Appendix G3Lassen Groundwater Well Evaluation



MAIN OFFICE 605 THIRD STREET ENCINITAS, CALIFORNIA 92024 T 800.450.1818 F 760.632.0164

April 16, 2024 12335_19_2

Arthur J. Wylene, General Counsel Rural Country Representatives of California 1215 K Street, Suite 1650 Sacramento, CA 95814

Subject: Groundwater Well Assessment – 653-800 Washington Ave. Bieber, California 96009

REVISED April 22, 2024

Dear Arthur J. Wylene:

This letter report presents the results of a groundwater well assessment performed for an onsite well (Well 1) at 653-800 Washington Ave. Bieber, California 96009, on Accessor Parcel Number (APN) 001-270-80-11 (Site). The assessment was conducted to determine the feasibility of using Well 1 to serve as a source of groundwater for a proposed project on the Site. The assessment included a downhole video survey and a 24-hour constant rate pump test to estimate the capacity of Well 1 using the existing pump and to estimate the projected drawdown in the well. Drawdown projections were also calculated to estimate the long-term water level response to pumping and determine if the well can feasibly produce the proposed project's total annual water demand of 46.85 acre-feet per year.

Well 1 is located along the eastern border of the Site at latitude 41.0943703, longitude -121.1751618 (Figure 1). Well 1 is an operational well that services various industrial activities at the Site.

1 Hydrogeologic Conditions

The Site is located within the Big Valley Groundwater Basin (Basin), categorized by the Department of Water Resources (DWR) as Basin 5-004 (Figure 2). The principal aquifer in the Basin is characterized as consisting of gravels and sand up to 1,200 feet deep, although these materials may extend up to 7,000 feet in portions of the Basin (Lassen County and Modoc County 2021). The aquifer also includes semi-consolidated layers of clay, silt, sand, gravel, and diatomite (Lassen County and Modoc County 2021). The thickness of water bearing material thins towards the edges of the Basin, which includes the area where the Site is located (Lassen County and Modoc County 2021). The surficial geology at the Site and in the immediate vicinity is mapped as Quaternary lake deposits (CDMG 1958)². Hard rock characterized as tertiary volcanics (basalt) is mapped approximately 1.5 miles west of the Site, is not considered water bearing material, and therefore is not included in the Basin.

¹ Lassen County and Modoc County, 2021. Big Valley Groundwater Sustainability Plan.

² CDMS,(California Division of Mines and Geology) 1958. Geologic Map of California: Alturas sheet. Gay, T.E, and Aune, Q.A. Geologic Atlas of California GAM-01, 1:250,000. https://ngmdb.usgs.gov/Prodesc/proddesc_282.htm

The lithology documented in well completion reports from wells drilled near the Site predominantly consists of sand, clay, sandstone, and volcanic material (Dudek 2023)³. Initial estimated yields from wells documented near the Site range from 5 gallons per minute (gpm) to 150 gpm, with the exception one well located approximately ³/₄ mile northeast of the site, which had a documented estimated yield of 1,500 gpm in the DWR report (Dudek 2023).

The Basin is considered a medium priority basin, as defined in the 2018 update to DWR Bulletin 118 and is subject to Sustainable Groundwater Management Act guidance. The Big Valley Groundwater Sustainability Agency (GSA) includes the County of Modoc GSA and County of Lassen GSA. The GSA prepared a Groundwater Sustainability Plan (GSP) in 2021. The Big Valley Groundwater Sustainability Plan is currently under revision by the GSA after it was deemed incomplete by DWR in October 2023.

There is one groundwater level monitoring well (Well 38N07E32A002M)⁴ located to the east of the Site (Figure 2). The period of record for groundwater level monitoring in this well is from 1959 to 2023. Groundwater levels in this well are relatively close to ground surface and fluctuate between ground surface and 12 feet below ground surface (bgs), with the lower groundwater levels recorded in the fall and higher groundwater levels recorded in the spring following winter precipitation (Figure 3).

Groundwater levels in Well 1 were recorded during groundwater investigative field work in September 2023 and March 2024. The lowest recorded groundwater level measurement of 63.93 feet bgs was recorded on September 28, 2023 (equivalent to a fall measurement), and the highest recorded groundwater level measurement of 46.8 feet bgs was record on March 25, 2024 (equivalent to a spring measurement). Based on the long-term record of groundwater level measurements in the nearby monitoring wells, it is reasonable to assume that groundwater levels on and near the Site likely follow a similar seasonal trend of higher groundwater levels in the spring, and a lower groundwater levels in the fall. Long-term groundwater level monitoring of Well 1 can provide additional information on groundwater level trends at the Site.

2 Previous Work

Dudek performed an initial site inspection and data review in September 2023. A Preliminary Groundwater Well Evaluation (Evaluation) was provided to the client on October 20, 2023, and is included as Attachment A. The Evaluation included the findings of the desktop study and site reconnaissance. The desktop study identified nine (9) well completion reports from the DWR database for wells located on and near the Site. The site reconnaissance identified one (1) groundwater well on the Site (Well 1). Information from well completion reports did not match surface construction characteristics for Well 1. The Evaluation recommended performing a video survey and production rate testing at Well 1. Personal communication with onsite personnel indicated that the Well 1 produces approximately 100 gpm to 167 gpm, that the well was onsite 20 years ago when the property was purchased, and that the only known repairs were to the pump, but the date of these repairs are unknown.

An offsite well was identified to the north of the Site during the initial site inspection. The Evaluation recommended using the offsite well as a monitoring well during production rate testing at Well 1. The well owner was contacted,

⁴ SGMA Data Viewer. https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels. Accessed March 4, 2024. Site Code 410950N1211839W001.



³ Dudek, 2023. Memorandum – Preliminary Groundwater Well Evaluation – 55100 Roosevelt Property. (Attachment A). Note that address changed from 55100 Roosevelt to 653-800 Washington Ave.

and access was granted to monitor the offsite well, but there was no access port for monitoring water levels at the well head and therefore the offsite well was not used as a monitoring well.

3 Video Survey

Dudek's contractor, Your H20 Pro of Janesville, California, removed the existing pump in Well 1 on February 8, 2024. The equipment removed included 90 feet of 5-inch diameter column pipe, 84 feet of 4-inch diameter column pipe, a Berkely 6T15-250 pump (Serial number B64059 with date code 1989), and pump cable. The pump curve for the existing pump is included as Attachment B. The total depth of the well was recorded at 337 feet bgs and the pump was set at a depth of 175 feet bgs.

A downhole video survey was performed by Your H20 Pro on February 27, 2024, but visibility was poor due to poor water clarity and the quality of the equipment used. Dudek contracted Pacific Surveys of Upland, California, to perform a second video survey of the well on March 14, 2024. The video survey report provided by Pacific Surveys is included as Attachment C. On March 19, 2024, Your H20 Pro reinstalled the submersible pump in Well 1 to a depth of 175 feet bgs and installed a 1.5-inch sounding tube to the top of the pump (175 feet bgs) to allow for water level measurements during pump testing.

3.1 Video Survey Observations

Well 1 is constructed with 72.5 feet of 12-inch internal diameter steel casing from ground surface to 72.5 feet bgs, and 264.3 feet of approximately 10-inch steel casing from 72.5 feet to 336.8 feet bgs. The downhole video camera came to a stop on fill material encountered at 336.8 feet bgs (total observable depth). Casing perforations were not observed in the video survey until a depth of 334.2 feet bgs, approximately 3 feet from the observable bottom of the well. The casing perforations appear to be torch cut vertical slots. Scale was observed on the casing walls for the entire length of the well, and increased between a depth of approximately 180 feet bgs and the total depth of 336.8 feet bgs. Casing perforations may extend below 336.8 feet bgs, however that was not seen in the video survey due to the presence of fill material in the bottom of the well. Additionally, there is potential that perforations exist above a depth of 334.2 feet bgs, but were not visible in the video survey performed and were potentially obstructed due to scale on the casing.

The well casing shows signs of age and deterioration. Care should be taken while conducting downhole work in the well (removing and reinstalling pump equipment). Well rehabilitation may be an option to remove fill in the bottom of the well and to remove scale to open perforations and increase flow to the well. However, due to the casing deterioration observed during the video survey, there is a high likelihood that rehabilitation activities may damage the casing and render the well unusable.

A Dropbox link to the video survey is provided below:

https://www.dropbox.com/scl/fo/hrhqo5ld0f1ag2089je0n/h?rlkey=sqzuhrlxbqu7m3qq4pwocztxp&dl=0

Well construction details observed during the video survey did not match information from DWR well completion reports for wells on or near the Site. Well 1 is located on a concrete pad, but the presence of a sanitary seal extending to a depth of 50 feet bgs (as required for drinking water wells) could not be confirmed.



4 Production Rate Testing

4.1 Testing Procedures

A 24-hour constant rate pump test was performed on Well 1 from March 27, 2024, to March 28, 2024. Your H20 Pro supplied a 6-inch totalizing flow meter, valve, 10 feet of discharge pipe and 30 feet of discharge hose for the test. Dudek hydrogeologist, Nicole Tucker, conducted onsite testing activities. An Insitu pressure transducer was installed in a 1.5-inch PVC sounding tube to a depth of 175 bgs and programmed to record water level measurements every 15 seconds. An Insitu barometric pressure transducer was placed at the wellhead to correct barometric variations recorded with the downhole pressure transducer. Power was supplied to the pump from an electrical meter near the well. The pump used during testing was the existing pump that was installed before work on the well began. The existing pump is a Berkely 6T15-250 pump that is set to 175 feet bgs on 5-inch and 4-inch column pipe. Groundwater was discharged to the adjacent field to the west of Well 1 during testing. An electric sounder was used to measure manual depth-to-water measurements during testing and to convert pressure readings from the pressure transducer to depth-to-water measurements.

Well 1 was pumped at an average rate of 180 gpm for 24 hours. Groundwater recovery was measured using the transducer for 24 hours after the pump was shut off.

