

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

Game Branch / HPC Project Number: 14-608

**PROJECT INFORMATION**

<b>Project Title:</b> Potato Butte Solar Well	
<b>Region and Game Management Unit:</b> Region 6, GMU 23N	
<b>Local Habitat Partnership Committee (LHPC):</b> • Payson Natural Resources Committee	<b>Was the project presented to the LHPC?</b> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
<b>Has this project been submitted in previous years?</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> <b>If Yes, was it funded?</b> YES <input type="checkbox"/> NO <input type="checkbox"/> → <b>Funded HPC Project #(s):</b>	
<b>Project Type:</b> Water development	
<b>Brief Project Summary:</b> This project will drill a well and establish a solar water pump in order to provide water to the Potato Butte and Dutchman's Pasture area. There is currently a 24-foot hand-dug well at the old Jambolier's homestead. This well is shallow and produces minimal water. This proposal will drill a well approximately 150 feet deep in order to provide more water, and will install a solar pump to move the water to two 3,000 gallon storage tanks which will feed to several drinkers. These drinkers will provide vital water to the numerous elk, deer, and other wildlife that frequent this area.	
<b>Big Game Wildlife Species to Benefit:</b> elk (50%), mule deer (30%), turkeys and small game (20%)	
<b>Implementation Schedule</b> (Month/Day/Year):  <u>Project Start Date:</u> 5/2015  <u>Project End Date:</u> 8/2015	<b>Environmental Compliance:</b> NEPA Completed: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Projected Completion Date: _____  State Historic Preservation Office - Archaeological Clearance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Projected Completion Date: _____  Arizona Game and Fish Department EA Checklist: N/A <input checked="" type="checkbox"/> To be Completed by: _____ Projected Completion Date: _____
<b>PROJECT FUNDING</b>	
<b>Special Big Game License Tag Funds Requested:</b>	\$ 15,000
<b>Cost Share or Matching Funds:</b>	\$ 6,800
<b>Total Project Costs:</b>	<b>\$ 21,800</b>

## PARTICIPANT INFORMATION

<b>Applicant</b> (please print): Dave Daniels	<b>Address:</b> 7200 E. University Mesa, AZ 85207	<b>E-mail:</b> ddaniels@azgfd.gov
<b>Telephone:</b> 480-528-8774		<b>Date:</b> 6/15/2014
<b>AGFD Contact and Phone No.</b> (If applicant is not AGFD personnel):		
<b>Project has been coordinated with:</b> AZGFD, Tonto National Forest, Potato Butte Ranch		

### **NEED STATEMENT – PROBLEM ANALYSIS:**

Dutchman’s Pasture southwest of Potato Butte is a particularly dry area that in the past has been watered by a 24-foot deep hand-dug well with a windmill built in the early 1900s. Although still producing water, the shallow well is no longer producing enough water to sustain a perennial water source. Drilling a deeper well will produce enough water to provide a perennial water source. The water provided by this project will be the only permanent, reliable water source in the area.

### **PROJECT OBJECTIVES:**

The main objective of this project is to provide perennial water to an area that has no permanent, reliable water source.

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

This project will drill a well and establish a solar water pump in order to provide water to the Potato Butte and Dutchman’s Pasture area. Dutchman’s Pasture southwest of Potato Butte is a particularly dry area that in the past has been watered by a 24-foot deep hand-dug well with a windmill built in the early 1900s. This well is shallow and no longer produces enough water to sustain a perennial water source. This proposal will drill a well approximately 150 feet deep in order to provide more water, and will install a solar pump to move the water to two 3,000 gallon storage tanks which will feed to several drinkers. These drinkers will provide vital perennial water to the numerous elk, deer, and other wildlife that frequent this area.

### **PROJECT LOCATION:**

Potato Butte Ranch, Dutchman’s Pasture, 3.6 miles southwest of Young, AZ  
NAD83 UTM: 497907mE, 3771067mN

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

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

- Land is managed by the United States Forest Service, Tonto National Forest, Pleasant Valley Ranger District

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

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

**HABITAT DESCRIPTION:**

The plant community in the area is primarily grassland and piñon/juniper woodland at an average elevation of 5000 feet above sea level. Species include various grasses, alligator juniper, and piñon pine.

**ITEMIZED USE OF FUNDS:**

Special Big Game License Tag Funds

\$15,000 – well drilling and solar pump purchase and installation

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

\$5,000 – Potato Butte Ranch will provide two 3,000 gallon water storage tanks, two galvanized drinkers, and pipes/fitting/floats necessary to make drinkers operational

\$800 – AZGFD will provide in-kind contributions in the form of labor for contract administration, project origination, and project coordination

\$1,000 – USFS, TNF, PVRD will provide administrative support in the form of necessary clearances and will provide a letter of approval for implementation of project

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:**

Special Big Game Funds:

- Provide funding for a 150-foot well and solar pump

AZGFD:

- Provide in-kind contributions in the form of labor for contract administration, project origination, and project coordination

USFS:

- Provide administrative support in the form of necessary clearances
- Provide letter of approval for implementation of project

Potato Butte Ranch:

- Oversee the drilling of the well and installation of the solar pump
- Set-up and connect holding tanks and drinkers

Payson Natural Resources Committee:

- Review project

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

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

**PROJECT MONITORING PLAN:**

The project proponent will ensure project completion with coordination between the AZGFD and the Potato Butte Ranch.

