

ABSTRACT

Today the world especially Indonesia, in desperate need of petroleum as an energy source. Oil can be used in a variety of human activities as well as a vehicle fuel, groceries, etc. Therefore the demand of petroleum must be considered. In Indonesia, especially in the area and surrounding Cepu is one of the oil producing areas. Where in that area so many the old wells which is a petroleum mining. Savings and maximum production is the solution to this problem. Measurements manually on the oil tanks in old wells often lead to petroleum oil, which has been obtained evaporated.

It takes a tool and system which will measure the height of the oil that has been obtained on the tank automatically. By using the ultrasonic sensor height of oil in the tank can be measured automatically, and the results obtained will be read by the microcontroller. With the AT Command information is sent via SMS (Short Message Service) to a mobile phone number that has been determined that the oil contains high information contained in the tank.

With the existence of this tool is then no longer be measured manually. Measurement results will be considered by the correction of errors that have been analyzed . Then to the owner of the well or shares directly to find out how much oil has been obtained and can easily record the amount of oil that has been acquired by a certain time period.

Key words: ultrasonic sensor, microcontroller, AT Command, SMS