

**ARIZONA GAME AND FISH DEPARTMENT  
HABITAT PARTNERSHIP COMMITTEE  
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**  
Electronic version available here: <https://goo.gl/forms/NZ8uNdSYpqq0AoUL2>

HPC Project Number:

18-518

### PROJECT INFORMATION

<b>Project Title:</b>	West Silverbells Water Development		
<b>Game Management Unit:</b>	37A	<b>Region:</b>	5
<b>Local Habitat Partnership Committee (LHPC):</b>	<b>Was the project presented to the LHPC?</b>		
Tucson	Yes		
<b>Project Location:</b> (Please provide <u>lat/long</u> in decimal degrees or meters of project area using datum WGS84 or NAD83. If project is larger than one point, please include them all. Provide an accompanying shapefile as an attachment for the project area). Please include enough maps to clearly demonstrate what the project will accomplish and where in Arizona the project is located (e.g. site specific map, and a larger overview map that shows where in the state the project is located).			
<b>LATITUDE/NORTHING:</b>			
<b>LONGITUDE/EASTING:</b>			
<b>MULTIPLE LOCATION COORDINATES:</b> Please separate coordinate pairs with names & commas. (ex. Bob's Tank 34.365, -110.663. Clear Spring 34.55, -110.107, etc.):			
1. High Horse Corrals: 32.4812269, -111.5904458			
2. West Corrals: 32.468793, -111.675220			
3. South Corrals: 32.425325, -111.666131			
4. BLM Well: 32.49, -111.58			
<b>Project Type:</b>	Water storage, troughs and solar pumping plant		
<b>Water Project Action</b> (if applicable):	Replace non-functional water storage tanks and troughs, install solar pumping systems on existing wells		
<b>Habitat Restoration Action</b> (if applicable):	N/A		
<b>Other Project Type and Action</b> (if applicable):	N/A		
<b>Has this project been submitted in previous years?</b>	Yes, 2017		

### PROJECT SUMMARY

Describe the proposed action only. Please use plain English, what action are you proposing? (If applicable, please reference any completed compliance including EAC#).

**Brief Project Summary:**

West Silverbells Water Development is Phase 1 of 2 on the Mammoth Wash Ranch. The ranch is located northwest of Tucson, AZ on the west side of the Silverbell Mountains, against the Tohono O'odham Reservation.

Phase 1 is to: 1) replace the existing water storage tanks and restore water holding capabilities at 3 different locations (High Horse Corrals, West Corrals & South Corrals). The current storage tanks are 60+ year old steel rim tanks that are rusted and leaking. They require a lot of maintenance and cause a lot of water to be wasted. The storage tank at the West Corrals is no longer functional. They will be replaced with 5 - 5,000 gallon storage tanks with solid tops which will reduce water waste and evaporation.  
 2) Two new 750 gallon troughs will be installed along an existing pipeline route on the west side of the ranch that will help create water sources out in the open.  
 3) Installation of a new solar pumping system on existing BLM Well. This new pumping system will replace a gas operated generator and provide water year round for 3 watering locations.

Game & Fish, Big Horn Sheep Society and the Arizona Mule Deer Organization will have access to ALL of the existing and new storage tanks on the Mammoth Wash Ranch. At any time, they will be allowed to pump and use water from these storage tanks.

This project will benefit both big and small game species, including: mule deer, javelina, big horn sheep, dove and Gambel’s quail.

Phase 2, to be proposed at next year’s HPC: Will be a water system from the Indian Well across section 36 with a solar booster pump servicing 11,000 feet of pipelines, storage tanks and troughs. This water system will develop new permanent water sources in big horn sheep and mule deer country.

