

GENERAL ENGINEERING AND OFFICE ACTIVITIES



Mr. Thomas H. McCarthy of the Los Angeles Office visited this Jurisdiction in June and assisted Mr. A. W. Empie in transferring the Irrigation Division from the Navajo Service to the Hopi Indian Agency.

Office and field work has been carried on by the local force. Mr. Clotts made a visit to the Reservation October 23-25, and inspected projects under construction and the locations of those contemplated. His presents was of much value to the Irrigation Department and immensely enjoyed by those who were fortunate enough to accompany him on the inspection trip.

Plans for the Wepo Wash Project have been made in the Los Angeles Office. Specifications for the material needed are now in the hands of dealers and bids will be opened January 18, 1940.

WEATHER CONDITIONS

The months of July, August September, and October were very hot and extremely dry. Only a few showers fell during this period. Cool nights came during November. A light snow fell December 23, but did not create much moisture in this locality.

WATER SUPPLY

During the past six months there have been two or three light flash floods in the Polacca, Wepo, and Oraibi Washes. The Seepage in the washes has increased in volume. Possibly $1\frac{1}{2}$ second feet is in the Polacca Wash at Phillips Farms and a like amount going down the Oraibi Wash.

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FARM ACTIVITIES

Due to the scarcity of rain, the crops planted on dry land were a sixty to seventy percent failure. The gardens grown near springs where water could be had were fair. Some fruit was gathered from the orchards at each of the villages.

INDIAN EMPLOYMENT

Twenty-seven Indians have been employed during the past six months. They have worked 587 man days and have received approximately \$1,900.00, in salary.

COMMENTS ON ITEMS OF WORK, OPERATION AND MAINTENANCE

OPERATION - IRRIGATION

The Jeddito Project has been completed by the Navajo Service. The part that was constructed for the benefit of the Hopi Indians has been turned over to the Hopi Irrigation Division. A ditch rider has been on this job the past twenty days and some thirty acres of land besides the windbreak areas have been watered.

MAINTENANCE - IRRIGATION

There was a little work done a year ago under the heading PETERS FARMS: This project is located twenty miles south of the village of Oraibi.

The work consisted of a small masonry dam across a dry wash and starting a channel to lead the flood water to some farm lands. It was thought that the water would soon complete cutting its own channel. This year's floods, however, proved it to be necessary that we complete the canal to a distance of 900 feet. Teams were employed for this job to the amount of \$126.00 from .006 O. & M. funds.

Narrative Report (3)

COMMENTS ON ITEMS OF WORK CONSTRUCTED

PHILLIPS FARMS

The pumping unit and canal at the Phillips Farms Project have been completed. Land leveling equipment was received the first part of December. Some ten acres have been subjugated. Leveling production was small at the start in that the operator had to learn and become accustomed to the equipment. The land that has been worked was terraced every 100 feet, and cost \$24.00 per acre to put in shape.

WORK PROPOSED NEXT MONTH

PHILLIPS FARMS

We plan to continue with the leveling of the garden and farm lands, assign or allot the lands to the Indians. We plan to irrigate the land that has been put in shape to receive water, and have the Indians start building a fence around the project.

JEDDITO PROJECT

Direct and assist the Indians in irrigation on the lands. Probably install some additional turnout gates, reinforce the canal banks and bed up some land adjacent to the farms to prevent wind erosion.

WEPO WASH PROJECT

Any preliminary work that may be necessary for the starting of the job. Very little, however, can be done until bids are opened and purchase of the materials needed is made.