Groundwater Transfer Review Summary Form

Transfer/PA # T- _14539_

GW Reviewer _Joe Kemper_ Date Review Completed: _12/20/2024_

Summary of Same Source Review:

☐ The proposed change in point of appropriation is not within the same aquifer as per OAR 690-380-2110(2).

Summary of Water Level Decline Condition Review:

☐ Water levels at the original point(s) of appropriation have exceeded the allowed decline threshold defined by conditions in the originating water right.

Summary of Injury Review:

☐ The proposed transfer will result in another, existing water right not receiving previously available water to which it is legally entitled or result in significant interference with a surface water source as per 690-380-0100(3).

Summary of GW-SW Transfer Similarity Review:

☐ The proposed SW-GW transfer doesn't meet the definition of "similarly" as per OAR 690-380-2130.

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations.

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1271
(503) 986-0900
www.wrd.state.or.us

Ground Water Review Form:

- ☐ **Water Right Transfer**
- ☒ **Permit Amendment**
- ☐ **GR Modification**
- ☐ **Other**

Application: T-14539 Applicant Name: FNF NV Brasada LLC

Proposed Changes: ☒ POA ☒ APOA ☐ SW→GW ☐ RA
☐ USE ☐ POU ☐ OTHER

Reviewer(s): Joe Kemper Date of Review: 12/20/2024

Date Reviewed by GW Mgr. and Returned to WRSD: _____

The information provided in the application is insufficient to evaluate whether the proposed transfer may be approved because:

☐ The water well reports provided with the application do not correspond to the water rights affected by the transfer.

☐ The application does not include water well reports or a description of the well construction details sufficient to establish the ground water body developed or proposed to be developed.

☐ Other _____

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1. Basic description of the changes proposed in this transfer: Permit G-15855 authorizes 3.34 cfs up to 508 AF/yr of quasi-municipal use from 6 wells. This permit amendment proposes the change the location of three authorized POAs on G-15855. See well table below for details.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
   ☒ Yes ☐ No Comments: The changes in POA location will not result in accessing a different source. CROO 53105 has a recent water level measurement that is much shallower than the regional aquifer (~2700 ft amsl) but this may be a result of seasonal canal leakage or an unreliable measurement. Considerable supporting information would be required to conclude that this well accesses a different groundwater source.

3. a) Is the existing authorized POA subject to a water level decline condition?
   ☐ Yes ☒ No Comments: Permit G-15855 does not have decline conditions.

   b) If yes, for each POA identify the reference level, most recent spring-high water level, and whether an applicable permit decline condition has been exceeded: NA

4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
   ☐ Yes ☒ No Comments:_____

   b) If yes, estimate the portion of the right supplied by each of the sources and describe any limitations that will need to be placed on the proposed change (rate, duty, etc.): _____

a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another ground water right**?

☐ Yes ☒ No Comments: There is moderate domestic groundwater development to the west and northwest of the applicants wells. The closest wells are ~0.5 miles from applicant's Well 5 and 6. The changes to POA location are very minor and would likely move groundwater pumping away from these adjacent domestic wells. This would maintain or reduce any current well-to-well interference. There are other valid POAs under G-18151, but those are part of the same water supply system and thus are not considered for injury here. Generally speaking, the target aquifer is relatively transmissive, resulting in low magnitude well-to-well interference. There is some concern that the Deschutes formation here pinches out as it onlaps Powell Buttes to the east, which increases the likelihood that a groundwater well would fully penetrate the aquifer and thus be vulnerable to injury. However, there is little to no groundwater development in that direction adjacent to the applicant's wells.

b) If yes, would this proposed change, at its maximum allowed rate of use, likely result in another groundwater right not receiving the water to which it is legally entitled?

☐ Yes ☐ No If yes, explain: NA

5. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another surface water source**?

