

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

PROJECT INFORMATION	
Project Title: Middlemarch Well	Project No. 07-519
Region/GMU: U30B	HPC:
Project Type: Water Development	
Project Description: Developing a new water source (well) to provide permanent water to an existing storage tank and pipeline to supply three water troughs at the base of the Drought Mountains, on the northeast side of Black Diamond Peak. The original well located on private property is no longer available. Currently, there is no other permanent water source in the area, the closest being Black Diamond Spring located approximately 1.5 miles south of the proposed project.	
Wildlife Species to Benefit: White-tail Deer , Javelina	
Possible Funding Partners: ADA	
Implementation Schedule: Beginning: 2008 Completed: 2009	NEPA Compliance: (if applicable) Completed: Yes ___ No <u>X</u> Projected Completion Date: CE 11/15/2007
PROJECT FUNDING	
SBG Funds Requested: \$3,000.00	
Cost Share Funds: \$12,000.00 from Livestock & Crop Conservation Grant Program	
Total Project Costs: \$15,000.00	
PARTICIPANT INFORMATION	
Applicant: Marcello Martinez (please print) Telephone: 520-364-6814	Address: Douglas Ranger District 1192 W. Saddle View Rd. Douglas, AZ 85607
AGFD Contact and Phone No. Brad Fulk - 520-803-9068 (If applicant is not AGFD personnel)	
Coordinated with: Brad Fulk (AZGFD), Marcello Martinez and Tom Skinner (USFS), Sonia Gasho (Permittee)	Date: July 31, 2007
Applicant's signature:	Date: Aug. 10, 2007

**SEND COMPLETED APPLICATIONS TO:
Game Branch**

2221 W. Greenway Rd.
Phoenix, AZ 85023
mdisney@azgfd.gov

WAS PROJECT PRESENTED TO THE LOCAL HPC? YES _____ NO X

HAS PROJECT BEEN SUBMITTED IN PREVIOUS YEARS? NO IF SO WAS IT FUNDED?

NEED STATEMENT/PROBLEM ANALYSIS:

A new water source is needed due to the loss of a private well as a result of a land exchange. The well is needed to supply water to an existing system that is in place. The springs located in the area are not reliable due to extended drought, making this permanent water important for local wildlife in the area.

PROJECT OBJECTIVES:

Provide a yearlong water source for three existing troughs and establish a permanent, fenced wildlife water and wetland at the well site to benefit all wildlife in the area.

PROJECT STRATEGIES:

Drill a new well on site, install a submersible pump to be powered by an existing electrical power source located on the adjacent private property (less than 1/8mi.). Create a wildlife water/wetland habitat at the site to benefit wildlife species in the immediate area by placing a large 1,600 gallon water trough in the ground, with overflow pipe to created sealed pond, and fencing the area to exclude livestock. (see diagram)

PROJECT LOCATION: Center of Section 17, T. 18S., R. 24E. The project is located along the east side of the Dragoon Mountains, 1/8 mile south of Middlemarch road.

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name): USFS, Coronado National Forest, Douglas Ranger District.

IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT? N/A

HABITAT DESCRIPTION: Transition between high desert and oak woodland with some riparian vegetation along the Middlemarch Drainage.

ITEMIZED USE OF FUNDS:

Forest Service Share:

1. NEPA completion - \$2,000
2. Archaeological/Cultural resource clearance - \$500
3. Biological evaluation and assessment / T&E surveys - \$2000
4. Project design - \$1000

Funds Requested:

Drill well - \$7,500 (est. 150 to 250 ft.)	Electrical- \$240.00
Drill rig mobilization & casing -\$2,000.00	Plumbing – \$350.00
Submersible pump - \$750.00	Float box- \$380.00
Installation - \$350.00	Misc. cost - \$260.00
Pipe (500' of 200psi) - \$240.00	Bentonite - \$400.00
Trough - \$1,600.00	Access & escape ramps \$280.00
Backhoe time - \$1000.00	
Fence materials - \$200.00	Total cost:- \$15,000.00
Utility & Control box - \$450.00	

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

Douglas Ranger District Range Staff and Wildlife Biologist (NEPA, BA&E, Arch clearance, project design and oversight)

Arizona Game and Fish Dept. – Wildlife Manager (project design, administration and coordination)

Private Landowner/grazing permittee (provide electrical power, labor for fence const, & grant applicant for Livestock & Crop Conservation Prog.)

PROJECT MONITORING PLAN:

Oversite/documentation of project construction, annual monitoring by both USFS and permittee.

PROJECT MAINTENANCE: USFS and Permittee

PROJECT COMPLETION REPORT TO BE FILED BY: USFS- Marcello Martinez

WATER DEVELOPMENT PROJECTS (see attached worksheet):

TREE SHEARING (AGRA-AXE, PUSH) PROJECTS :

N/A

ARIZONA GAME AND FISH DEPARTMENT
WATER DEVELOPMENT WORKSHEET

PROJECT NAME: Middelmarch Well

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”** NO
- 2) **Please list the Development Branch personnel and date coordinated with for this project.** NA
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**
 2-4 4-6 6-8 8-10 10-12 X 12-14 14-16 >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**
 X YES (please complete #5 below) NO (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**
Name of water source: Black Diamond Spring
Type of water source (catchment, spring, dirt tank, etc.): Spring
Ownership of water source: USFS
Distance in miles from project: 1.5
- 6) **Is the target wildlife species a result of transplant efforts?** YES X NO
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner. National Forest, administered by USFS, Coronado N.F. Management Area 4 for livestock, wildlife habitat, and fuelwood harvest.**
- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): 2x4 vehicles 4x4 only X foot only**
**If foot access only: Distance in miles: ¼ mile Approx. hiking time: 5

-- Does access to this site require crossing private or tribal lands? YES X NO

-- Please describe any restrictions to public access: To project site, No Motorized Travel allowed.
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.** NA

10) **Was a site visit completed?** X Yes No

If Yes, please list personnel that attended and date. USFS, Range Staff, Wildlife Biologist: AZGFD Wildlife Manager and Non Game Biologist on April 17th, 2007.