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COMMISSIONER OF INDIAN AFFAIRS  
to the  
SECRETARY OF THE INTERIOR  
FOR THE YEAR 1911

Excerpt from Letter of Robert G. Valentine,  
Commissioner

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COMMISSIONER OF INDIAN AFFAIRS.

In some parts of the field difficulties have temporarily prevented the completion of allotment. After many Hopi Indians had been tentatively allotted in Arizona, it was found best to suspend operations until definite information can be secured concerning resources in water; for without adequate supplies of water the Indians could scarcely gain a livelihood on their lands.

In order to ascertain the resources in underground water for Hopi and also on the Navajo Reservation, where allotments were suspended for the further reason that the General Land Office had not yet made original surveys, the office has had an expert from the Geological Survey make studies, and he has been followed by a well-drilling outfit which has developed five good wells near Hopi Mesa and Keams Canyon, Ariz. These wells are  $3\frac{1}{2}$  inches in diameter. They will be equipped with windmills and pumps, stone tanks for the storage of water, and troughs for watering cattle and sheep. This development of underground water in desert regions has been so successful that two more drilling outfits were purchased in June. The cost of these operations for the year was \$9,000.