

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

PROJECT INFORMATION	
Project Title: Silverbell Pipeline Project Phase-2	Project No. 10-517
Region/GMU: 5/37A	HPC: Tucson
Project Type: Cooperative Water Development Project with Rancher	
Project Description: This project will provide perennial water to within 1.5 miles of 34 sections of land by installing 3.75 miles of 200 psi NuMex pipeline from the 47 tank east to the high horse corrals and connecting it to an existing 2 mile pipeline. Along the 3.75 mile segment being proposed, we will install 3 wildlife friendly livestock drinkers and one 6,000 gallon storage tank. Our intent is to use our permanent reliable water source from the CAP canal and spread it out as much as possible.	
Wildlife Species to Benefit: mule deer, bighorn sheep, javelina	
Possible Funding Partners:	
Implementation Schedule: Beginning: September 1, 2009 Completed: December 31, 2010	NEPA Compliance: (if applicable) Completed: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Projected Completion Date: N/A
PROJECT FUNDING	
SBG Funds Requested: \$14,000	
Cost Share Funds: Existing 14 miles- \$169,285 + new 3.75 miles - \$46,050 = \$215,335	
Total Project Costs: \$229,335	
PARTICIPANT INFORMATION	
Applicant: Matthew Kile Telephone: [REDACTED]	Address: [REDACTED]
AGFD Contact and Phone No. (If applicant is not AGFD personnel) Bob Lemons (520) 877-4360	
Coordinated with: Ed Kile (Mammoth Wash Ranch), Alicia Phipps (NRCS), John Patton (state land dept.)	Date: 8/20/10
Applicant's signature:	Date: September 1, 2010

SEND COMPLETED APPLICATIONS TO:

**Game Branch
 2221 W. Greenway Rd.
 Phoenix, AZ 85023
 rothompson@azgfd.gov**

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

HAS PROJECT BEEN SUBMITTED IN PREVIOUS YEARS? IF SO WAS IT FUNDED?

No

NEED STATEMENT/PROBLEM ANALYSIS:

Mammoth Wash Ranch is located within the Silverbell mountain range. Prior to us assuming control of the ranch, all watering facilities were inoperable leaving no water available for wildlife or livestock. Since we have acquired the lease, we have drilled three wells, refurbished two others, and installed 13.5 miles of pipeline which has helped, however, there is still a lot of country dry. We are currently working with the State Land Department and the NRCS, which have been very helpful in plotting courses for the pipeline, along with mapping and engineering. We feel that this project would greatly enhance this area for both livestock and wildlife.

PROJECT OBJECTIVES:

- To increase deer and javelina populations by providing dependable, long term, self-sustaining, quality water sources on a landscape scale and by increasing the use of otherwise unavailable forage resources
- To improve forage conditions in four different allotments by spacing waters no more than 1.5 miles apart. Livestock will be less likely to over browse areas close to water and more likely to utilize the allotments equally.
- To increase hunter opportunity
- To improve relations with the ranching community

PROJECT STRATEGIES:

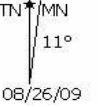
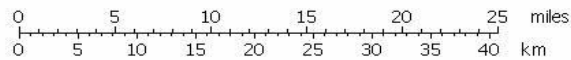
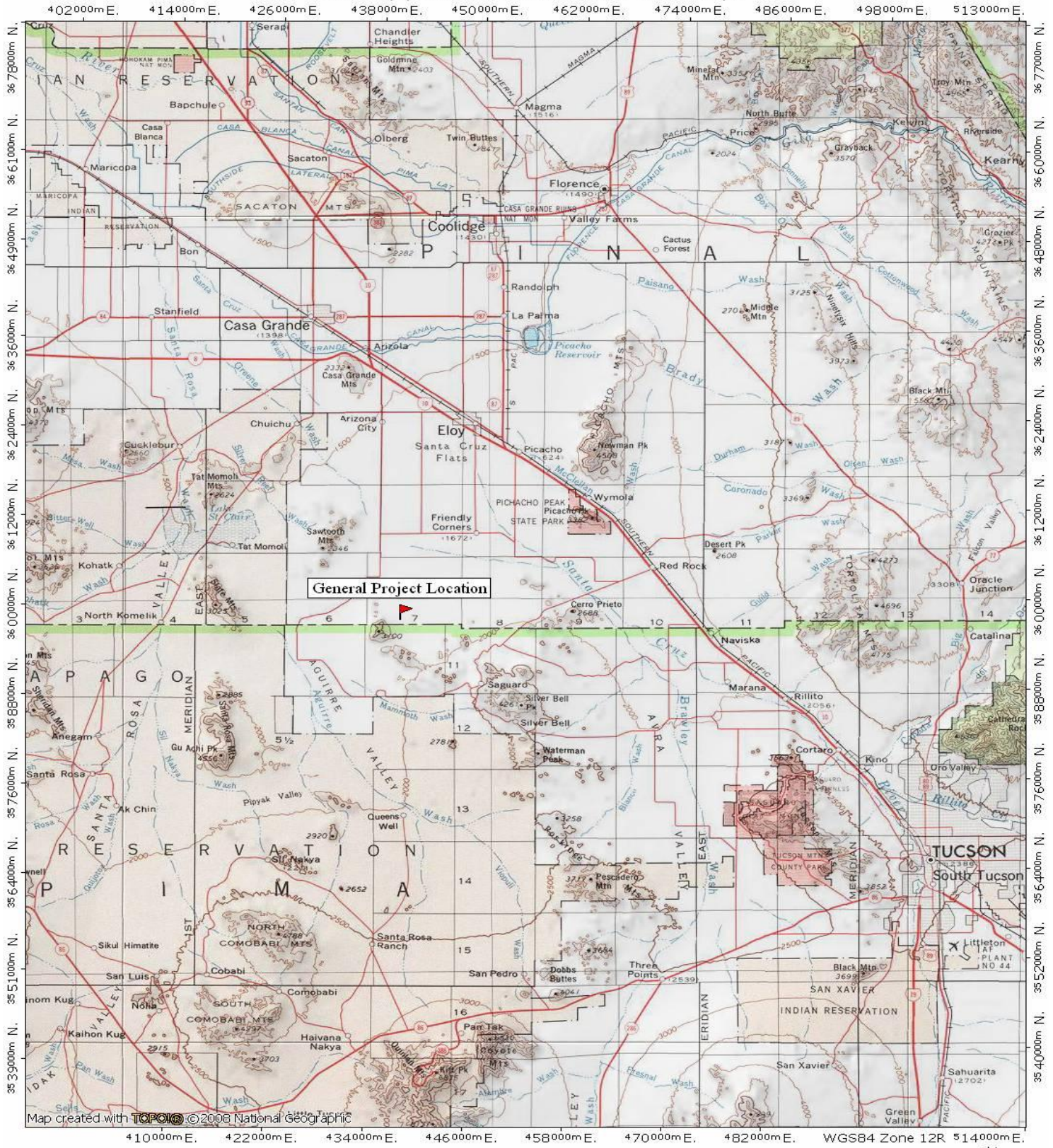
Provide perennial water to within 1.5 miles of **34 sections** of land. By utilizing last years project from the CAP canal to Solo Peak. We would like to install 3.75 miles of 200 psi NuMex pipeline from the 47 tank east to the high horse corrals and connecting it to an existing 2 mile pipeline. The rancher will operate and maintain the water supply, pipe and drinkers.

