

**REAL TIME REMOTE FIELD MONITORING OF PLUNGER LIFT WELLS
TO REDUCE PRODUCTION DOWN TIME AND INCREASE NATURAL GAS PRODUCTION**

Lead Organization: Tubel Technologies, Inc
Key Contact: Paulo Tubel
(281) 364-6030, paul.tubel@tubeltechnologies.com
SWC Co-funding: \$ 97,900

Optimization of the processes required to produce hydrocarbons constitutes an on going strategic concern and a major goal in the oil and gas industry. The goal of this project is to develop a low cost surface system to achieve the following: monitor the plunger lift process in wells, transmit well production streaming audio signals to remote locations, monitor in real time the performance of the entire field and determine if and when the wells stop producing. The purpose of monitoring the plunger lift process is to optimize the production and to minimize the amount of down time and lost production from wells. This new system will acquire the information generated by the plunger as it travels in and out of the wellbore and monitors the fluids and gas being lifted by the plunger. The information will be transmitted to a central control area where the operator can listen in real time to each well performance to determine if the well is producing. A person can be dispatched to the well site for evaluation if the well is not producing. A computer system will also be developed to automatically listen and inform the operator if a well is not producing properly. This project will research, develop and test a low cost, high reliability, real time system to monitor the plunger lift well production process and provide the operator with production information to determine if the well is producing. This system will help reduce well down time, increase natural gas production lifted using plunger systems and reduced OPEX.