

## ENGINEERING COMMITTEE MEETING AGENDA

July 19, 2023 – 4:30 P.M.  
Phelan Community Center  
4128 Warbler Road, Phelan, CA 92371  
& Via Conference Call (see below)

### ENGINEERING COMMITTEE MEETING – 4:30 P.M.

**Call to Order** – Pledge of Allegiance

#### Roll Call

#### 1) Approval of Agenda

2) **Public Comment** – Under this item, any member of the public wishing to directly address the Board on any item of interest that may or may not be within the subject matter jurisdiction of the Board, but not listed on the agenda, may do so at this time. However, the Board is prohibited by law from taking any action on any item not appearing on the agenda unless the action is otherwise authorized by the Brown Act. Any member of the public wishing to directly address the Board on any item listed on the agenda may do so when the item is being considered by the Board. *If you wish to address the Board, please do so by the method listed on the first page of this agenda.* Speakers are requested to be brief in their remarks. The Chair may limit each speaker to a comment period of five (5) minutes.

#### 3) Approval of Minutes

#### 4) Oeste Recharge Study Project

#### 5) Discussion Regarding Water System

- Pumps and Wells Services Agreement
- 10-Year Tank Rehabilitation & Maintenance Service
- Water Quality
- Service Line Replacement Program Update
- Other Repairs/Replacements/Updates/Maintenance

#### 6) Smithson Springs Update

#### 7) State Regulations Update

#### 8) Review of Current Projects

- New Well No. 15
- Well No. 17
- Tank 6A

#### 9) Staff Reports

#### 10) Review of Action Items

- a) Prior Meeting
- b) Current Meeting



#### Mission Statement:

*The Mission of the Phelan Piñon Hills Community Services District is to efficiently provide authorized services and maximize resources for the benefit of the community.*

#### Authorized Services:

- Water
- Parks & Recreation
- Street Lighting
- Solid Waste & Recycling

11) **Set Agenda for Next Meeting** – August 16, 2023

12) **Adjournment**

*Pursuant to Government Code Section 54954.2(a), any request for a disability-related modification or accommodation, including auxiliary aids or services, that is sought in order to participate in the above-agendized public meeting should be directed to the District's General Manager at (760) 868-1212 at least 24 hours prior to said meeting.*

Agenda materials can be viewed online at [www.pphcsd.org](http://www.pphcsd.org)

**Remote Viewing:**

To watch the livestream (view only – nonparticipating), visit our YouTube channel:

[PPHCSD YouTube Channel Link](#)

**Remote Participation:**

To provide public comment, or otherwise participate remotely, select the meeting you wish to attend on the District's website and then click the "Join Remote Meeting" option.

<https://www.pphcsd.org/meetings>

*Please be advised that remote participation and livestreaming options are provided as a courtesy to the public and technical issues could occur, resulting in delays or the inability to participate remotely or livestream. It is recommended that you attend in person to ensure you are able to participate.*

**Written Comments:**

You may also email your public comment to the Board Secretary at [ksevy@pphcsd.org](mailto:ksevy@pphcsd.org) by the meeting start time listed on this agenda. Your comment will be added to the record by the Board Secretary.

*Please check the District website for updates on this meeting. We encourage you to sign up for our email notifications by emailing [ksevy@pphcsd.org](mailto:ksevy@pphcsd.org) or by visiting our website and completing the signup form at [www.pphcsd.org](http://www.pphcsd.org) under the "Agendas and Minutes" tab.*



## **SPECIAL ENGINEERING COMMITTEE MEETING MINUTES**

June 21, 2023 – 4:30 p.m.  
Phelan Community Center  
4128 Warbler Road, Phelan, CA 92371  
& Remotely Via Zoom or Conference Call

**Board Members Present:** Mark Roberts, Director (Chair)  
Rebecca Kujawa, President

**Staff Present:** George Cardenas, Engineering Manager  
Kim Sevy, HR & Solid Waste Manager/District Clerk  
Sean Wright, Water Operations Manager  
Chris Cummings, Water Operations Assistant Manager  
Tony De La Rosa, Engineering Technician  
Jennifer Oakes, Executive Management Analyst

### **Call to Order**

Director Roberts called the meeting to order at 4:31 p.m.

### **Roll Call**

All Committee Members were present at Roll Call.

1) **Approval of Agenda**

Vice President Roberts moved to approve the Agenda. President Kujawa seconded the motion. Motion passed unanimously.

2) **Public Comment** – None

3) **Approval of Minutes**

President Kujawa moved to approve the Minutes. Vice President Roberts seconded the motion. Motion passed unanimously.

4) **Oeste Recharge Study Project**

Mr. Wright provided an update.

5) **Discussion Regarding Water System**

- **Pumps and Wells Services Agreement**
- **10-Year Tank Rehabilitation & Maintenance Service**
- **Water Quality**
- **Service Line Replacement Program**
- **Other Repairs/Replacements/Updates/Maintenance**

Mr. Wright reported on system repairs, tank maintenance, completion of the pipeline project, water meter replacement program, dead-end flushing, the fill station, and water levels. A written report was provided in the agenda packet.

- 6) **Smithson Springs Update**  
Mr. Cardenas reported the de-sedimentation pond is weedy. Water flow is low. It is not clear why the flow is low.
- 7) **State Regulations Update**  
Establishment of a Chromium-6 MCL by the state is estimated to take place in 8-12 months. An update on conservation is going to the Board at the second meeting in June.
- 8) **Review of Current Projects**
  - **New Well No. 15**
  - **Well No. 17**
  - **Tank 6A**Mr. Wright and Mr. Cardenas provided updates on the current projects.
- 9) **Review of Capital Projects**  
No discussion.
- 10) **Staff Reports**  
Nothing new to report; a written report is in the agenda packet.
- 11) **Review of Action Items**
  - a) **Prior Meeting**
    - None
  - b) **Current Meeting**
    - Hydrographs
    - Presentation on Chromium-6 to Board in October
- 12) **Set Agenda for Next Meeting** – July 19, 2023
  - Remove Item 9
  - Add Tank 6A to Item 8
- 13) **Adjournment**  
With no further business before the Committee, the meeting adjourned at 4:58 p.m.

Agenda materials can be viewed online at [www.pphcsd.org](http://www.pphcsd.org)

**Phelan Pinon Hills Community Services District**  
**Engineering Manager's Report**  
**July 12, 2023**

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***Alternative Energy - 1.16 MW Solar Photovoltaic***

The district has registered its solar generation, Renewable Energy Credits (REC's), with the U.S. Department of Energy, Energy Information Administration (EIA) on March 2, 2023. The data report was manually provided by TotalEnergies.

2022 registered 2,692.88 MWh (2,692,880 kWh)

2021 registered 2,639 MWh (2,638,614 kWh)

2020 registered 2,658 MWh (2,657,613 kWh)

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***Geographic Information System (GIS)***

The District is entertaining other options for GIS mobile. It has implemented a pilot program with Nobel, Geoviewer, as an alternative to Sedaru. This will begin following the meter change-out program. Pilot program will involve two (2) field staff over a 4-week period. Tyler demonstrated an upgrade version of GIS mobile application. The SCADA/Hydraulic real-time modeling and 811 will not be supported in the Tyler application.

Staff continues to find ways to become more independent using the tools available through its license agreement with ESRI. A new higher resolution aerial imagery is now available in the Districts GIS asset application. Updated aerial imagery for reservoir / well sites continue to be collected via drone. Updated interior photos, in some cases lidar, are collected for all its booster stations.

Staff have worked closely with CR&R, solid waste, to integrate their service accounts to the District's GIS portal. CR&R data was received and integrated into a GIS environment for validation. Customer service staff will review, compare, and provide comments on the data related to the district's customer service data.

Engineering / GIS staff is scheduled to provide a presentation at the ESRI 2023 UC conference on Thursday, July 13, 2023, in San Diego. The presentation is focused on GIS for small districts on a small budget. This will showcase the district's accomplishments in GIS, mobile, data management and analysis using custom applications and forms.

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***Pressure Zone 6 Improvements***

The WMP proposes increasing capacity at tank site 6A with an additional 2.2 MG capacity tank adding additional storage from its existing 0.42 MG tank. Pending federal appropriations, the Capital Improvement Project (CIP) table identifies 1.5 MG tank and moving the project up to the 2023-2024 budget year. Recently, the District acquired 1.5 acres adjacent to the existing 6A tank for the proposed 1.5MG tank. In June of 2023, the Board approved the Scope of Work with Dodson and Associates for CEQA on the 1.5 MG reservoir. Completion of the CEQA study is 6-9 months.

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***Civic Center / Community Center and Future Phelan Park Expansion  
(\* status change)***

Status for phase 1 – (APN 3066-261-10) Civic Center Project

1. Preliminary COA (Conditions of Approval) Received-PRAA-2021-00040 – Warbler Road Improvement moved to Phase 2
2. Construction Documents for Phase 1 - 14,034 SF Civic Center Building Resubmitted January 27,2023 for removal of posts to replace with Beams, per District Request. (NEWNR-2021-00230)
3. Sheep Creek Street Improvement Plans - Approved (SIP-2021-00031)
4. \*WQMP - submitted for plan check (WQMP-2021-00153)  
Pending County Senior Planner approval
5. Preliminary Drainage – Approved (DRNSTY-2021-0005)
6. \*Grading Plan - submitted for plan check (GRAD-2021-00235)  
Pending County Senior Planner approval.
7. Landscape Plans – Review since Nov. 19, 2021 – (PLP-2021-00018)
8. \*Edison service upgrade – Formal application Edison submittal on January 18, 2023. New Edison planner assigned. Meeting held Tuesday (5/2)
9. Joshua Tree Incidental Intake Permit (ITP) – (3/29/2023) notified by State to complete the mitigation report the CEQA is pending submittal (for phase 2 and phase 3) Lilburn completed draft CEQA for the Phelan Park Expansion. The ITP report will not impact the Civic Center Project. San Bernardino County will oversee mitigation. Grading plan designed to avoid existing Joshua Trees.
10. Vector Clearance – Approved
11. Filed Preliminary Acoustical Info application with County, Acoustical Study is not required.
12. Electrical Light Standard Plans – plan check submittal
13. \*Percolation Test Updated report – Merrell Johnson – Additional testing complete, addressed in WQMP
14. Waste Management Plan (part 1) – Approved (WMP-2022-00646)

Phase 2 – Phelan Community Park [event plaza, splash pad, multi-use field (soccer), restrooms, concession, playground, native garden, community garden, and tennis court]

Phase 3 – Phelan Community Park [equestrian, multi-use (baseball), skate park, pump track]

### Status for Phase 2 and Phase 3

1. Formal application, with studies, submitted to County Planning with deposit. (PROJ-2022-00184)
2. Traffic Study – Approved (TRSTY-2021-00016)
3. Percolation Study – Approved (SR0112960)
4. Geotechnical Report – conditionally approved (GTR-2022-00128)
5. Biological Assessment – complete
6. Joshua Tree Incidental Intake Permit (ITP) - Received notice from State (3/29/2023) review completion pending CEQA. CEQA completed (5/3). County is taking the lead in the study. AB52 Tribes noticing has been issued. Public noticing to follow.
7. Cultural and Paleo Report – complete
8. Infiltration Report – complete
9. Hydrology Study – complete
10. Preliminary Grading and Street Improvements (Warbler Road) – Pending County conditions
11. Noise Study – completion April 14th
12. \* CEQA IS/MND – Lilburn Corporation –Complete (5/2). San Bernardino County to take lead on the environmental.