<b>Primary Big Game Wildlife Species to Benefit:</b>	Mule deer, Big horn sheep, Javelina
<b>Implementation Schedule</b> (Month/Day/Year)	<b>START DATE:</b> 3/01/19
	<b>COMPLETION DATE:</b> 3/01/20

<b>PROJECT FUNDING</b>	
<b>Project Funding</b>	<b>Itemized Use of Funds</b>
*Qualifying Cost Share should be restricted to support (materials, compliance, and or labor) of the proposed action ONLY (same time and place). Please do not include previously purchased supplies or past completed work.	Please email separate quotes if HPC funds are to be used to purchase materials or contracted labor: <a href="mailto:HPC@azgfd.gov">HPC@azgfd.gov</a> .
<u>HPC Funds Requested</u> <b>Amount: \$7,150</b>	Wildlife escape ramps* (steel/concrete) \$1,000
<u>Cost Share or Matching Funds</u> <b>Amount: \$2,850</b> (in solar panels from AZ Mule Deer Organization)	Culvert for washed out road \$500
<b>Amount: \$30,918</b> from NRCS EQIP contract	PVC drop pipe, couplings & check valve \$200
-Solar pumping system: \$5,080	Bracket \$700
-Trough, 750 gal.: \$1,388	Control Box \$750
-Storage tank, 5000 gal.: \$6,750	Wiring \$700
-Storage tank, 5000 gal.: \$6,750	Trough, 750 gal. \$800
-Storage tanks, 15000 gal.: \$10,950 (3 – 5000 gal. tanks)	<u>For Storage Tanks</u> <u>\$2,500</u>
<b>Amount: \$3,000</b> (in kind match from Ed & Matt)	<b>Total =</b> <b>\$7,150</b>
	*Wildlife escape ramps will be installed on the 2 new troughs and existing water troughs on the

<p>Kile)</p> <ul style="list-style-type: none"> <li>-Transportation of backhoe, fuel, grease (the backhoe will need to be driven over 50 miles in order to visit all the project sites)</li> <li>-Time &amp; labor</li> </ul> <p><b>Amount: \$3,000</b> (in kind match from Ed &amp; Matt Kile)</p> <p><i>Continued</i></p> <ul style="list-style-type: none"> <li>-Use backhoe to repair roads as backhoe is driven across the ranch from site to site. Repairing the washed out roads will aide in ease of access to the water catchments</li> <li>-Placement and installation of 5 tanks and 1 trough</li> <li>-Pulling BLM well and installing new pump and drop pipe</li> <li>-Supplying 2 large culverts to repair road between catchments #880 &amp; #676</li> <li>-Matt Kile is installing a new solar pumping system on the Tejon Well (previously a windmill) – a pipeline was installed with previous HPC funds to connect the Tejon Well to Catchment #676. The new solar pumping system will be strong enough to pump and service the wildlife catchment if it ever runs out of water.</li> </ul> <p><u>Percent Match</u> <b>84%</b></p> <p><u>Total Project Cost</u> <b>Amount: \$43,918</b></p>	<p>ranch will be retrofitted with ramps for ease of escape and access for wildlife. Existing tire troughs, due to their height, will have access ramps added on the outside as well as escape ramps on the inside.</p> <p>These are the total matches, costs and requests for Phase 1.</p> <p>Phase 2 will be a separate HPC application next year to develop new water sources in the southeast portion of the ranch off the Indian Well. Phase 2 is already approved for funding by NRCS. NRCS is matching \$32,717 towards Phase 2 which will entail a solar booster pumping system, 11,000 feet of pipeline, a 5,000 gallon storage tank and 2 -750 gallon troughs.</p>
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### ENVIRONMENTAL COMPLIANCE

Please indicate the status of the Project's compliance. if you are unsure, please reference:

HPC Compliance Checklist (<https://www.azgfd.com/wildlife/hpc/forms/>).

If you have questions regarding the requirement of an EAC, contact AGFD's Project Evaluation Program: (<https://www.azgfd.com/wildlife/planning/projevalprogram/>).

