZED USE OF FUNDS:**

*Excel spreadsheet attached along with bid from well drilling company*

**Special Big Game License Tag Funds**

Well with Casing - \$36,400

Pump with Installation - \$18,900

Maintenance Fund - \$10,000

(The maintenance fund will be administered by AGFD for a 10 year period to be used to pay for any required maintenance of the Hub Point well, main pipeline and mainline storage tanks at a cost share of 50:50 with the permittee. The permittee will be responsible for all fuel cost and any maintenance associated with livestock drinkers, pipeline and storage tanks that are used exclusively to provide water to livestock drinkers. Any unspent funds remaining after the 10 years will be rolled into a maintenance agreement for the next 5 or 10 years. Any funds required that exceed the \$10,000 within 10 years will need to be applied for through another HPC grant. This maintenance fund will cover Phase 1 and all other subsequent phases of the Hub Point Well Project – see DRAFT proposed agreement attached.)

**Total Special Big Game Funds Requested – \$65,300**

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

<u>Permittee</u>	<u>USFS</u>	<u>AGFD (wildlife water)</u>
Generator - \$4,000	Drinkers - \$1,500	(2) Storage Tanks - \$6,800
Storage Tanks - \$4,250	Pipe - \$200	Trough - \$4,000
Plumbing - \$500	NEPA and Clearances - \$5,000	Plumbing/Fittings - \$300
Labor - \$1,500		150'x150' Pipersail Fence - \$3,500
		Labor - \$10,000

Total Cost Share/Match – \$41,550

Total Project Costs – \$106,850

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:**

AGFD has been involved in the formation of this application and overall development of this project. **AGFD will ensure perennial water availability at the wildlife water development and will assume responsibility for all maintenance and/or repairs of any wildlife water developments created by the Hub Point Well Project. The AGFD development branch will install the wildlife water development or pay a contractor to complete the labor.**

Permittee will perform all labor associated with the installation of storages, pipe, and drinkers. The generator, storage, and plumbing will be provided by the permittee. USFS will provide the Numex pipe and drinkers for the site. All clearances have been obtained by the USFS. USFS may assist in any labor associated with the installation of the storage, drinker, and pipe. Later phases of this project will be collaboratively developed with AZGFD, USFS, and the permittee.

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

YES[] NO[] N/A[X]

**PROJECT MONITORING PLAN:**

Inspections will be made during the process of drilling the well and installation of the storage, drinkers, and pipeline. These inspections will be made by USFS and AZGFD personnel. Routine inspections of the well and water system will be made by USFS personnel after completion of the project to insure that the well is being maintained.

**PROJECT MAINTENANCE:**

The grazing permittee will be responsible for all maintenance and upkeep of the well and it's components of phase 1 per the Term Grazing Permit issued by the USFS.

AGFD will be responsible for all maintenance and upkeep of the wildlife water development and piperail enclosure fence.

**PROJECT COMPLETION REPORT TO BE FILED BY:**

Andy Habgood, USFS – Lakeside Ranger District



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

**PROJECT TITLE:** Hub Point Well Development, Phase 1

- 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 [X]>16
- 4) **Is there a perennial water source available to big game within four miles of this project?**  
YES[X] (please complete #5 below) NO[ ] (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**  
Name of water source: Turkey Hill Guzzler  
Type of water source (catchment, spring, dirt tank): catchment  
Ownership of water source: US Forest Service  
Distance in miles from project: 2.6 miles
- 6) **Is the target wildlife species a result of transplant efforts? YES[ ] NO[X]**
- 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): [X]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[X]  
-- Please describe any restrictions to public access: High clearance 2 wheel drive vehicles can make it to the site. To go beyond the site, 4x4 is required.
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**  
1 ¼" numex pipe for entire system, (1) 5,000 gallon storage or equivalent at well site, (2) 8' galvanized or tire troughs that are wildlife friendly with escape ramps  
Wildlife Water: (2) 2,500 gallon polyethylene storage tanks - buried, (1) polyethylene walk-in trough -buried, 150'X150' standard piperail fence, 3" schedule 80 PVC pipe and misc. plumbing and fittings
- 10) **Was a site visit completed? Yes[X] No[ ]**  
If Yes, please list personnel that attended and date.  
May 18, 2012 Kay Perkins(Permittee), Quinn Smith(Ranch Hand), Andy Habgood(USFS), Paul Greer(AZGFD)  
February 24, 2014 Joe Hollum(Ranch Hand), Ty Smith(Ranch Hand), Phil Hagadorn(Permittee), Andy Habgood(USFS)