

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

Game Branch / HPC Project Number:	16-310
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PROJECT INFORMATION

Project Title: Wilhoit Well Solar Conversion and Drinker Addition

Region and Game Management Unit: AGFD region 3 & GMU 20A

Local Habitat Partnership Committee (LHPC): • Yavapai (Prescott)	Was the project presented to the LHPC? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
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Has this project been submitted in previous years? YES NO
If Yes, was it funded? YES NO → **Funded HPC Project #(s):**

Project Type: Solar well and drinker addition

Brief Project Summary:
 This project will consist of converting a gas generator operated well into a solar operated well system. The well currently feeds one drinker at the well site but this project will include the addition of above ground piping which will feed two additional storage tanks and two gravity fed drinkers located at different locations.

Big Game Wildlife Species to Benefit (% benefit per species): Mule deer (70%), javelina (30%)

Implementation Schedule (Month/Day/Year): <u>Project Start Date:</u> 01/01/2017 <u>Project End Date:</u> 03/31/2017	Environmental Compliance: NEPA Completed: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Projected Completion Date: _____ State Historic Preservation Office - Archaeological Clearance: (Provide Attachment) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Projected Completion Date: 12/31/16 Arizona Game and Fish Department EA Checklist: N/A <input checked="" type="checkbox"/> To be Completed by: _____ Projected Completion Date: _____
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PROJECT FUNDING

Special Big Game License Tag Funds Requested:	\$ 7,450
Cost Share or Matching Funds:	\$ 7,450
Total Project Costs:	\$ 14,900

PARTICIPANT INFORMATION

Applicant (please print): Dennis Fogle	Address: 5325 N Stockton Hill Rd Kingman, AZ 86409	E-mail: dfogle@azgfd.gov
Telephone: 480-318-6221		Date: 08/12/16

AGFD Contact and Phone No. (If applicant is not AGFD personnel):

Project has been coordinated with:

Don Glasgow (General Manager for North Fork Ranch), Chris Lowman (ASLD), Terry Herndon (Mule Deer Foundation)

NEED STATEMENT – PROBLEM ANALYSIS:

Perennial water in this area is nearly nonexistent. The Wilhoit Well is the only current perennial water source within 3 miles and that is only if the generator is working properly. This well is operated by a gas powered generator and must be constantly maintained by ranch personnel. Converting to solar will create a renewable energy source that is more reliable and less likely to be stolen. The addition of two drinkers located in separate areas will provide additional perennial water sources which will help distribute cattle range use on the private and state land portion of the ranch which will improve for availability for deer.

PROJECT OBJECTIVES:

Convert gas operated well to renewable energy solar operated well which is more reliable and less likely to be stolen. Expand mule deer range by adding two additional drinkers that are fed from Wilhoit Well. Distribute cattle range use.

PROJECT DESCRIPTION AND STRATEGIES:

(How will you implement project)

The 800 foot deep Wilhoit Well is located on private property. Staff from Maugh Ranches has already installed a pole which the solar panels will be mounted to (see photo). The installation of the solar panels will all be above ground and cause zero ground disturbance. One mile of black poly piping will be fed from the Wilhoit Well and placed above ground again creating zero ground disturbance. The black poly piping will run across private and state land owned property which has already been approved by Arizona State Land Department (ASLD). The black poly pipe will be fed to two separate locations where each location will have a 2800 gallon storage tank and an 8 foot long (650 gallon) trough which are wildlife friendly because of built in escape ramps (see attached photo/map). The two trough's and two storage tanks will be placed above ground but do require minor ground disturbance to ensure they are secure and level. Since both of these locations are on state land, Chris Lowman with ASLD is in the process of gathering archeological clearance which will be completed by December 31, 2016 per Chris Lowman.