\*\*\*Please email supporting compliance documents to [HPC@azgfd.gov](mailto:HPC@azgfd.gov) \*\*\*

<b>AGFD EA Checklist Completed:</b>		<b>Completion Date:</b>	
<b>NEPA Completed:</b>	Projects on BLM Land: No NEPA required, BLM deemed N/A due it being the improvement of existing infrastructure.	<b>Completion Date:</b>	April 2018
<b>State Historic Preservation Office/ Archaeological</b>	State Land: No clearances required, only need to update status of improved storage	<b>Completion Date:</b>	April 2018

<b>Clearance:</b>	tanks. Improvement of existing infrastructure and no new ground disturbance.		
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<b>CONTACT INFORMATION</b>	
<b>Applicant</b>	
The project applicant is the responsible party for seeing the work through to completion.	
<b>APPLICANT NAME:</b> Ed Kile	<b>PHONE:</b> 520-251-1728 520-251-3006
<b>ORGANIZATION:</b> MAMMOTH WASH RANCH	
<b>ADDRESS:</b> 110 E. Harmon Rd. Eloy, AZ 85131	<b>EMAIL:</b> hotrodkile@gmail.com
<b>AGFD Project Proponent</b>	
The Project Proponent is responsible for compliance, implementation, and annual/final reporting requirements.	
<b>AGFD CONTACT NAME:</b> Will Hull	<b>PHONE:</b> 602-527-5356
<b>Cooperators</b>	
<b>COOPERATOR NAME(S), ORGANIZATION, ROLE IN PROJECT:</b> Ed & Matt Kile, lessee/rancher– providing matching funding with time, labor and backhoe for Phase 1 Jim Lawrence, AZ Mule Deer Organization – provided matching funding with solar panels Darrel Tersey, BLM – project design and approval Brett Myers, Natural Resources Conservation Service – project design, funding for Phases 1 & 2 Mike McIntire, Arizona State Land Department – project design and approval	

<b>PROJECT NEED AND DESCRIPTION</b>
Please use direct language: why is this project important? What problem will be solved? How will you implement it, and how will the habitat be enhanced? Please include # of acres, methods, roles, and any phases. Please be specific and thorough.

**NEED STATEMENT – PROBLEM ANALYSIS:**

The project area is the 29,000 acre Mammoth Wash Ranch located west of the Silverbell Mountains and north of the Tohono O’odham Reservation. The ranch is located within the Ironwood National Monument. Ed & Matt Kile have been ranching on these State & BLM grazing leases for 30+ years. New projects were installed on the north end of the ranch a few years ago with the aide HPC and NRCS to provide permanent waters. Now they are working to improve/repair the rest of the ranch water infrastructure that is over 60 years old. Their plan is to replace old steel rim storage tanks and troughs. The old tanks are very rusted, waste water and require lots of maintenance. They are also going to install two new troughs to replace old rusted steel rimmed troughs. And

install a solar pumping system on the existing BLM Well to replace a gas generator pump and to allow for continual water year round.

The projects have been broken into 2 phases:

Phase 1:

BLM Well – solar pumping plant, High Horse Corrals – 5,000 gallon storage tank, West Corrals – 5,000 gallon storage tank and a 750 gallon trough, South Corrals – 3 - 5,000 gallon storage tanks and a 750 gallon trough. (On NRCS map, CINs: 1, 2, 3, 4 & 5)

Phase 2:

Indian Well – solar booster pump, 11,000 feet of pipeline, 5,000 gallon storage tank and 2 – 750 gallon troughs. (On NRCS map, CINs: 6, 7, 8, 9, 10 & 11)

## PROJECT DESCRIPTION AND STRATEGIES:

**BLM Well:** Install solar pumping system on existing well that is currently being pumped with a gas operated generator. Matt Kile installed a new tire trough at the BLM Well last year. Wildlife are already enjoying it. This water is not inside a corral. To ensure that there is always adequate water the solar pumping system and new storage tank at High Horse will keep this system full and operational. Located on Bureau of Land Management (BLM) land. No NEPA required since this is the repair/improvement of existing infrastructure.



