

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

Game Branch / HPC Project Number:	18-107
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PROJECT INFORMATION

Project Title: Wilkens Trick Tank Apron and Trough	
Region and Game Management Unit: Region 1, GMU 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 type="checkbox"/> NO <input checked="" type="checkbox"/> If Yes, was it funded? YES <input type="checkbox"/> NO <input type="checkbox"/> → Funded HPC Project #(s):	
Project Type: Fixed apron and replace drinker	
Brief Project Summary: Wilken TT needs a new apron and a water trough	
Big Game Wildlife Species to Benefit: 60% Elk, 30% Deer, 5% Bear, 5% Javelina & Turkey, Also within bighorn sheep release area schedule in 2018.	

Implementation Schedule (Month/Day/Year): <u>Project Start Date:</u> Spring 2019 <u>Project End Date:</u> Summer 2019	Environmental Compliance: NEPA Completed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Projected Completion Date: <u>December 2018</u> 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 type="checkbox"/> To be Completed by: _____ Projected Completion Date: _____
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PROJECT FUNDING

Special Big Game License Tag Funds Requested:	\$ 15000.00
Cost Share or Matching Funds:	\$ 2500.00
Total Project Costs:	\$ 17500.00

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: 8-31-2017

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

Project has been coordinated with: Black Mesa Ranger district, AZGFD

NEED STATEMENT – PROBLEM ANALYSIS:

Permanent waters for Wildlife across the northern parts of GMU 4A are limited to man-made structures such as catchments, dirt tanks or pipelines. Wilkens Trick Tank (TT) is located on the west side of Unit 4A in Ponderosa Pine transition habitat type. Wilkens TT and Rock TT are the only catchments that serve a very large area that is occupied with wildlife throughout the year. Wilkens TT is a livestock improvement on the Limestone allotment who is currently owned by Paul Charlton. Wilkens TT has a 44'x 60' standing apron and feed a steel 33,500 gallon storage tank. Water is currently delivered to a 300 gallon steel water trough that is patched together so it still holds water.

The problem with Wilkens TT is the apron structure needs some work. The tin and the gutter system also need replacement. Currently, this apron by my estimates is only about 20% efficient in running water from the metal surface into the storage tank. Modern 20' sheets of Pro-Panel or R-panel mounted on a reinforced apron structure could increase the efficient back to 100%.

The water trough and float assembly is also served its time and also need replacement. The steel trough and the risers for the float assembly has been patched together temporarily to help hold water for now. This water trough will be replaced with an old mine tire water trough. This type of water trough will last much longer than a steel trough.

During 2018, Arizona Elk Society and Arizona Game and Fish personnel hauled about 6000 gallons of water to Wilkens TT due to its critical location and no other permanent water source within miles. If Wilken TT was operating at 100% efficiency, hauling water to this trick tank may not have been needed due to the large storage capacity on this tank.

PROJECT OBJECTIVES:

- Wilkens TT has the storage capacity of 33,500 gallons. This project will help ensure that during the rain and snow season this trick tank will collect 100% of the precipitation that falls on the apron. If this trick tank operates at 100% efficiency it will provide wildlife a 100% perennial water source that is a critical area.
- Provide a relatively maintenance free perennial water source to wildlife in an area that lacks perennial water.
- This Trick Tank is also located with the area scheduled for Bighorn sheep release along Leonard and Clear Creek canyons. Wilken TT sits at the edge of Wilkens Canyon and is about 1.5 miles from Leonard Canyon. Wilken TT is defiantly in a location that bighorn sheep will use once established in Units 4A and 5A.