☐ Yes ☒ No Comments: The target aquifer is largely separated from nearby streams until they reach the confluence area of the Deschutes and Crooked Rivers ~25 miles to the NW. The change in POA location relative to the distance to those hydraulically connected streams is negligible.

b) If yes, at its maximum allowed rate of use, what is the expected change in degree of interference with any **surface water sources** resulting from the proposed change?

Stream: _____ ☐ Minimal ☐ Significant

Stream: _____ ☐ Minimal ☐ Significant

Provide context for minimal/significant impact: NA

6. For SW-GW transfers, will the proposed change in point of diversion affect the surface water source similarly (as per OAR 690-380-2130) to the authorized point of diversion specified in the water use subject to transfer?

☐ Yes ☐ No Comments: _____

7. What conditions or other changes in the application are necessary to address any potential issues identified above: _____

8. Any additional comments:_____

Well Summary

POA #	POA Name	POA Status	OWRD LOGID	TRS	Legal Location
1	Well 1	Valid	-	16S/14E-33 SW-NE	150' N, 150' E fr center 1/4 cor S 33
		Proposed	DESC 51956	16S/14E-33 NE-NW	1120' S, 1510' E fr NW cor S 33
2	Well 2	Valid	-	16S/14E-33 NE-NW	150' N, 150' E fr NW 1/6th cor S 33
		Proposed	DESC 53105	16S/14E-33 NE-NW	1070' S, 1425' E fr NW cor S 33
3	Well 3	Valid	-	16S/14E-33 NE-NW	660' S, 150' E fr n W 1/16th cor S 33
		Proposed	Not yet Drilled	16S/14E-33 NE-NW	1245' S, 1420' E fr NW cor S 33
4	Well 4	Valid	Not yet Drilled	16S/14E-33 NE-NW	150' N, 150' E fr NW 1/6th cor S 33
5	Well 5	Valid	Not yet Drilled	16S/14E-28 SE-NW	150' N, 950' E fr C-W 1/16 cor S 28
6	Well 6	Valid	Not yet Drilled	16S/14E-28 SE-NW	150' S, 150' E fr NW 1/16th cor S 28

References

Gannett, M.W. 1987. Groundwater Availability in the Powell Buttes Area, Central Oregon. Oregon Water Resources Department.

Gannett, M. W. and Lite, K. E., 2004, Simulation of Regional Ground-Water Flow in the Upper Deschutes Basin, Oregon, USGS Water Resources Investigation Report 2003-4195, 84 p., https://pubs.er.usgs.gov/publication/wri034195

Gannett, M. W. and Lite, K. E., 2013, Analysis of 1997-2008 Groundwater Level Changes in the Upper Deschutes Basin, Central Oregon, USGS Scientific Investigations Report 2013-5092, 34p., https://pubs.er.usgs.gov/publication/sir20135092

Gannett, M. W., Lite Jr, K. E., Morgan, D. S., and Collins, C. A., 2001, Ground-Water Hydrology of the Upper Deschutes Basin, Oregon, USGS Water-Resources Investigations Report 00-4162, 74 p., https://pubs.usgs.gov/wri/wri004162/pdf/WRIR004162.pdf