4.2 Results and Analysis

Depth to water measurements for Well 1 were plotted against time and is presented in Figure 4. Static water level recorded in Well 1 before the constant rate test was measured at 47 feet bgs. Field staff attempted to maintain a constant flow rate using a gate valve on the discharge pipe. Although the flow rate was continuously modified to maintain a relatively constant rate, the rate fluctuated periodically between 200 gpm and 170 gpm. The average flow rate for the test was 180 gpm during the 24-hour pump test period. Depth to water in Well 1 after 24 hours of pumping was measured at 74.15 feet bgs (equivalent to 27.15 feet of drawdown). Approximately 24 hours after the pump was shut off, the recovered water level in Well 1 was measured at 48.3 feet bgs. There was 1.3 feet of residual drawdown and 95.2% recovery to the pre-test static water level 24 hours after shutdown (Figure 5).

Recovery was also plotted against time since pumping started (t) over time since pumping stopped (t'). A trend line passing through the late time drawdown measurements of t/t' is approximately equal to 1, indicating that recovery is nearly complete, and no major constant head boundary or residual drawdown was encountered over this testing and recovery period (Figure 6).

Drawdown data was plotted on a semi-log plot of depth to water vs elapsed time in minutes. A straight line was fit to the semi-log drawdown curve to project drawdown over time (Figure 4). The straight line was extended to 59 days and 1 year. The extension of the line to 59 days represents the number of days the well would need to be pumped continuously at the tested rate of 180 gpm to achieve the total annual water demand of 46.85 acre-feet per year. The straight-line drawdown projection estimates that the depth to water would drop to approximately 76.2 feet bgs (approximate drawdown of 29.2 feet) after 59 days of continuous pumping at 180 gpm and approximately 77 feet bgs (approximate drawdown of 30 feet) after 1 year of continuous pumping at 180 gpm. These projections are estimates only and the assumptions listed in Section 4.2.1 are made for long-term planning purposes.



4.2.1 Assumptions

The assumptions for the analysis of the Well 1 pump test are included below:

- Static non-pumping water levels are similar to water levels measured when the 24-hour test occurred.
- No barriers to flow (i.e. faults, other boundary conditions) will be encountered during long-term pumping.
- Drawdown as a result of pumping at a constant rate for 24 hours is representative of long-term pumping.
- Water level recovery observed during testing will remain consistent in the future.
- Pumping at offsite wells does not affect groundwater production at Well 1.
- There will not be year over year net decline in water levels during long-term pumping to meet project demand.

It should also be noted that pump testing at Well 1 occurred during the wet season. Surface water was observed in low lying areas on the Site. Groundwater extraction during the wet season may not be representative of pumping and water level response during the dry season.

5 Summary and Conclusions

Well 1 was pumped for approximately 24 hours at an average rate of 180 gpm. Approximately 27.15 feet of drawdown was observed during pumping. Groundwater levels recovered to approximately 1.3 feet below the static water level measurement recorded before pumping began, indicating approximately 95.2% recovery within 24 hours since the pump was turned off. Groundwater level projections using the 24-hour constant rate data show that there is available groundwater production from Well 1 to meet the annual water demand of 46.85 acre-feet per year for the proposed project (provided assumptions in Section 4.2.1 are met).

Sincerely,

Hugh McManus, PG, CHG Senior Hydrogeologist

Att.: Figure 1 – Project Site Figure 2 – Geologic Map

Figure 3 – Depth to Water Hydrograph – Well 1

Figure 4 - Constant Rate Test - Depth to Water - Well 1

Figure 5 - Constant Rate Recovery - Well 1

Figure 6 - Residual Drawdown - Well 1

Attachment A - Preliminary Groundwater Well Evaluation

Attachment B - Pump Curve

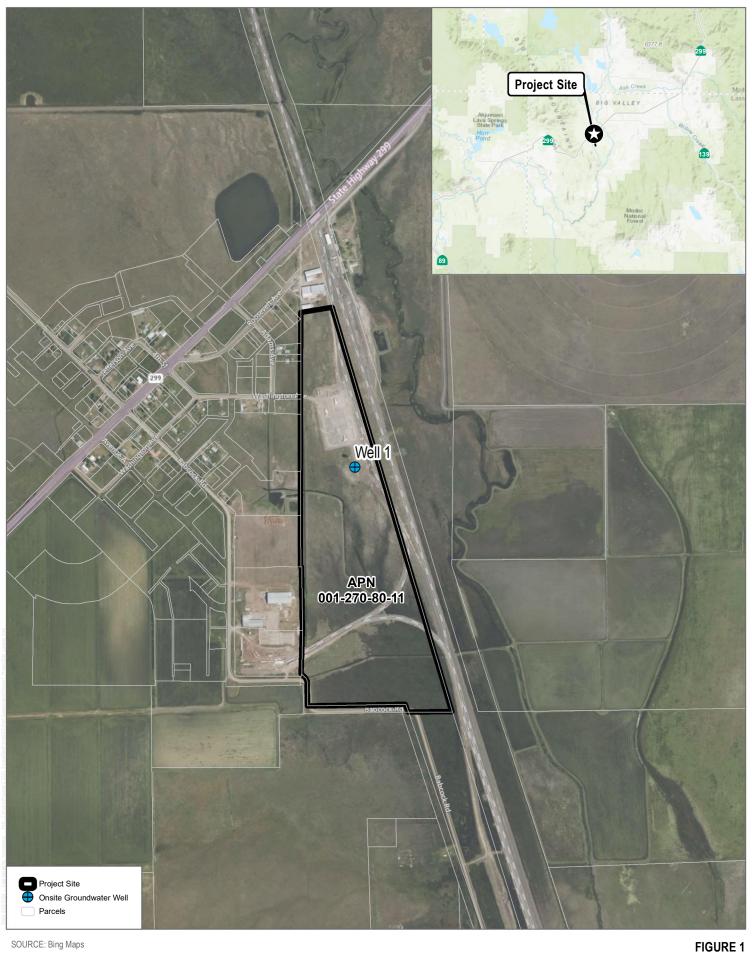
Attachment C - Pacific Survey Video Inspection Report

cc: Brian Grattidge, Dudek



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SOURCE: Bing Maps

DUDEK

Project Site

SUBJECT: GROUNDWATER WELL ASSESSMENT - 653-800 WASHINGTON AVE. BIEBER, CALIFORNIA 96009

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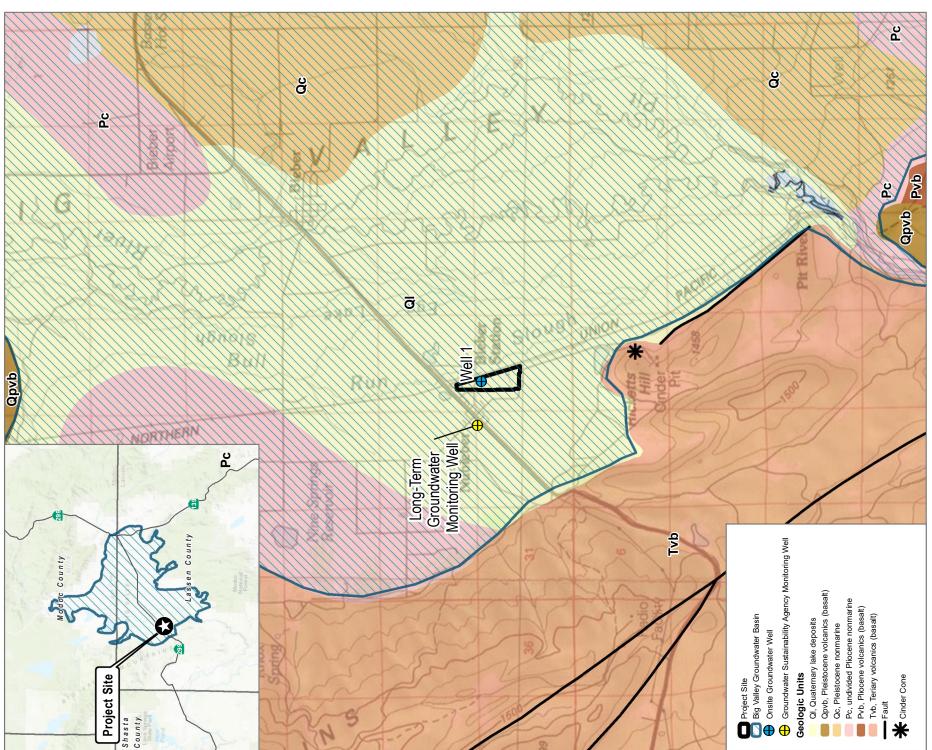
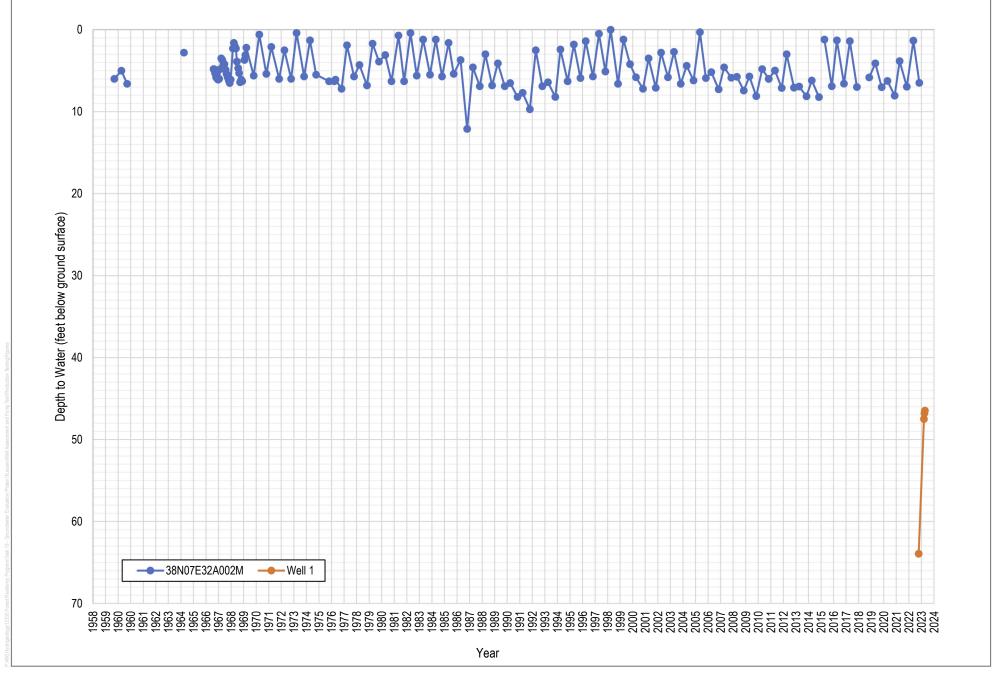


