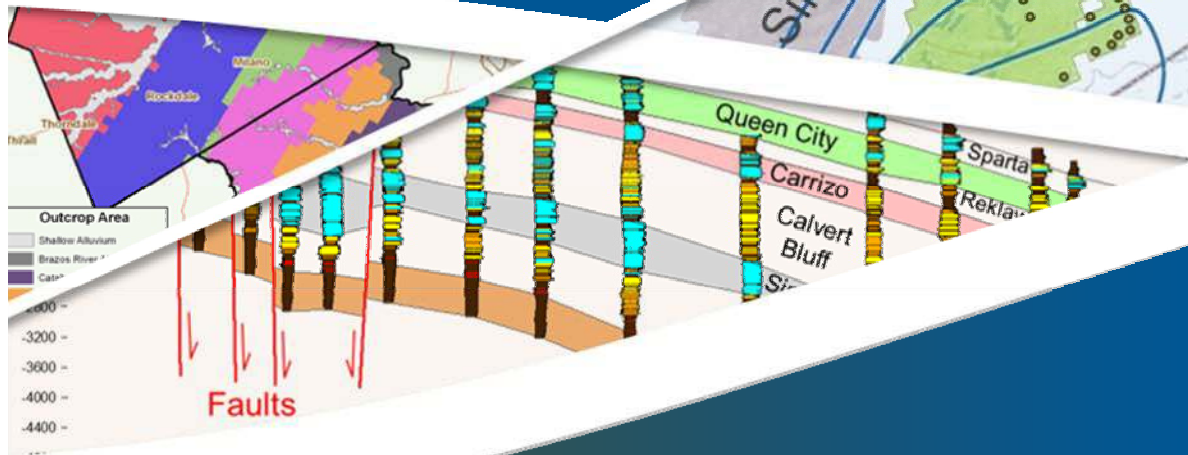


Public Hearing: Review of Vista Ridge Permit for Adjusted Well Locations

Presented To:



Presented By:
Steve Young
Jevon Harding



March 28, 2017

Topics

- Permit Request
 - Adjust six Carrizo well locations
 - Adjust five Simsboro well locations
- Technical Approach
- Summary of Findings
- Recommendations



3409 Executive Center Drive • Suite 226 • Austin Texas 78731 • ph (512)345-2379 • fax (512)338-9372

January 5, 2017

Gary Westbrook
 General Manager
 Post Oak Savannah GCD
 310 East Avenue C
 P.O. Box 92
 Milano, TX 76556

Re: Application Information – AVR Request to Modify Permitted Well Locations

Dear Gary,

Blue Water Vista Ridge, LLC, (BWVR) acting as permit administrator for Abengoa Vista Ridge, LLC, is submitting applications to modify 11 well sites included in Permit POS-D&O/A & M-0001c, which are to be constructed over the next two years. The requested modifications are summarized in the following table:

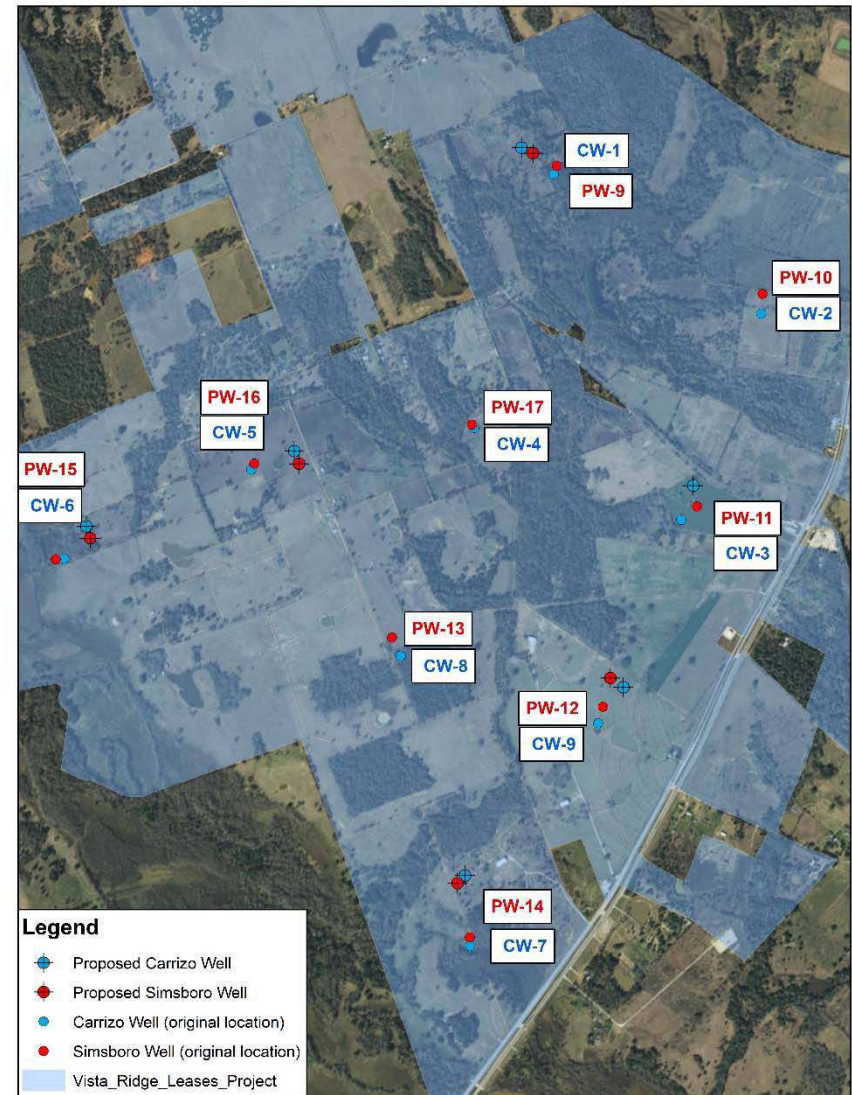
Well Site	Requested Change	Reason for Request
CW-1	Move 570 feet northwest	Topography at new site allows for proper drainage
CW-3	Move 500 feet north-northeast	Relocation to fence line of property
CW-5	Move 640 feet west-southwest	Relocation to fence line and existing pad
CW-8	Move 530 feet northeast	Topography at new site allows for proper drainage
CW-7	Move 970 feet north	Topography at new site allows for proper drainage
CW-9	Move 600 feet north-northeast	Relocation to fence line of property
PW-9	Move 370 feet northwest	Topography at new site allows for proper drainage
PW-12	Move 400 feet north	Relocation to fence line of property
PW-14	Move 760 feet north-northwest	Topography at new site allows for proper drainage
PW-15	Move 550 feet east-northeast	Topography at new site allows for proper drainage
PW-16	Move 600 feet east	Relocation to fence line and existing pad

BWVR is providing the following documents in support of the applications for modifications of the 11 previously permitted well sites:

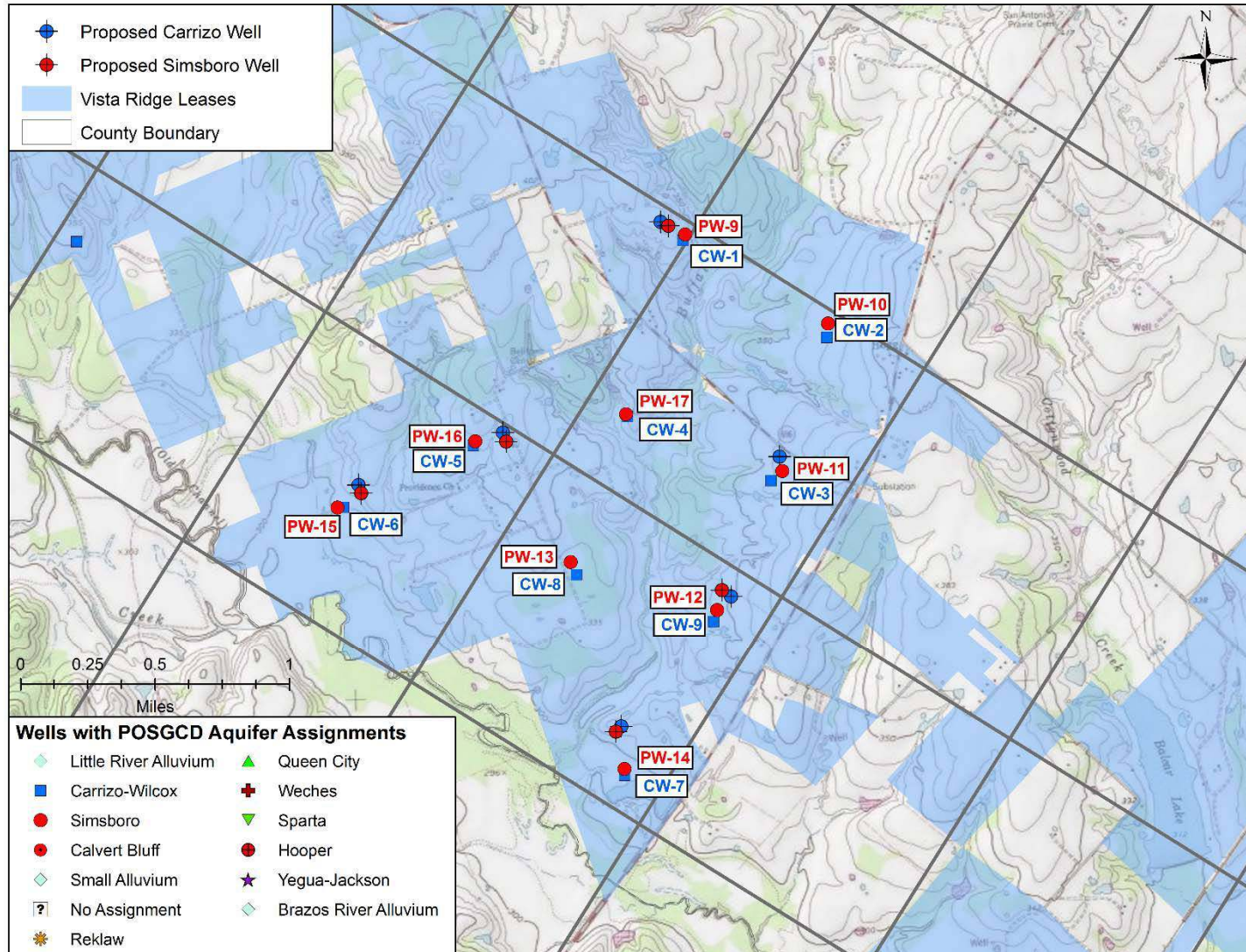
1. POSGCD permit application forms to drill or alter and operate non-exempt wells (11 sites)
2. A check for \$1,100 for the \$100 per well application fees for the 11 requested well site modifications
3. Lease memorandums confirming authorization to drill on the properties on which the wells are located
4. A general overview map showing the requested well site relocations

Technical Approach

- Plot all wells based on submitted coordinates
- Check POSGCD Spacing Requirements
 - Property spacing
 - Well spacing
- Check on Well Location in Groundwater Availability Model