The Access and Slope easements from parcels APN 3066-251-05 and -06 (Van Dam properties) The Access Easements for both parcels are required to abandon Sahara Road. All required submittals for abandonment of Sahara Road have been addressed.

Rider Levett Bucknall (RLB) has prepared the Request for Proposal (RFP) for the Civic Center Project. Pending Civic Center County approval, the RFP will be issued to the (4) recommended contractors selection during the RPQ process in late May 2023. Item will be brought to the Board for authorization with the approval to issue the RFP in early August.

**Water Mainline Extension Projects**

**(\* status change)**

***Pinon Road - to serve APN 3067-111-21 (nothing new to report)***

Proposed 353 Linear Feet of 8-inch PVC water pipeline, located on Pinon Road west from Ponderosa Road. Plans prepared by TRLS Engineering for Joel Jacoby. Second plan check completed. Pending pre-construction meeting.

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***Joshua St. - to serve APN 3038-131-08 (nothing new to report)***

Proposed 665 Linear Feet of 8-inch PVC water pipeline, located on Joshua Street east of Caughlin Road. Owner: Donovan Homes. Plans prepared by TRLS Engineering. Second plan check completed on April 27, 2021. Pending County Fire Department approval.

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***\* Coyote Road - to serve APN 3068-621-06 (nothing new to report)***

Proposed 320 linear feet of 8-inch PVC water pipeline, from Yucatan Road east 320. Plans prepared by Merrell-Johnson Companies. Construction was completed in late June. Contractor: Brown Backhoe. Pending static pressure testing pipeline will be active for service.

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***Schlitz Road - to serve APN 3101-571-02 (nothing new to report)***

Proposed 320 Linear Feet of 8-inch PVC water pipeline, located on Schlitz Road from Palmdale Road south 320 feet. Owner: So. Cal Services. Plans were prepared by TRLS Engineering. Second plan check complete. Pending County Fire Department approval.

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***Salerno Road - to serve APN 3101-431-08 (nothing new to report)***

Proposed 950 Linear Feet of 8-inch PVC water pipeline, located on Salerno Road from Bambi Court west to 350 west of Johnson Road. Plans prepared by Merrell Johnson Companies Owner: Perez / Valdillez. 1<sup>st</sup> plan check completed March 30, 2021

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***Acanthus Street - to serve APN 3066-681-13 (nothing new to report)***

Proposed 300 Linear Feet of 8-inch PVC water pipeline, located on Acanthus Street south from McAllister Road for Arturo Mata. Plans were prepared by Ludwig Engineering and approved in July of 2018. 2<sup>nd</sup> plan check completed April 14, 2021

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***Sequoia Road - to serve APN 3069-331-10 (nothing new to report)***

Proposed 340 Linear Feet of 8-inch PVC water pipeline, located on Sequoia Road east of Johnson Road. Owner: ZAB LLC, Luis Benites. Plans were prepared by Capstone Engineering Inc. Plans approved. Pending pre-construction meeting.

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**\* Smoke Tree Road - to serve APN 3070-631-03 (nothing new to report)**

Proposed 740 Linear Feet of 8-inch PVC water pipeline, located on Smoke Tree Road east of Beaver Road. Construction is progress. Anticipate completion the week of July 10<sup>th</sup>.

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**Beekley Road - to serve APN 3100-551-13 (nothing new to report)**

Proposed 300 Linear Feet of 8-inch PVC water pipeline, located on Beekley Road north from Begonia Road. Plans prepared by TRLS Engineering. Final plan check complete on June 6, 2018. Pending County Fire Department approval.

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**La Mirada Road - to serve APN 3098-471-18 (nothing new to report)**

Proposed 375 Linear Feet of 8-inch PVC water pipeline, located on LA Miranda Road beginning north from Cayucos Drive. Plans prepared by ServiTop Engineering. Received for 1<sup>st</sup> plan check on February 24<sup>th</sup>.

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**San Bernardino County Public Works Projects**

**Phelan Road Widening Project**

Phase 1

Work to include mill/overlay, leveling course, isolated areas of full depth reconstruction and the installation of a traffic signal at Clovis Road. Improvements from State Highway 138 to Los Banos Road. Work is tentatively scheduled for July 2023.

Phase 2

To include road widening, from 2 to 5 lanes, drainage improvements, and the realignment of intersection Highway 138 and Phelan Road.

The tentative schedule is as follows:

- Project Approval/Environmental Document: Spring 2024
- Final Plans & Right of Ways Acquisitions: Fall 2025
- Construction: Spring 2026



## Water Operations Manager's Report June 2023

### Introduction

The Phelan Piñon Hills Community Services District (District) maintains a large water distribution system that includes over three hundred & forty miles of water lines. The following are District statistics and information related to the operations of this distribution system and the quality of the water supplied to District customers.

### Summary

The District's water distribution system is in compliance with the State Water Resources Control Board- Division of Drinking Water, The Environmental Protection Agency, the Safe Drinking Water Act, Cal OSHA, and all other governing agencies.

Current chlorine demand has remained low and steady due to routine maintenance and flushing. Chlorine demand is found by subtracting the chlorine residual from the total chlorine added to the water system. A low chlorine demand indicates water-free or nearly free of pathogenic microorganisms.

### Water Quality Samples

The following is a summary of all water quality samples collected this month and any pertinent information related to said samples.

TEST TYPE	NO. OF COLLECTIONS THIS MONTH	TESTING SCHEDULE	NOTES
Raw water and Bac-t samples	52 samples	Monthly	All in compliance, Sampled Weekly
General physical samples	6 samples	Monthly	All in compliance, Sampled Weekly
TTHM/HAA5	0 samples sets	Quarterly	All in compliance.
Title 22	0 sample sets	TBD	All in Compliance.
Inorganics	0 samples	Yearly	All in compliance.
Radiological (Gross Alpha)	0 samples	Every 3 Years	All in compliance.
Trichloropropane 1,2,3-TCP	0 samples	Quarterly	All in compliance.
Regulated VOC	0 samples	As needed	All in compliance.
Nitrate as N	0 samples	As needed	All in Compliance.
Chromium 6	0 samples	Quarterly	All in Compliance.
Secondary GP'S	1 samples	As needed	All in Compliance.
Uranium	1 samples	As needed	All in Compliance

## Production and Service Order Report

The following is a summary of the District's water production and service orders for the current month.

<b>Total Monthly Production</b>	265.92 A. F. 13 % less than 2022
<b>2022 Monthly Production</b>	305.95 A. F.
<b>USA's Marked</b>	629
<b>Service Orders Completed</b>	434 service orders completed
<b>Main/Service Line Leaks</b>	48 service line leaks repaired. 0 Main line leak/ breaks repaired
<b>Hydrant Repairs/Replacements</b>	0 hydrant repaired/0 replaced
<b>Residential Meters Sold</b>	6
<b>Commercial Meters Sold</b>	0
<b>YTD Total Meters Sold (Calendar)</b>	18 (86 in 2022) (95 in 2021)
<b>Construction Meters Out</b>	5
<b>Service Lines Replaced</b>	7

### Job Code Summary

<b>Job Code</b>	<b>Total Completed</b>
C-Lock - Lock	81
C-Read & Unlock-Open - Read & Unlock - Opening	7
C-Read & Unlock-OC-DM - Read & Unlock - Opening-OC-DM	67
D-Closing Read & Lck - Closing Read & Lock DO NOT USE	1
D-Closing Read-OC-DM - Closing Read & Lock-OC-DM DO NOT USE	1
M- Investigate Lock - Verify Meter Still Locked	6
M- Verify Acct Class - Verify Account Class	0
M- Water Audit - Audit Water Usage	3
M-Backflow - Backflow Information	0
M-Cost Estimate Req - Cost Estimate Request	2
M-Data - Data Log	7
M-Bees- Bees	5
M-Investigate Leak - Investigate Leak	1
M-Investigate No Wtr - Investigate No Water	1
M-Lock No N/O Info - Meter Locked No New Owner Info	10
M-Low/No Consumption - Investigate Low/No Consumption	0
M-Meter Leaking - Meter Leaking	0
M-Meter UTL - Buried - Meter UTL - Buried	0
M-Pressure Ck Hi-Low - Pressure Check Hi-Low	1
M-R/R Angle Stop - Repair/ Replace Angle Stop	6
M-R/R Gate Valve - Repair/ Replace Gate Valve	3
M-Read - Read (do not update Read)	4
M-Repair Svc Line - Repair Service Line	48
M-Repair/Install Box - Meter Box	2
M-Replace Serv Line - Replace Service Line	7

M-Stake Meter Loc - Stake Meter Location	0
M-Status - Status	13
M-Turn off-Cust Req - Turn off - Customer Request	2
M-UNLOCK – UNLOCK	29
M-Verify Leak Repair - Verify Leak Repaired	3
M-Water Loss Leak - Door Hanger Water Loss Leak	7
M-Water Quality Taste - Water Quality - Taste	2
S- Replace Register - Register Not Sending Signal	273
S- Meter Downsize - Meter Downsizing	0
Service Change - Service Status Change	0
S-Replace Mtr & Reg - Replace Entire Meter Max Life Usage	0
S-Replace Reg Hotrod - Replace Register Hotrod Died	1
S-Replace Register - Replace Register Mueller	0
S-Replace Mtr- Replace Entire Meter Bottom Seal Leaking	14
Grand Totals	640

### **Summary of Current Projects**

The following is a brief summary of all current and completed projects for the reported period

- Well Soundings at all wells are being done monthly
- Well 14 Production for June 0.18 AF, YTD 1.08 AF @ \$1055 per AF replacement C/Y 2023
- Valves and Hydrants Maintenance: 0 hydrants flushed and painted YTD Total-63
- Service line replacement program on target to meet current established goals. 13 Replaced Calendar Year to Date, 0 Replaced Fiscal Year to Date
- Air-Vac maintenance & flushing program-0 Flushed & Maintenance YTD-0 of 336 Total Project 0% Complete
- Cla-Val automatic controls valves being systematically rebuilt as a water conservation measure- 19 Complete YTD Water savings from this project is 17 GPM and counting in conjunction with operational efficiency @ 7MG
- Water Meter Replacement Project- 5257 of 7204 Replaced – 73 % Complete
- Tank 1C-2 Interior coating sand, blast, re-coat- 100% Complete
- Outfitting & Equipping of Mountain well (Well 17)- 95% Complete
- Drilling, Outfitting, and Equipping of Well # 15- 55% Complete (Started 12/5/22)
- Pipeline Protection Project phase 3- Sonora Rd between Phelan Rd & Hollister- 100% Complete
- Pinon Hills Pipeline Project- 1,270' on Pinon Hills Rd- 100% Complete
- Well 1B pulled due to failure for rehabilitation-10% Complete
- Mainline extensions @ Coyote & Wagon Train and Smoketree & Beaver- 50% Complete

### **Projects Completed**

- Well 15 Pipeline 5900' of 12" Ductile Iron Installed -100% Complete.
- Booster 3A-B Suction can hole repair- 100% Complete
- Well Meter and inter-tie Meter annual accuracy program FY 22/23- 100 % Complete
- Electrical Efficiency test performed @ every booster and well within the District- 100% Complete with summaries of notable replacements attached
- Oil Changes and greasing at all district wells 100% Complete Boosters 100 % Complete
- 0 Valves Turned this month as part of the district Valve Exercising Program, 41 Year to Date Turned of 4291
- 168 Dead ends flushed of 317 = every year no matter what < No goal, this is mandatory
- 1936 hydrants = 49 flushed this Year to Date 162 Painted Goal is 968 annually, this is done Bi-Annual
- Tank washouts of 10&11, 3B,2A-1,4B,3A,2A,4A,5A,1A-2,8A Complete