FIGURE 2

SOURCE: California Geological Survey, © 2013 National Geographic Society

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SOURCE: SGMA data view (https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels), Dudek

FIGURE 3

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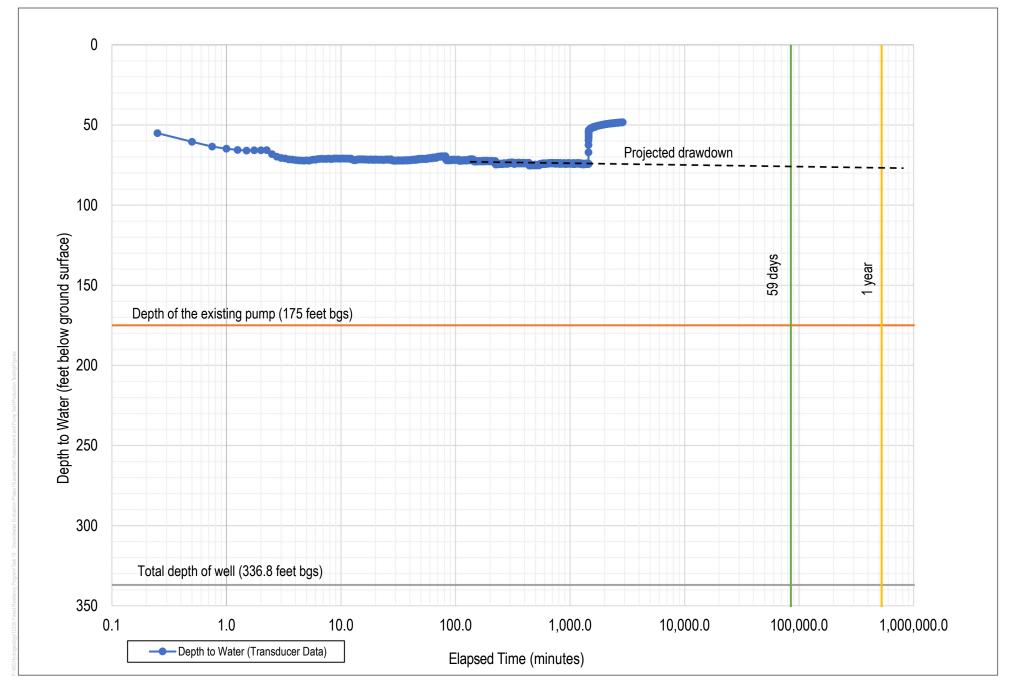


FIGURE 4

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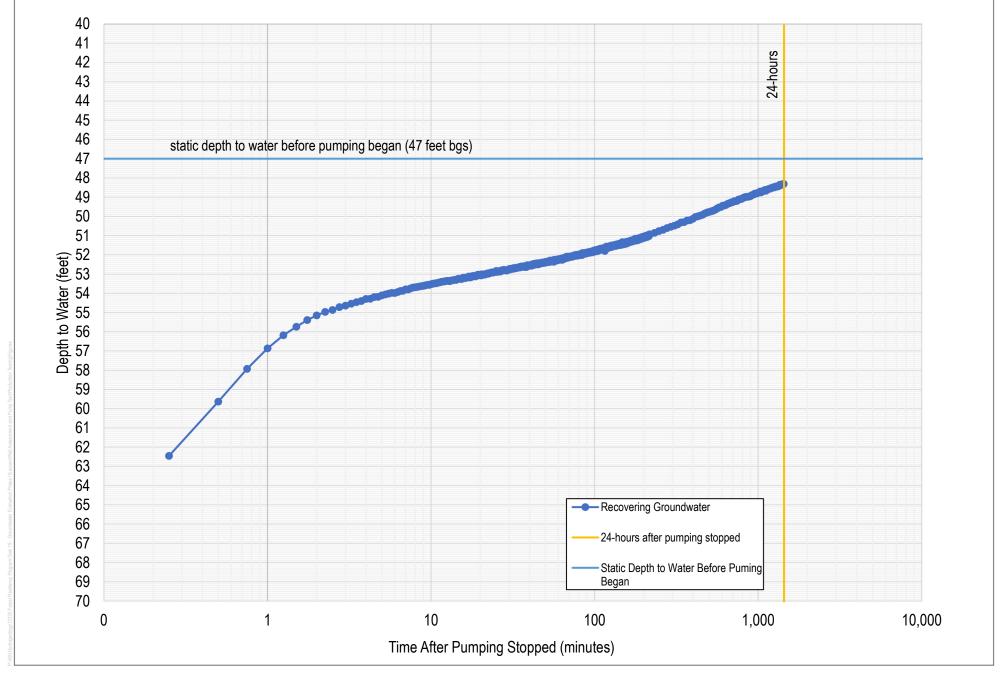
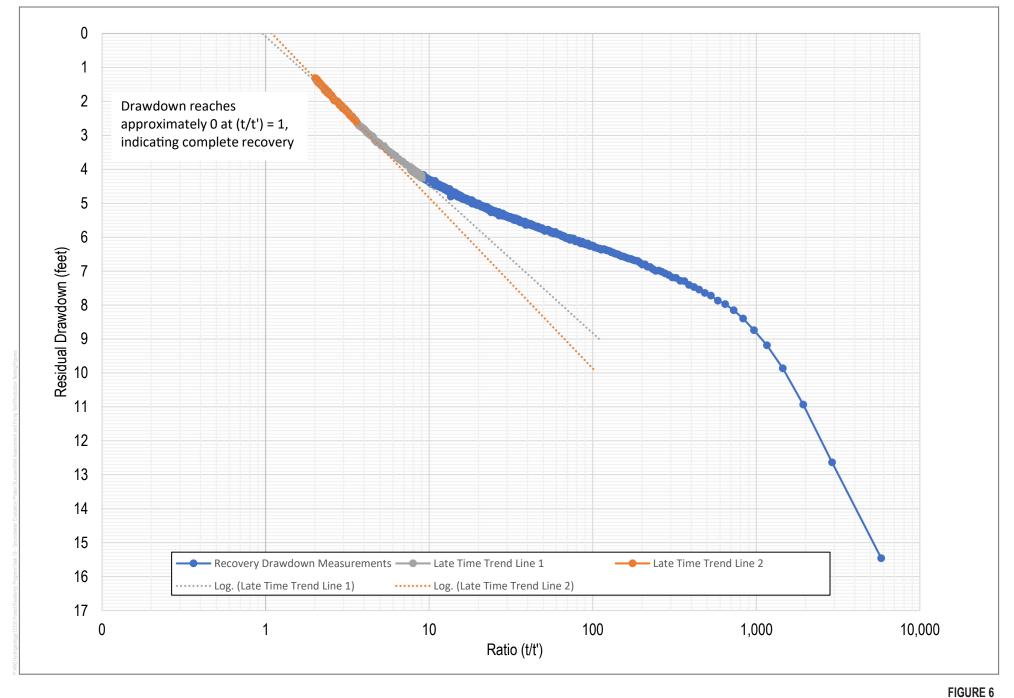


FIGURE 5

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Attachment A

Preliminary Groundwater Well Evaluation



MEMORANDUM

To: Arthur J. Wylene, Rural County Representatives of California

From: Hugh McManus (Dudek), Nicole Tucker (Dudek)

Subject: Preliminary Groundwater Well Evaluation – 55100 Roosevelt Property

Date: October 20, 2023

cc: Brian Grattidge (Dudek), Kayvan Ilkhanipour (Dudek)

Attachment(s): Figure 1 – Project Site

Appendix A - Well Completion Reports

Appendix B - Photographic Log

This memorandum provides a summary of groundwater well information collected from a desktop study and site reconnaissance at the property located at 55100 Roosevelt Ave. Nubieber, California 96068 (Project Site). The desktop study includes a review of available information from the California Department of Water Resources (DWR) database. The site reconnaissance included an onsite inspection of existing groundwater wells. The purpose of this work is to document existing groundwater wells on and near the Project Site. The data collected is intended to provide preliminary information to the Golden State Natural Resources (Client) on existing groundwater well conditions at the Project Site, and to recommend future groundwater well work to fulfill groundwater requirements as they pertain to the California Environmental Quality Act (CEQA).

The proposed project includes the development of a pellet processing facility (Project). The Project anticipates using approximately 46.85 acre-feet of groundwater per year (AFY). Groundwater is expected to be supplied from an onsite groundwater well. To meet the facilities anticipated groundwater demand, the onsite well will need to produce approximately 30 gallons per minute (gpm) continuously per year. The maximum anticipated flow rate is estimated to be 360 gpm.

The Project is subject to CEQA and there are two relevant CEQA environmental thresholds related to the use of groundwater at the Project Site. The thresholds are:

1) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

And,

2) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?

The overlying goal of this memorandum is to provide preliminary groundwater well information to inform future work for the Project to satisfy CEQA requirements.

1 Desktop Study

Well Completion Report Information

Dudek reviewed available well completion reports from the DWR well completion report database. DWR well completion reports provide details on well construction, lithology, groundwater depth encountered while drilling, and an estimate of production rate. Well completion reports are categorized within the DWR database by meridian, township, range, and section (MTRS) of the public land survey system (PLSS). Well coordinates (latitude and longitude) are not always available on well completion reports. Dudek searched PLSS MTRS number M38N07E33, M38N07E29, M38N07E28 (Figure 1).

Nine (9) well completion reports were available near the Project Site and reviewed for well information. None of the well completion reports provided sufficient information to correlate the reports with the onsite well. The completion reports do provide information on well construction and estimated yield for wells completed near the Project Site. Well completion reports are included in Appendix A. Table 1 presents a summary of information obtained from the well completion reports. Figure 1 includes estimated locations of the wells based on descriptions reviewed in the well completion reports. These estimated locations are based on limited data and may not represent the actual locations of the wells.

