

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

Game Branch / HPC Project Number:	14-106
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PROJECT INFORMATION

Project Title: Ohaco Ranch High Point and Ellsworth water system maintenance 2015	
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"/>
Has this project been submitted in previous years? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> If Yes, was it funded? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> → Funded HPC Project #(s):	
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.	
Big Game Wildlife Species to Benefit:	

Implementation Schedule (Month/Day/Year): <u>Project Start Date:</u> Calendar Year 2015 <u>Project End Date:</u> Calendar Year 2018- For Maintenance funds Calendar year 2015 – trough replacement	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:	\$15,400.00
Cost Share or Matching Funds:	\$ 14,590.00
Total Project Costs:	\$ 29,990.00

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, 2014	

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

Project has been coordinated with:
Ohaco Ranch

NEED STATEMENT – PROBLEM ANALYSIS:

The well and water systems on Ohaco provide reliable perennial water in the north part of Unit 4A. The total area in this part of Unit 4a is limited to man-made waters that include stock tanks, a few trick tanks, and pipelines that are feed from a variety of wells. The Ohaco Ranches is made of up of deeded land, State land and a Forest Service permit. This entire ranch operation is located in the central part of Unit 4a. The habitat type includes Pinyon/Juniper Woodland and Great Basin Plains Grassland. This habitat type is home to many wildlife species including deer, elk, and antelope. The two primary well/water systems on this Ranch are Hi Point Well and Ellsworth Well. These two water systems provide water to over 70 sections of land. These water systems are state of the art but always require maintenance to keep in operation.

PROJECT OBJECTIVES:

The objective for this project is to establish some revenues to address maintenance needs for the wells and water systems on the Ohaco Ranch. Many times over the course of fifteen years Hi Point well has quit working unexpectedly. The most common reoccurring issue that cause these wells to quit working is due to pipe failure. Each time this has happens, the cost is around \$4500.00 to get the well back in operation. We would like to establish a revenue string to address these types of emergency cost. Another need is also to address water trough failure. Many of the water troughs on the Ohaco Ranch are over 15 year old. Jim Ohaco patches these troughs to get the most out of them but eventually they do need to be replaced. There are over 50 water troughs on this Ranch so this is a maintenance need that is always present.

OBJECTIVE #1

The first objective for 2015 is to establish a revenue source to currently address emergency needs like pulling a well. Some of the issues that have been encountered with these wells over the past 15 years include a section of pipe developing a hole. One time there was an issue with the wire loom that supplies electricity to the pump. The wells on Ohaco Ranch are all around 1000' deep and consist of 2" galvanized pipe. The cost to pull one of these well and replace a section of pipe runs around \$4500. If the pump goes bad this adds an additional \$15,000 for the Hi Point and about \$7000 for the other wells on the Ranch. If this project is funded both this year and subsequent years, it will ensure that when a problem occurs on any of these water systems, it can be fixed immediately. The goal is to have \$20,000 set aside for these emergency expenditures. This year we are asking for \$10,000 of emergency funds plus funds to replace three drinkers (objective #2) in 2015.

OBJECTIVE #2

The second objective for the 2015 maintenance proposal is to also fund the cost of materials to replace Three drinkers on the Hi Pt well water system. The Ohaco Ranch has replaced several water troughs on this water system. The first water troughs were installed in the mid 1990's. Many of these troughs have rusted through and require replacement. The existing water troughs are 14' Powder River troughs with 1 ¼" float assemblies. The materials that will be bought will include the water trough, float assembly and a few miscellaneous pipe fittings. The water troughs will be replaced with either a 14' Powder River trough or an old mine tire. This will be based on the availability of each product. The materials for each trough are estimated to cost \$1800.00.

The goal is to have \$20,000 dollars set aside to take care of catastrophic failures and some other required maintenance like water trough and float assemblies.

PROJECT DESCRIPTION AND STRATEGIES:

- 2015 HPC cycle establish an emergency revenue source of \$10,000
- Replace three water troughs with either a 14” Powder River water troughs and 1 ¼ “ float assemblies that are connected to the Hi Point water system. The Powder River trough may be substituted with an old mine tire based on availability of each product.

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. There are also about 10 water troughs that are located at other well sites on the Ohaco Ranch. Water troughs are 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[x] 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

	Total Cost	\$29,990.00
SBG Funds	Funds Requested	\$15,400.00
Ohaco Ranch Cost	Cost Share	\$14,590.00

Cost Share or Matching Funds

	Man/Hours	Quantity	Cost	Total
Operate Well	410 hrs		\$20.00/hrs	\$8,200.00
Well Maintenance		9 times	\$150.00	\$1,350.00
Water trough Installation	24 hrs/trough	3 trough	\$20.00/hrs	\$1440.00
Back hoe	8 hrs/trough	3 trough	\$150.00/hr	\$3,600.00
			Grand Total	\$14,590.00

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

Ohaco Ranches

- Well operation
- Trough replacement work.

PROJECT MONITORING PLAN:

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

PROJECT MAINTENANCE:

Well and Trough maintenance

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

