

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

Game Branch / HPC Project Number:	18-105
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PROJECT INFORMATION

Project Title: Ohaco Ranch High Point and Ellsworth Fuel and maintenance 2019

Region and Game Management Unit: Region I and Unit 4A

Local Habitat Partnership Committee (LHPC): • Winslow	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):** 16-108 plus many other years

Project Type: Purchase Fuel for High point and Ellsworth Wells

Brief Project Summary:
 Purchase 2000 gallons of fuel for the High Point and Ellsworth wells. High Point well feeds over 30 miles of buried pipeline with 26 drinkers locations. These drinkers are disbursed in a manner that about 50 sections of wildlife habitat are served from this well. Ellsworth well feeds 11 miles of buried pipeline with 9 drinkers. These drinkers are disbursed in a matter that about 20 sections of wildlife habitat are served from this well. We expect fuel to cost up to \$8,000.00. The remaining \$7,000.00 will be used to address any potential maintenance issues that arise with the wells, pipeline, and troughs during 2018

Big Game Wildlife Species to Benefit:

Implementation Schedule (Month/Day/Year): <u>Project Start Date:</u> Calendar Year 2019 <u>Project End Date:</u> Calendar Year 2019	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: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" 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: _____
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PROJECT FUNDING

Special Big Game License Tag Funds Requested:	\$34,000.00
Cost Share or Matching Funds:	\$ 13,900.00
Total Project Costs:	\$ 47,700.00

PARTICIPANT INFORMATION

Applicant (please print): Ken Clay	Address: 2878 E. White Mtn Blvd Pinetop, AZ 85935	E-mail: kclay@azgfd.gov
Telephone: 928 856-0816		Date: September 1, 2017

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

Project has been coordinated with:
Ohaco Rach

NEED STATEMENT – PROBLEM ANALYSIS:

Perennial water on the north part of Unit 4A is limited to man-made structures. Stock ponds, wildlife catchments, and wells provide the majority of water to wildlife and cattle during dry periods. In the 1990 a HPC project was undertaken to create a water system to provide perennial water on the Ohaco Ranch. This was the Hi Point Well Project. Ellsworth Well has been in operation for over 30 year and provides wildlife an excellent source of water. Between the two water systems they provide water to over 70 sections pinyon-juniper and grassland habitat perennial water. It is important to wildlife and livestock to maintain and continue providing perennial on this system

PROJECT OBJECTIVES:

In the next few years there are several large item expenditures that need to be addressed at both High point and Ellsworth wells.

- The first is a pump replacement at high Point well. This well is not producing the standard water volume of 20 gallons/minute that is typically produces. The reduce water volume is typically a issue with the impellers on the pump. This pump is 3 phase 15 HP set at about 1000 foot. The estimate cost to replace this pump and motor is \$18,000.
- The second is to complete the solar power plant at Ellsworth Well. Funding was received in 2018 for this project but initial estimates fell short of the actual bids for this project. \$8000.00 is needed to complete this project. Once this project is completed, it will be evaluated before a similar project will be implemented at High Point Well.
- The third is a generator replacement at High Point well. The estimate for this project is about \$25,000. This part of the project will be put off for 1 year. The current generator is reaching hours with the life expectancy and is currently consuming oil. Ohaco Ranch feels this project can be delayed an additional year.
- Continue troughs replacement. Many water troughs on the High Point water system have been replaced over the last several years. These replacements have been done with large mine tires. This next year there will only be troughs replacements if there are any additional funds leftover once these larger projects are complete.
- The last necessary component to this ongoing project is to purchase 2000 gallons of fuel for both High Point Well and Ellsworth Well.

PROJECT DESCRIPTION AND STRATEGIES:

- Continue year round operation of both High Point and Ellsworth Wells.
- These water systems affect over 70 sq/miles of habitat
- This water systems supplies water to 39 drinkers within this habitat
- Finish Ellsworth Well Solar Power Plant
- Replace pump at High Point Well
- Trough replacement as needed with left over funds.

PROJECT LOCATION:

See attach map. Unit 4A just along the northwest portion of Forest Service land and the Private Ranch just North of the Forest Service Boundary. These two well serves 39 drinkers and approximately 41 miles of pipeline. Water is located on both Forest Service and private land. The total wildlife habitat affected by this system is over 70 sq/miles.

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):

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

YES NO

USDA Forest Service
Ohaco Ranches (Jim Ohaco)

HABITAT DESCRIPTION:

Pinyon/Juniper habitat with large grassland openings. The area has a good mixture of browse

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds

- \$8,000.00- Up to \$8,000.00 for fuel
- \$8,000.00-to finish up a solar power plant at Ellsworth well
- \$18,000.00 for pump replace at High Point Well

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

- \$13,900.00 total- Jim Ohaco will provide the remaining fuel costs and man hours involved in operating and maintaining the wells.
- \$5,700.00- For approximately 1500 gallons of fuel
- \$8,200.00- For approximately 410 hrs. of labor @ \$20.00 per hour

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

Ohaco Ranches

- Purchases remain fuel for the year (about 1500 gallons)
- Operate and maintain the well and the water system.
- Coordinate Pump Replacement at High Point Well

PROJECT MONITORING PLAN:

AZGF Wildlife Manager will monitor the High Point and Ellsworth wells to ensure perennial water is maintained

PROJECT MAINTENANCE:

NA

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

YES NO N/A

PROJECT COMPLETION REPORT TO BE FILED BY:

Ken Clay III

Figure 1: Map of Hi Point (Red Highlights) and Ellsworth (Blue Highlights) Water Systems