- The Fill Station Stats Year To Date



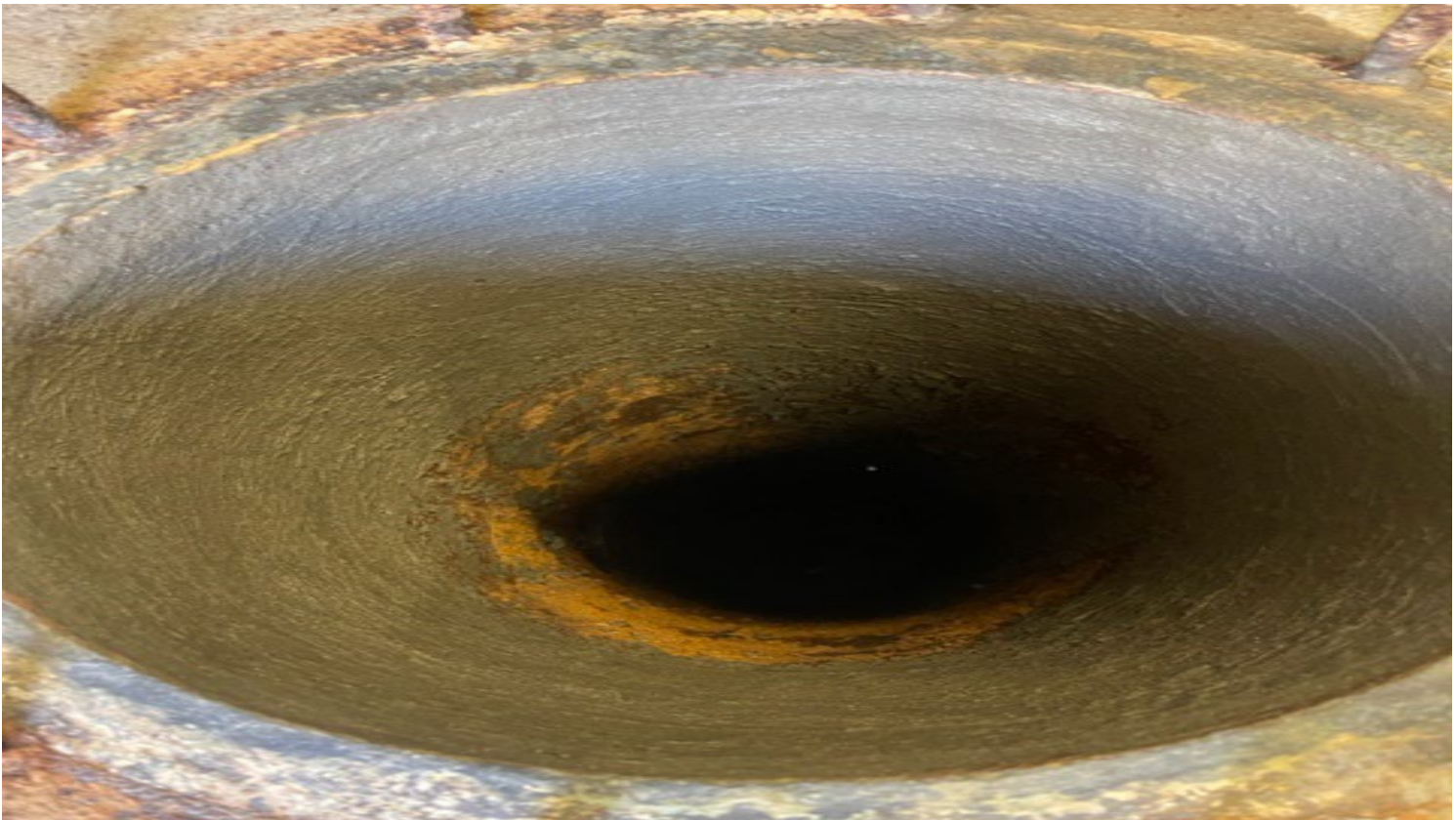
- The New Service Line Record

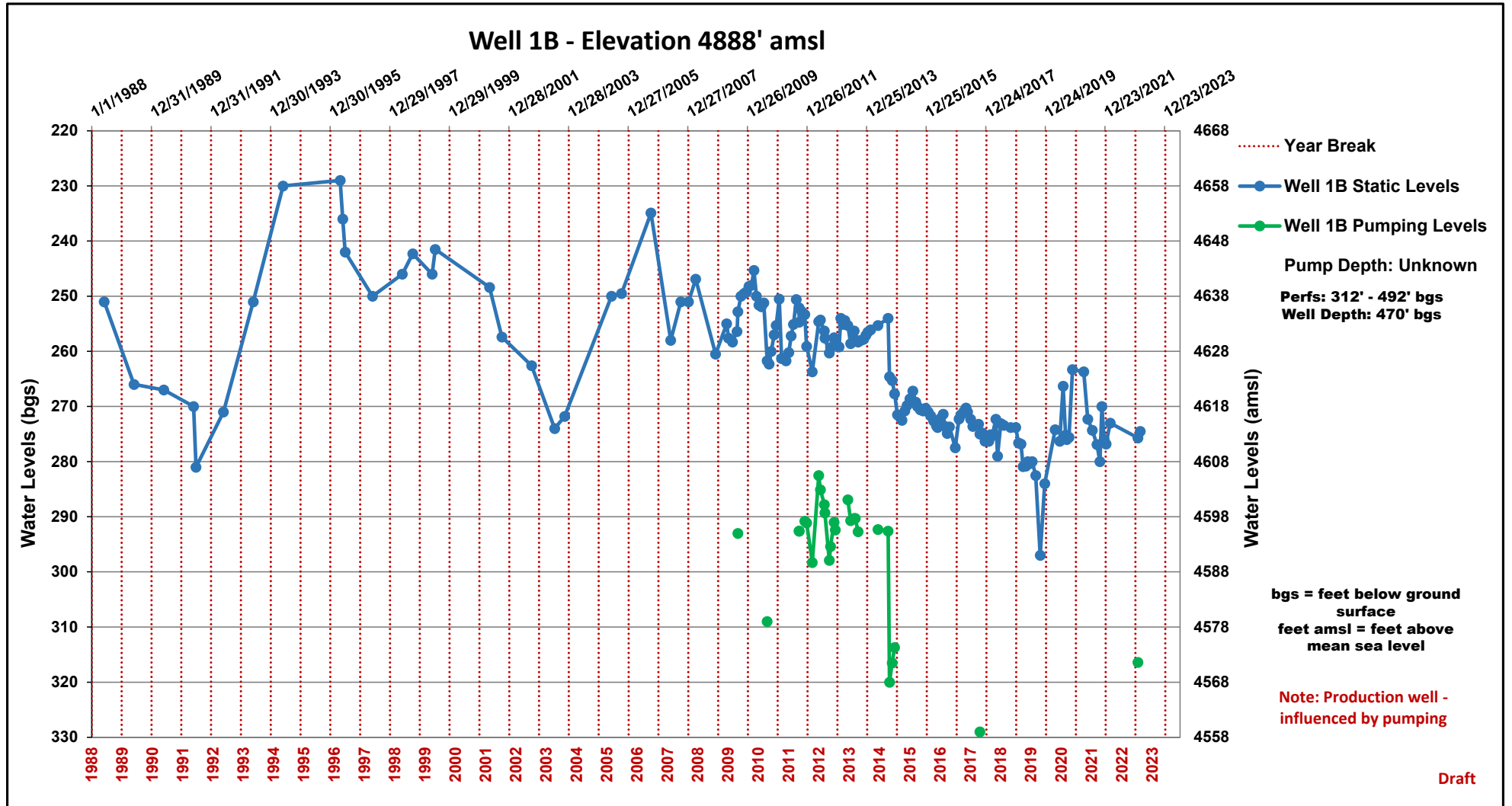




- Before and After @ 3A Booster B

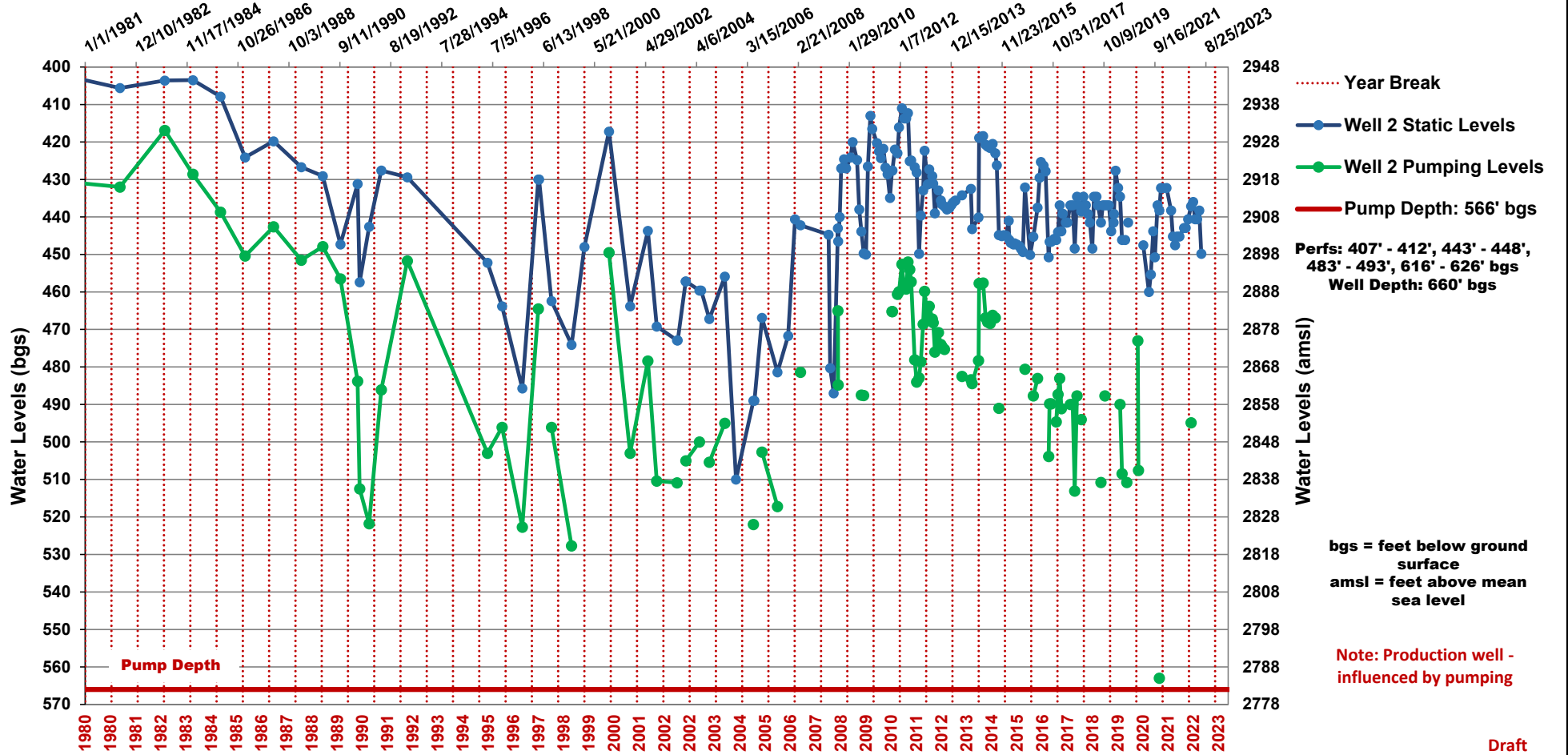




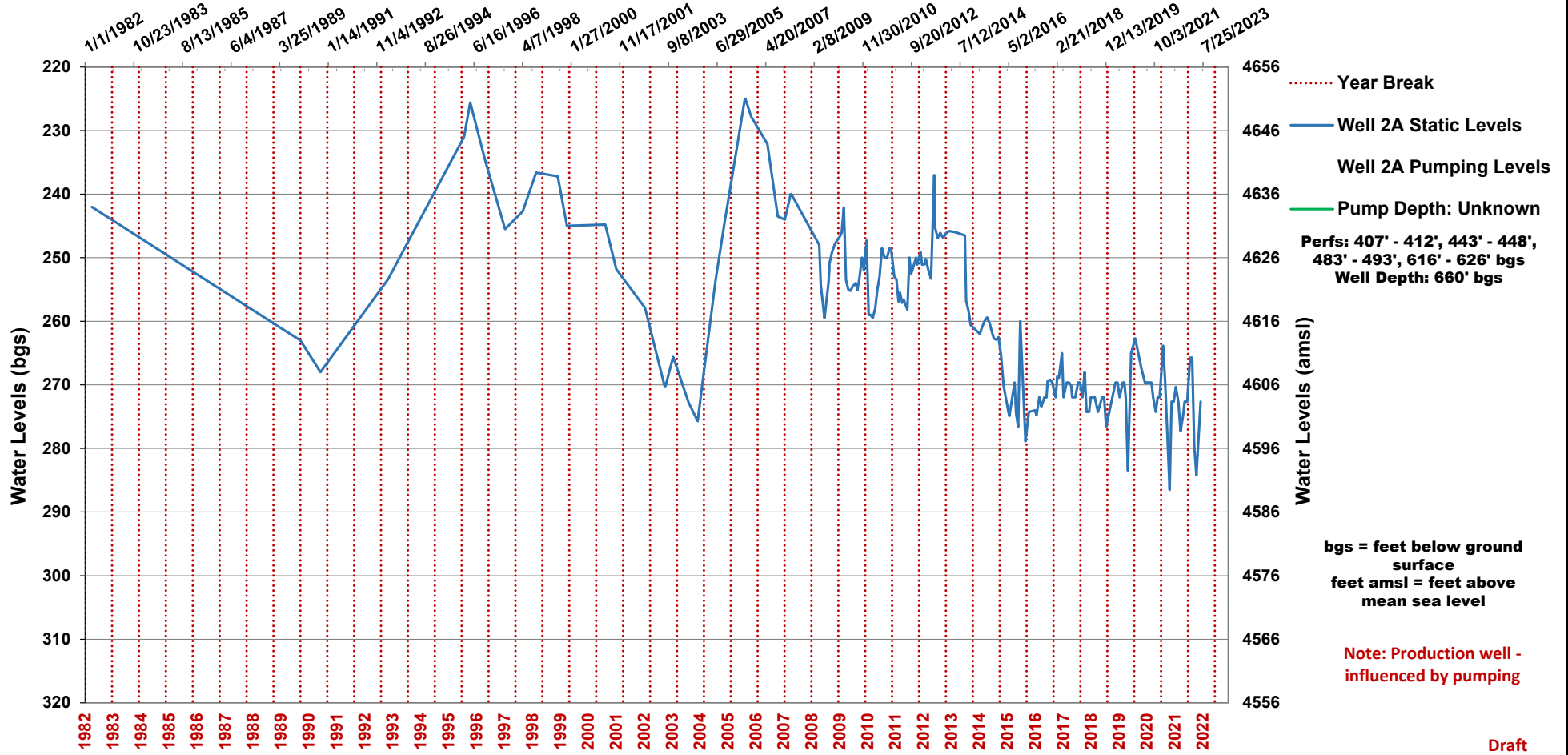




