

MEMORANDUM

DATE: 7/22/2004

FROM: Lori Graves

TO: Permit File 63-11336

RE: Decreased Well Capacity

In 1997, I called Carolyn Martel to schedule a field exam. She stated that the wells supplemented Wilder Irrigation District water and that they were not currently in use. She also stated that the ground water only supplemented 80 of the 160 acres listed on her permit. She was trying to get electric power extended to the wells rather than having to use a diesel. The wells were drilled in 1973, however well logs were not found on record. According to Carolyn, the wells produced much water when drilled. As a result, the system was developed with two wells, one acting as a back-up well, and one pump that is operated by a tractor motor. Scott King evaluated the pump and determined that it was properly designed for a variable speed motor (tractor) and had the capacity to pump 700 gpm. Carolyn is worried that the wells have gradually decreased in capacity since they were drilled. Shelly Keen stated 7/21/2004 that we could license both wells, however they will be limited to the capacity of whichever well the pump is located in at the time of the exam. Because the system was developed with one pump, Carolyn cannot add a 2nd pump. However, Shelly did say that we would work with Carolyn if we found less than expected capacity at the time of the exam. If ground water was sufficient when the system was developed, Carolyn may need to clean the well screens or deepen the well(s) to restore ground water production.

System
Capacity
1,560 gpm