Table 1. Well Completion Report Information

Well Completion Report Number	Legacy Log Number	MTRS	Year Drilled	Total Depth (feet)	Screen Interval (feet)	Depth to Water (feet)	Casing Material	Casing Diameter (inches)	Estimated Yield (gpm)
WCR1968- 001028	49867	M38N07E33	1968	261	Unknown	72	Steel	8	20
WCR1986- 009048	16596	M38N07E33	1986	360	Unknown	50	Unknown	6	150
WCR1992- 013485	379964	M38N07E29	1992	120	60 - 120	15	Unknown	6.625	5
WCR1998- 007860	502639	M38N07E28	1998	380	300 - 380	25	Steel	6.25	100
WCR1982- 004122	090214	M38N07E33	1982	160	Unknown	18	Steel	6	80
WCR1966- 001455	5315	M38N07E33	1966	136	Unknown	12	Steel	8	45
WCR1992- 013497	484619	M38N07E28	1992	615	140 - 220	18	Steel	12.25	1,500
WCR1967- 001018	2842	M38N07E28	1967	155	Unknown	10	Steel	8	30
WCR1995- 008495	454582	M38N07E28	1995	150	Unknown	20	Steel	6	100

Note: MTRS = Meridian, Township, Range, and Section; gpm = gallons per minute.

Well completion reports for wells near the Project Site indicate that these wells were drilled between 1966 and 1998 to depths ranging from 120 feet to 615 feet. Depth to water measurements ranged from 12 feet below ground surface to 72 feet below ground surface. Initial estimated yields reported ranged from 5 gpm to 150 gpm, with the exception of the well drilled to the northeast of the Project Site with an estimated yield of 1,500 gpm. Based on the



available well data, it appears that wells drilled past a depth of 300 feet produced higher initial estimated yields compared to wells drilled shallower than 300 feet below ground surface. It should be noted that estimated well yields from well completion reports are generally estimated for a short period of time and are not a representative long term sustainable production rate. In addition, the initial estimated yield during well construction is conducted when the well is new and performing at its highest efficiency. Well efficiency, and subsequently well yield, tend to degrade over time due to accumulations on the well screen and/or in the filter pack.

Data reviewed from well completion reports show estimated yield from groundwater wells drilled near the Project site to depths beyond 300 feet generally have a higher production rate than shallower wells. Well completion information was not sufficient to correlate the available well completion information to the onsite groundwater well.

Sustainable Groundwater Management

The Project Site is located within the Big Valley Groundwater Basin (Basin 5-004), which is considered a medium priority basin, as defined in the 2018 update to DWR Bulletin 118. The Big Valley Groundwater Sustainability Agency (GSA) includes the County of Modoc GSA and County of Lassen GSA. The GSA prepared a Groundwater Sustainability Plan (GSP) in 2021. The plan is currently under review by DWR.

2 Site Reconnaissance

Dudek hydrogeologist, Nicole Tucker, performed a site reconnaissance at the Project Site on September 28, 2023. The reconnaissance included walking the property, making general observations, documenting the well location, and interviewing the previous landowner, Delbert Gould, about the history of the onsite groundwater well. One (1) groundwater well was observed on the Project Site and one (1) groundwater well was observed on the adjoining property to the north. Groundwater well locations documented during the site reconnaissance are included in Figure 1. Information gathered during the site reconnaissance is included in Table 2. Photographs collected during the site reconnaissance are included in Appendix B.



Table 2. Groundwater Well Information

Well Name	Use Type	Casing Diameter (inches)	Casing Material Type	Depth (feet)	Screen Interval (feet)	Production Rate (gallons per minute)	Pump Size (Horsepower)	Depth to Water (feet) ^b	Status		
Onsite Groundwater Well											
Onsite Well	Industrial	Unknown	Unknown	Unknown	Unknown	100 to 167ª	Unknown	63.93	Active		
	Offsite Groundwater Well										
Offsite Well	Domestic	6	Steel	Unknown	Unknown	Unknown	Unknown	Not Measured	Active		

Notes: Unknown data was either unable to be observed during the site visit or well records could not be found or confirmed.

Onsite Groundwater Well

The onsite groundwater well is an active well and is located along the eastern boundary of the Project Site (Figure 1, Photograph 1). A submersible pump is installed in the well. The pump is supplied power from a control box and power pole located near the well (Photograph 2). Wellhead discharge piping includes a 6-inch diameter elbow that extends from a roughly 2-foot by 2-foot steel plate that lies directly on a cement well pad (Photograph 3). The 6-inch diameter elbow is connected to a flange that is reduced to a 3-inch diameter steel pipe. A plastic threaded connector is installed at the 3-inch pipe. A 3-inch diameter hose connects with a cam lock to the plastic connector (Photograph 4). The hose is connected to a J-stand water fill station near the well (Photograph 5). The J-stand is used by Sierra Pacific Industries to fill water trucks for dust suppression. An access port is located on the steel plate, but it is unknown if a PVC sounding tube is connected to the access port for collection of groundwater level measurements (Photograph 6). A gravel feed tube exits the cement pad at roughly a 45-degree angle and appeared to be damaged (Photograph 7). The casing type and diameter and condition was not observed because the steel plate was covering the well casing. The steel plate could not be moved without heavy equipment.

The previous site owner stated that the property was purchased 20 years ago, and the well was onsite prior to his purchase of the property. The well was previously used to fill a water tower located on the Project Site (Photograph 8). The water tower is no longer in use. The previous owner stated that the only well maintenance performed on the well was a pump repair by Copp's Irrigation. The previous owner did not have well construction information available. Sierra Pacific Industries staff, who currently uses the site, stated that when the well is in use to fill water trucks, it can fill a 500-gallon truck in three to five minutes, equivalent to approximately 167 gpm to 100 gpm.

A static depth to water measurement was collected during the site visit. The depth to water was measured at 63.93 feet below the top of the metal well plate. The pump was turned on during the site visit to confirm that the well is operational. Discharge water was observed at the J-stand and appeared clear with no visible sediment or debris. The discharge flow rate was estimated visually at approximately 100 gpm (Photograph 5).



^{a.} Onsite staff estimate that a 500-gallon water truck fills in approximately three to five minutes; equivalent to approximately 100 gallons per minute to 167 gallons per minute.

b. Feet below the stop of the metal well cover.

Offsite Groundwater Well

One (1) offsite groundwater well is located on the adjacent property to the north of the Project Site (Figure 1). The offsite groundwater well is an active domestic well. The casing observed during the site visit is 6-inch diameter steel. The well is equipped with a submersible pump and 1-inch drop pipe at the well head (Photograph 9). The wellhead is sealed and there is no visible access for water level measurements. The well is on a cement pad within a wooden wellhouse. Discharge piping enters the cement pad and services buildings located on the parcel. Additional wellhead equipment includes a pressure tank, a water spigot, valves, a backflow device, and a pressure gauge. Power is supplied to the well from a power line. During the site visit, no water level measurement was collected, and the well was not turned on to confirm flow.

3 Summary and Recommendations

There is one (1) active groundwater well on the Project Site. The well is currently used by Sierra Pacific Industries to fill water trucks for dust suppression. Based on visual observations and communication with Sierra Pacific Industries staff during the site reconnaissance, the flow rate of the well is estimated to be 100 gpm¹. Depth to static water was measured during the site reconnaissance on September 28, 2023, at 63.93 feet below the top of the steel plate at the wellhead. No well completion information was obtained for the on-site well. Well construction details, casing condition, as well as pump size and placement depth, are not known. The age and long-term yield of the well are also unknown. The previous property owner stated that the well has produced water for the Project Site and the only historical maintenance performed on the well was a pump repair (the pump was not replaced). The well has supplied power and has a working pump and discharge assembly.

To assess the impacts on regional groundwater as it applies to sustainable groundwater management, the GSA should be contacted and the plans for groundwater use by the Project should be discussed. The GSA may have criteria and requirements for new groundwater use in the Basin.

To assess whether the onsite groundwater well is suitable for use and is suitable to supply the Project with a long-term water supply to meet the demand, Dudek recommends that production rate testing is performed on the onsite groundwater well. Production rate testing would include a step drawdown test to determine an ideal pumping rate for a constant rate pumping test. The constant rate test should be conducted for a period of at least 24 hours. The results of the constant rate test should be used to record the water level response (drawdown) to pumping and recovery after pumping has ceased. These projections could estimate if the groundwater well is suitable for sustainable groundwater production to meet the demands for the Project.

Dudek recommends the following steps to further evaluate the onsite groundwater well:

- Perform downhole video survey at onsite well.
 - Temporarily remove pump and motor.
 - Allow well to sit idle with no downhole equipment for at least 24-hours.
 - Perform video survey.

¹ This is a visual and antidotal estimate only. No flow meter was connected to the wellhead to confirm flow rate. It is unknown if the well can sustain this estimated flow rate for the life of the Project.



- Install PVC sounding tube (at least 1-inch in diameter) to the depth of the pump to record depth to water measurements when pump and motor is installed.

The video survey should be reviewed by a professional geologist or hydrogeologist to assess the condition of the well and the construction details.

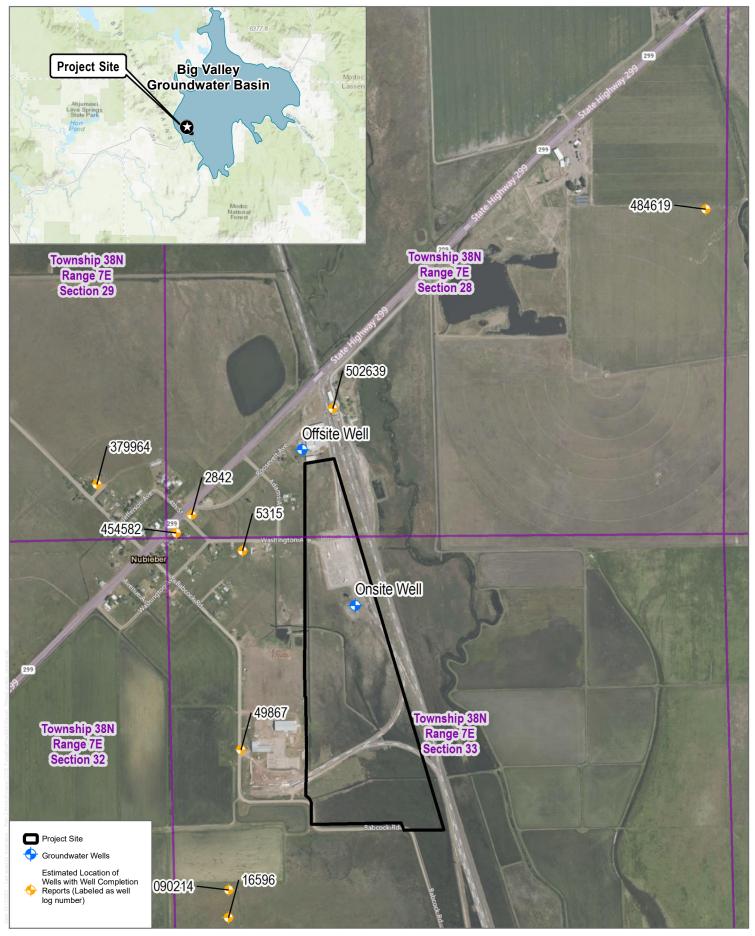
- Step drawdown testing
 - Install temporary test pump and discharge equipment (including flow meter).
 - Set recording water level transducers to monitor water levels.
 - Run the pump for at least three (3) different flow rates.
 - Project drawdown data at each step to determine a flow rate for a constant rate test.