### Well 2 Elevation 3348' amsl

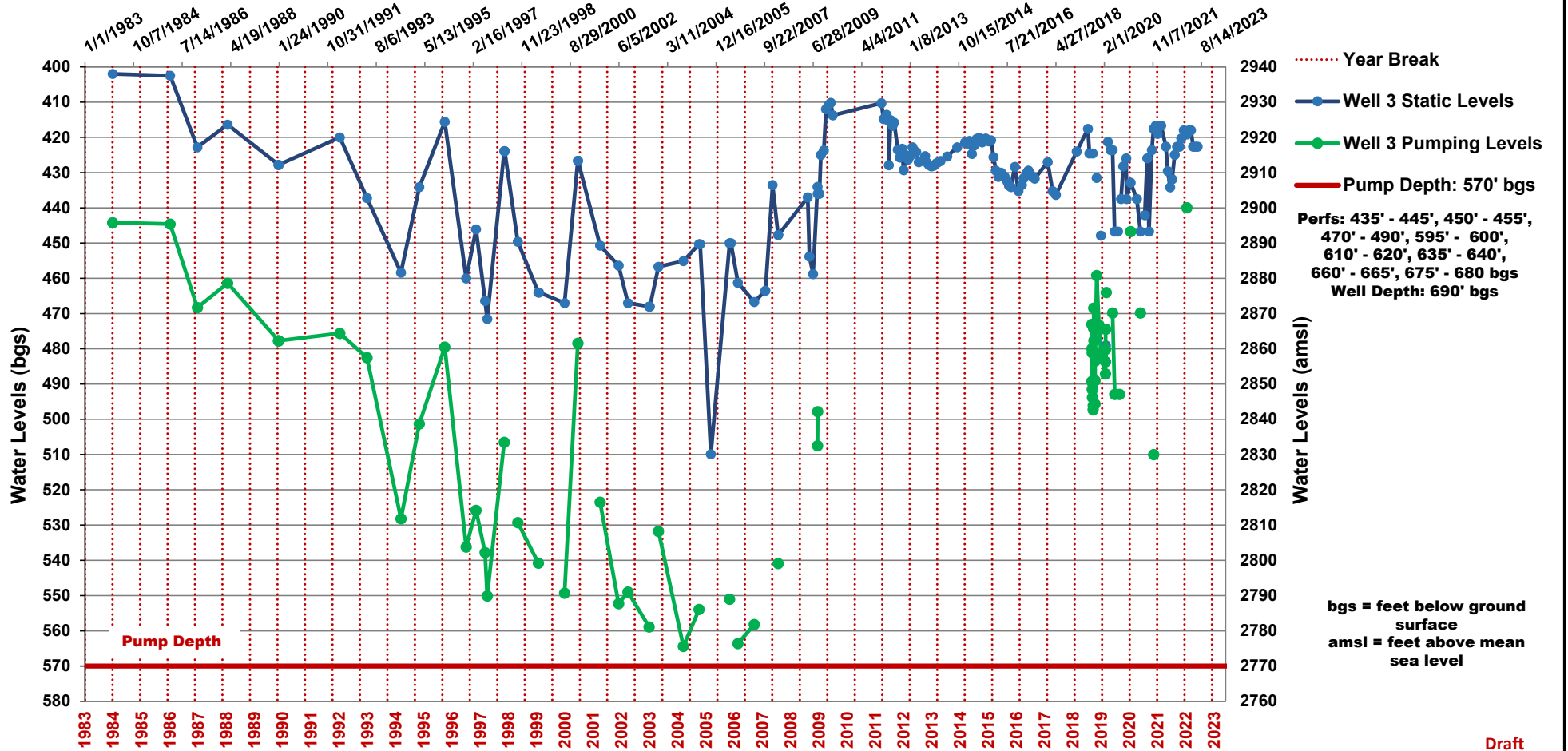


### Well 2A - Elevation 4876' amsl



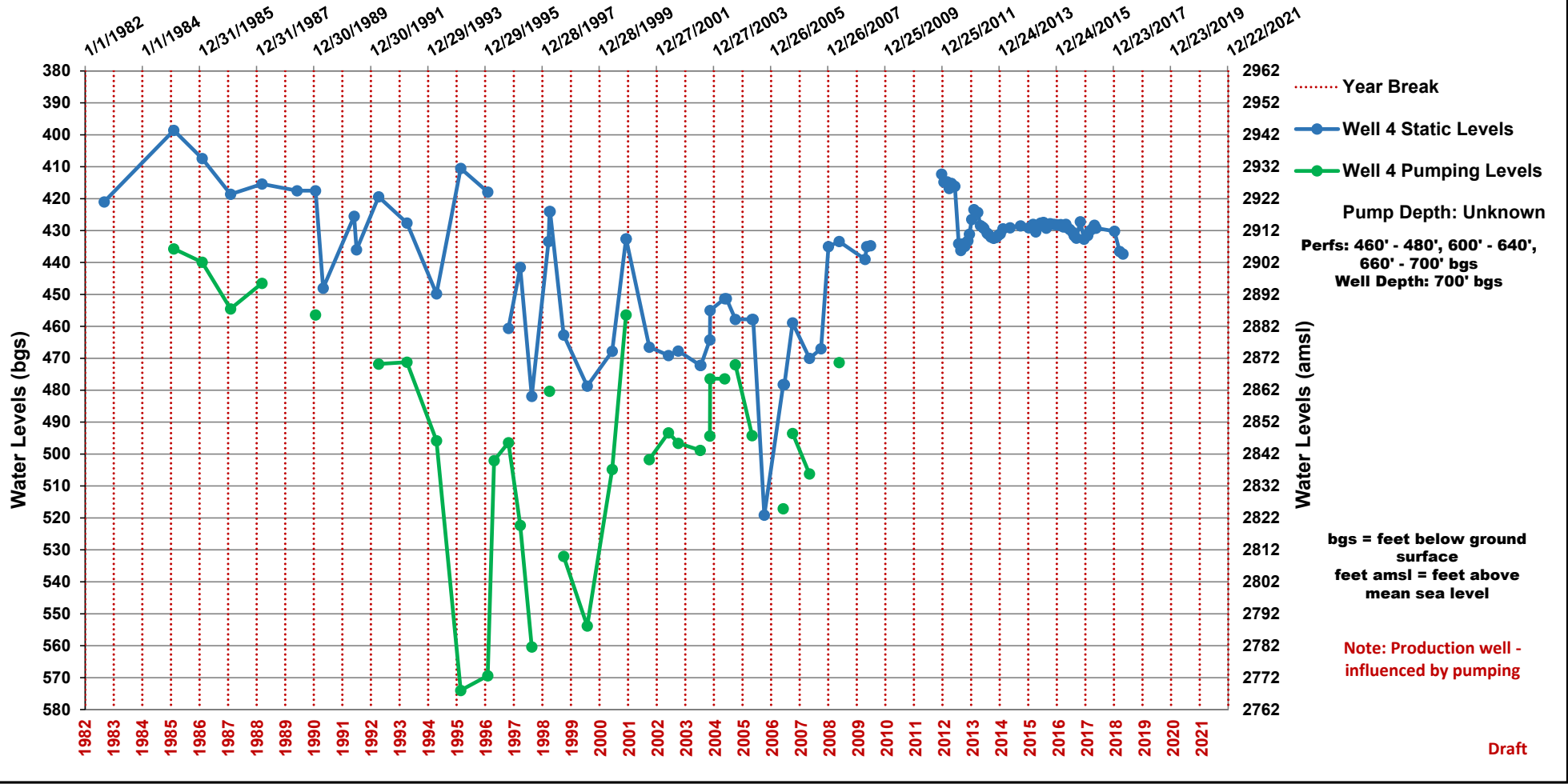
### Well 3 Elevation 3340' amsl

Well Brought Back Online 8/17/2019

