

# Dam Near Keams Canyon Boon To Hopi Anglers

By JIM COOK

KEAMS CANYON — A new dam near here will provide fishing for Hopi Indian anglers, and guard against floods which have occasionally played havoc with this canyon community.

The branch of land operations, Bureau of Indian Affairs, teamed up with the Hopi Sportsmen's Club to develop the 31-acre-foot fishing hole behind a new 33-foot-high earth-fill dam.

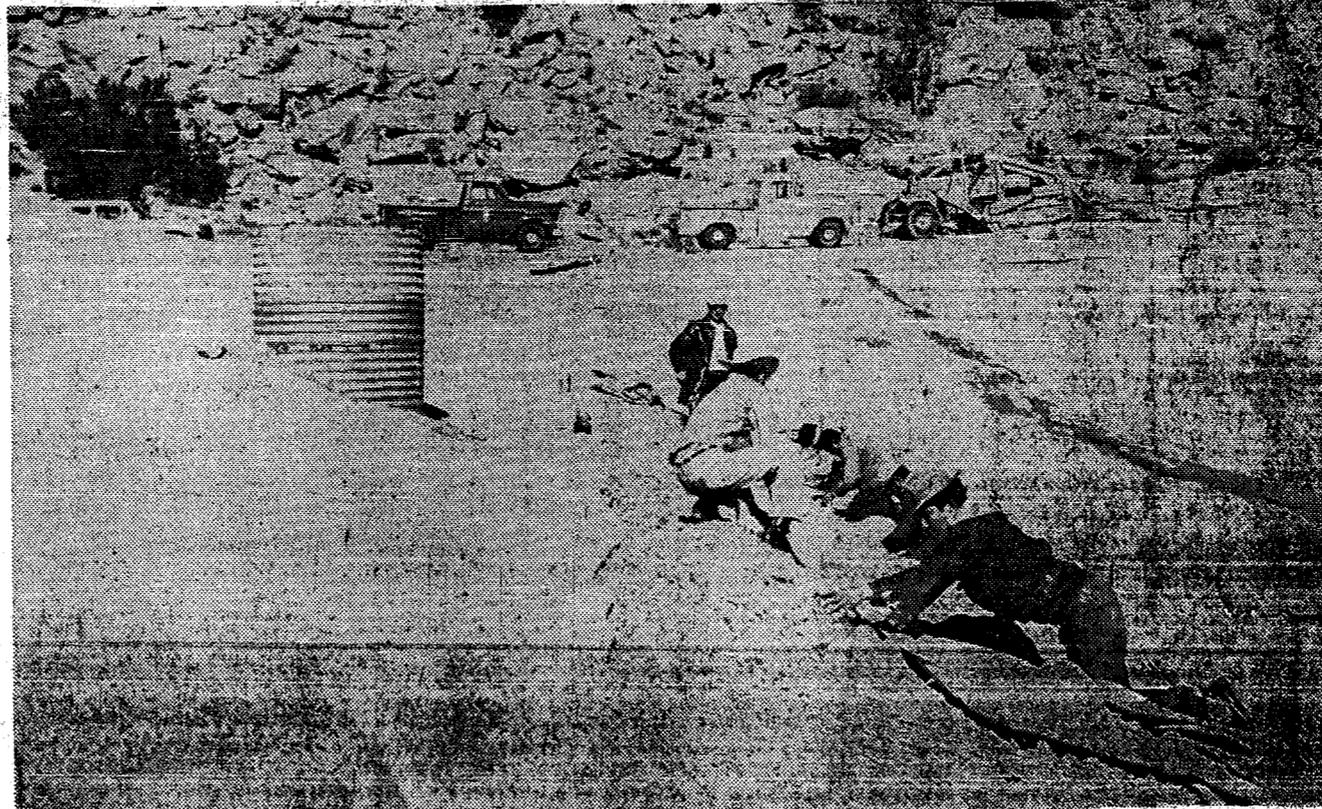
Within a few weeks, Hopi volunteers will plant both warm water and cold water fish in the new pond. Located about one mile up Keams Canyon Wash from the community, the pond is fed by springs.

The water level rose from zero to 15 feet in depth during the first 10 days after the flood control dam was completed. Eventually, it will stabilize at 24.5 feet and back nearly a mile up the sandy wash.

Besides the two main purposes, fishing and flood control, the pond also will be used for swimming in the summer and ice skating in the winter. The sportsmen's club plans to develop a park beside the dam.

Grass has been planted on the earthen structure to hold it in place. The pond can be drained through a 10-inch pipe through the base of the dam, and a flood spillway is provided around one end.