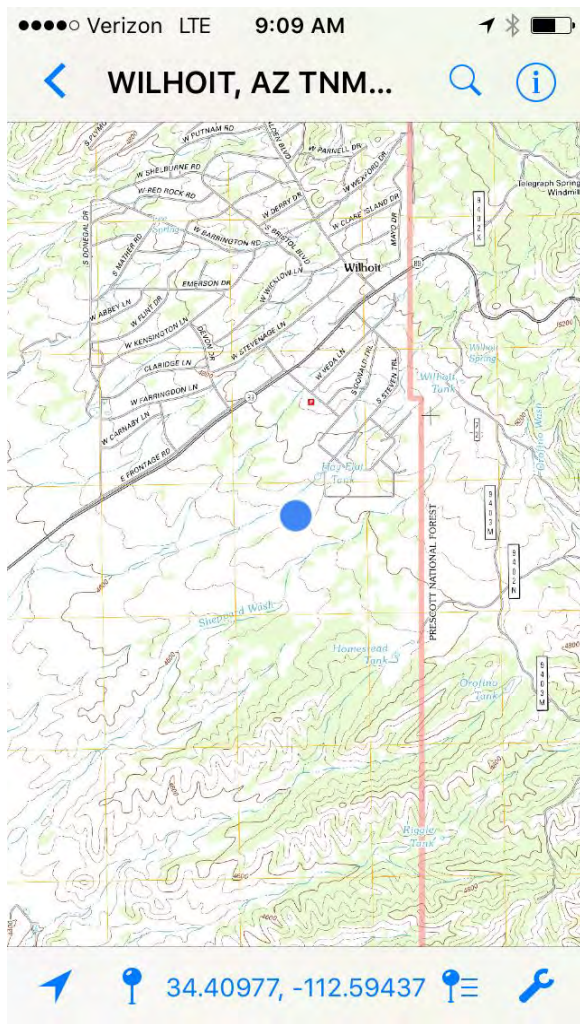
All labor will be provided by Maughn Ranches at no cost. Maughn Ranches has decided to not factor labor as cost share and are providing a true 50:50 cost share by providing funding for half of the materials needed to complete the project.

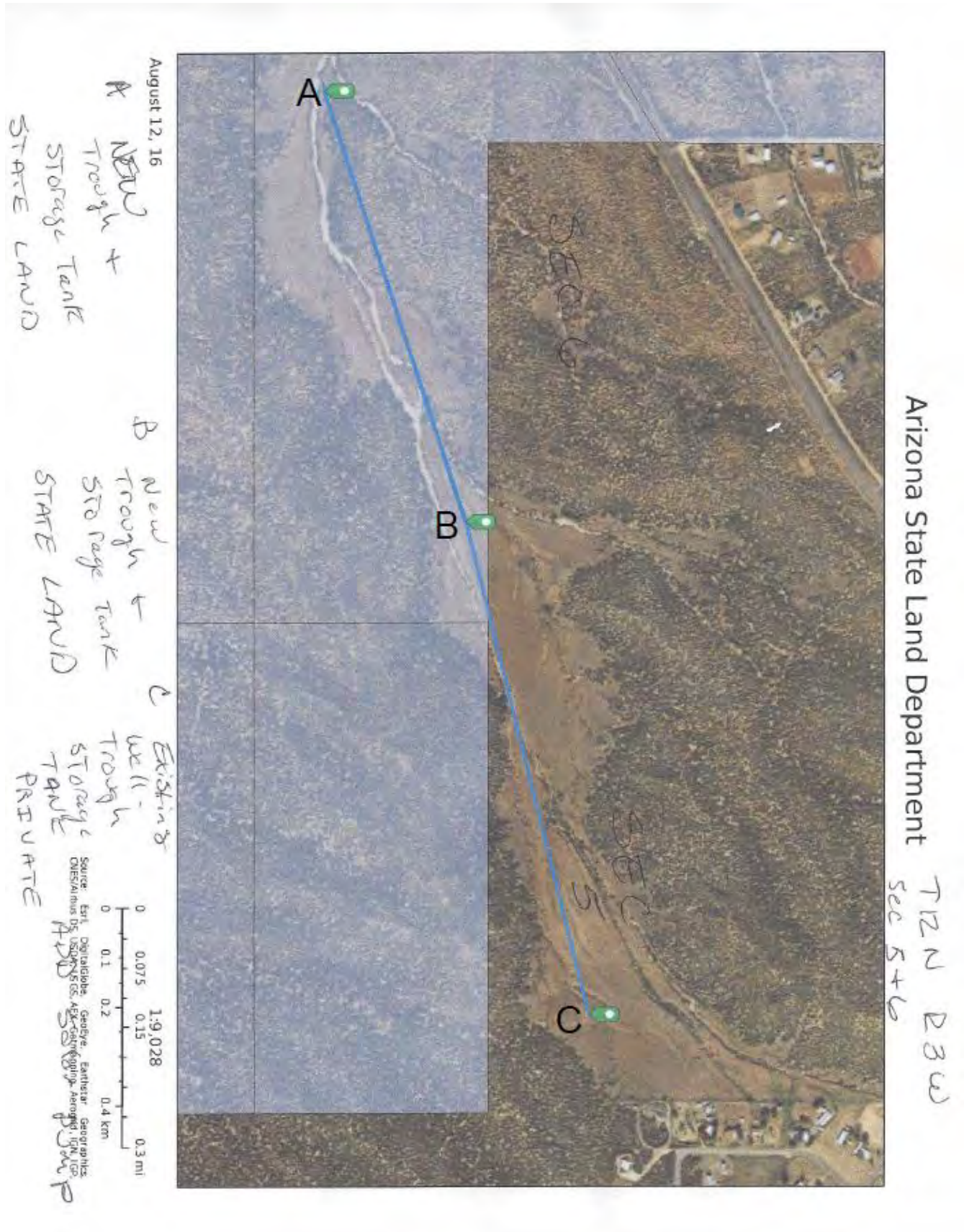
PROJECT LOCATION

(Please provide lat/long of project area and datum. If project is larger than one point, please add multiple lat/long points or an existing shapefile of the project area)