The step drawdown test should be conducted and analyzed by a professional geologist or hydrogeologist.

- Constant rate test
 - Pump well at a constant rate for at least 24-hours.
 - Download data from transducers during and after test to monitor drawdown and recovery, respectively.

The constant rate test should be conducted and analyzed by a professional geologist or hydrogeologist. The results of the constant rate test can provide an estimate of long-term drawdown associated with pumping the onsite well at the desired flow rate as well as an estimate of the long-term sustainable production from the on-site well.





SOURCE: (c) 2009 Microsoft Corporation and its data suppliers

Note: Well locations with well completion reports are estimated based on limited location data available.

DUDEK 6 0 460 920 Feet

FIGURE 1
Project Site

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Appendix AWell Completion Reports



File with DWR

WATER WELL DRILLERS REPORT

(Sections 7079, 7080, 7081, 7082, Water Code)

Do Not Fill In

Nº 49867

THE DESCRIBERS AGENCY OF CALLEDDNIA

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Name								Total depth	261	ft. Depth of comple		261	ft.
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• •			•		7 r	\	🗖	100-180		m sandsto		olosz	
New Well 2		epening 🔲 ne material a		ditioning [Destroyin	ıg ∐	180-201 201-259		e pumic a		CTar A	
					_	FOIL	DMENIT.			m sandsto	116		
• •		USE (IPMENT:	259-261	Lava	rock			
		lustrial [st Well [1	Cal	tary	<u> </u>	<u></u>					
irrigation	1 📋 16:	er wen [] 0	ther 🔲	Otl		XXX	1		· · · · · · · · · · · · · · · · · · · 			
(4) (2)	CTATO Y	NIOTIATY	ED	I	Ott	.ici		 					
` '		NSTALI	ED:	١,	f aras	vel pac	kad						
	el: Ye		R:	,	ıı gıa	ver pac	NCU .						
SINGLE 🖸	X DOUI	BLE 🗌										_	
	1		Gage	Diameter	.		1						
From ft.	To ft,	Diam.	or Wall	of Bore]]	From ft.	To ft.	ļ					
				Dore		11.	11.			CONTIN	1777	AL LOG	
	70	8"	3/16							Water Co	one C.	ic. 13752	
<u> </u>	-,-							 -				c. 13752	
	<u> </u>	2/2/	1		Щ		L			· · · · · · · · · · · · · · · · · · ·			
Size of shoe or			3X0	Size of gra	vel:								
Describe joint		lded											
(7) PER			OR SCR	CEEN:									
Type of perfo	ration or na	me of screen	 	Т	r								
			Perf.	Rows		•							
From	l l	Co	per	per			Size	ļ					
ft.		t.	row	ft.		111.	x in.						
	_			ļ					<u> </u>				
	_			ļ									
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				<u> </u>									
(8) COI	NSTRU	CTION:	, ,	1									
Was a surface	sanitary sea	l provided?	Yes XXX	lo 🗆	To what	depth	70 ft.						····
Were any stra		inst pollution	Yes K	No 🗆	If	yes, note	depth of strata						
From	8 ft.	to 7	70 fc.									7.0	
From	ft.	7.7	ft.	_				Work started	11/ 1968			1968	
Method of sea	lingCem	ent						•	LER'S STATEM				., , ,
(9) WA	TER L	EVELS:		<i>j</i>	_			This well u of my kn o wled		my jurisdiction and	this rej	port is true to	the best
Depth at whi	ch water w	as first found,	if known	8	3	ft.		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i></i>				
Standing leve	l before per	forsting, if	known	<u>,</u>		ft.	·	NAME	Conners	Well Dri	ننلل	ng, Inn	<u> </u>
Standing leve	l after perf	orating and d	eveloping	72		ft.			(Person,				
(10) WI	ELL TE	ESTS:	. • •	•				Address	Box 362	Bieber	ت و	aliforn	ia_
- nump tes	t made? Y	s No		yes, by whor	n?				<i>a</i>				
	20 x	l./min. with	180	ft. drawd	own afte	r	2 hrs.	[SIGNED]	Roy A.	Comis			
Temperature	of water	Cool	Was a chemic	al analysis ma	de? Ye	1 <u> </u>	loxEx-	,		(Well Driller)		1 :	

250298

Dated July 5

Was electric log made of well? Yes □ No ☒X If yes, attach copy

DWR

THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Ī	V o.	1	6	5	9	6	•

Nonce of (ent No.	State Well No
Local Permit No. or Date	Other Well No
_	011
<u>(1, </u>	(12) WELL LOG: Total depth 360ft. Depth of completed well 360ft.
Add	from ft. to ft. Formation (Describe by colon character, size or material)
	Mr - 2 TMD Sail
City	
(2) LUCALIUM OF WELL (See instructions):	2 - 11 Barrens Plans
County Owner's Well Number	3 10 Drawn Clay
Well address if different from above	
Township 38 N Range 7E Section 33	10-50 Causa Sprid & Gravel
Distance from cities, roads, railroads, fences, etc.	
· · · · · · · · · · · · · · · · · · ·	50 - 150 Bleek Sondy Clay
	- \
	150 - 160 Black Sand 9 20 181
(3) TYPE OF WORK:	A DECEM 5 -100 4 2 7 0000-1
	160 335 Oney, Clay)
New Well & Deepening	160 335 grey Clay
Reconstruction	
Reconditioning	335-350 Be Rite Sandstal Dunic
Horizontal Well	(C) 1 - 1 (M)
Destruction [(Describe	550 - 360 Mess) Som Voten &
destruction materials' and procedures in Item, 12)	V - O P D V D
(4) PROPOSED USE	
Domestic	
Irrigation	
Industrial Industrial	
Test Well and Description of the Cost Well and t	
Stock of the state of the stock	
Municipal Municipal	
WELL LOCATION SKETCH Other	
(5) IPMENT: (6) GRAVED PACK:	
Rotary Reverse No Size	
Cable	
Other Bucket Racked from to the	
(7) CASING INSTALLED: (78) PERFORATIONS:	
Steel Plastic Concrete Type of perforation or size of screen	
	表示的第三人称形式 15 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15
From To Dia. Gage or From To Slot size of the ft.	TO THE PROPERTY OF A SECOND OF THE PROPERTY OF
O 190 BY 250 NOWE	
	the state of the s
	MAR 05 1990
(9) WELL SEAL:	
Was surface sanitary seal provided? Yes \(\mathbb{R}\) 'No \(\sigma\) If yes, to depth \(\frac{190}{190}\) ft:	
Were strata sealed against pollution? Yes No I Interval 160 ft.	The state of the s
Method of sealing	Work started and 1986 Completed and 1986
(10) WATER LEVELS.	WELL DRILLERS STATEMENT:
Depth of first water, if knownft.	WELL DRILLERS STATEMENT: This well was drilled under my jurisdiction and this report is true to the bost of my knowledge and filter.
Standing level after well completionft;	knowledge and felief
(11) WELL TESTS:	SIGNED John Committee
Was well test made? Yes ki No If yes, by whom?	NAME CONNERS WELL DRILL WY INC
Type of test Pump	NAME (Person, firm, or corporation) (Typed or printed)
Depth to water at start of testft. At end of testft	Address A0 Box 92
Discharge 12 V gal/min after 1 hours water temperature	ALTONORO COLLE
Chemical analysis made? Yes I No A If yes, by whom?	City ALI OR AS CUIT
Was electric log made? Yes No A If yes, attach copy to this report	License No. 23 V 248 Date, of this report