- Mammoth Wash Ranch (Kile Family) – Install and maintain all aspects of the project.
- AGFG – Cost-share the pipeline for the project
- NRCS – Mapping and engineering requirements for the project.
- ASLD – Process all environmental compliance documents for the project.

PROJECT LOCATION:

The project is located northwest of Tucson and south of Casa Grande in Game Management Unit 37A.
- See maps on next two pages for specific locations

TOPO! map printed on 08/26/09 from "Untitled.tpo"



08/26/09

(revised 7-02-2007)

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):

The project site is on land administered by the Arizona State Land Department, Tucson Field Office, 4455 S. Park Avenue Suite 101 Tucson, Arizona 85714 (520) 628-5480.

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

N/A

HABITAT DESCRIPTION:

Game management unit 37A is located in Pima and Pinal Counties, Arizona, west of Tucson and south of Phoenix. Two main biotic community types, Sonoran Desertscrub and Semidesert Grassland, comprise the bulk of the habitat in 37A. The proposed project is located in the Sonoran Desertscrub community. Common vegetation includes foothill palo verde (*Cercidium microphyllum*), mesquite (*Prosopis spp.*), saguaro (*Carnegiea gigantea*), ocotillo (*Fouquieria splendens*), and triangle-leaf bursage (*Ambrosia deltoidea*). Average rainfall is approximately 10-13" and elevation is approximately 1700'.

ITEMIZED USE OF FUNDS:

Item	Quantity	Est. Cost/Item	Total Est. Cost	Total Kile Family Cost Share	AGFD
200 psi pipe	19800'	\$1.73/foot installed	\$34,254	\$32,134	\$14,000
Troughs	3000 gal	\$1.32/gallon	\$3,960		
Storage Tanks	6000	\$1.32/gallon	\$7,920		
Total			\$46,134	\$32,134	\$14,000

Note: The estimated costs/item are current NRCS estimates

Note: Below is an estimated value of the existing 13.5 mile segment of pipeline using current NRCS cost figures.

Item	Quantity	Est. Cost/Item	Total Est. Cost
200 psi pipe	71,240	\$1.73/foot installed	\$119,125
Troughs	11,000	\$1.32/gallon	\$14,520
Storage Tanks	36000	\$1.32/gallon	\$47,520
Total			\$181,165

Total Cost Share = Existing (\$181,165) + New (\$32,134) = \$213,299

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

- Mammoth Wash Ranch (Kile Family) – Install and maintain all aspects of the project.

- AGFG – Cost-share the pipeline for the project
- NRCS – Mapping and engineering requirements for the project.
- ASLD – Process all environmental compliance documents for the project.

PROJECT MONITORING PLAN:

The Kile family will monitor this pipeline and associated drinkers.

PROJECT MAINTENANCE:

The maintenance of this project will be the responsibility of the Kile family.

PROJECT COMPLETION REPORT TO BE FILED BY:

Bob Lemons

WATER DEVELOPMENT PROJECTS (see attached worksheet):

TREE SHEARING (AGRA-AXE, PUSH) PROJECTS (see attached worksheet):

ARIZONA GAME AND FISH DEPARTMENT
WATER DEVELOPMENT WORKSHEET

PROJECT NAME: Silverbell Pipeline Project

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**
Yes
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
N/A
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**
 2-4 4-6 6-8 8-10 10-12 12-14 14-16 >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**
 YES (please complete #5 below) NO (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**
Name of water source:
Type of water source (catchment, spring, dirt tank, etc.):
Ownership of water source:
Distance in miles from project:
- 6) **Is the target wildlife species a result of transplant efforts?** YES 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.**
N/A
- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): 2x4 vehicles 4x4 only foot only**
**If foot access only: Distance in miles: Approx. hiking time:

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

-- Please describe any restrictions to public access:
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**

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10) Was a site visit completed? Yes No

A site visit was scheduled with Wildlife Manager Bob Lemons in 08/2010