Wilhoit Well

- 34°24'35" N 112°35'40" W





LAND OWNERSHIP AT THE PROJECT SITE(S):

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

- Private
 - Wilhoit Well, existing storage tanks and drinker are located on North Fork Ranch owned by Maign Ranches.
- State Land Department
 - The two additional storage tanks and two troughs will be placed on state land.

IF PRIVATE PROPERTY, IS THERE A COOPERATIVE BIG GAME STEWARDSHIP or LANDOWNER AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?
YES[] NO[x] N/A[]

- Once approved, a big game stewardship agreement will be drafted. **The North Fork Ranch allows hunting on the ranch by walk in only.**

HABITAT DESCRIPTION:

The area is predominately interior chaparral with plant species such as live shrub oak, manzanita and juniper. This area also has a semi-desert component with prickly pear cactus, mesquite trees and gramma grasses.

ITEMIZED USE OF FUNDS: All labor will be provided by Maughn Ranches at no cost. Maughn Ranches has decided to not factor labor as cost share and are **providing a true 50:50 cost share** by providing funding for half of the materials needed to complete the project.

Special Big Game License Tag Funds

\$7,000 - Solar well panels and pump assembly
\$450 - 1/8 mile black poly pipe (1 1/4 inch diameter)

\$7,450

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

\$3,250 - 7/8 mile black poly pipe (1 1/4 inch diameter)
\$1,000 - (2) 8' water trough
3,200 - (2) 2800 gallon storage tank

\$7,450

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

Mule Deer Foundation - Help fund project through HPC.

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

YES[] NO[x] N/A[]

PROJECT MONITORING PLAN:

Project progress will be monitored by AGFD Wildlife Manager Dennis Fogle and Maugh Ranch general Manager Don Glasgow. Long term monitoring includes Maughn Ranches analyzing cattle range use and ensuring all three troughs are filled with water to ensure even distribution of cattle range use.

PROJECT MAINTENANCE:

Ongoing maintenance of the well, storage tanks and troughs will be completed by Maughn Ranches and at the expense of Maughn Ranches.

PROJECT COMPLETION REPORT TO BE FILED BY:

Completion report will be filled out by AGFD Wildlife Manager Dennis Fogle and Maughn Ranches General Manager Don Glasgow.

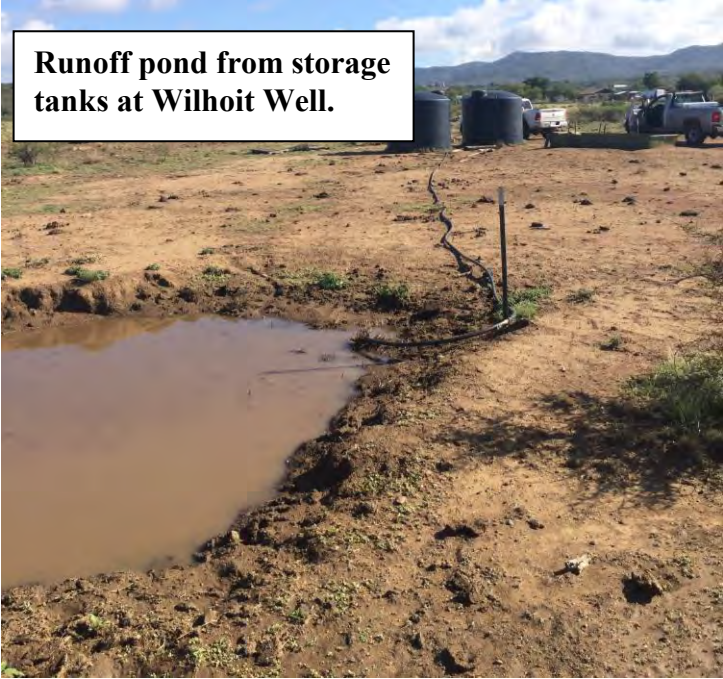
ATTACHMENTS:

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





**View of trough at Wilhoit Well
with built in escape ramp.**



Runoff pond from storage tanks at Wilhoit Well.



**Existing pole at Wilhoit
Well will be used to mount
solar panels.**