Oddly enough, fishing will not be a new thing along the un-



Republic Photo by Jim Cook

**Hopi Volunteers Sew Together Burlap Covering Newly Planted Grass Seed**  
Grass Will Hold Earthen Sides Of Dam In Place, Help Contain Moisture

likely looking wash. A pair of beavers planted in 1951, and their numerous descendants, have built 75 to 100 dams up the wash.

These ponds have been stocked for several years. Hopi volun-

teers also have planted 5,000 willows a year along the bed of the wash.

The beavers, meanwhile, have become so numerous that 40 have been trapped out within the past two years.



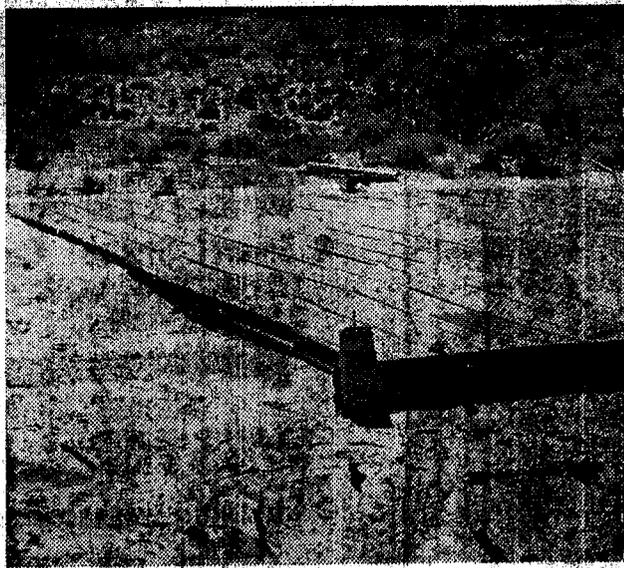


Republic Photo by Jim Cook

**Elaborate Catchment Southwest Of Polacca Cost \$6,300**  
 Asphalt Covered Mesa Gathers Water Which Is Piped To 55,000 Gallon Tank



**Volunteer Hopi Workers Match Federal Funds With Labor In Project**  
 Device Will Use Natural Sandstone Depression To Store 80,000 Gallons At \$1,250 Cost



**Catchment On Kaibab Ute Reservation Near Fredonia Made Of Surplus Materials**  
 Device Of Tin Roofing Designed To Gather And Store 80,000 Gallons Of Runoff

K  
 song  
 prob  
 In  
 sou  
 no u  
 So  
 Bun  
 Hopi  
 to r  
 TH  
 thre  
 "cat  
 devi  
 trall  
 In  
 simp  
 a la  
 allow  
 mean  
 runo  
 Th  
 date  
 Pola  
 atop  
 cover  
 simil  
 Wa  
 of th  
 55,000  
 foot  
 stora  
 to ste  
 Thi  
 ingr  
 serve  
 The  
 with  
 A  
 only  
 store  
 much  
 sion.  
 TH  
 by b  
 end  
 depr  
 wate  
 serve  
 as a  
 Th  
 lster  
 near  
 Mc  
 was  
 roof  
 surpl  
 for  
 it h  
 80,00

# Indians Find To 'Catchem' Water

By JIM COOK

**KLEAMS CANYON** — "It's whatcha do with whatcha got," the song says, and that's the way Hopi stockmen are approaching the problem of storing water for their livestock.

Individuals and private firms have drilled 64 wells in the desert south and west of the Hopi villages without finding water. There is no usable ground water table.

So with technical help from the Bureau of Indian Affairs, the Hopi ranchers are finding ways to make the most of snow and rainfall.

**THUS FAR** they have tried three different versions of the "catchment," a water gathering device that originated in Australia.

In theory, a catchment is a simple device. It requires simply a large, smooth area that will allow water to run off, and a means of catching and holding the runoff.

The most expensive model to date is 25 miles southwest of Polacca. A basin was bulldozed atop a mesa and the surface was covered with asphalt sheeting, similar to roofing.

Water collects on the low side of the basin and is piped off to a 55,000-gallon storage tank at the foot of the mesa. From the metal storage tank the water is piped to stock troughs.

