

MEMORANDUM

Date: June 9, 2009
To: Water Right File 25-7583 Township Park Estates
From: Michele Edl
Re: search for capacity and rate info

I conferred with Dennis Dun Eastern Region about the system capacity for this license. He has had several conversations with Rob Harris (representative for the homeowners) about this right and Dennis recommended that I base my rate determination on a pair of mixed pumps: one 7.5 hp and one 15 hp pump. One of the bid options provided in the reinstatement documents, listed a mixed pumping plant with those two power choices. I have not gotten confirmation that any of the bid pumps were actually installed. Without it, I will need to use Dept theoretical equation for flow.

According to Rob Harris, paraphrased by Dennis, the pumps have been replaced several times since the initial installation. The wells are apparently pulling a lot of sand.

Dennis Dunn also recommended that I refer to page 415 of Groundwater and Wells by Fletcher G Driscoll. Based on that reference, it appears that I can expect no more than 100 gpm and 180 gpm from the two wells. Casing inside diameter could be a system limitation in this situation. The total rate 280 gpm is ~ 0.62 cfs. If 0.62 is the combined rate, Dennis recommended the license to be issued for 0.16 cfs domestic and 0.46 cfs irrigation.

I asked if he had been able to locate any sanitary surveys on this public water system. He told me he had seen a 2006 health district field inspection report. And he mentioned that inspection photos showed an irrigation tap upstream and independent of the storage tanks.

Although the 2006 Public Health inspection is outside of the development period for this permit I am interested independent, corroborating documentation. A contemporary site visit by IDWR personnel is unlikely. Failing to collect the pieces I need for licensing using Eastern Region resources, I have submitted a request directly to the Idaho Falls Regional Office of Public Health District 7.

Edl, Michele

From: Dunn, Dennis
Sent: Tuesday, June 09, 2009 8:24 AM
To: Edl, Michele
Subject: RE: pumps for 25-7583 Township Park Estates

one 15 hp pump and one 7 hp pump.

From: Edl, Michele
Sent: Monday, June 08, 2009 5:55 PM
To: Dunn, Dennis
Subject: pumps for 25-7583 Township Park Estates

Dennis,

In the scanned images, are faint copies of bids from Andrew Well Drilling and Denning Well Drilling with options for the well-pump combinations at Township Park Estates. Unfortunately, none of the combinations matches the as-built drawings and what Rob Harris has found was in place. I would like to see if you and I together, can close in on the real system.

According to Rob Harris' research, two different pump sizes were originally installed in the two wells: a 7.5 hp and a 15 hp. The 7.5 hp pump was replaced a few years ago. Now they have two - 15 hp pumps. The Benton drawings show 2 wells but mention only a single 15 hp pump (no make or model).

--Denning Well Drilling bid document mentions 7.5hp and 20 hp pumps but doesn't give model details.

--Andrew Well Drilling Service bid OPTION "A" ONE WELL -- ONE PUMP shows:

15 hp Gould Pump
Model #G0150H15
230 volt 3 phase
To deliver:
180 GPM @280
Total Dynamic
Head Feet

--Andrew Well Drilling Service bid OPTION "B" TWO WELLS -- TWO PUMPS shows:

7.5 hp Gould Pump
Model #70J07
230 volt 3 phase
To deliver:
74 GPM @280
Total Dynamic
Head Feet

And

10 hp Gould Pump
Model #100H10
230 volt 3 phase
To deliver:
110 GPM @280
Total Dynamic
Head Feet

This is a democracy and you are old enough to vote. Which do you choose?
Michele