Bobcat on new tire trough at BLM Well.

Tire trough will be retrofitted with access ramps. Trough already has expanded steel escape ramp.





BLM Well head with tire trough in background

**High Horse Corrals:** Replace old steel rim storage tank with new 5,000 gallon poly tank. The current steel tank is rotting around the base and leaking. This project will improve the water system's efficiency and reduce evaporation by replacing it with a closed top storage tank. Replace old steel trough with new 800 gallon galvanized steel trough. Located on BLM land. No NEPA required since this is the repair/replacement of existing infrastructure.



Existing Storage Tank at High Horse Corrals



Deer drinking at trough in High Horse Corrals. New storage tank will keep this system operational.

**West Corrals:** Replace old steel rim storage tank with new 5,000 gallon poly tank. The current steel tank is completely rotted through and is incapable of holding water. This project will improve the water system’s reliability and efficiency. Replace old steel trough with new 750 gallon galvanized steel trough. Located on BLM land. No NEPA required since this is the repair/replacement of existing infrastructure.



Existing Storage Tank at West Corrals





**West Corrals:** This year Matt Kile installed a new trough to service both the inside and outside of the corrals, so it is as easily accessible for wildlife as it is for cattle.

**South Corrals:** Replace old steel rim storage tank with 3 new 5,000 gallon poly tanks. Replace old steel trough with new 750 gallon galvanized steel trough. Located on State Land. No clearances required since this is the repair/replacement of existing infrastructure.



Existing Storage Tank at South Corrals

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



BLM Well: BLM  
High Horse Corrals: BLM  
West Corrals: BLM  
South Corrals: State Land

**PROJECT MONITORING PLAN:**

The lessee (Ed & Matt Kile) will oversee the completion of the projects and will monitor the sites for wildlife use via visual observation, tracking and cameras.



Deer track on ranch



Mountain Lion track near South Corrals

**PROJECT MAINTENANCE:**

The lessee (Ed & Matt Kile) will provide labor to maintain the new pump and solar array, storage tanks and troughs. Water will remain available to wildlife at the sites regardless of whether cattle are in the pasture.

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

**SUPPORTING DOCUMENTS LIST:**

NRCS Conservation Plan Map

NRCS Location Map

If you are unsure, please reference the Recommended Supporting Documents for your Application: (<https://www.azgfd.com/wildlife/hpc/forms/>).

**Have supporting documents been submitted?**

Yes, project map and location map.

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**PROJECT TITLE: Silverbell water storage**