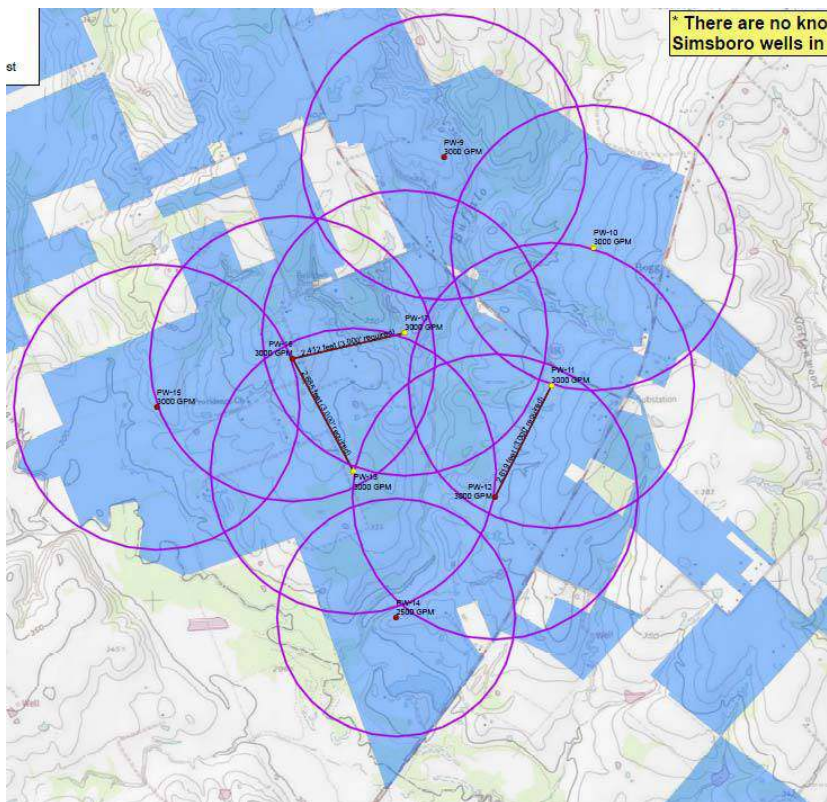


Demonstration that Old and New Well Locations Remain in the same 1-mile by 1-mile GAM Grid Block

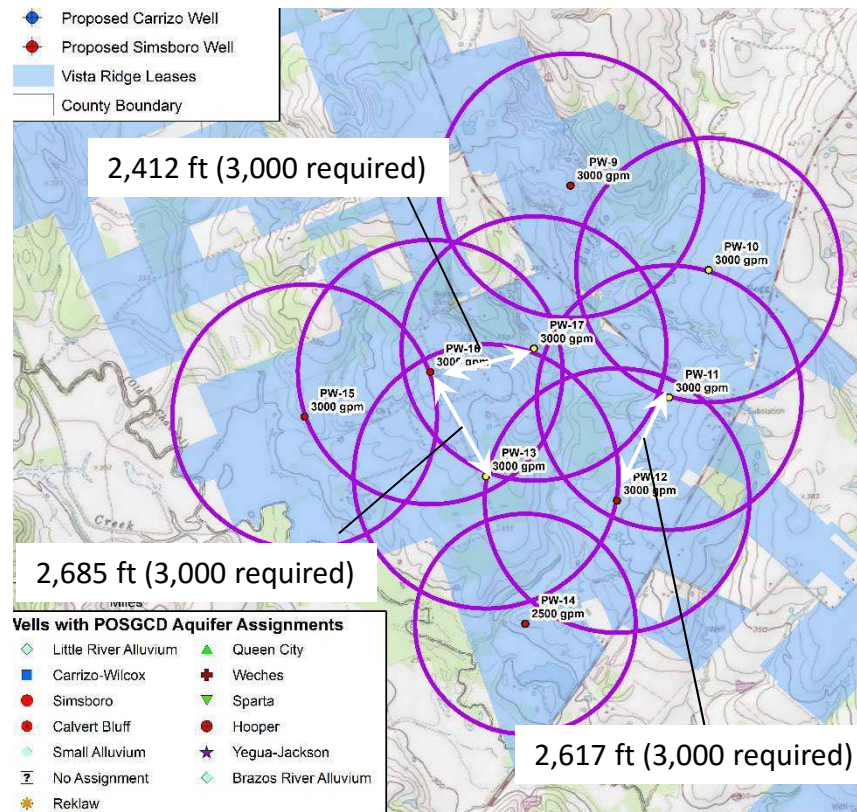


Example Check on Well Spacing: Simsboro

Harden Map – Simsboro Well buffer



INTERA Map – Simsboro Well buffer



Summary of Findings

- Confirmed that well spacing and property spacing are accurately presented in application with a minor exception:
 - Revised location of CW-3 is not plotted per submitted coordinates (minor adjustment required in figure)
- Adjusted well locations are in the same model grid cell as the old well locations
- Confirmed that six adjusted Carrizo well locations and five adjusted Simsboro well locations satisfy well and property spacing with three exceptions that occur within leased property
 - Spacing between PW-16 & PW-13 should be 3,000 ft but is 2,685 ft
 - Spacing between PW-16 & PW-17 should be 3,000 ft but is 2,412 ft
 - Spacing between PW-12 & PW-11 should be 3,000 ft but is 2,617 ft

Recommendations Regarding Permit

- Recommend that Board grant variance to well spacing requirements for three Simsboro wells and limit the variance to the life of the Vista Ridge Project. Granting the variance will not increase the risk of adverse impacts to operation of existing wells or to district achieving their DFCs.
- If above variance is granted , the application meets all POSGCD permit spacing requirements. Recommend that POSGCD approve the permit.