



Hydrogeologic Consulting & Water Resource Management
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MPWMD

Item 16
Submitted by
MPWMD staff
at 11/21/11
Board Meeting

November 18, 2011

Monterey Peninsula Water Management District
Attn: Board of Supervisors

RE: Flores/Pisenti Wells #1, 2 @ 564 and 577 Monhollan Road, Monterey, Ca, APN: 103-071-019 & -002

Bierman Hydrogeologic (BHgl) has prepared this letter in response to the upcoming Monterey Peninsula Water Management District (MPWMD) board meeting regarding the Flores/Pisenti/Beech Wells/Properties scheduled for November 21, 2011.

Background:

Between October 15 and October 21, 2010, simultaneous constant rate well pumping & aquifer recovery tests were conducted on Flores/Pisenti Wells #1, 2¹. In summary;

- Flores Well #1 pre-recovery pumping rate was 8.06 gpm with only 61.11 feet of drawdown over 72hrs giving a remaining saturated thickness of 306.91 feet remaining above the pump.
- Pisenti Well #2 pre-recovery pumping rate was 6.25 gpm with only 8.71 feet of drawdown over 72hrs giving a remaining saturated thickness of 407.07 feet remaining above the pump.

On October 26, 2011 the Monterey County Environmental Health Bureau (MCEHB) approved the source capacity credit for both the Flores/Pisenti Wells. Flores Well #1 was approved with a Source Capacity Credit of 7.6 gpm (sufficient for a two-connection system) whereas Pisenti Well #2 was approved with a Source Capacity Credit of 3 gpm (sufficient for a single connection system). The MCEHB Letters are attached to this document for reference.

It should be noted that MPWMD Post-Recovery Calculated Well Yields were calculated to be 32.89 gpm for Flores Well #1 and 24.52 gpm for Pisenti Well #2², again, more than adequate for intended use for each proposed project.

In addition, as per MPWMD guidelines³, conservative values (i.e; worst case scenario 'values' for Flores/Pisenti Wells) were used in the technical calculations to assess impacts to offsite neighboring wells if they were not monitored, using 'dry' season demand rates for the proposed project. The technical calculations indicate there is less than significant impacts to ALL offsite neighboring wells including the Beech Well at the cyclic pumping rates for each well for the proposed project⁴. It should also be noted, that Pueblo Water Resources (3rd party Hydrogeologist and consultant for MPWMD) generally concurred with BHgl technical calculations and also indicated that there is less than significant impacts to neighboring wells based on each projects water demand.

Therefore, independent of whether or not the Flores/Pisenti and Beech wells are hydrogeologically connected⁵, the conclusion is that the technical calculations for project water demand at build-out indicate there are less than significant impacts to ALL offsite wells, including the Beech Well. In summary, both the Flores and Pisenti Water Distribution System (WDS) Applications should be deemed "Complete" as originally deemed, and be issued WDS permits for their respective projects.

Respectfully submitted,

Aaron Bierman
Consulting Hydrogeologist #819

¹ See respective Bierman Hydrogeologic Reports, dated March 22, and 23, 2011 for details.
² As reposted in Bierman Hydrogeologic Reports, dated March 22, and 23, 2011 on respective wells.
³ Monterey Peninsula Water Management District, *Procedures for Preparation of Well Source and Pumping Impact Assessments*, dated September, 14 2005; Revised May 2006.
⁴ As reposted in Bierman Hydrogeologic Reports, dated March 22, and 23, 2011 on respective wells.
⁵ A good-faith effort was made by Bierman/Flores/Pisenti to conduct another pumping test while monitoring the Beech Well, however due to the language in the "Agreement" e-mail dated 10/14/11 that Mrs Erickson (Attorney for Beech) provided, the agreement was never signed and no follow-up pumping test was conducted.

MONTEREY COUNTY



DEPARTMENT OF HEALTH Ray Bullick, Director

ANIMAL SERVICES
BEHAVIORAL HEALTH
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EMERGENCY MEDICAL SERVICES
ENVIRONMENTAL HEALTH

PUBLIC HEALTH
PUBLIC ADMINISTRATOR/PUBLIC GUARDIAN

October 26, 2011

Paul Flores
#5 Zaragoza View,
Monterey, CA 93940

Re: Source Capacity Test

Dear Mr. Flores,

On October 12, 2010, a 72hr source capacity test was conducted by Aaron Bierman for well permit 98-318 at 577 Monhollan Rd for Well #1. The "72-hour Constant Rate Well Pumping and Aquifer Recovery Test and Pumping Impact Assessment for Flores/Pisenti Well #1" report was received on March 29, 2011 and reviewed by the Monterey County Health Department, Environmental Health Bureau (EHB).

In accordance with the California Waterworks Standards, Section 64554, (C), the well shall demonstrate that, within a length of time not exceeding the duration of the pumping time of the well capacity test, the water level shall recover to within two feet of the static water level measured at the beginning of the well capacity test or to a minimum of ninety-five percent of the total drawdown measured during the test, whichever is more stringent.

Your source capacity test did not fully recover in accordance with the above referenced California Waterworks Standards. Therefore, based upon the data collected during the source capacity test, a reduced credit of 7.6 gallons per minute has been given. This quantity meets the required capacity for a single family dwelling, as requested in your application. This also meets the requirements for a two connection water system that was discussed in the report submitted by Aaron Bierman. If you wish to pursue a two connection water system, the application can be downloaded from our website at: http://www.mtyhd.org/index.php?option=com_content&view=article&id=480%3Alocalwater&catid=169%3Alocal-small-water-systems&Itemid=589&lang=en

If you have any questions, please feel free to contact me at (831) 755-4552.

Sincerely,

Cheryl Sandoval, REHS
Supervising Environmental Health Specialist

Cc: Bierman Hydrogeologic

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October 26, 2011

Paul Flores
#5 Zaragoza View,
Monterey, CA 93940

Re: Source Capacity Test

Dear Mr. Flores,


On October 12, 2010, a 72hr source capacity test was conducted by Aaron Bierman for well permit 10-11806 at 577 Monhollan Rd for Well #2. The "72-hour Constant Rate Well Pumping and Aquifer Recovery Test and Pumping Impact Assessment for Flores/Pisenti Well #2" report was received on March 29, 2011 and reviewed by the Monterey County Health Department, Environmental Health Bureau (EHB).

In accordance with the California Waterworks Standards, Section 64554, (C), the well shall demonstrate that, within a length of time not exceeding the duration of the pumping time of the well capacity test, the water level shall recover to within two feet of the static water level measured at the beginning of the well capacity test or to a minimum of ninety-five percent of the total drawdown measured during the test, whichever is more stringent.

Your source capacity test did not fully recover in accordance with the above referenced California Waterworks Standards. Therefore, based upon the data collected during the source capacity test, a reduced credit of 3 gallons per minute has been given. This quantity meets the required capacity for a single family dwelling and guest house, as requested in your application.

If you have any questions, please feel free to contact me at (831) 755-4552.

Sincerely,


Cheryl Sandoval, REHS
Environmental Health Specialist