

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

Game Branch / HPC Project Number:	13-117
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PROJECT INFORMATION

Project Title: Town Draw Well Improvements

Region and Game Management Unit: Region I / GMU 3C

Local Habitat Partnership Committee (LHPC): • Show Low	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 <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: Water Improvement (Well)

Brief Project Summary: This project will make improvements to a dilapidated well shaft on USFS land and develop an onsite water storage/drinker to create a perennial water source for wildlife and livestock.
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Big Game Wildlife Species to Benefit: Elk, Mule Deer and Turkey
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Implementation Schedule (Month/Day/Year): <u>Project Start Date:</u> July 12, 2014 <u>Project End Date:</u> October 31, 2014	Environmental Compliance: NEPA Completed: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Projected Completion Date: <u>N/A</u> State Historic Preservation Office - Archaeological Clearance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Projected Completion Date: <u>August 2, 2013</u> Arizona Game and Fish Department EA Checklist: N/A <input type="checkbox"/> To be Completed by: <u>Paul Greer</u> Projected Completion Date: <u>May 2014</u>
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PROJECT FUNDING

Special Big Game License Tag Funds Requested:	\$ 18,139.26
Cost Share or Matching Funds:	\$ 2,900.00
Total Project Costs:	\$ 21,039.26

PARTICIPANT INFORMATION

Applicant (please print): Paul Greer	Address: 2878 E. White Mountain Blvd. Pinetop, AZ 85935	E-mail: jgreer@azgfd.gov
Telephone: 928-358-8905		Date: February 2, 2014

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

Project has been coordinated with: USFS Black Mesa Ranger District personnel, Clay Springs Grazing Allotment permittee Clint Smith, AGFD Landowner Incentive Program Rachel Williams and Andy Clark
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NEED STATEMENT – PROBLEM ANALYSIS:

Opportunity exists to partner with the United States Forest Service (USFS) and Clay Springs Allotment Livestock Grazing Permittee to establish a perennial water source in GMU 3C south of the town of Clay Springs and improve perennial water distribution for wildlife. There is currently no water source at the project location, only a well shaft and nonfunctional pump. The surrounding area produces good forage including a robust stand of browse, such as mountain-mahogany, cliffrose and ceanothus. The project area provides very good deer and elk habitat; however, the primary limiting factor for deer and elk in this area is absence of perennial water supplies. The nearby dirt stock tanks and spring do not provide water for wildlife during the critical dry periods of the year. The project area provides both winter and summer habitat for elk and mule deer in addition to other wildlife species.

A dirt stock tank is located near the well site; however, the tank only holds water for only a few weeks following heavy precipitation events. The nearest perennial water sources are: Turkey Hill USFS wildlife guzzler (AGFD maintained) – 3.3 miles, West Cottonwood AGFD catchment – 3.8 miles and Sackett USFS wildlife guzzler (AGFD maintained).

PROJECT OBJECTIVES:

Improve perennial water distribution for elk and mule deer in south central GMU 3C.

PROJECT DESCRIPTION AND STRATEGIES:

Complete improvements to the existing well:

- convert the well to solar powered water delivery
- install 2 above ground water storage tanks to pump into from the well
- plumb the storage tank to a tire drinker to supply water year-round
- plumb the storage tanks to a metal drinker which will also be used to increase water supply when cattle are present
- storage tank and drinker on sand foundation
- create a solar powered, gravity-fed year round water supply for wildlife

PROJECT LOCATION:

Township 11N, Range 19E, Section 23 / 12S 565299 E; 3799241 N

- Landownership is Forest Service
- Central GMU 3C just south of highway 260
- See attached maps – project location marked with yellow circle

Town Draw and nearby dirt tanks provide only intermittent water throughout the year and are not perennial water sources.

LAND OWNERSHIP AT THE PROJECT SITE(S):

USDA Forest Service, Apache-Sitgreaves National Forest, Black Mesa Ranger District

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:

Ponderosa pine, gambel oak and juniper woodland. This area is located within the Rodeo-Chediski Fire burn area. The well site is on the northern edge of an area that burned at a high severity leaving the area to

the south and west open and dominated by woody browse species and re-establishing oak and juniper species. The ridge to the north and east is unburned pine, oak and juniper mature woodland. The combination of burned and unburned areas have created high quality elk and deer habitat at the project location. The primary limiting factor for elk and deer habitat in the area is lack of a perennial water source.

ITEMIZED USE OF FUNDS:

Project Cost:		
4 Solar Panels:	\$2,200	
1 inch PVC drop pipe (500feet):	\$950	
#10 cable (500 feet):	\$750	
Well seal and fittings:	\$125	
Solar Pump:	\$2,181	
Controller:	\$446.50	
Array to controller wire kit:	\$79.50	
4 Solar Panel Supports:	\$646.25	
Posts:	\$110	
Misc Fittings:	\$125	
Installation:	\$650	
Tax:	\$756.01	
Total Cost for Solar Power Conversion:	\$9,019.26	
2 Polyethylene Storage Tanks (5,000 gal. capacity/tank):	\$7,000	(\$3,500 per tank)
Tire Drinker:	\$250	
Steel Drinker (1,000 gal capacity):	\$1,000	
Plumbing (1 ¼ inch PVC) and fittings:	\$500	
Sand Bed (to set tank and drinkers – 40 tons):	\$550	
Cement (2 yards 3000 lb. psi):	\$320	
Tax:	Included in Estimate	
Labor to install water development:	\$2,400	
Total Project Cost - \$21,039.26		