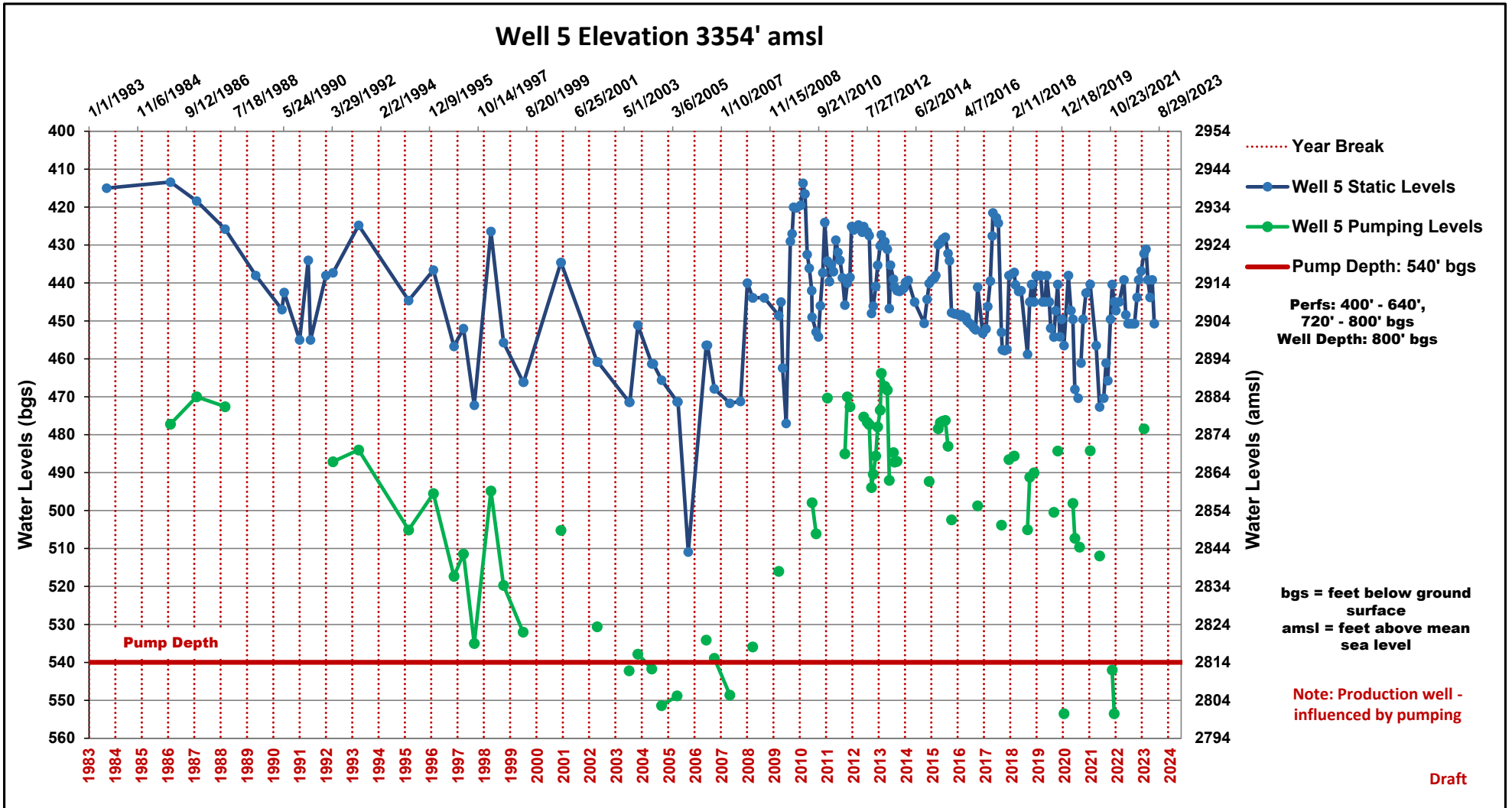


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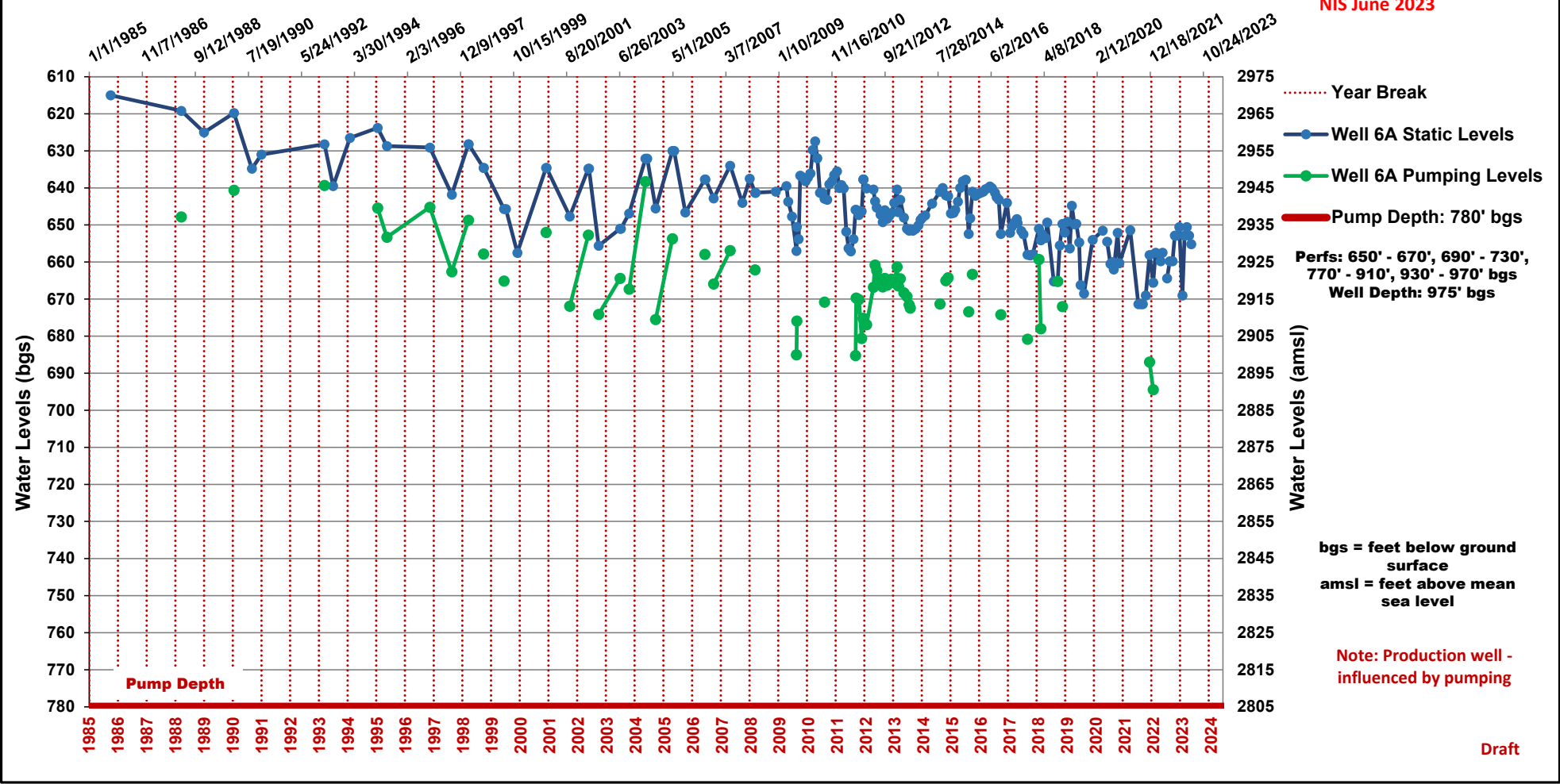
### Well 4 - Elevation 3342' amsl (Abandoned)



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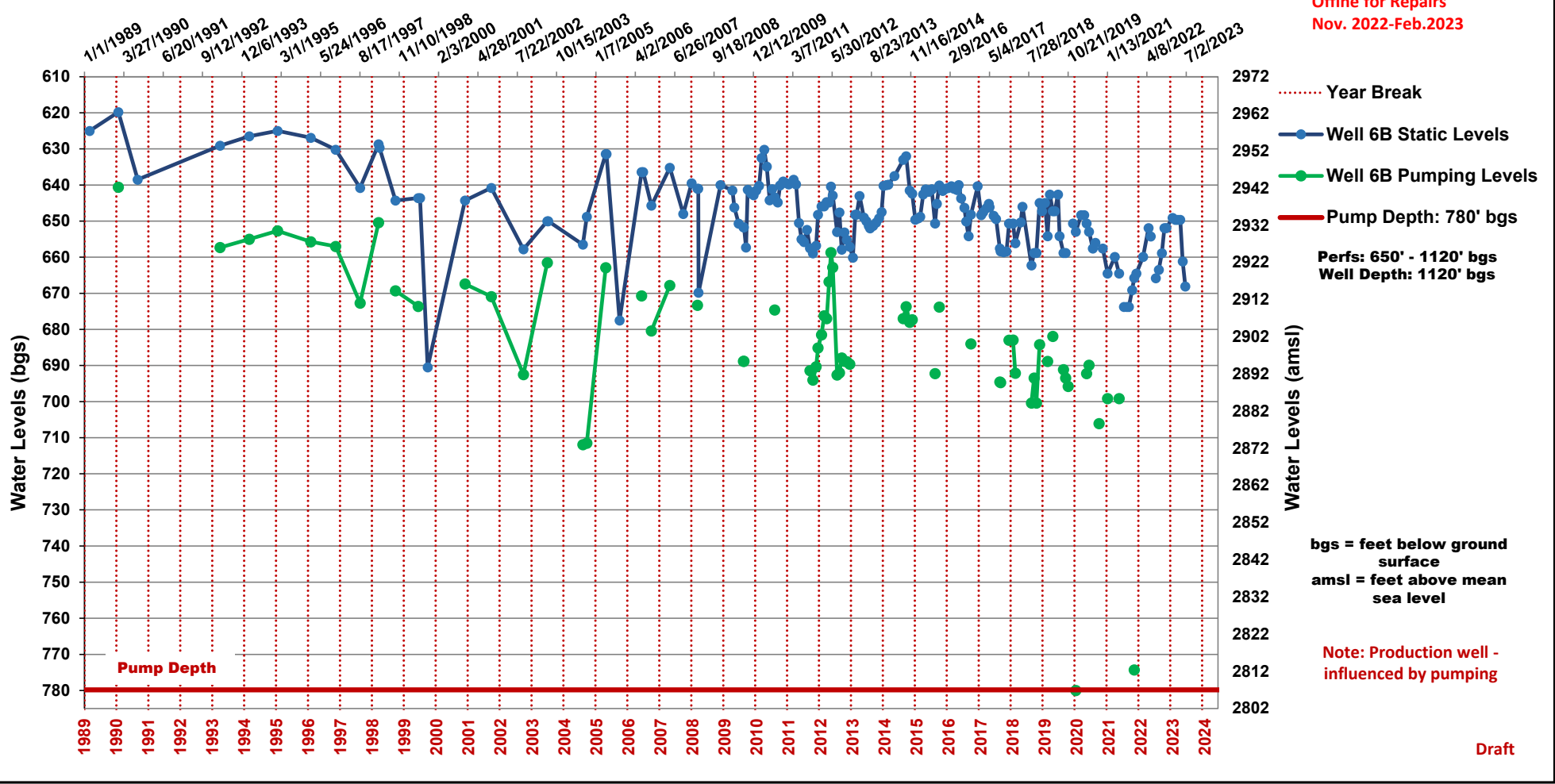