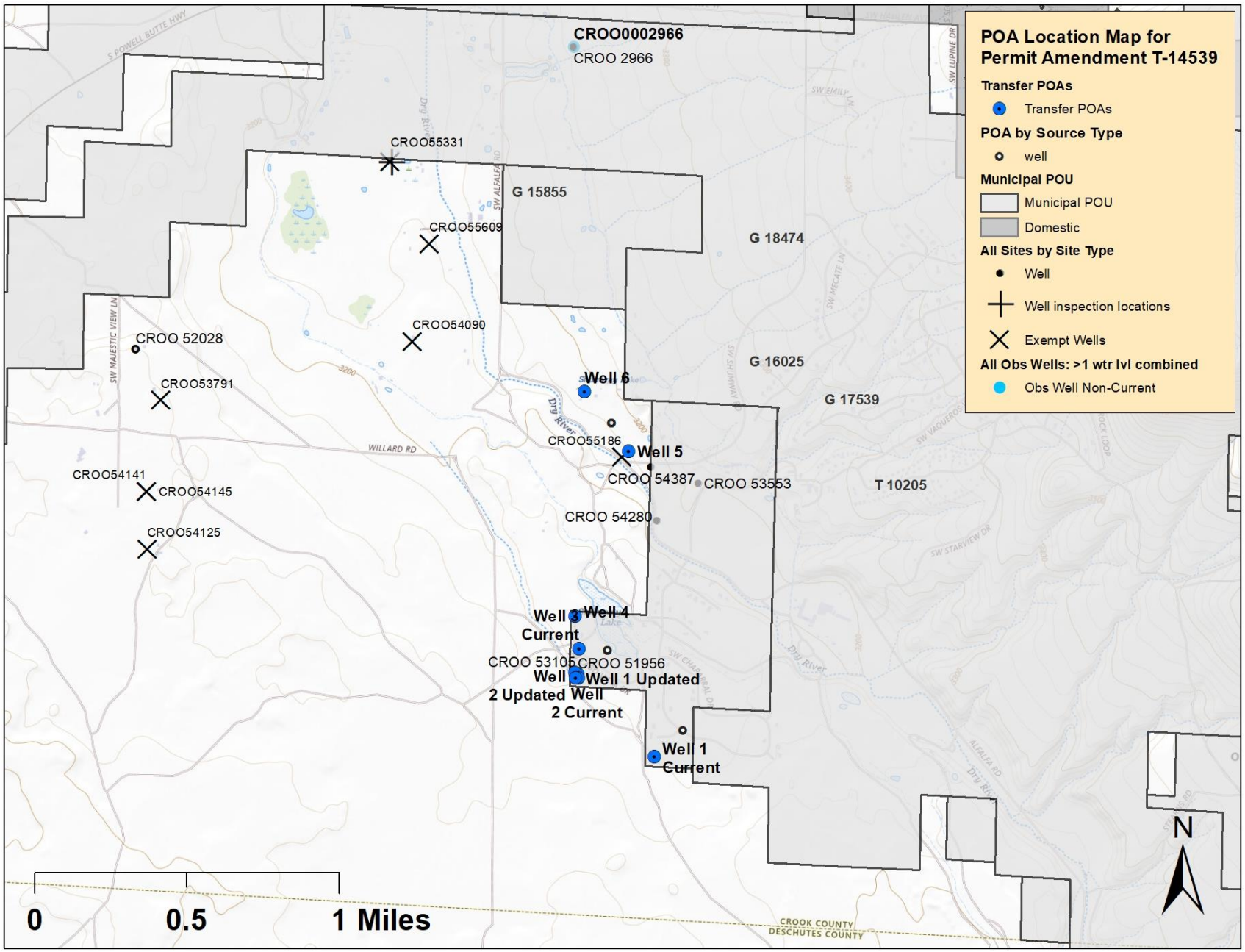
Groundwater Information System (GWIS). Oregon Water Resources Department. https://apps.wrd.state.or.us/apps/gw/gw_info/gw_info_report/gw_search.aspx Accessed 12/20/2024

Lite, K. E. and Gannett, M. W., 2002, Geologic Framework of the Regional Ground-Water Flow System in the Upper Deschutes Basin, Oregon. USGS Water-Resources Investigation Report 02-4015, 44 p., https://pubs.er.usgs.gov/publication/wri024015

McClaughry, J. D., et al. Geologic Map of the North Half of the Lower Crooked River Basin, Crook, Deschutes, Jefferson, and Wheeler Counties, Oregon, scale 1:63,360, 64" x 60". DOGAMI Bulletin 108

Sherrod, D. R., Taylor, E. M., Ferns, M. L., Scott, W. E., Conrey, R. M. and Smith, G. A., 2004, Geologic Map of the Bend 30-x-60-Minute Quadrangle, Central Oregon. U. S. Geological Survey Geologic Investigations Series Map I-2683. 49p., https://pubs.usgs.gov/imap/i2683/