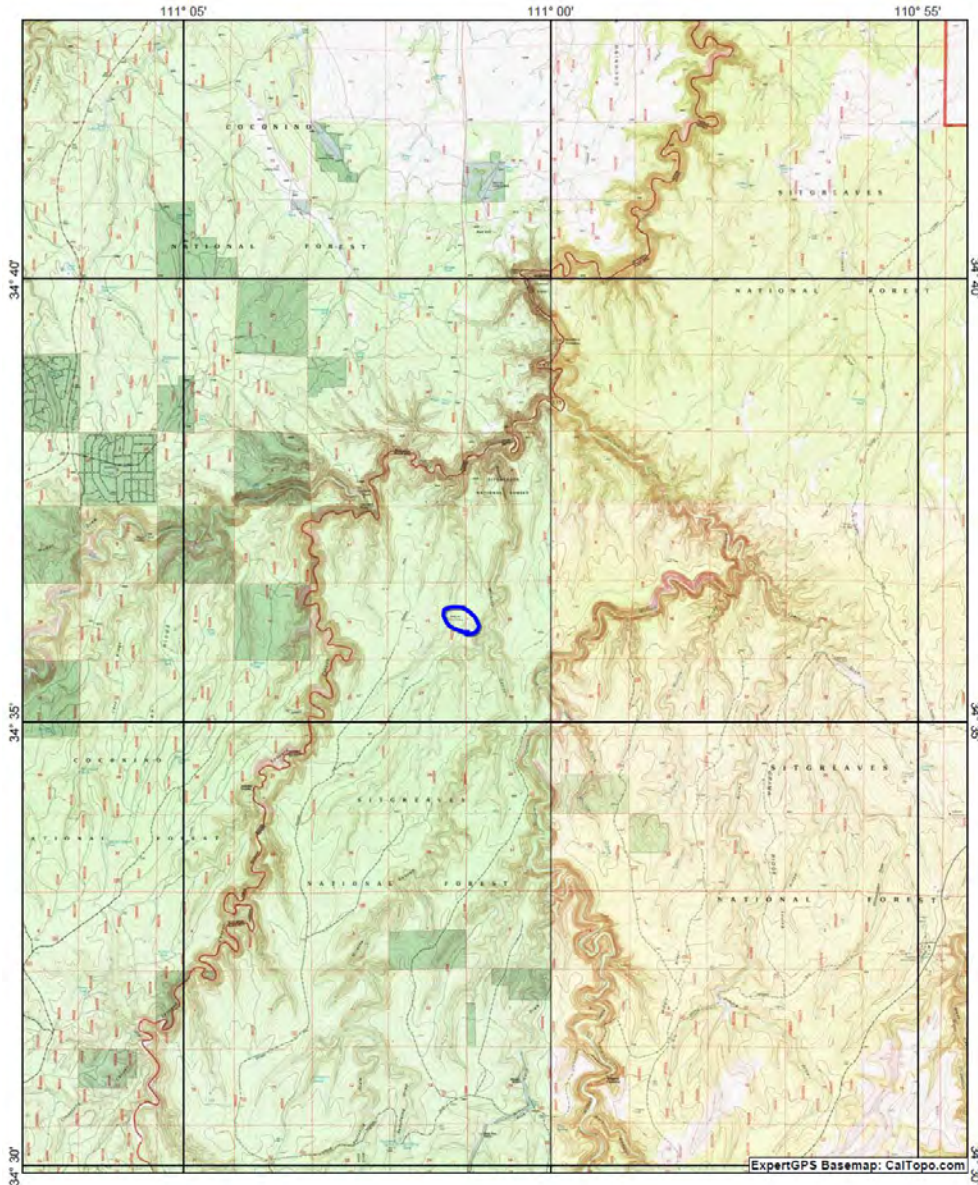
PROJECT DESCRIPTION AND STRATEGIES:

- First objective is to reinforce the apron structure at Wilken TT
- Second objective is to replace the 10' corrugated tin with one piece 20' pro panel metal and a new gutter system
- Replace the water line from the storage to the water trough
- Replace the water trough with a mine tire system

- Epoxy coat the bottom of the storage tank
- Build in a permanent ladder system inside the storage tank to allow black bears to exit storage tank when they get in the tank.

PROJECT LOCATION:

- 1.) T14N, R12E, section 13. See attached map. Land ownership for this project is Forest Service.
- 2.) The blue circle is Wilken TT



ExpertGPS

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LAND OWNERSHIP AT THE PROJECT SITE(S):

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

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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:

Pinion juniper woodland with browse species such as cliff rose are present in the area. Elevations in the project area range from 6,900. Forage conditions are good in this habitat type.

ITEMIZED USE OF FUNDS:

Materials Needed For Catchments:

1 8' tire for water trough
40'x60' metal apron
Lumber to reinforce apron structure
Epoxy coat for bottom 2" of storage

Catchment Costs:

Total = \$15,000.00

USDA Forest Service:

Environmental compliance work = \$2,500

Total Cost Share = \$2500.00

Total Cost = \$17500.00

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

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

- Arizona Game and Fish will coordinate with Paul Charlton to the completion of this project
- USDA Forest Service/ Environmental Compliance
- Paul Charlton (Limestone Permittee),

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

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

PROJECT MONITORING PLAN:

Arizona Game and Fish conducts wildlife surveys for elk, deer and pronghorn in the project area. The

Department will continue to do these surveys and analyze the data with respects to this project. Some anticipated outcomes from the project are better wildlife distribution leading to improved range conditions.

PROJECT MAINTENANCE:

PROJECT COMPLETION REPORT TO BE FILED BY: K. CLAY

Wilken TT apron photos





Water Trough