### Well 6A Elevation 3585' amsl



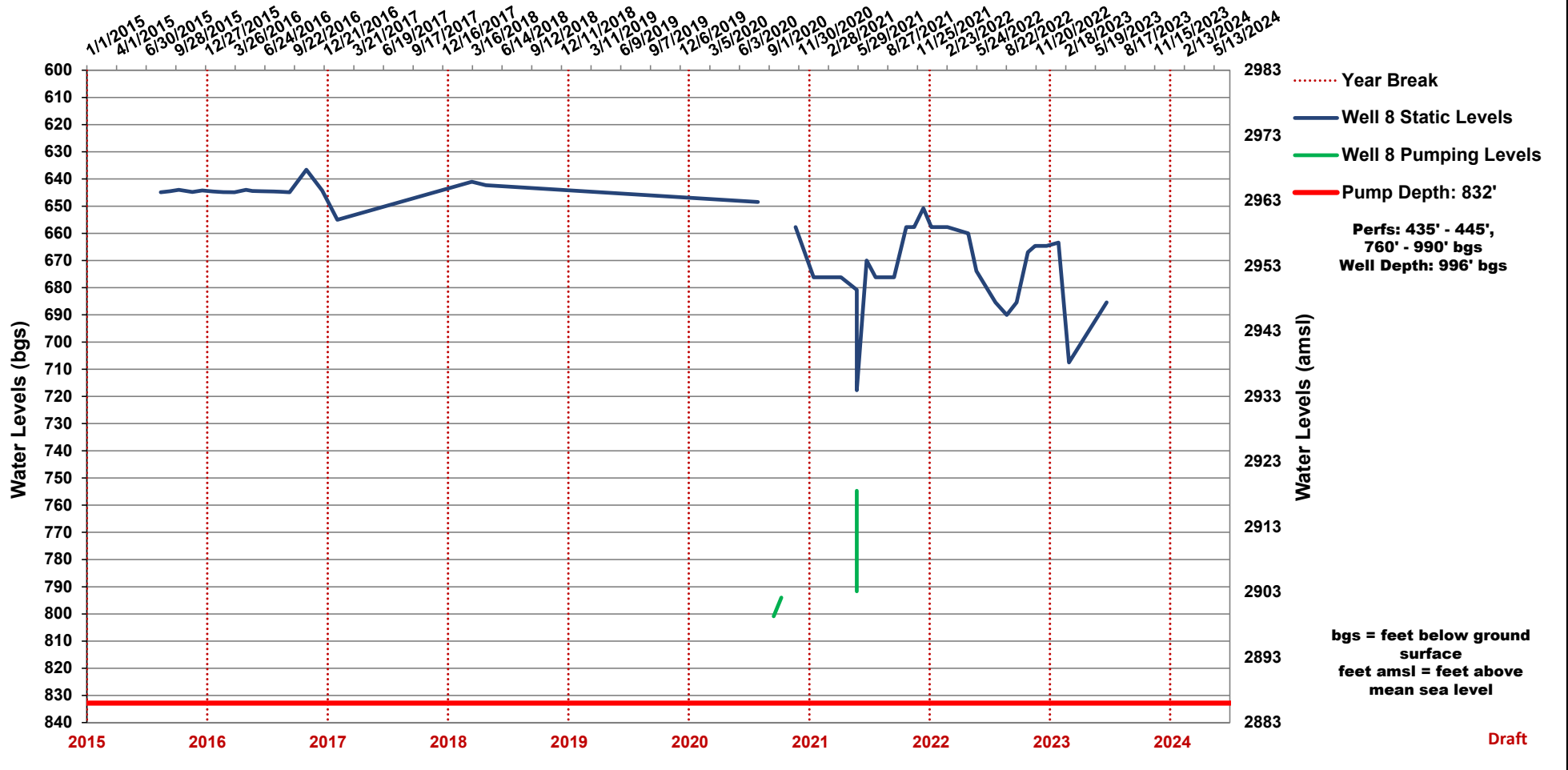
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### Well 6B Elevation 3587' amsl



### Well 8 - Elevation 3583' amsl

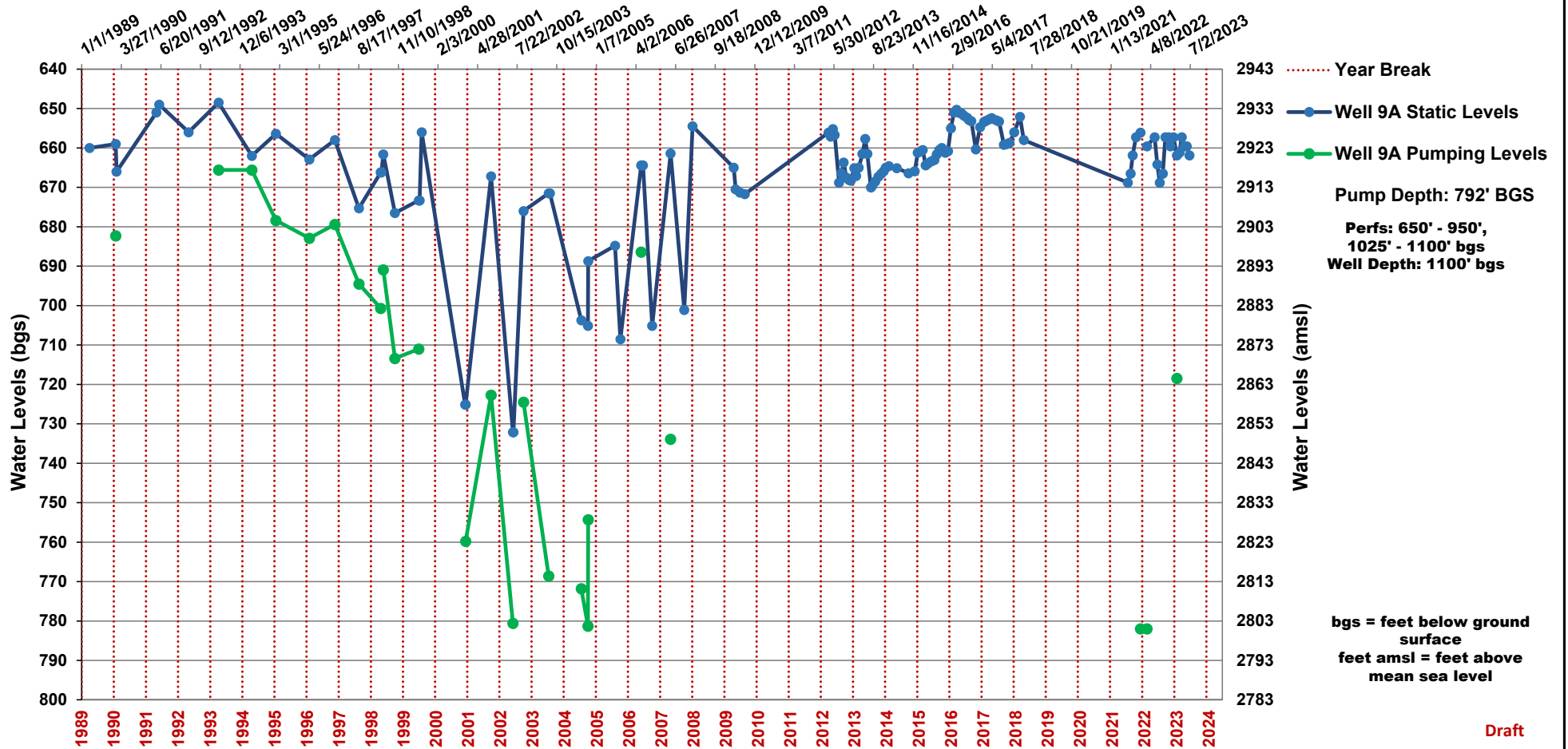
Well Brought Back Online 8/1/2020  
Offline for Repairs Nov-April 2023



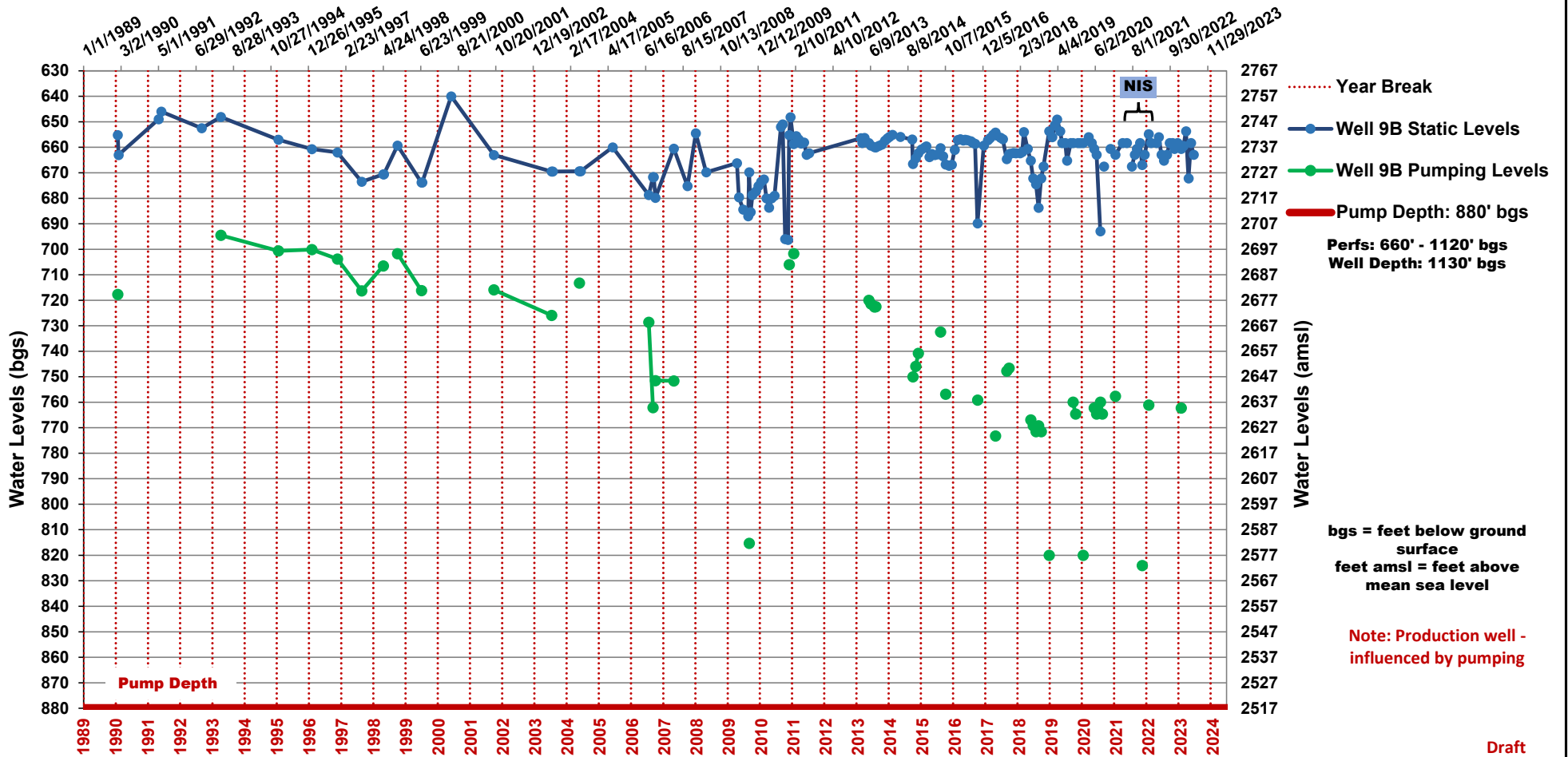
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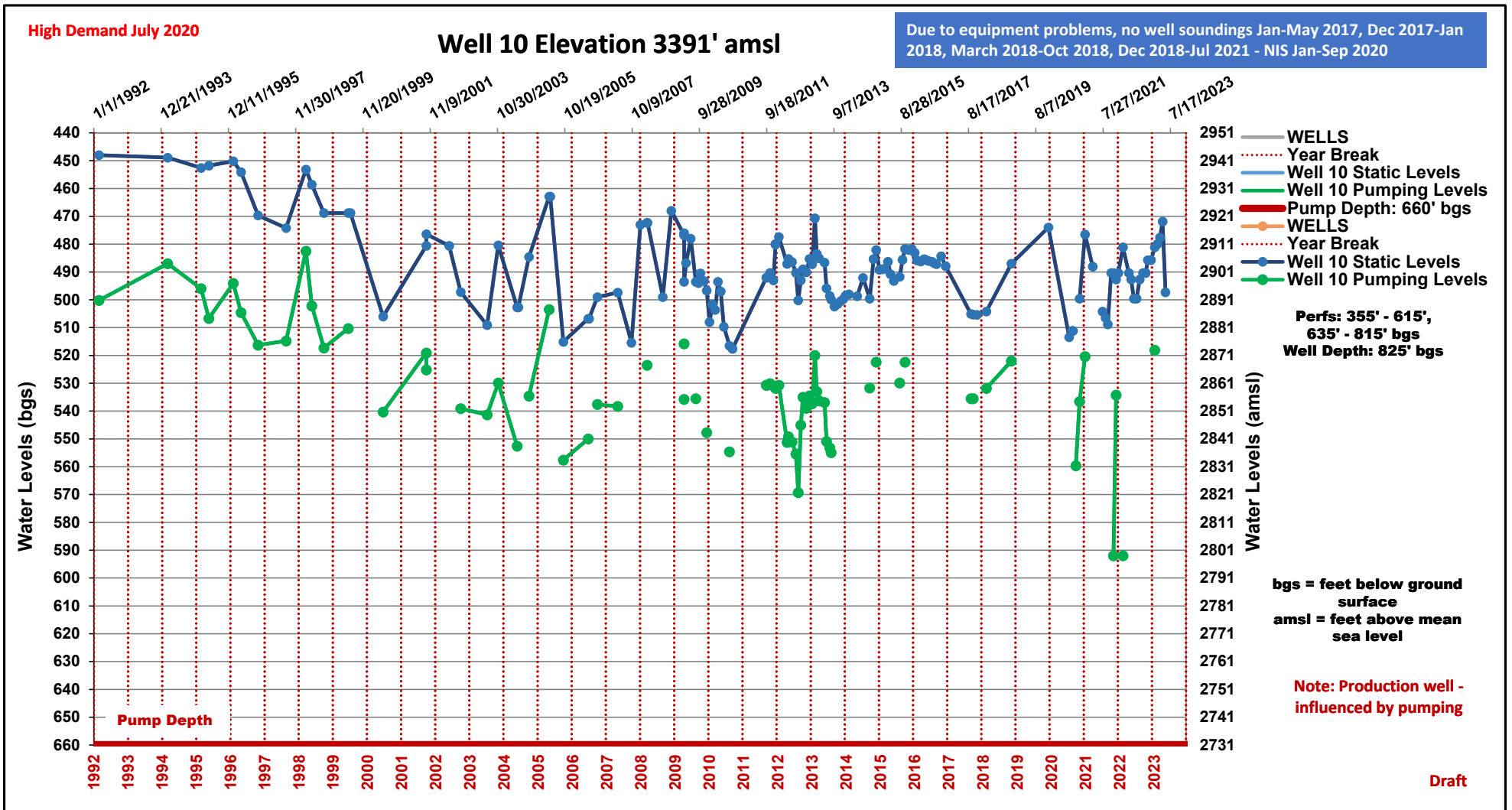
### Well 9A - Elevation 3583' amsl