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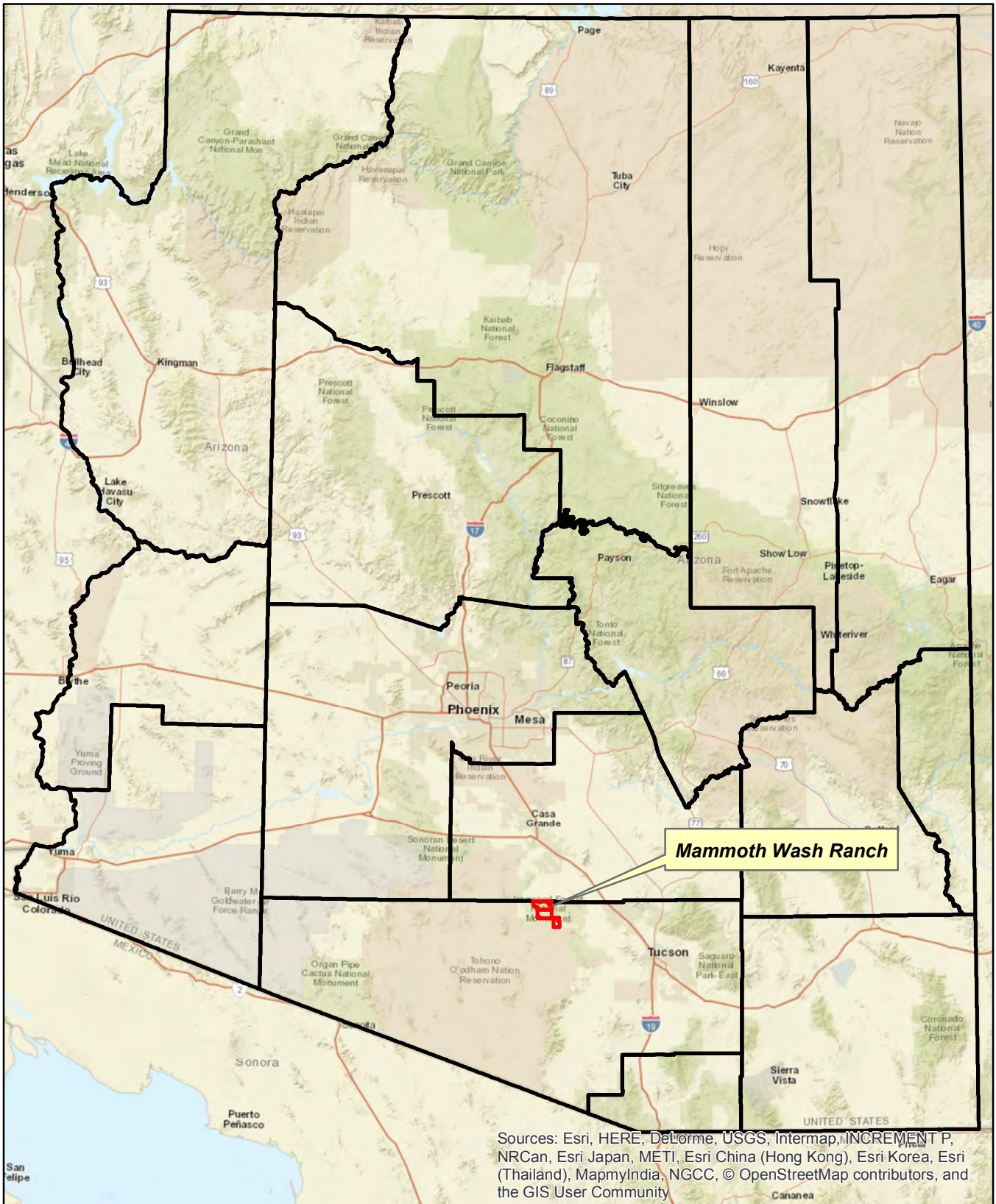
- 1) **Was a site visit completed (Date and with whom)?**  
Yes, with Jon McClard on 8/4/2017. Email communications with Will Hull, Rana Tucker and Sarah Gandaria.
- 2) **If this is a dirt tank project, has the site historically held reliable water?**  
N/A
- 3) **If this is a dirt tank project and soil data is available, what type of soil is at the site?**  
N/A
- 4) **If this is a water catchment project, please list the Development Branch coordination date:**  
N/A
- 5) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**
- 6) **If this is a water catchment project, please list the Development Branch personnel coordinated with:**  
N/A
- 7) **Is there a perennial water source available to big game within four miles of this project?**  
Yes, there are 3 wildlife guzzlers in the West Silverbell Mountains and these water developments will provide 4 permanent water sources.



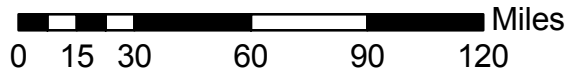
Customer: Vernon Kile  
NRCD: Pima  
Approximate Acreage: 21,008  
Location: Pima Co.

### Mammoth Wash Ranch Location Map

Date: 4/14/2017  
Field Office: Tucson  
Agency: USDA-NRCS  
Assisted By: Alisha Phipps, RMS



Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community





# Mammoth Wash Ranch 2018 Consplan