Special Big Game License Tag Funds

Total SGBT Funds Requested	\$18,139.26
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Cost Share or Matching Funds (for volunteer labor rates please refer to the worksheet below)

Assist Contractor with labor to install water development (Permittee)	\$ 1,000.00
Tire Drinker (USFS Black Mesa)	\$ 250.00
Steel Drinker (USFS Black Mesa)	\$ 1,000.00
Plumbing and Fittings (USFS Black Mesa)	\$ 500.00
Archaeological Survey and Compliance (USFS Black Mesa)	\$ 150.00
Total Match	\$ 2,900.00

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

USDA Forest Service, Black Mesa Ranger District

- Archaeological Clearance
- Provide drinkers and pipeline/plumbing

Livestock Grazing Permittee

- Assist contractor with labor for install of water development
- Maintenance of water source to ensure year-round water availability

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

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

PROJECT MONITORING PLAN:

Paul Greer (AGFD) will monitor the project from construction through completion, provide photographs and be responsible for completion of the HPC project completion report.

PROJECT MAINTENANCE:

Livestock Grazing Permittee will provide maintenance to the water source.

PROJECT COMPLETION REPORT TO BE FILED BY:

Paul Greer (AGFD)

WATER DEVELOPMENT PROJECTS (*please use the worksheet below*):

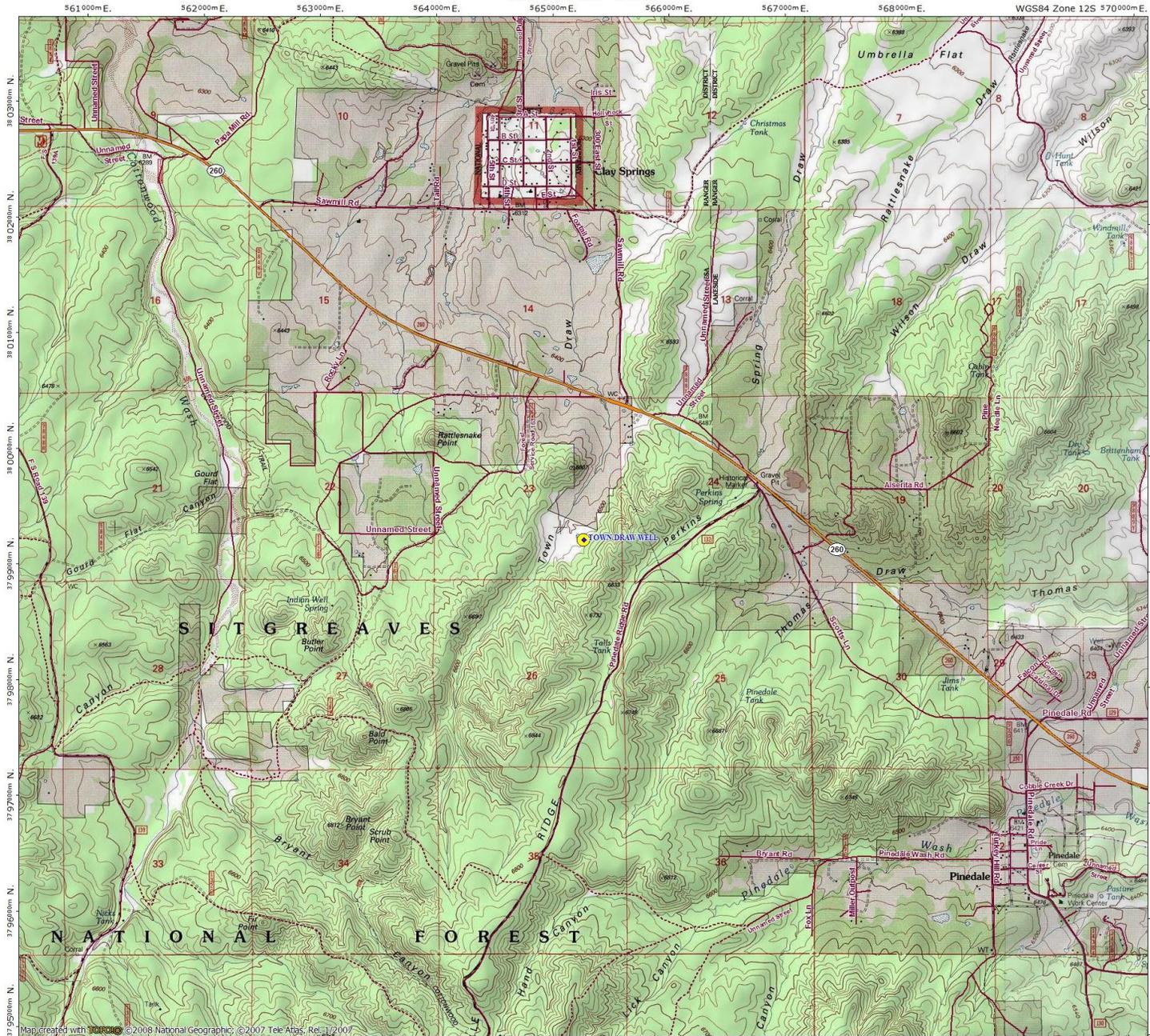
N/A

TREE CLEARING/REMOVAL PROJECTS (*please use the worksheet below*):

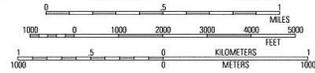
N/A



Town Draw Well - GMU 3C



Map created with www.national Geographic.com ©2008 National Geographic ©2007 Tele Atlas, Ref. 1/2/07



10 1/2°
02/10/14