### Well 9B Elevation 3397' amsl

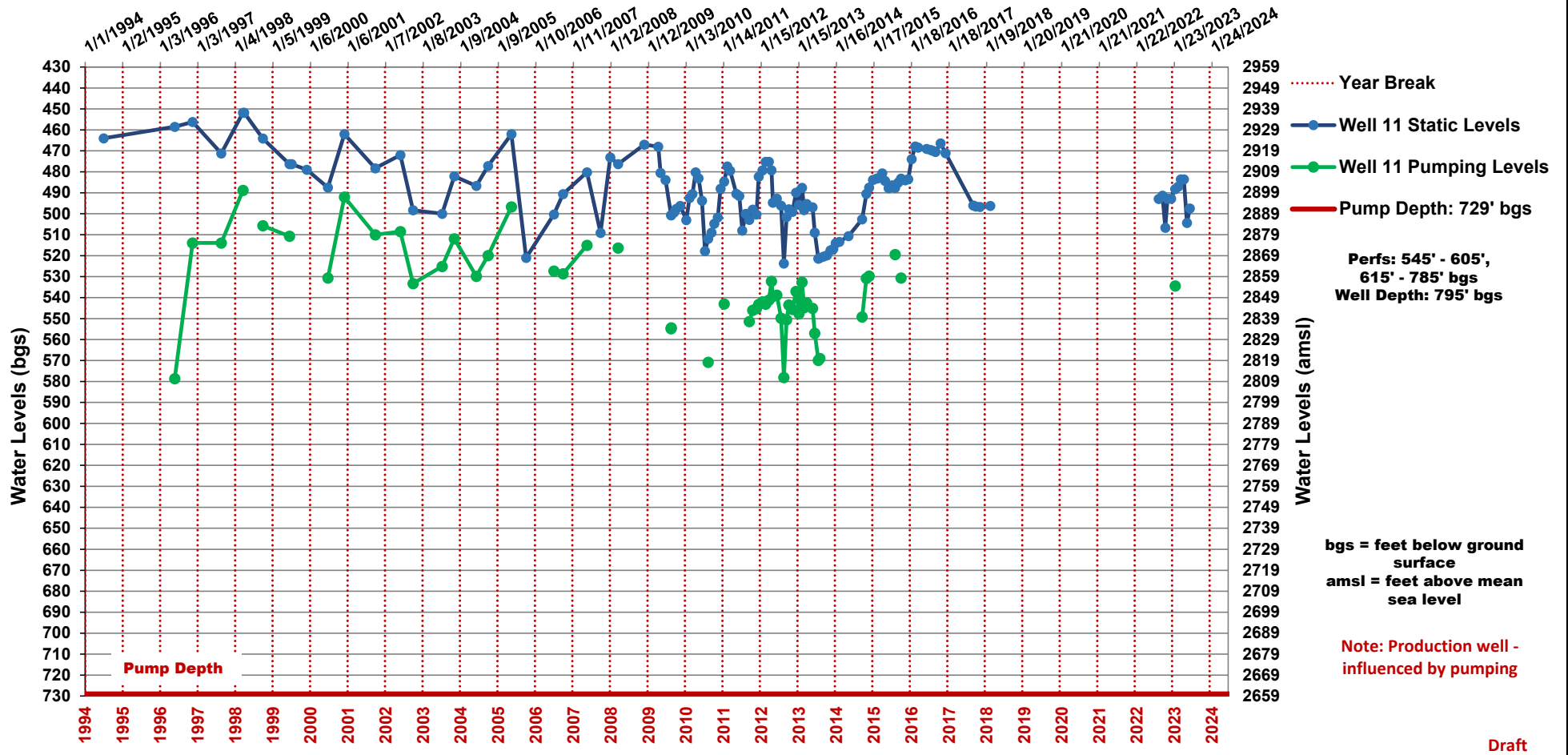


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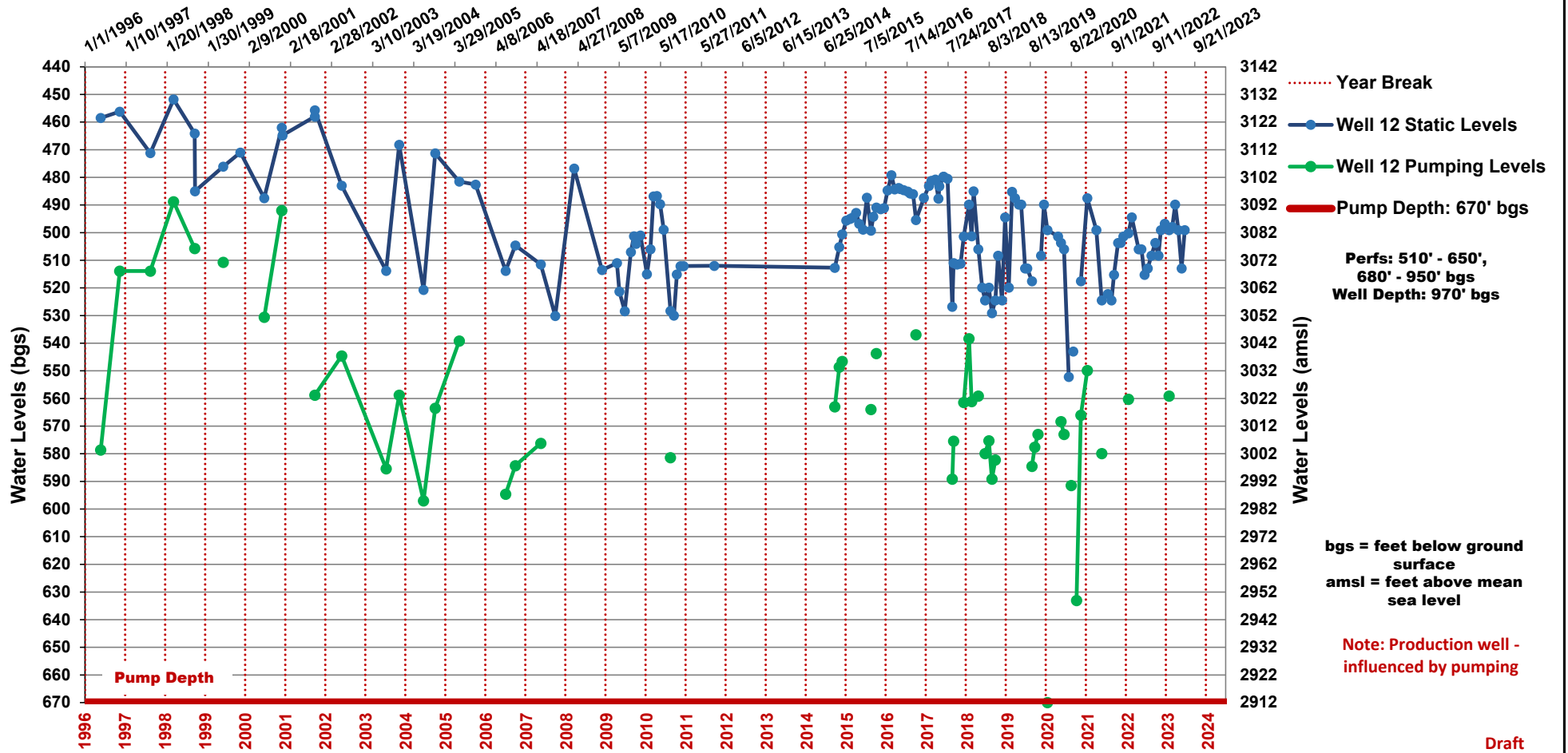
### Well 11 Elevation 3389' amsl

Due to equipment problems, no well soundings Jan-May 2017,  
Dec 2017 - Jan 2018, March 2018-July 2022