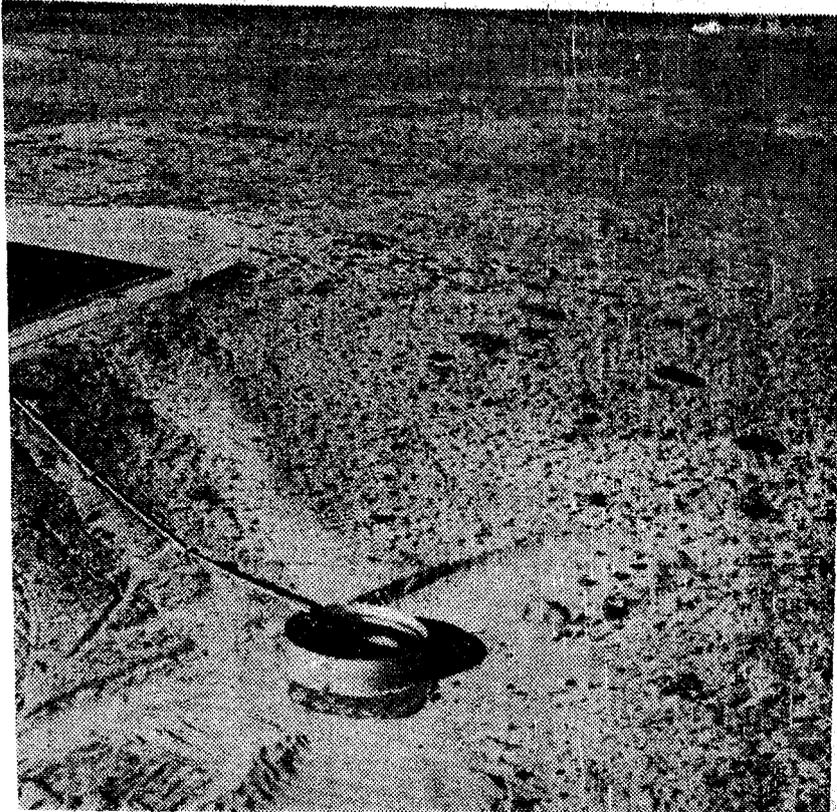
This project cost \$6,300, according to Jack C. Moore, soil conservationist for the Hopi agency. The Hopis matched federal funds with labor.

A more recent catchment cost only \$1,250, but is expected to store more than six times as much water as the fancier version.

**THIS CATCHMENT** was made by building a rock dam at one end of a shallow sandstone depression. The comparatively water-tight sandstone not only serves to shed water, but doubles as a 355,000-gallon storage basin.

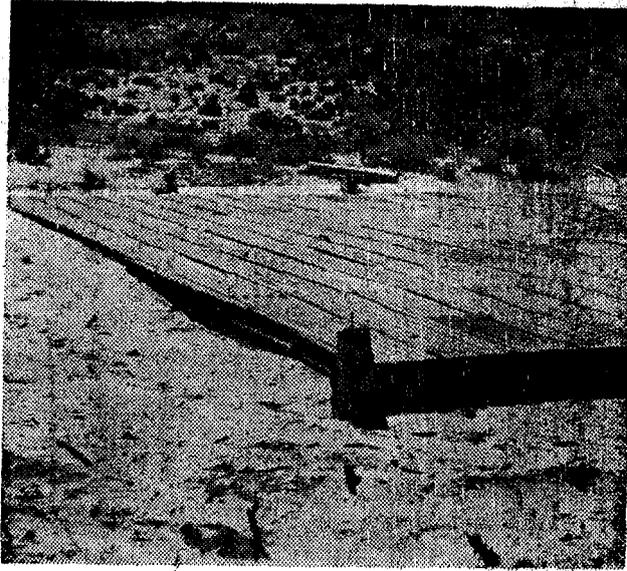
The Hopi agency also administers the Kaibab Ute reservation near Fredonia.

Moore said a catchment there was built of military surplus tin roofing. Because the sheeting was surplus, Moore has no cost figures for the catchment but he says it has a storage capacity of 80,000 gallons.



Republic Photo by Jim Cook

ment Southwest Of Polacca Cost \$6,300  
a Gathers Water Which Is Piped To 55,000 Gallon Tank



inds With Catchment On Kaibab Ute Reservation Near Fredonia  
Made Of Surplus Materials

Store Device Of Tin Roofing Designed To Gather And Store  
80,000 Gallons Of Runoff

## ASU French Club Starts Publication

TEMPE — Arizona State University's campus French club, Cercle Francais, has established a new publication, Le Petit Bivard, designed to acquaint French students at ASU with French club news.

Two ASU coeds, Nancy Spotts, Swanton, Ohio, and Margot Gammache, 416 S. 62nd St., Scottsdale, are the editors of the publication which is written entirely in French.

In addition to French club news, each issue will contain student contributions, a cross-word puzzle, jokes, cartoons and proverbs.

## Introductory Offer FREE HEARING AID

Given Away  
DECEMBER 20th

Entry Blanks mailed to you. Nothing to buy. Winner need not be present.

Call CR 7-0232

NO CHARGE FOR  
HEARING TESTS AT

Telex 47 W. Thomas Road