OCT 131992

38N/07E-33M

ORIGINAL
File with DWR

STATE OF CALIFORNIA THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in

No. 379964

Notice of Intent No.	State Well No.
Local Permit No. or Date 0344 - 72	Other Well No.
/1\ C	(12) WELL LOG: Total depth 120 ft. Completed depth 120 ft.
(1) C	
Addre:	from ft. to ft. Formation (Describe by color, character, size or material)
City _	6 - 3 TOP SUIL CLAY
(2) LOCATION OF WELL (See instructions):	3 -15 SHWD
County 455 254 Owner's Well Number	15 - 25 CREEN ELAY
	95 - 60 SAND A CLAY
Well address if different from above Township Range R / Section 33	60 - \$1 CLAY
	81 - 98 SAND & CRAVLE
Distance from cities, roads, railroads, fences, etc.	98 - 101 LAVA BOOK
	101 -120 RIME CANY
299 EAST (2) TYPE OF WORK	- \\\
(3) TIPE OF WORK	
New Well X Deepening	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Reconstruction \square	- /
Reconditioning	
Horizontal Well	- \
Destruction □ (Describe	⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨
destruction materials and pro-	(21)
cedures in Item 12)	
MORNEST 37 (4) PROPOSED USE	√ V- C
Domestic	
Irrigation	4 100
Irrigation Industrial Test Well	
Test Well	
Municipal □	
Other	
	1) -(2)
(5) EQUIPMENT: (6) GRAVEL RACK:	<u> </u>
Rotary Reverse Nove Size	
Cable Air Diameter of bore	
Other Bucket Racked from	
	_
(7) CASING INSTALLED: (8) PERFORATIONS:	J)
	<i></i>
Steel Plastic Deprese Type of perforation or size of serger	
From To Dia Gage or From To Slot	
From To Dia. Gage or From To Slot ft. ft. Wall	
From To Dia Cage or From To Slot	
From To Dia. Gage or From To Slot ft. ft. Wall ft. size	
From To Dia Gage or From To Slot size C () () () () () () () () () () () () ()	
From To Dia Gage or From To Slot size C () Wall (9) WELL SEAL:	
From To Dia Gage or From To Slot size ft. ft. wall (9) WELL SEAL: Was surface sanitary seal provided? Yes No If yes, to depth 22 ft.	
From To Dia Gage or from To Slot size ft. ft. wall (9) WELL SEAL: Was surface sanitary seal provided? Yes No If yes, to depth 2 ft. Were strata sealed against pollution? Yes No Interval ft.	
From To Dia Gage or From To Slot size ft. ft. wall (9) WELL SEAL: Was surface sanitary seal provided? Yes No If yes, to depth 22 ft.	
From To Dia Gage or From To Slot Size ft. ft. Wall (9) WELL SEAL: Was surface sanitary seal provided? Yes No If yes, to depth 2 ft. Were strata sealed against pollution? Yes No Interval ft. Method of sealing CEMENT (10) WATER LEVELS:	Work started 6 - 10 19 27 completed 6 - 30 19 92
From To Dia Gage or from To Slot size (9) WELL SEAL: Was surface sanitary seal provided? Yes No If yes, to depth	Work started E - 10 19 Completed E - 30 19 92 WELL DRILLER'S STATEMENT:
From To Dia Gage or from To Slot size C	Work started E - 10 19 Completed E - 30 19 97 WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the
From To Dia Gage or from To Slot size (9) WELL SEAL: Was surface sanitary seal provided? Yes No I fiyes, to depth 2 ft. Were strata sealed against pollution? Yes No Interval ft. Method of sealing	Work started 6 - 19 19 Completed 6 - 30 19 9 I WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
From To Dia. Gage or from To Slot ft. ft. Wall ft. size (9) WELL SEAL: Was surface sanitary seal provided? Yes No I ft yes, to depth ft. Were strata sealed against pollution? Yes No Interval ft. Method of sealing CEMEN ft. Standing level after well completion ft. (11) WELL TESTS:	Work started 6 19 19 Completed 6 30 1997 WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Signed Man 1320
From To Dia. Gage or from To Slot ft. ft. wall ft. size (9) WELL SEAL: Was surface sanitary seal provided? Yes No If yes, to depth 2 ft. Were strata sealed against pollution? Yes No Interval ft. Method of sealing CEMEN (10) WATER LEVELS: Depth of first water, if known ft. Standing level after well completion ft. (11) WELL TESTS: Was well test made? Yes No If yes, by whom? DRILLED T f test Pump Bailer Air lift No If yes, by whom? No If	Work started 6 - 10 19 Completed 6 - 30 19 92 WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Signed 3 May 1320 NAME 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
From To Dia. Gage or from To Slot ft. ft. wall ft. size (9) WELL SEAL: Was surface sanitary seal provided? Yes No If yes, to depth ft. were strata sealed against pollution? Yes No Interval ft. Method of sealing (10) WATER LEVELS: Depth of first water, if known ft. Standing level after well completion ft. (11) WELL TESTS: Was well test made? Yes No If yes, by whom? DRILLED T f test Pump Bailer Air lift ft. L to water at start of test ft.	Work started 8 - 19 19 Completed 5 - 19 9 1 WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Signed 3 1320 NAME Properties (Well Driller) (Well Driller) (Person, firm, or caporation) (Typed or printed)
From T6 Dia. Gage or from T5 Slot Size (9) WELL SEAL: Was surface sanitary seal provided? Yes No If yes, to depth 2 ft. Were strata sealed against pollution? Yes No Interval ft. Method of sealing CEMEN (10) WATER LEVELS: Depth of first water, if known ft. Standing level after well completion ft. (11) WELL TESTS: Was well test made? Yes No If yes, by whom? DRILLED T f test Pump Bailer At end of test ft. Discharge gal/min after hours Water temperature	Work started 19 19 Completed 50 1992 WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Signed (Well Driller) NAME (Person, firm, or corporation) (Typed or printed) Address P. A. (130)
From T6 Dia. Gage or from T5 Slot Size (9) WELL SEAL: Was surface sanitary seal provided? Yes No If yes, to depth 2 ft. Were strata sealed against pollution? Yes No Interval ft. Method of sealing CEMEN (10) WATER LEVELS: Depth of first water, if known ft. Standing level after well completion ft. (11) WELL TESTS: Was well test made? Yes No If yes, by whom? DRICLED T f test Pump Bailer Air lift L . to water at start of test ft. Discharge gal/min after hours Water temperature Chemical analysis made? Yes No If yes, by whom?	Work started 19 19 Completed 5 0 19 97 WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Signed 3 (Well Driller) NAME (Person, firm, or caporation) (Typed or printed) Address P. Gerson, firm, or caporation) (Typed or printed) City H. CAR THUR ZIP 76656
From To Dia. Gage or from To Slot ft. ft. wall ft. size (9) WELL SEAL: Was surface sanitary seal provided? Yes No If yes, to depth 2 ft. Were strata sealed against pollution? Yes No Interval ft. Method of sealing CENEUM (10) WATER LEVELS: Depth of first water, if known ft. Standing level after well completion ft. (11) WELL TESTS: Was well test made? Yes No If yes, by whom? DRILLED T f test Pump Bailer At end of test ft. Discharge gal/min after hours Water temperature	Work started 19 Prompleted 50 1997 WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Signed 3 Prompleted 50 1997 NAME Rerson, firm, or caporation) (Typed or printed) Address Prompleted 50 1997 Address Prompleted 50 1997 Gerson, firm, or caporation) (Typed or printed) City MCARTHUR ZIP 76656 License No. 331047 & Date of this report 9-11-92

ORIGIN File wit			R	EC	Εl/	/ED WEL	STATE L COM					ORT		3811	07	£	<u>゚゚゚ろ</u>	34
Page	_ of	و					Refer to I								STATE	WELL I	NO./STA	ATION NO.
_	Well No.	#	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			1998	ı	ło.	50	126	339						Ì	
Date Wo	rk Began	<u> </u>	ih.	99	<u> </u>	, Ended	4 98			(,			LATITUDE	<u> </u>			ONGITUDE
Local	Permit Ag	ency	29		14			.,	1	1	ine.		- _			Ш.		
	mit No. 🗕		199	77	-1	38 Permi	it Date		124	49	<u> </u>	1	_			APN/TE	RS/OTH	<u>ER</u>
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DEPTI	FROM	1 - 1			D	ESCRIPTION	1		1) (1	l								
Ft.	to Ft.	<u> </u>	j	Descr	ibe n	aterial, grain size,	color, etc.	U	4/1/	CITY	· Janaar	1 1	<u> </u>	WELL/LG	CATI	(ON _	ST	ATE ZIP
0	1 2	60	~y	_(1-10	१७५/	0/10	<u>) \</u>		Addr	ess	H	wy	299	>			
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20'	130	1	<u>G-1</u>	~~	n	CKIN	and the same	. 1250 P	Marin .	APN	Book _	<u> </u>	Page	270	Parce	<u>`ک</u> ا	<u>/</u>	
130'	140		<u>B 1.</u>	1 CA		Sand Stor	ر ۳۰۰	No.		Town	ship -	<u> 38%</u>	Range	07E	Sectio	n <u>ع.</u>	3	
140'	350'		<u> </u>	v	Q	/4 v 1 \ \	<u> </u>			Latit	ude^{jj}			NORTH	Longi		. 1	WES
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	†	<u> </u>								<i>\</i>	1			f			WATE	ER SUPPLY
	i	 								64	+ 6	T) M	ew W.	.//				Domestic
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	!	<u> </u>							\neg		丰						ł	Irrigation
	1	1							-		+							Industrial
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	1	1				· · · · ·	•				,		— souti				↓ -	CATHODIC PROTECTION
	<u> </u>	<u>. </u>					•		\dashv	Illust	rate or De	escribe Buildi	Distance	of Well from	n Landı	narks	-	OTHER (Specify)
	<u>r</u>	<u> </u>				·	•			PLE.	ASE BE	ACCU	RATE 6	es, Rivers, et COMPLET	Ĕ.		ļ	
	1	<u> </u>								DRILLI	NG /	Dest	(),				1.	3
	<u>i</u>	i I					•			METH	op	107	Thy	VIEID		FLUID _	<i>A1</i>	
	1	1								DEPTH	-WATI	EK L	EVEL (D WELL —
							•			WATE	R LEVEL		<u> </u>	_ (Ft.) & D	ATE ME	ASURE	4 4	120/78
	<u> </u>	1	770	7A 7						ESTIM	ATED YIE	ELD *	100	_ (GPM) &	TEST T		AIL	<u> </u>
TOTAL I	EPTH OF	BORING 2	<u>38</u>	<u></u>	_ (F	eet) (Feet)				TEST	LENGTH .		_ (Hrs.) '	TOTAL DRA	WDOW	N_66	<u> </u>	(Ft.)
TOTAL I	DEPTH OF	COMPLET	TED W	/ELL	·	(Feet)				* May	not be re	epresen	itative of	a well's lon	g-term	yield.		
			T				CASING(S	`	_						1	ANINITI	TAD	MATERIAL
	PTH SURFACE	BORE-		DE /	./ \		ASING	1						PTH SURFACE	<u> </u>	ININO		
THOM	JOH! AGE	HOLE DIA.		PE (.		MATERIAL/	INTERNAL		GAUGE		SLOT SIZ			JOHN AGE	CE-	BEN-	'	(PE
Ft.	to Ft.	(Inches)	BLANK	SCREEN CON-		GRADE	DIAMETER (Inches)		R WAL		IF ANY (Inches)		Ft.	to Ft.		TONITE	FILL	FILTER PACK (TYPE/SIZE)
				8 0	티르		(1101103)					— L			(٢)	(∠)	(∠)	(TTTE, OIZE)
0	60'	10"	\mathbf{M}	\perp		Steel	6/4		188		Nony	_ _	0	60	V			Type
60'	300	811	1	L		5/24/	61/4	_	<u> 158</u>		NãO 4	ᆚᆫ	60'	300			4	"Cley Sey!
300'	380	6"	V	/		5/44/	5"	1	188		1/3"	L		<u> </u>				,
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	ATTACE	IMENTS	S (🗹) —	_					— CE	RTIFI	CATI	ON ST	ATEMEN	т —			
			•	•		I, the unde	ersigned, ce	ertify	that th	his rep	ontins co	mplet	e and ac	curate to t	he bes	t of my	y know	ledge and belief.
_	Geologic		la <i>a</i> -			- 11 - 7	Connei	3	Til	///	X)~;	////						
-		struction Di	_			NAME (PER	ON, FIRM, OR	CORPO	RATION)	(TYPED	OR PRINTE	D)	ی , , .			7	12	<i>C</i> 2 4 3
-		ical Log(s)				$ $	Bo	X	91	7			A/+	vras	('	4	1/	(101
-		er Chemica	ai Analy	ses		ADDRESS	(Y)		$\overrightarrow{}$	7				CITY		,	STATE	ZIP
_	Other					⁻ _{2/} (ענגאל	iM s	("	on	us			; •	2/3	1/9:	g .	709-156
ATTACH	ADDITIONAL	INFORMAT	ION. IF	IT E	XIST	S. Signed WEL	L DRILLER/AUTH	ORIŽEI						D/	TE SIGN	<u>(0</u>		C-57 LICENSE NUMBER