This area will be surveyed by the AZGFD and will be monitored for wildlife use.

**PROJECT MAINTENANCE:**

Project will be continually maintained by the Potato Butte Ranch.

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

The project proponent is responsible for completing the project completion report.

# ARIZONA GAME AND FISH DEPARTMENT WATER DEVELOPMENT WORKSHEET

PROJECT TITLE: Potato Butte Solar Well

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1) **Is the water development listed as a priority in the most recent "Wildlife Water Development Annual Implementation Schedule?"**

The project was not presented to the development branch

2) **Please list the Development Branch personnel and date coordinated with for this project.**

The completion of this project does not require the use of development personnel

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: Spring Creek

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

Ownership of water source: USFS

Distance in miles from project: 3 miles

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

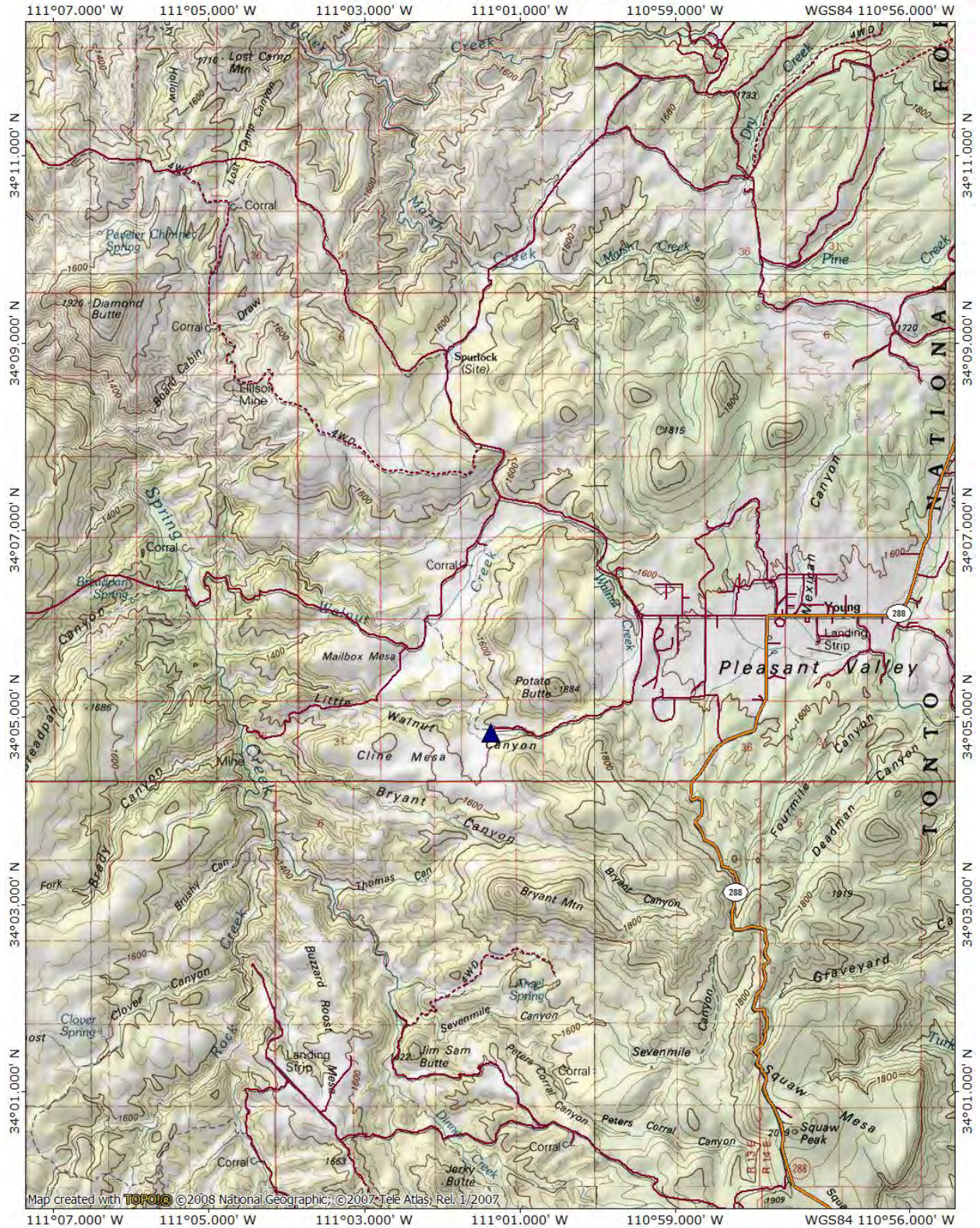
-- Please describe any restrictions to public access: None

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**

6/14/2014: Dave Daniels (AZGFD), Brittany Oleson (AZGFD), Bob Bennie (Potato Butte Ranch)

TOPO! map printed on 06/15/14 from "Untitled.tpo"



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