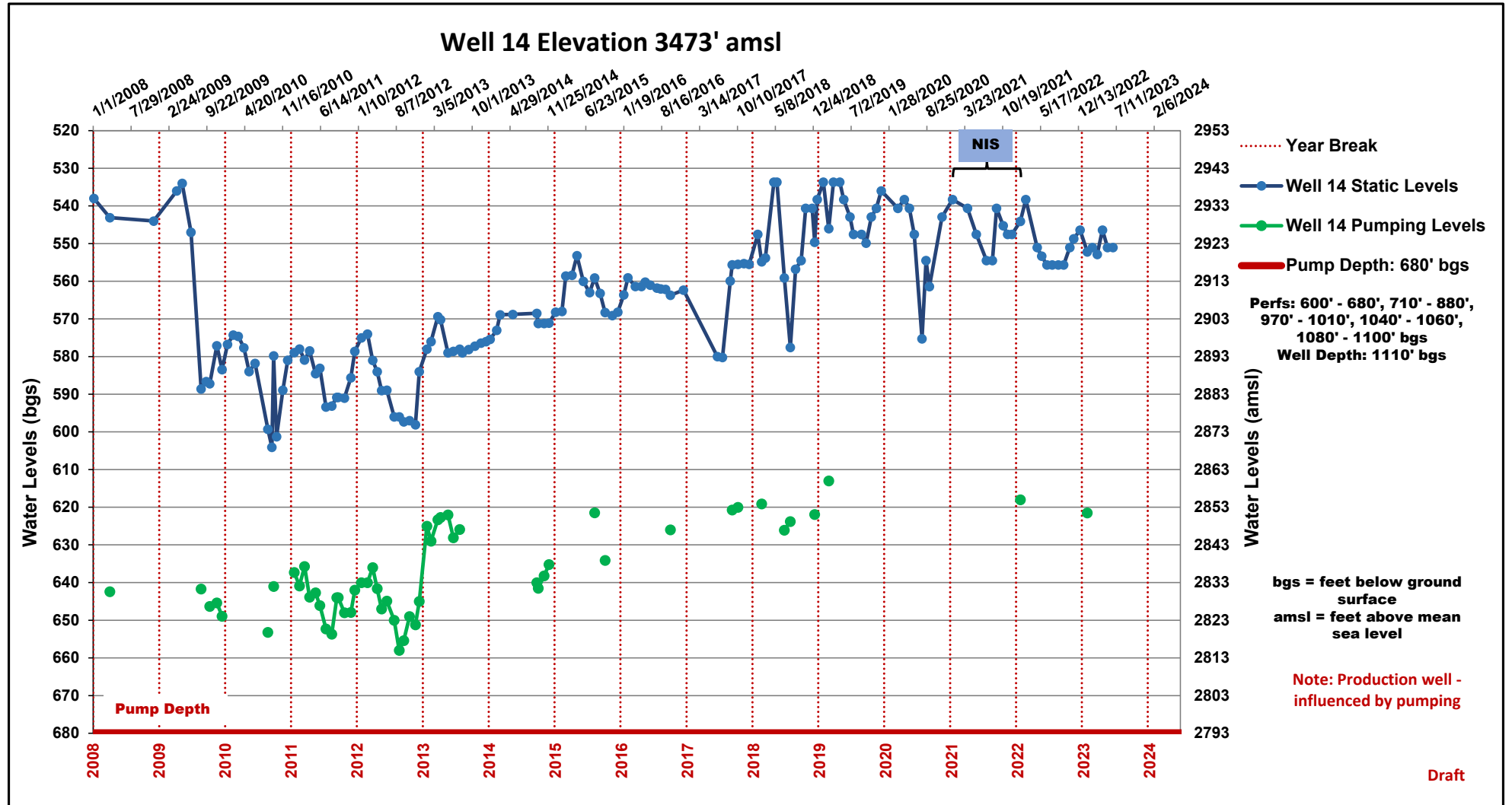


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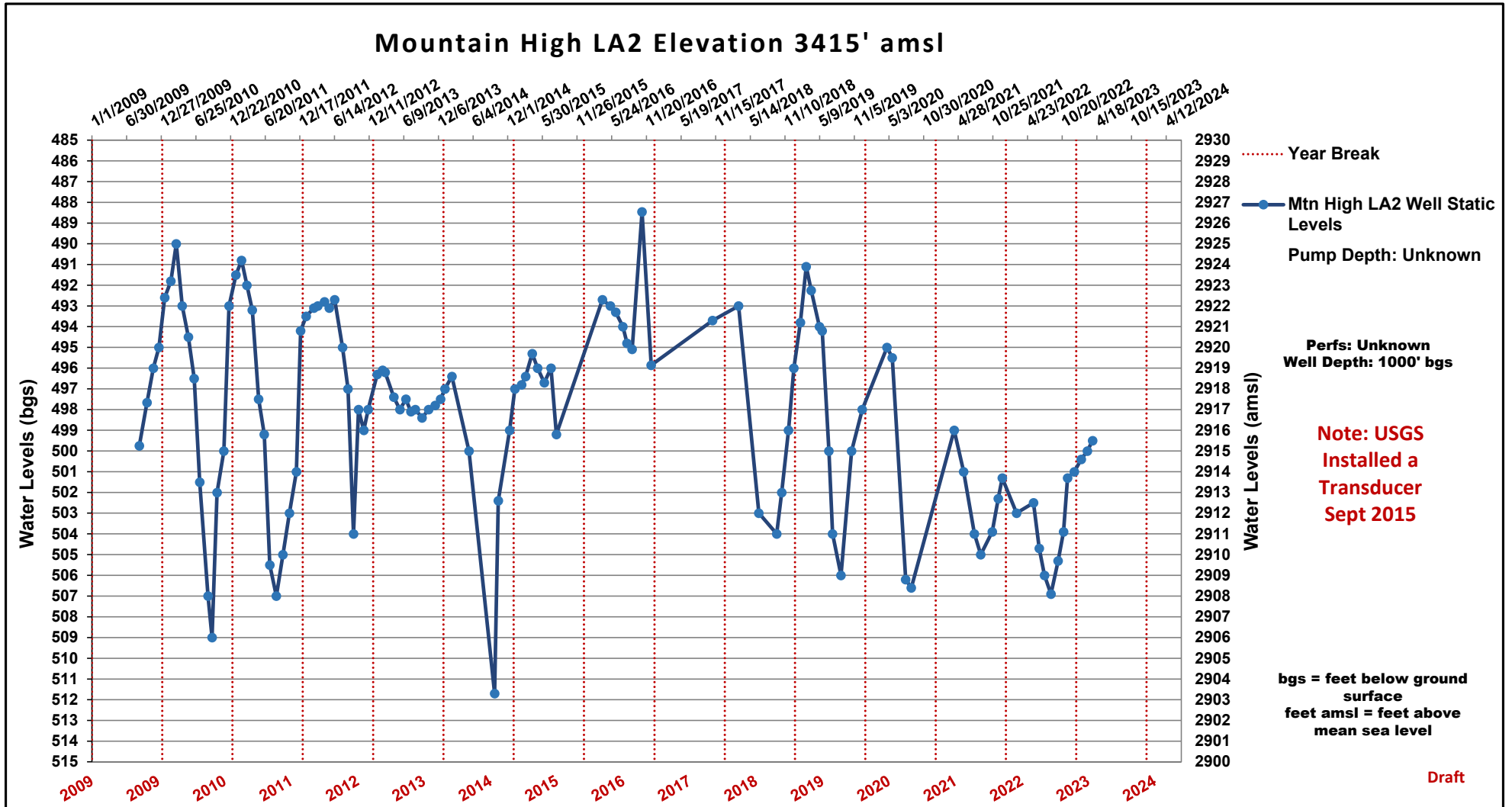
### Well 12 Elevation 3582' amsl



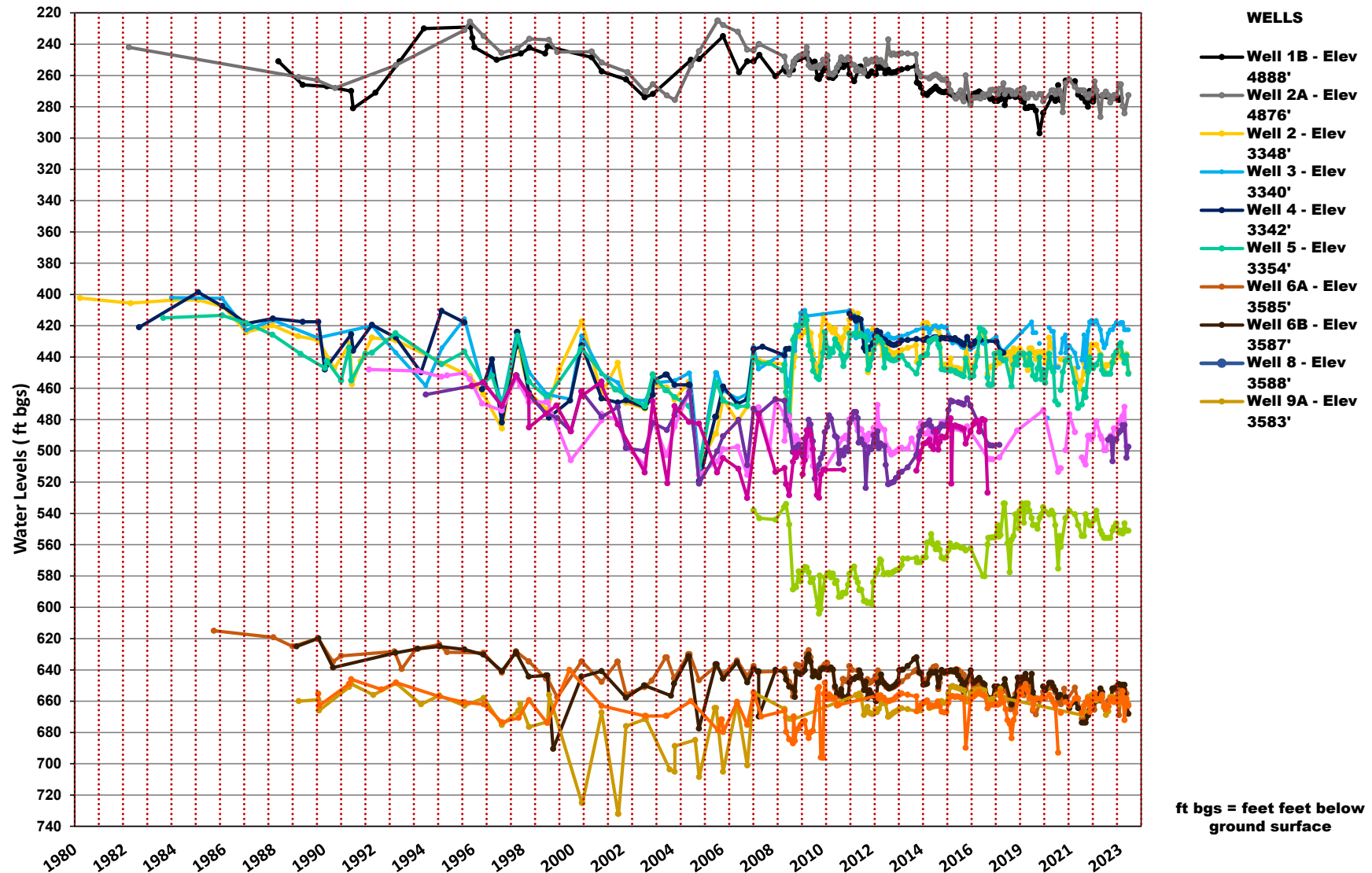
Draft



Draft



### PPHCSD Water Levels-ft bgs



Note: Production Wells influenced by pumping

Draft