ORIGINAL

File with DWR

STATE OF CALIFORNIA

Do not fill in

THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES

No. 090214

Ne Intent No	WATER WELL D	RILLERS REPORT State Well No
Loca _ ermit No. or Date		Other Well No.
/1		(10) ************************************
(1)		(12) WELL LOG: Total depth/60 ft. Depth of completed well/60 ft.
Add		from ft. to ft. Formation (Describe by color, character, size or material)
City		O - 1 TOP SOIL
(2) LUGATION OF WELL (See instru	etions):	2 - 6 LIGHT BAN CLOY
	Well Number	6 - 17 Blue Clay STICKEY
Well address if different from above		17 - 25 BON CLAY STICKEY
Township 38 N Range 7E	Section 33	25 - 60 Heary Gravel + Blue Clay
Distance from cities, roads, railroads, fences, etc.	mile 5/0	60 - 138 BLUE Clay Caving
HWY 299 AT NUBIC	ber	138 - 160 Stue Clay & GraveL
		- Main Water
	.T. :	
	(3) TYPE OF WORK:	
Nobleber	New Well Deepening	
1,00	Reconstruction	-\\\
10,010	Reconditioning	- V @ W
No	Horizontal Well	(5/1) - (1/1)
	Destruction [(Describe destruction materials and	
399	procedures in Item 12	
Hwy 299 2 Greenwood	(4) PROPOSED USE?	
JUN E	Domestic	
1 Crea	Irrigation	1-1 100
3 9	Industrial	(O) 1/2
3	Test Well	
	Stock	(V) - 1 (V)
	Municipal	- 6
WELL LOCATION SKETCH	Other	-64
(5) EQUIPMENT: (6) GRAVE		<i>N</i> - <i>O</i>
Rotary Reverse N	Size	
Cable Air Diameter of t	ore 6 ()	@ Mod drill 25' TO 70'
Other Bucket Roked from		
(7) CASING INSTALLED: (8) PERFORM	RAPTONS:	-EXTLEME COVING
	Pation or size of screen	
	To (8)	-
From to Dia. Cage or From the ft. Sin. Wall ft.	ft.	
0 70 & 188		-
	11111	-
(9) WELL SEAL:	- HII.	
	If yes, to depth 70 ft.	_
_	o Intervalft.	-
	nent	Work started 5-18 19.82 Completed 5-20 19.82
(10) WATER LEVELS:		WELL DRILLER'S STATEMENT:
Depth of first water, if known 25	ft.	This well was drilled under my jurisdiction and this report is true to the best of my
Standing level after well completion /	ft.	knowledge and helief.
(11) WELL TESTS:	w whomedrillet	SIGNED (J. M. C. Y. (Y. M.) Driller)
Was well test made? Yes \(\sum \) No \(\subseteq \) If yes, \(\text{If yes, } \) Type of test \(\text{Pump} \) \(\supseteq \) Bailer \(\supseteq \)	, wilding	NAME TIOGOC DILLUNG CO.
Depth to water at start of test 18 ft.	At end of test 35 ft	(Person, firm, or corporation) (Typed or printed)
Discharge 80 gal/min after / hours	Water temperature 56	Address DO BOX 1048
Chen nalysis made? Yes \(\square\) No \(\bar\) If yes, 1		City FICTURAS Calif Zip 96101
Was electric log made? Yes \(\sigma \) No \(\sigma \) If yes, a	ttach copy to this report	License No. 33675/ Date of this report 5-28-52

WATER WELL DRILLERS REPORT

(Sections 7079, 7080, 7081, 7082, Water Code)

THE PARTY

53	1	5
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Do Not Fill In

THE	RESOURCE	S AGENCY	OF	CALIFOR GIA^{NF} ESOURCE SV ater	IDEN	Sec. 13752
DI	PARTMENT	OF WATE	R R	ESOURCE Nater	Code	State Well No.
		• • • • • • • • • • • • • • • • • • • •				Other Well No.

· <u>*</u>							
(1) (- .	(11) WELL LOG:	. The second
Name					•	Total depth 136	ft. Depth of completed well 136 ft.
Addre				•			
Addre					4	Formation: Describe by color, characte	and the first of the contract
						0 - 4	ft. to Stell ft.
	TION OF	WELL:					
County	assen		Owner's number, if	any ,		H - 16	Mellow Clay
Township, Range	- January P	N 3	and the	Par la	22		
		0 / 0	Mu la	2000	4	11 - 00	CAMARI
Distance from ci	ties, roads, railroads,	etg. OTA	THECE	RALL	4	16 - 00	gravet
cay	, Une	1 0/1	<u>~ </u>				<i>V</i>
(3) TYPE	OF WORK	(check):			20- 58	louse Clay
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	describe material			- ; ,	о п	58 - 130	aren Colon
				· FOIT	TO ATT THE		Tour July
	OSED USE		1 '		IPMENT:	126 127	
	🛚 Industrial [Rotary		130 - 136	Black Sand
Irrigation [☐ Test Well [ther 🔲 📗	Cable	X		
				Other			
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	~0 0 ·	1916		$\overline{}$	·		
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<u>`</u>			1 , 1				CONSIDENTIA
Size of shoe or w	ell ring: 3/16	in Da	Mare of graves:				SOMMUEN HAL LOG
Describe joint	No La	ad			_		Wuler Code Sec. 13752
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• •			CEEN:				
Type of perforati	on or name of screen		,				
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			1	7			
(8) CONS	TRUCTION	Γ•					
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	nitary seal provided?						
Were any strata s	ealed against pollutio	n? Yes	No 🗆	If yes, note	depth of strata		
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From	ft. to	ft.				Work started May 249 66	, Completed May 27 19 66
Method of sealing	las	ina	4 Cer	nent	•	WELL DRILLERS STÁTEMEI	NT:
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	ER LEVELS				•	of my knowledge and belief.	
	water was first foun			ft. 🕊		NAME OF A	^さ ∧ <i>N. 扒 戸 P</i>
Standing level b		known.	·	ft.		NAME DACA	m, or corporation) (Typed or printed)
Standing rever b	efore perforating, it		ÿ	I ft.		1 - 1 rerson, fire	O O
	etore perforating, if	-developing				1	
Standing level as	,	-developing	1	//	n	Address School	Calif
Standing level as (10) WEI	L TESTS:	_	f yes, by whom?	lack	Comman	Address Scelet	Calif
Standing level as (10) WEI Was pump test m	L TESTS:	<u>. □ I</u>	f yes, by whom?	Jach,	Como	0 0	Carif
Standing level as (10) WEI Was pump test m	L TESTS: 1ade? Yes No. 5 gal./min. with	·	ft, drawdown		hrs.	[SIGNED] Jack	Calif Connes (Well Drilles)
Standing level as (10) WEI Was pump test m	L TESTS: 1ade? Yes No. 5 gal./min. with	·			-	0 0	
Standing level as (10) WEI Was pump test m 1:	L TESTS: 1ade? Yes No. 5 gal./min. with	h 23 Was a chemic	ft, drawdown	Yes 🗌 🛚 1	hrs.	0 0	Carif Connes (Well Drilley) Dated June 23, 1966

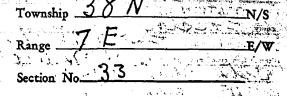
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A. Location of well in sectionized areas.

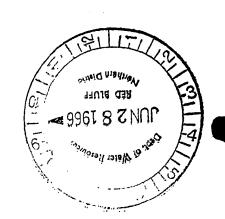
Sketch roads, railroads, streams, or other features as necessary.

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WEST				EAST
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B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances.



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Geologic l	Log				I, the unde	rsigned, ce	rtify that	this r	eportiscompl	lete/and	accurate to t	he bes	t of my	/ know	ledge and belief.
`	truction Diag	ram			NAME	Conny		1/e		1/199	 			4	66
Geophysic	cal Log(s)				PERSO		;UKPORATION) جر)(TYPI グ	ED OR PRINTED)	<u> </u>	1//		D		6/11/
Soil/Wate	r Chemical A	nalys	es		ADDRESS	Box_	9	<u> </u>	<u> </u>		Horas CITY		,	STATE	ZIP
Other						4),,,	n. 1	1	an A		4	g / -	10	7	200 2000
ATTACH ADDITIONAL IN	NFORMATION	V. IF	IT EXI	STS.	Signed WELL	DRILLER/AUTHO	ORIZED REPRI	ESENTA	TIVE .			YTE SIGN	/ / <u>/</u>		C-57 LICENSE NUMBER

ORIGINAL
File with DWR

WATER WELL DRILLERS REPORT

(Sections 7079, 7080, 7081, 7082, Water Code)

THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

Do	CONFIDENTIAL WHEFILE Sec.	LOG 13752
No	2842	

(1) O W	NER:				_	•	-:	(11) WELL I	LOG:	2 1 24	. s	÷	
Name							*	Total depth	155 ft.	Depth of completes	l well	155	ft.
Address							4			size of material, and s			
,									-	ft. to			fc.
(2) LO	CATIO	N OF W	VELL:	:				0-4	Top s	oil			
County	Las			Owner's numb	er, if an	v		4-19		brown clay			
Township, Ra								19-22		gravel			
Distance from								22-140		green			
		,	13 11 2	<u> </u>				140-145		sand			
(3) TYI	PE OF	WORK	(check) •		_		145-155	Green				
New Well		epening [.ditioning [ז ר	Destroyin	· []	2,7 7	9,2 901.	0 2 0 2			
If destruction	_					000010, 11.	ъ ⊔			········	· · · · · · · · · · · · · · · · · · ·		
(4) PRO						FOII	IPMENT:						
Domestic						_			··.		Code Sec	100	
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irrigation		er wen [riiei 🔲		her	X			C _{U j,s}	Code Sec.	10,00	
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From	То		or	of		From	To		· · · · · · · · · · · · · · · · · · ·		<u> </u>		
ft.	ft.	Diam.	Wall	Bore		ft.	ft.	·			 		
_ 0	36	8#	3/10	5									
<u> </u>													
			<u> </u>					•					
Size of shoe or	well ring:	<u> 4개호클래 x</u>	ر8#	Size of gra	vel:				<u> </u>				
Describe joint	Welde	ad							·				
(7) PER	FORA'	TIONS (OR SCI	REEN:									
Type of perfo	ration or na	me of screen	None										
			Perf.	Rows									
From		Го	per	per		5	Size						
ft.	1	ft.	row	ft.		in.	x in.						
							,						
			W-7-1				,						
(8) COI	NSTRU	CTION	· · · · · · · · · · · · · · · · · · ·										
Was a surface				Io 🖂	To what	t denth	34 ft.		· · · · · · · · · · · · · · · · · · ·				
Were any strai				No 🗆			depth of strata				-		_
From	70 ft.		20 ft.			, , , , , , , , , ,	<u> </u>						
From	19 /t.		ft.					Work started Oct	t. 30°67 .	Completed Nov	· 319 67		
		***************************************						WELL DRILLER			<u>• </u>	-	
Method of sea		nent						!		jurisdiction and t	bis report is tra	ue to the	e best
		EVELS:	:2		19	4-		of my knowledge					
Depth at whi					10	ft.		NAME -	9: 5:5 7 7	202.1.1.1	τ		
Standing leve		•				ft,		NAME Conne	(Person, firm.	Drilling. or corporation) (To	ped or printed)		
Standing level			leveloping		10	ft.					/	••	
(10) WI			• •					Address Box 3	502 Bieb	er, Calife	<u>rnia 960</u>	09	
- T		es 💢 No	1=	f yes, by who				- 41	· 41 (0 A	10/12			
	,	l./min. with		ft, drawd				[SIGNED]	oy V. C	(Well Driller)	<u> </u>		
Temperature o	of water		Was a chemic	al analysis ma	ide? Ye	es 🗌 🗅 N	To 🔀		<i>V</i>				6-
Was electric le	og made of	well? Yes 🗍	No 🕱	If yes,	, attach	сору		License N25029	70	_Dated_Nov.	0	19.	67

ORIGINAL File with D	WR ₁			Ę	R	C	; 	WELL	COME	OF CALIF	ON	REPORT	Г	38 N	M	LC	61	284
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										-		PTH OF STATIC NTER LEVEL		20 (Ft.) & DA	TE ME	ASURE	D _10	0/06/95
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TOTAL DEPT	TH OF C	OMPLET	ED	WE	LL	_		(Feet)			* 1	May not be repre	seni	tative of a well's lon	g-t <i>erm</i>	yield.		
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FROM SURF		BORE- HOLE	T		(<u>~</u>				INTERNAL	GAUG	·E	SLOT SIZE		FROM SURFACE		····	TY	PE
	_	DIA. (Inches)	BLANK	EEN	CON-	PIPE	,	MATERIAL/ GRADE	DIAMETER	OR WA	\LL	IF ANY	╟		CE- MENT	BEN- Tonite	FILL	FILTER PACK
Ft. to	Ft.		3	Š	2 2	Ⅱ			(Inches)	THICKN		(Inches)	L	Ft. to Ft.	(<u></u>	(८)	(∠)	(TYPE/SIZE)
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	Other						_	ADDRESS O		~ \		(X772		CHALLS	/x/		STATE	ZIP
ATTACH ADDI	TIONAL I	NFORMATI	ON.	IF I	T E	ast	s.	Signed	DRILLER/AUTHO	ORIZED REPR	ESFNT	TATIVE			TE SIGN	ED ED	145	C-57 EICENSE NOMBER

Appendix BPhotographic Log

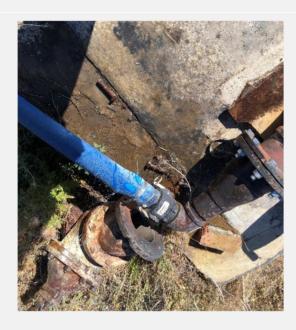




Photograph 2. Power and well control box adjacent to the onsite groundwater well.



Photograph 1. Active onsite groundwater well located along the eastern boundary of the Project Site.



Photograph 4. 3-inch hose connected at the wellhead.



Photograph 3. Wellhead discharge piping includes 6-inch elbow, reducer pipe at a flange connection, plastic threaded connector, and 3-inch hose connected with a camlock. The well cover is a metal plate on a cement well pad.



Photograph 5. Onsite groundwater well connected to J-stand for filling up water trucks. The onsite well was turned on during the site visit to confirm well operation and visually estimate flow rate.



Photograph 6. Access port on steel plate covering well. PVC sounding tube extending into the well casing was not observed.



Photograph 7. Gravel feed tube located to the right of the wellhead on the cement pad.



Photograph 8. According to the previous site owner, the onsite groundwater well was previously used to fill an onsite water tower.



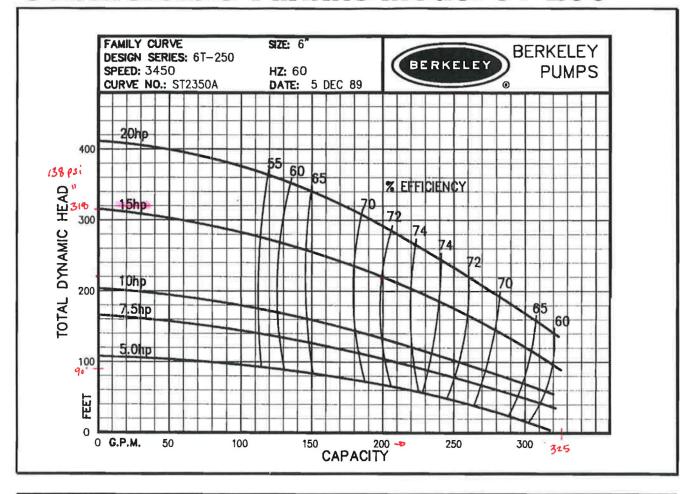
Photograph 9. Offsite active domestic well located on the adjacent property to the north.



Attachment BPump Curve



Submersible Turbine Model 6T-250

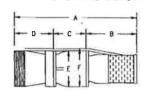


Specifications

LIQUID END WEIGHTS

DESCRIPTION	WEIGHT LBS.	HP RATING	MOTOR FLANGE
ONE STAGE L.E.	55.8	5-20	6"
ONE STAGE LE.			
ONE STAGE L.E.			
EACH ADDED STAGE	19.4	ALL	ALL

OUTLINE DIMENSIONS



- A- ONE STAGE LIQUID END LENGTH B- SUCTION CONNECTION LENGTH!
- C- STAGE LENGTH
- D- DISCHARGE CONNECTION LENGTH
- E- BOWL DIAMETER
- F- DIAMETER ACROSS LEAD GUARD

CURVE No. ST2350A

IMPELLER DATA

TYPE: <u>ENCLOSED</u> EYE AREA _____5.76 Sq. In. THRUST CONSTANT K ____2.11 Lbs./Ft of HEAD.

١	HP	IMPELLER No.	STAGES	IMPELLER Dia.
İ	20	M04043	6	4.53" @ 34" (3.88")
ľ	15	S39546	5	4.38" @ 32" (3.72")
Ī	10	M04043	3	4.53" @ 34" (3.88")
1	7.5	S39545	3	4.19" @ 32" (3.50")
I	5.0	S39545	2	4.19 @ 32* (3.50")

BOWL DATA

BOWL No. MO4461 PUMP SHAFT Dia. 1"

TYPE: THREADED DISCHARGE SIZE 3" NPT (Fomde)

В	C	D	E	F	HP RATING	MOTOR FLANGE
11.00	5.00	3.63	5.38	5.81	5-20	6"
	-	-	\rightarrow	_		
	В	B C	B C D	B C D E	E: For each additional stage add 'C' B	B C D E F RATING

REMSED 15 May 90

Attachment C

Pacific Surveys Video Inspection Report



Pacific Surveys

a full service geophysical well logging company

Video Survey Report

Company:	Dudek			Date:	14-Mar-24		
Well:	Onsite Well			Run No.	One	Truck	PS-12
Field:	Nubieber			Job Ticket:	32058	-	
State:	California			Total Depth:	336.8 ft		
Location:	653700 Washington Ave.			Water Level:	46.8 ft	SWL	
	41.0945 -121.1752			Oil on Water:	No	Amount:	N/A
GPS:				Operator:	Schumacher	-	
Zero Datum	Top of CSG	Tool Zero:	Side-Scan			Dead Space	1.75 ft

Top of CSG Guides Set @ 12 in Peacon for Survey General Inspection Model RT9600

Reason for Survey:		General Inspection	Guides Set @	12 IN		Model B19600		
Depth		Observations			We	ell Details		
0.0 ft	Begin survey from the to	pp of the casing. Moderate scale is observed.		Perforation	n:	From Survey		
46.8 ft	SWL; water is slightly cl	oudy with good visibility. Increased scale once unde	r water.	Torch-cut		334.20 ft to ?		
72.4 ft	Casing reduction. Reduc	tion is estimated to be approx. 10-inch.						
140.0 ft	Less scale observed on	he casing.						
180.0 ft	Increased scale observe	d on the casing (near pump setting).						
334.2 ft	First visible perforation.	Perfs appear to be torch cut.						
336.8 ft	Fill encountered. Unable	to view additional perfs due to proximity of fill to t	op of perf interval.					
	End survey.							
				Casing Siz	e (in):	From Survey		
				O.D.	I.D.			
				12.750	12.250	0.00 ft to 72.40 ft		
				Estimate	ed 10 in	72.40 ft to 336.80 ft		
				Casing Ma	terial	Mild Steel		
				Screen Ma	terial	Mild Steel		

