

JUSTIFICATION for the purchase of an automobile to be used in the maintenance and repairs of
WELLS
 on the Navajo and Hopi Reservations
 Arizona and New Mexico.



 The area now covered by the wells drilled for stock and domestic purposes extends from a point 40 miles west of Keama Canyon to a point east of Ganado, and from the south line of the Hopi Reservation to a point 25 miles north of Chin Lee, or a country about 75 miles from north to south and 100 miles east to west, and another group being drilled north of Gallup New Mexico.

In this area there is about 70 wells and three rigs at work drilling more wells. In the maintenance of these wells and wind mills they should be visited at least once a month and in case of accident some of them oftener. Each mill should be oiled once a month, and every one of them needs the pump and cylinder pulled once or more each season to put in new valve leathers and to clear them of the accumulated fine sand that quickly puts them out of commission.

The care of all of these wells has been placed with Foreman Womack who is stationed at Polacca which is about the center of the Hopi tract. In order to visit each of the wells will necessitate over 500 miles of travel. If one man undertakes to look after all of this personally it will mean that for 25 days out of each month he must drive an average of 20 miles a day. This will not leave much time to do the necessary work.

With an automobile the foreman can take one helper and the necessary tools and repair parts that may be wanted and make the

Justification 2.

round trip in ten days or two weeks and leave some time for other work that is necessary, such as the spring development, making tanks and troughs etc. During the month of October the entire month was consumed in making one round of the wells and no time was left for the other work.

In order to keep up with both the maintenance and construction work it will be necessary to establish another camp in the Navajo country with an outfit of tools, supplies and a man in charge with helper and hire the necessary team for both camps.

The expenditure of the price of a Ford Automobile -- approximately \$500 delivered at Gallup at retail price -- will save the necessity of one foreman at a minimum price of \$100 per month, a helper at from \$1.50 to \$2. per day, the hiring of a team at \$5.00 per day while in the field or the purchase and keep of a team, the fitting up of a permanent camp with quarters and shop and the purchase of a full line of the necessary tools.

In this section of the country automobiles can be used for most of the year, and there are fully 20 autos inside of this district most of them being Ford cars.