Transfer Map



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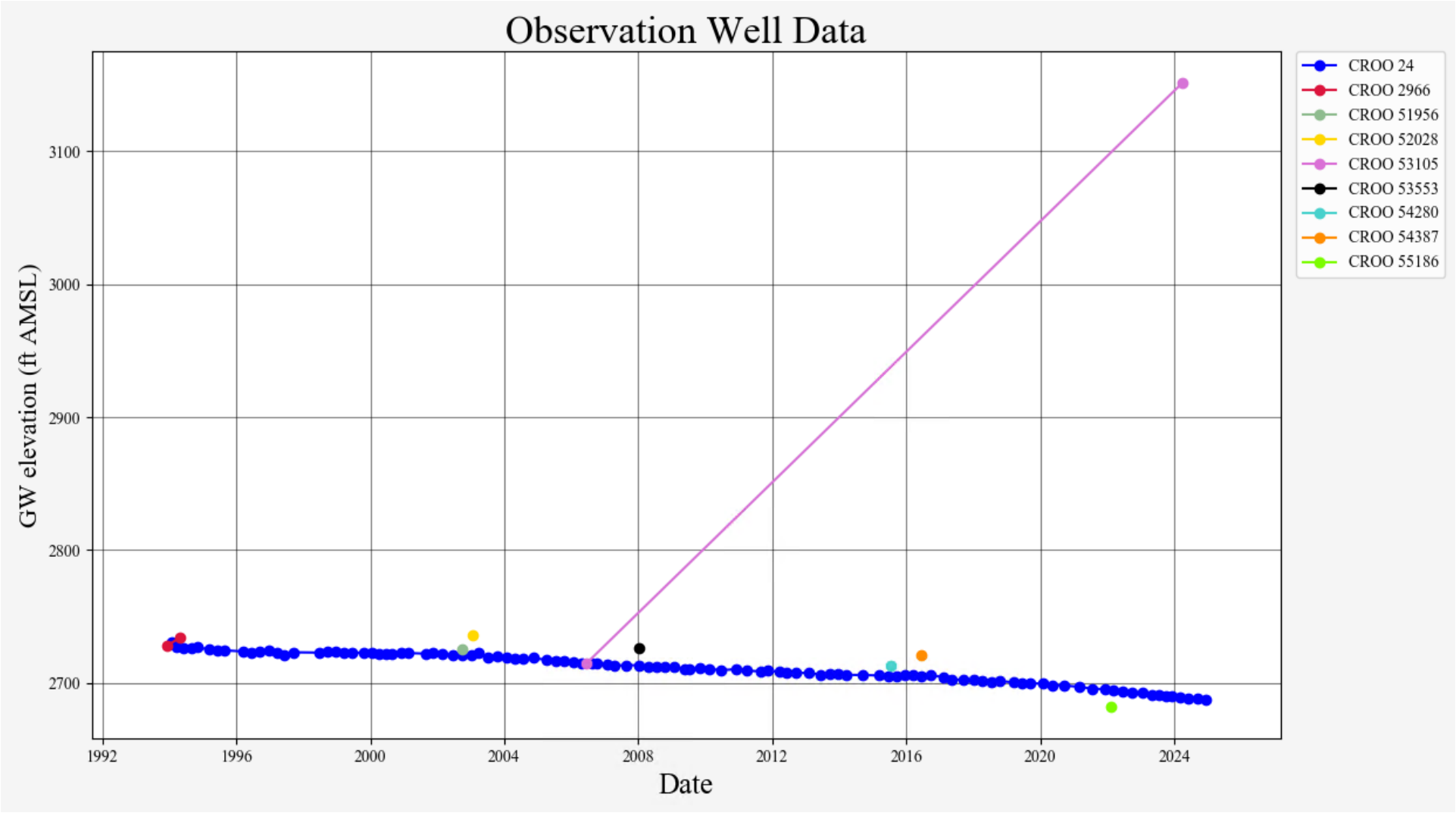
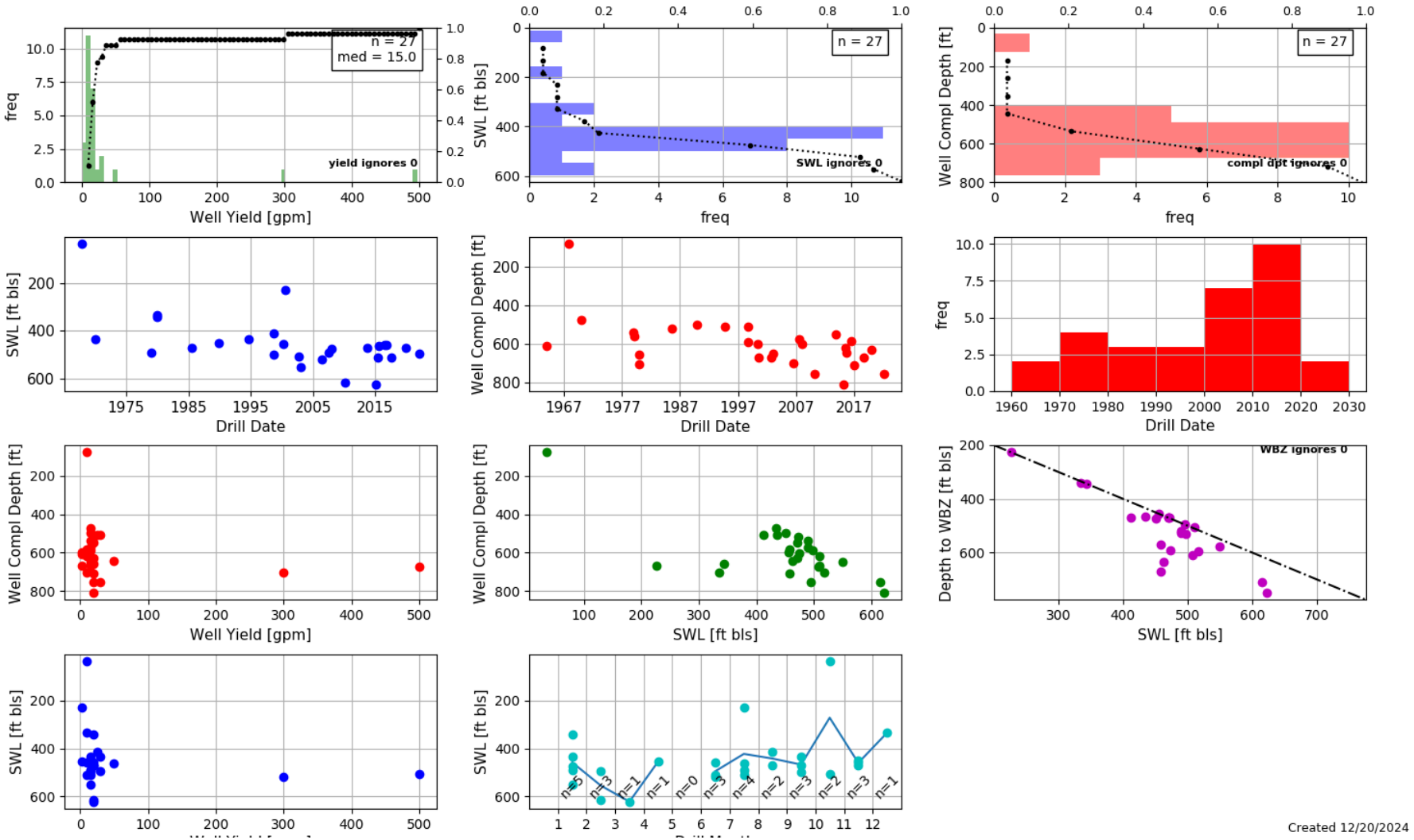
Water Levels in Adjacent Wells:



Summary Statistics for Well Reports filed in TRS 16S/14E sec 27-29, 32-34 & 17S/14E sec 3-5



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